

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: P332977-830

Luminaire Tested: **S124RDIP-S1020D1035U830-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332977-830
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: S124RDIP-S1020D1035U830-4F0-1E-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: 7310.7 lumens
Efficiency: N/A
Efficacy: 120.8 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

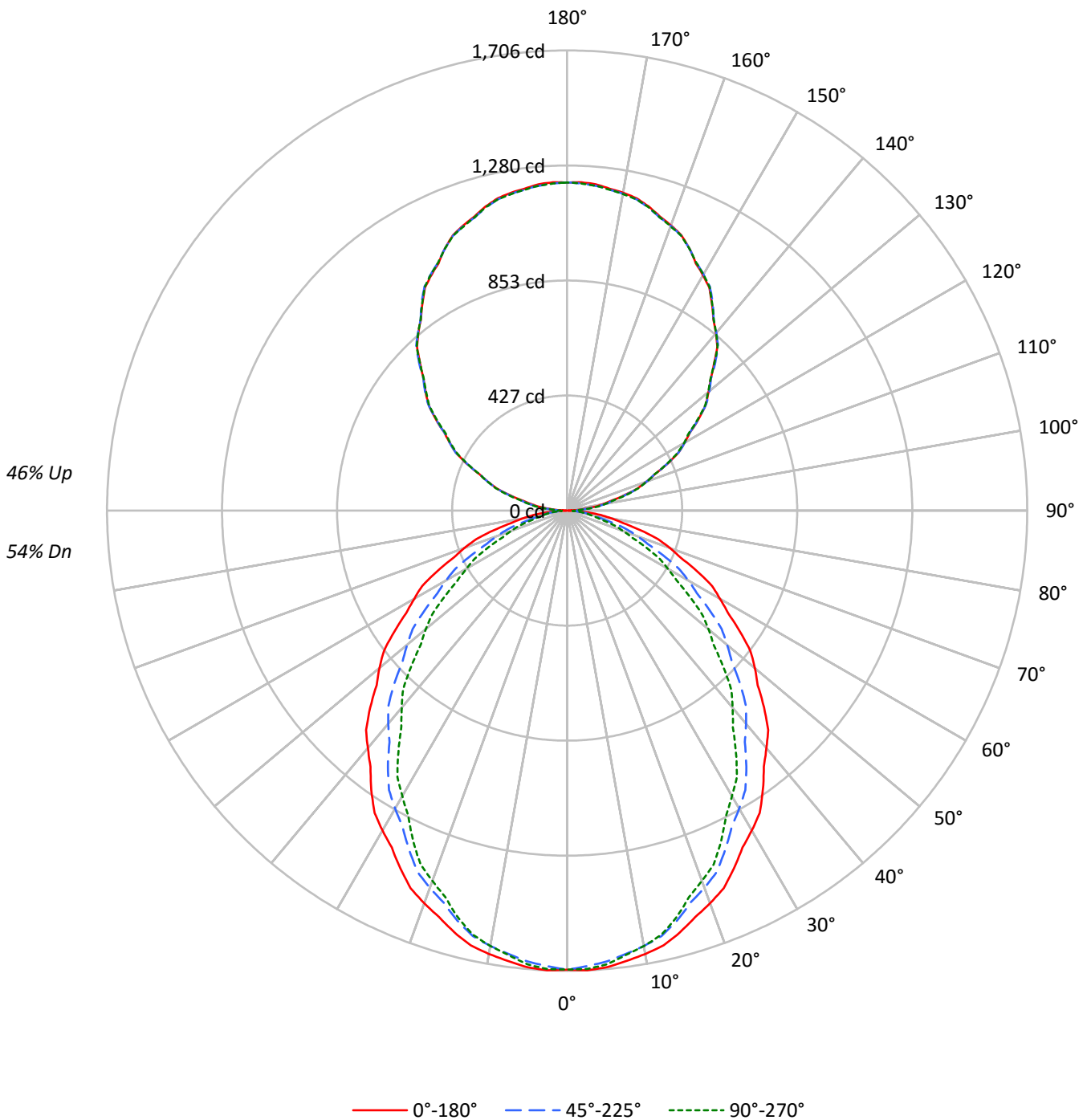
Input Watts (W): 60.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332977-830

CATALOG NUMBER: S124RDIP-S1020D1035U830-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P332977-830

CATALOG NUMBER: S124RDIP-S1020D1035U830-4F0-1E-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° | 13739 | 13739 | 13739 |
| 5° | 13771 | 13602 | 13686 |
| 10° | 13684 | 13439 | 13439 |
| 15° | 13527 | 13157 | 13059 |
| 20° | 13311 | 12785 | 12550 |
| 25° | 13036 | 12351 | 12038 |
| 30° | 12767 | 11893 | 11395 |
| 35° | 12471 | 11417 | 10749 |
| 40° | 12113 | 10877 | 10053 |
| 45° | 11783 | 10340 | 9344 |
| 50° | 11408 | 9722 | 8593 |
| 55° | 11005 | 9080 | 7776 |
| 60° | 10563 | 8375 | 6944 |
| 65° | 10157 | 7494 | 6124 |
| 70° | 9567 | 6522 | 5200 |
| 75° | 8821 | 5405 | 4226 |
| 80° | 7694 | 4119 | 3877 |
| 85° | 6521 | 3742 | 3501 |



TEST NUMBER: P332977-830

CATALOG NUMBER: S124RDIP-S1020D1035U830-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 159.9 | 2.2 |
| 10°-20° | 445.8 | 6.1 |
| 20°-30° | 643.8 | 8.8 |
| 30°-40° | 729.7 | 10.0 |
| 40°-50° | 704.7 | 9.6 |
| 50°-60° | 586.0 | 8.0 |
| 60°-70° | 404.6 | 5.5 |
| 70°-80° | 205.1 | 2.8 |
| 80°-90° | 56.3 | 0.8 |
| 90°-100° | 80.2 | 1.1 |
| 100°-110° | 237.7 | 3.3 |
| 110°-120° | 403.4 | 5.5 |
| 120°-130° | 531.9 | 7.3 |
| 130°-140° | 597.4 | 8.2 |
| 140°-150° | 587.0 | 8.0 |
| 150°-160° | 493.7 | 6.8 |
| 160°-170° | 328.5 | 4.5 |
| 170°-180° | 115.0 | 1.6 |
| 0°-30° | 1249.5 | 17.1 |
| 0°-40° | 1979.2 | 27.1 |
| 0°-60° | 3269.8 | 44.7 |
| 0°-90° | 3935.8 | 53.8 |
| 90°-120° | 721.3 | 9.9 |
| 90°-150° | 2437.7 | 33.3 |
| 90°-180° | 3375.0 | 46.2 |
| 0°-180° | 7310.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1702 | 1702 | 1702 | 1702 | 1702 | |
| 5° | 1699 | 1694 | 1678 | 1691 | 1689 | 161 |
| 15° | 1618 | 1606 | 1574 | 1571 | 1562 | 456 |
| 25° | 1464 | 1438 | 1387 | 1365 | 1351 | 674 |
| 35° | 1265 | 1222 | 1158 | 1115 | 1091 | 790 |
| 45° | 1032 | 982 | 906 | 844 | 818 | 795 |
| 55° | 782 | 728 | 645 | 580 | 552 | 699 |
| 65° | 532 | 474 | 392 | 338 | 321 | 525 |
| 75° | 283 | 234 | 173 | 145 | 136 | 299 |
| 85° | 70 | 46 | 40 | 38 | 38 | 79 |
| 90° | 3 | 13 | 21 | 26 | 28 | 7 |
| 95° | 56 | 65 | 72 | 74 | 74 | 63 |
| 105° | 219 | 220 | 224 | 227 | 230 | 233 |
| 115° | 410 | 410 | 408 | 407 | 406 | 404 |
| 125° | 597 | 597 | 596 | 595 | 593 | 532 |
| 135° | 770 | 776 | 776 | 774 | 772 | 596 |
| 145° | 936 | 940 | 941 | 940 | 937 | 586 |
| 155° | 1072 | 1072 | 1072 | 1075 | 1072 | 493 |
| 165° | 1168 | 1165 | 1163 | 1168 | 1165 | 329 |
| 175° | 1215 | 1210 | 1209 | 1215 | 1209 | 115 |
| 180° | 1216 | 1216 | 1216 | 1216 | 1216 | |



TEST NUMBER: P332977-830

CATALOG NUMBER: S124RDIP-S1020D1035U830-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1701.9 | 1701.9 | 1701.9 | 1701.9 | 1701.9 | 1701.9 | 1701.9 | 1701.9 | 1701.9 | 1701.9 | 1701.9 |
| 2.5° | 1706.1 | 1705.2 | 1704.2 | 1703.4 | 1702.4 | 1700.6 | 1698.1 | 1695.5 | 1693.0 | 1690.5 | 1693.0 |
| 5° | 1699.3 | 1698.2 | 1697.0 | 1695.8 | 1694.7 | 1692.3 | 1688.9 | 1685.5 | 1682.0 | 1678.5 | 1681.4 |
| 7.5° | 1683.9 | 1682.7 | 1681.5 | 1680.3 | 1679.0 | 1676.2 | 1671.7 | 1667.2 | 1662.6 | 1658.1 | 1660.0 |
| 10° | 1669.3 | 1667.9 | 1666.4 | 1665.0 | 1663.6 | 1660.2 | 1655.0 | 1649.8 | 1644.5 | 1639.4 | 1640.5 |
| 12.5° | 1650.6 | 1648.9 | 1647.2 | 1645.6 | 1643.9 | 1639.9 | 1633.8 | 1627.7 | 1621.6 | 1615.4 | 1616.1 |
| 15° | 1618.5 | 1615.9 | 1613.4 | 1610.7 | 1608.1 | 1603.2 | 1595.9 | 1588.7 | 1581.5 | 1574.2 | 1573.7 |
| 17.5° | 1579.7 | 1575.9 | 1572.2 | 1568.4 | 1564.6 | 1558.4 | 1549.7 | 1541.1 | 1532.4 | 1523.6 | 1522.0 |
| 20° | 1549.4 | 1545.7 | 1541.9 | 1538.1 | 1534.4 | 1527.6 | 1517.8 | 1507.9 | 1498.1 | 1488.2 | 1485.9 |
| 22.5° | 1516.1 | 1511.8 | 1507.6 | 1503.4 | 1499.2 | 1491.8 | 1481.3 | 1470.7 | 1460.2 | 1449.6 | 1446.1 |
| 25° | 1463.5 | 1458.2 | 1453.0 | 1447.8 | 1442.6 | 1434.1 | 1422.2 | 1410.3 | 1398.5 | 1386.6 | 1381.7 |
| 27.5° | 1408.2 | 1401.7 | 1395.2 | 1388.6 | 1382.1 | 1372.4 | 1359.7 | 1347.1 | 1334.4 | 1321.6 | 1315.6 |
| 30° | 1369.6 | 1362.4 | 1355.2 | 1347.9 | 1340.7 | 1330.2 | 1316.6 | 1303.0 | 1289.4 | 1275.8 | 1268.6 |
| 32.5° | 1329.0 | 1320.8 | 1312.6 | 1304.5 | 1296.3 | 1285.2 | 1271.1 | 1257.1 | 1242.9 | 1228.9 | 1220.5 |
| 35° | 1265.4 | 1256.1 | 1246.8 | 1237.6 | 1228.3 | 1216.4 | 1201.9 | 1187.5 | 1173.0 | 1158.5 | 1148.7 |
| 37.5° | 1197.3 | 1187.8 | 1178.3 | 1168.7 | 1159.1 | 1146.3 | 1130.3 | 1114.3 | 1098.2 | 1082.1 | 1071.1 |
| 40° | 1149.4 | 1139.8 | 1130.3 | 1120.7 | 1111.2 | 1098.2 | 1081.7 | 1065.1 | 1048.6 | 1032.1 | 1019.9 |
| 42.5° | 1103.5 | 1093.5 | 1083.5 | 1073.5 | 1063.5 | 1049.8 | 1032.6 | 1015.4 | 998.2 | 981.0 | 968.7 |
| 45° | 1032.1 | 1021.4 | 1010.7 | 999.9 | 989.2 | 975.2 | 957.8 | 940.5 | 923.0 | 905.7 | 891.6 |
| 47.5° | 958.4 | 947.3 | 936.2 | 925.2 | 914.1 | 899.6 | 881.5 | 863.4 | 845.3 | 827.3 | 812.6 |
| 50° | 908.3 | 897.0 | 885.7 | 874.4 | 863.1 | 848.2 | 829.7 | 811.2 | 792.6 | 774.1 | 759.6 |
| 52.5° | 857.2 | 846.1 | 835.1 | 824.1 | 812.9 | 798.0 | 778.9 | 760.0 | 740.9 | 722.0 | 707.3 |
| 55° | 781.9 | 770.3 | 758.7 | 747.2 | 735.6 | 720.4 | 701.5 | 682.7 | 663.9 | 645.1 | 630.0 |
| 57.5° | 707.4 | 695.3 | 683.2 | 671.2 | 659.2 | 643.9 | 625.4 | 606.8 | 588.2 | 569.8 | 554.5 |
| 60° | 654.2 | 642.6 | 631.0 | 619.4 | 607.8 | 592.8 | 574.3 | 555.7 | 537.2 | 518.7 | 503.6 |
| 62.5° | 606.2 | 594.2 | 582.1 | 570.0 | 558.1 | 542.5 | 523.5 | 504.5 | 485.5 | 466.6 | 452.6 |
| 65° | 531.7 | 519.2 | 506.8 | 494.4 | 481.9 | 466.4 | 447.9 | 429.3 | 410.8 | 392.3 | 379.8 |
| 67.5° | 454.3 | 442.3 | 430.5 | 418.5 | 406.5 | 392.0 | 374.8 | 357.6 | 340.4 | 323.2 | 312.5 |
| 70° | 405.3 | 393.1 | 381.0 | 368.8 | 356.7 | 342.3 | 325.8 | 309.2 | 292.8 | 276.3 | 266.7 |
| 72.5° | 353.2 | 342.1 | 331.1 | 320.2 | 309.2 | 295.9 | 280.3 | 264.7 | 249.1 | 233.6 | 225.4 |
| 75° | 282.8 | 272.1 | 261.4 | 250.6 | 240.0 | 227.7 | 214.1 | 200.6 | 186.9 | 173.3 | 166.6 |
| 77.5° | 211.4 | 202.3 | 193.2 | 184.1 | 175.0 | 164.9 | 153.9 | 143.0 | 132.0 | 120.9 | 117.1 |
| 80° | 165.5 | 157.1 | 148.7 | 140.3 | 132.0 | 123.4 | 114.7 | 106.0 | 97.3 | 88.6 | 87.8 |
| 82.5° | 125.9 | 118.2 | 110.5 | 102.7 | 95.1 | 88.7 | 83.8 | 78.8 | 73.8 | 68.8 | 68.1 |
| 85° | 70.4 | 64.6 | 58.8 | 53.0 | 47.2 | 43.8 | 43.0 | 42.1 | 41.3 | 40.4 | 39.8 |
| 87.5° | 24.5 | 23.2 | 21.8 | 20.4 | 18.9 | 18.3 | 18.4 | 18.6 | 18.7 | 18.8 | 18.8 |
| 90° | 2.8 | 5.1 | 7.4 | 9.7 | 12.1 | 14.0 | 15.6 | 17.3 | 19.0 | 20.7 | 22.0 |
| 92.5° | 20.2 | 22.8 | 25.4 | 28.0 | 30.6 | 32.6 | 33.7 | 34.9 | 36.1 | 37.2 | 38.0 |
| 95° | 56.5 | 58.3 | 60.2 | 62.1 | 64.0 | 65.6 | 67.1 | 68.6 | 70.0 | 71.5 | 72.1 |
| 97.5° | 98.6 | 100.1 | 101.6 | 103.1 | 104.6 | 106.2 | 107.9 | 109.6 | 111.4 | 113.1 | 113.9 |
| 100° | 131.7 | 132.5 | 133.4 | 134.2 | 135.1 | 136.4 | 138.3 | 140.2 | 142.0 | 143.9 | 144.4 |
| 102.5° | 166.4 | 166.6 | 167.0 | 167.3 | 167.7 | 168.7 | 170.4 | 172.1 | 173.8 | 175.6 | 176.2 |
| 105° | 219.2 | 219.4 | 219.6 | 219.8 | 220.1 | 220.6 | 221.4 | 222.3 | 223.1 | 223.9 | 224.5 |
| 107.5° | 274.8 | 274.9 | 275.2 | 275.5 | 275.7 | 275.9 | 276.1 | 276.2 | 276.3 | 276.4 | 277.0 |
| 110° | 312.4 | 312.7 | 313.2 | 313.6 | 314.1 | 314.1 | 313.9 | 313.7 | 313.5 | 313.3 | 312.8 |



TEST NUMBER: P332977-830

CATALOG NUMBER: S124RDIP-S1020D1035U830-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 351.5 | 351.6 | 351.7 | 351.8 | 351.9 | 351.7 | 351.3 | 350.9 | 350.5 | 350.2 | 350.1 |
| 115° | 410.2 | 410.2 | 410.2 | 410.2 | 410.2 | 410.0 | 409.5 | 409.2 | 408.7 | 408.3 | 408.1 |
| 117.5° | 465.5 | 465.7 | 465.8 | 466.0 | 466.2 | 466.1 | 465.8 | 465.5 | 465.2 | 465.0 | 464.2 |
| 120° | 502.4 | 503.2 | 504.1 | 504.9 | 505.8 | 505.9 | 505.2 | 504.5 | 504.0 | 503.3 | 502.3 |
| 122.5° | 540.7 | 541.1 | 541.4 | 541.8 | 542.1 | 542.2 | 541.9 | 541.5 | 541.2 | 540.9 | 540.3 |
| 125° | 597.4 | 597.4 | 597.4 | 597.4 | 597.4 | 597.3 | 597.1 | 596.9 | 596.6 | 596.4 | 596.1 |
| 127.5° | 648.8 | 649.4 | 650.0 | 650.6 | 651.3 | 651.4 | 651.1 | 650.7 | 650.4 | 650.1 | 649.7 |
| 130° | 684.9 | 685.5 | 686.2 | 686.7 | 687.4 | 687.7 | 687.7 | 687.7 | 687.7 | 687.7 | 687.3 |
| 132.5° | 721.8 | 722.3 | 722.6 | 723.1 | 723.6 | 723.8 | 723.6 | 723.4 | 723.2 | 723.1 | 722.6 |
| 135° | 770.5 | 771.8 | 773.0 | 774.3 | 775.5 | 776.2 | 776.2 | 776.2 | 776.2 | 776.2 | 775.7 |
| 137.5° | 823.6 | 824.2 | 824.7 | 825.3 | 826.0 | 826.3 | 826.7 | 827.1 | 827.4 | 827.7 | 827.2 |
| 140° | 858.9 | 859.3 | 859.8 | 860.2 | 860.6 | 860.8 | 860.8 | 860.8 | 860.8 | 860.8 | 860.6 |
| 142.5° | 891.3 | 891.7 | 892.1 | 892.6 | 893.0 | 893.1 | 893.0 | 892.8 | 892.6 | 892.4 | 892.4 |
| 145° | 936.0 | 936.9 | 937.7 | 938.6 | 939.4 | 939.9 | 940.2 | 940.4 | 940.6 | 940.8 | 940.6 |
| 147.5° | 980.5 | 981.5 | 982.5 | 983.5 | 984.5 | 985.0 | 984.8 | 984.6 | 984.4 | 984.3 | 984.1 |
| 150° | 1007.6 | 1008.4 | 1009.3 | 1010.1 | 1011.0 | 1011.3 | 1011.3 | 1011.3 | 1011.3 | 1011.3 | 1011.3 |
| 152.5° | 1033.2 | 1033.7 | 1034.2 | 1034.7 | 1035.2 | 1035.5 | 1035.7 | 1035.9 | 1036.0 | 1036.1 | 1036.7 |
| 155° | 1072.5 | 1072.5 | 1072.5 | 1072.5 | 1072.5 | 1072.4 | 1072.1 | 1072.0 | 1071.8 | 1071.6 | 1072.4 |
| 157.5° | 1105.6 | 1105.2 | 1104.8 | 1104.5 | 1104.1 | 1103.9 | 1103.8 | 1103.8 | 1103.8 | 1103.7 | 1104.4 |
| 160° | 1125.2 | 1124.9 | 1124.7 | 1124.5 | 1124.4 | 1124.2 | 1123.9 | 1123.7 | 1123.5 | 1123.3 | 1123.9 |
| 162.5° | 1143.2 | 1142.7 | 1142.2 | 1141.6 | 1141.0 | 1140.7 | 1140.5 | 1140.3 | 1140.1 | 1139.8 | 1140.9 |
| 165° | 1167.5 | 1166.9 | 1166.3 | 1165.6 | 1165.0 | 1164.5 | 1164.0 | 1163.7 | 1163.2 | 1162.8 | 1164.0 |
| 167.5° | 1186.2 | 1185.2 | 1184.4 | 1183.6 | 1182.6 | 1182.2 | 1182.2 | 1182.3 | 1182.3 | 1182.4 | 1183.6 |
| 170° | 1196.7 | 1195.6 | 1194.6 | 1193.5 | 1192.5 | 1192.0 | 1192.3 | 1192.5 | 1192.7 | 1192.9 | 1194.2 |
| 172.5° | 1204.2 | 1203.3 | 1202.5 | 1201.6 | 1200.7 | 1200.2 | 1200.3 | 1200.3 | 1200.4 | 1200.4 | 1201.8 |
| 175° | 1214.6 | 1213.5 | 1212.5 | 1211.4 | 1210.4 | 1209.8 | 1209.6 | 1209.3 | 1209.1 | 1208.9 | 1210.4 |
| 177.5° | 1218.0 | 1217.1 | 1216.3 | 1215.4 | 1214.6 | 1214.2 | 1214.2 | 1214.2 | 1214.2 | 1214.2 | 1215.3 |
| 180° | 1216.4 | 1216.4 | 1216.4 | 1216.4 | 1216.4 | 1216.4 | 1216.4 | 1216.4 | 1216.4 | 1216.4 | 1216.4 |



TEST NUMBER: P332977-830

CATALOG NUMBER: S124RDIP-S1020D1035U830-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1701.9 | 1701.9 | 1701.9 | 1701.9 | 1701.9 | 1701.9 | 1701.9 | 1701.9 |
| 2.5° | 1695.5 | 1698.1 | 1700.6 | 1701.9 | 1701.6 | 1701.4 | 1701.1 | 1700.9 |
| 5° | 1684.2 | 1687.2 | 1690.1 | 1691.2 | 1690.6 | 1690.1 | 1689.5 | 1688.9 |
| 7.5° | 1661.9 | 1663.7 | 1665.6 | 1666.0 | 1665.1 | 1664.2 | 1663.2 | 1662.3 |
| 10° | 1641.7 | 1642.9 | 1644.0 | 1644.0 | 1642.9 | 1641.7 | 1640.5 | 1639.4 |
| 12.5° | 1616.7 | 1617.5 | 1618.2 | 1617.7 | 1616.1 | 1614.5 | 1612.9 | 1611.3 |
| 15° | 1573.1 | 1572.4 | 1571.9 | 1570.6 | 1568.6 | 1566.5 | 1564.5 | 1562.5 |
| 17.5° | 1520.4 | 1518.8 | 1517.2 | 1514.9 | 1511.7 | 1508.7 | 1505.6 | 1502.5 |
| 20° | 1483.6 | 1481.3 | 1478.9 | 1475.9 | 1472.2 | 1468.4 | 1464.6 | 1460.8 |
| 22.5° | 1442.7 | 1439.2 | 1435.8 | 1432.5 | 1429.4 | 1426.3 | 1423.2 | 1420.2 |
| 25° | 1376.7 | 1371.8 | 1366.9 | 1362.9 | 1360.1 | 1357.2 | 1354.2 | 1351.4 |
| 27.5° | 1309.5 | 1303.4 | 1297.3 | 1292.2 | 1288.1 | 1283.8 | 1279.7 | 1275.5 |
| 30° | 1261.3 | 1254.1 | 1246.8 | 1240.9 | 1236.2 | 1231.6 | 1227.0 | 1222.4 |
| 32.5° | 1212.1 | 1203.7 | 1195.3 | 1188.9 | 1184.5 | 1180.1 | 1175.7 | 1171.3 |
| 35° | 1138.8 | 1129.0 | 1119.1 | 1111.6 | 1106.4 | 1101.2 | 1096.0 | 1090.7 |
| 37.5° | 1060.2 | 1049.1 | 1038.1 | 1030.0 | 1024.8 | 1019.5 | 1014.4 | 1009.2 |
| 40° | 1007.8 | 995.6 | 983.4 | 974.8 | 969.6 | 964.3 | 959.1 | 953.9 |
| 42.5° | 956.2 | 943.9 | 931.4 | 922.6 | 917.1 | 911.6 | 906.2 | 900.8 |
| 45° | 877.3 | 863.1 | 848.9 | 839.2 | 834.1 | 828.8 | 823.6 | 818.4 |
| 47.5° | 797.9 | 783.2 | 768.4 | 758.2 | 752.4 | 746.7 | 740.9 | 735.3 |
| 50° | 745.1 | 730.7 | 716.1 | 706.2 | 700.7 | 695.1 | 689.7 | 684.2 |
| 52.5° | 692.5 | 677.8 | 663.1 | 652.9 | 647.1 | 641.4 | 635.7 | 630.0 |
| 55° | 614.9 | 599.9 | 584.8 | 574.6 | 569.0 | 563.5 | 558.1 | 552.5 |
| 57.5° | 539.1 | 523.9 | 508.6 | 498.9 | 494.6 | 490.5 | 486.4 | 482.2 |
| 60° | 488.5 | 473.4 | 458.5 | 448.6 | 443.9 | 439.3 | 434.7 | 430.1 |
| 62.5° | 438.8 | 424.8 | 410.9 | 402.1 | 398.4 | 394.7 | 391.0 | 387.3 |
| 65° | 367.3 | 354.9 | 342.4 | 334.5 | 331.0 | 327.5 | 324.0 | 320.6 |
| 67.5° | 301.7 | 291.1 | 280.3 | 273.1 | 269.2 | 265.4 | 261.6 | 257.8 |
| 70° | 257.1 | 247.6 | 238.1 | 231.8 | 228.9 | 226.0 | 223.1 | 220.3 |
| 72.5° | 217.2 | 209.1 | 200.9 | 195.5 | 192.7 | 190.1 | 187.5 | 184.8 |
| 75° | 160.0 | 153.4 | 146.7 | 142.5 | 140.7 | 139.0 | 137.2 | 135.5 |
| 77.5° | 113.2 | 109.3 | 105.4 | 103.2 | 102.6 | 102.2 | 101.6 | 101.1 |
| 80° | 86.9 | 86.1 | 85.1 | 84.5 | 84.3 | 84.0 | 83.7 | 83.4 |
| 82.5° | 67.5 | 66.9 | 66.3 | 65.8 | 65.5 | 65.2 | 64.9 | 64.7 |
| 85° | 39.2 | 38.6 | 38.1 | 37.8 | 37.8 | 37.8 | 37.8 | 37.8 |
| 87.5° | 18.8 | 18.8 | 18.9 | 18.9 | 19.3 | 19.6 | 19.9 | 20.3 |
| 90° | 23.2 | 24.5 | 25.7 | 26.6 | 27.0 | 27.4 | 27.8 | 28.2 |
| 92.5° | 38.7 | 39.5 | 40.2 | 40.8 | 41.0 | 41.3 | 41.6 | 41.8 |
| 95° | 72.8 | 73.4 | 74.0 | 74.4 | 74.4 | 74.4 | 74.4 | 74.4 |
| 97.5° | 114.6 | 115.4 | 116.1 | 116.5 | 116.5 | 116.5 | 116.5 | 116.5 |
| 100° | 144.8 | 145.2 | 145.6 | 145.8 | 145.8 | 145.8 | 145.8 | 145.8 |
| 102.5° | 176.7 | 177.3 | 177.9 | 178.2 | 178.4 | 178.6 | 178.8 | 178.9 |
| 105° | 225.2 | 225.8 | 226.4 | 227.1 | 227.6 | 228.3 | 228.9 | 229.5 |
| 107.5° | 277.6 | 278.1 | 278.7 | 279.0 | 279.0 | 278.9 | 278.9 | 278.8 |
| 110° | 312.5 | 312.0 | 311.6 | 311.7 | 312.4 | 312.9 | 313.6 | 314.2 |



TEST NUMBER: P332977-830

CATALOG NUMBER: S124RDIP-S1020D1035U830-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 350.0 | 349.9 | 349.9 | 349.9 | 350.0 | 350.1 | 350.2 | 350.3 |
| 115° | 407.8 | 407.6 | 407.5 | 407.3 | 407.1 | 406.8 | 406.6 | 406.4 |
| 117.5° | 463.5 | 462.8 | 462.1 | 461.6 | 461.1 | 460.7 | 460.2 | 459.9 |
| 120° | 501.2 | 500.2 | 499.2 | 498.8 | 499.3 | 499.6 | 500.1 | 500.5 |
| 122.5° | 539.5 | 538.9 | 538.1 | 537.3 | 536.6 | 535.8 | 535.1 | 534.3 |
| 125° | 595.6 | 595.2 | 594.7 | 594.4 | 594.0 | 593.5 | 593.1 | 592.7 |
| 127.5° | 649.2 | 648.8 | 648.4 | 648.0 | 647.7 | 647.3 | 647.1 | 646.7 |
| 130° | 686.9 | 686.5 | 686.1 | 685.4 | 684.6 | 683.7 | 682.9 | 682.0 |
| 132.5° | 722.3 | 721.8 | 721.4 | 721.0 | 720.7 | 720.4 | 720.0 | 719.7 |
| 135° | 775.3 | 774.9 | 774.5 | 773.9 | 773.4 | 772.7 | 772.0 | 771.5 |
| 137.5° | 826.6 | 826.0 | 825.6 | 825.3 | 825.5 | 825.6 | 825.7 | 825.9 |
| 140° | 860.4 | 860.2 | 860.0 | 859.8 | 859.6 | 859.3 | 859.1 | 858.9 |
| 142.5° | 892.3 | 892.3 | 892.3 | 892.2 | 892.2 | 892.1 | 892.1 | 892.0 |
| 145° | 940.4 | 940.2 | 939.9 | 939.5 | 938.9 | 938.3 | 937.6 | 937.0 |
| 147.5° | 983.9 | 983.7 | 983.5 | 983.4 | 983.2 | 983.0 | 982.8 | 982.6 |
| 150° | 1011.3 | 1011.3 | 1011.3 | 1011.3 | 1011.1 | 1010.8 | 1010.6 | 1010.4 |
| 152.5° | 1037.2 | 1037.6 | 1038.2 | 1038.2 | 1037.6 | 1037.1 | 1036.5 | 1035.9 |
| 155° | 1073.3 | 1074.0 | 1074.9 | 1074.9 | 1074.0 | 1073.3 | 1072.4 | 1071.6 |
| 157.5° | 1104.9 | 1105.6 | 1106.3 | 1106.2 | 1105.5 | 1104.8 | 1104.1 | 1103.3 |
| 160° | 1124.5 | 1125.2 | 1125.8 | 1125.6 | 1124.5 | 1123.5 | 1122.5 | 1121.4 |
| 162.5° | 1142.1 | 1143.2 | 1144.3 | 1144.4 | 1143.4 | 1142.4 | 1141.3 | 1140.2 |
| 165° | 1165.4 | 1166.6 | 1167.8 | 1168.0 | 1167.2 | 1166.4 | 1165.5 | 1164.7 |
| 167.5° | 1184.9 | 1186.2 | 1187.4 | 1187.4 | 1186.1 | 1184.8 | 1183.5 | 1182.2 |
| 170° | 1195.4 | 1196.7 | 1198.0 | 1197.8 | 1196.4 | 1194.9 | 1193.4 | 1191.9 |
| 172.5° | 1203.2 | 1204.7 | 1206.2 | 1206.1 | 1204.7 | 1203.2 | 1201.7 | 1200.2 |
| 175° | 1211.8 | 1213.3 | 1214.7 | 1214.7 | 1213.3 | 1211.8 | 1210.4 | 1208.9 |
| 177.5° | 1216.5 | 1217.7 | 1218.9 | 1218.8 | 1217.5 | 1216.1 | 1214.7 | 1213.4 |
| 180° | 1216.4 | 1216.4 | 1216.4 | 1216.4 | 1216.4 | 1216.4 | 1216.4 | 1216.4 |

(END OF REPORT)