

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: P332977-940

Luminaire Tested: **S124RDIP-S1020D1035U940-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332977-940
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: S124RDIP-S1020D1035U940-4F0-1E-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: 6916.5 lumens
Efficiency: N/A
Efficacy: 114.3 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

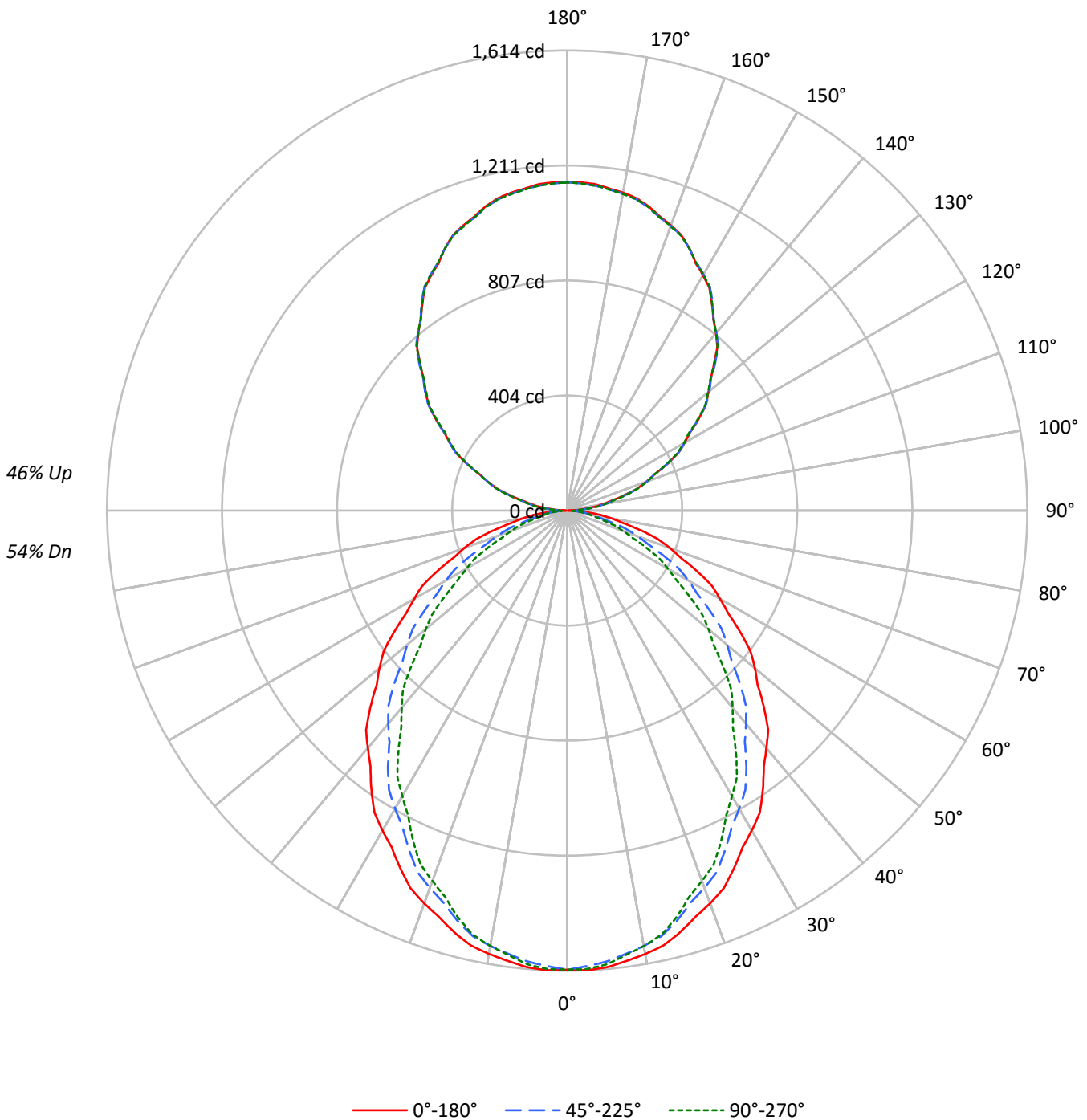
Input Watts (W): 60.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332977-940

CATALOG NUMBER: S124RDIP-S1020D1035U940-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P332977-940

CATALOG NUMBER: S124RDIP-S1020D1035U940-4F0-1E-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° | 12999 | 12999 | 12999 |
| 5° | 13028 | 12869 | 12949 |
| 10° | 12946 | 12714 | 12714 |
| 15° | 12797 | 12447 | 12354 |
| 20° | 12594 | 12095 | 11874 |
| 25° | 12333 | 11685 | 11388 |
| 30° | 12078 | 11251 | 10781 |
| 35° | 11798 | 10801 | 10170 |
| 40° | 11460 | 10290 | 9511 |
| 45° | 11147 | 9782 | 8840 |
| 50° | 10792 | 9198 | 8130 |
| 55° | 10412 | 8590 | 7357 |
| 60° | 9993 | 7923 | 6570 |
| 65° | 9608 | 7089 | 5794 |
| 70° | 9050 | 6170 | 4919 |
| 75° | 8344 | 5115 | 3999 |
| 80° | 7280 | 3896 | 3668 |
| 85° | 6169 | 3548 | 3316 |



TEST NUMBER: P332977-940

CATALOG NUMBER: S124RDIP-S1020D1035U940-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 151.3 | 2.2 |
| 10°-20° | 421.8 | 6.1 |
| 20°-30° | 609.1 | 8.8 |
| 30°-40° | 690.4 | 10.0 |
| 40°-50° | 666.7 | 9.6 |
| 50°-60° | 554.4 | 8.0 |
| 60°-70° | 382.8 | 5.5 |
| 70°-80° | 194.0 | 2.8 |
| 80°-90° | 53.2 | 0.8 |
| 90°-100° | 75.9 | 1.1 |
| 100°-110° | 224.9 | 3.3 |
| 110°-120° | 381.7 | 5.5 |
| 120°-130° | 503.2 | 7.3 |
| 130°-140° | 565.2 | 8.2 |
| 140°-150° | 555.4 | 8.0 |
| 150°-160° | 467.1 | 6.8 |
| 160°-170° | 310.8 | 4.5 |
| 170°-180° | 108.8 | 1.6 |
| 0°-30° | 1182.1 | 17.1 |
| 0°-40° | 1872.5 | 27.1 |
| 0°-60° | 3093.5 | 44.7 |
| 0°-90° | 3723.5 | 53.8 |
| 90°-120° | 682.4 | 9.9 |
| 90°-150° | 2306.2 | 33.3 |
| 90°-180° | 3193.0 | 46.2 |
| 0°-180° | 6916.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1610 | 1610 | 1610 | 1610 | 1610 | |
| 5° | 1608 | 1602 | 1588 | 1599 | 1598 | 152 |
| 15° | 1531 | 1519 | 1489 | 1486 | 1478 | 431 |
| 25° | 1385 | 1361 | 1312 | 1291 | 1278 | 638 |
| 35° | 1197 | 1156 | 1096 | 1055 | 1032 | 748 |
| 45° | 976 | 929 | 857 | 799 | 774 | 753 |
| 55° | 740 | 689 | 610 | 548 | 523 | 661 |
| 65° | 503 | 449 | 371 | 320 | 303 | 497 |
| 75° | 268 | 221 | 164 | 137 | 128 | 282 |
| 85° | 67 | 43 | 38 | 36 | 36 | 75 |
| 90° | 3 | 12 | 20 | 25 | 27 | 7 |
| 95° | 53 | 61 | 68 | 70 | 70 | 59 |
| 105° | 207 | 208 | 212 | 214 | 217 | 220 |
| 115° | 388 | 388 | 386 | 385 | 384 | 383 |
| 125° | 565 | 565 | 564 | 562 | 561 | 504 |
| 135° | 729 | 734 | 734 | 732 | 730 | 564 |
| 145° | 886 | 889 | 890 | 889 | 886 | 554 |
| 155° | 1015 | 1015 | 1014 | 1017 | 1014 | 467 |
| 165° | 1105 | 1102 | 1100 | 1105 | 1102 | 311 |
| 175° | 1149 | 1145 | 1144 | 1149 | 1144 | 109 |
| 180° | 1151 | 1151 | 1151 | 1151 | 1151 | |



TEST NUMBER: P332977-940

CATALOG NUMBER: S124RDIP-S1020D1035U940-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1610.2 | 1610.2 | 1610.2 | 1610.2 | 1610.2 | 1610.2 | 1610.2 | 1610.2 | 1610.2 | 1610.2 | 1610.2 |
| 2.5° | 1614.1 | 1613.2 | 1612.3 | 1611.5 | 1610.6 | 1608.9 | 1606.5 | 1604.1 | 1601.7 | 1599.3 | 1601.7 |
| 5° | 1607.7 | 1606.6 | 1605.5 | 1604.4 | 1603.3 | 1601.1 | 1597.9 | 1594.6 | 1591.3 | 1588.0 | 1590.7 |
| 7.5° | 1593.1 | 1592.0 | 1590.8 | 1589.7 | 1588.5 | 1585.8 | 1581.5 | 1577.3 | 1573.0 | 1568.7 | 1570.5 |
| 10° | 1579.3 | 1578.0 | 1576.5 | 1575.2 | 1573.9 | 1570.7 | 1565.8 | 1560.9 | 1555.9 | 1551.0 | 1552.0 |
| 12.5° | 1561.6 | 1560.0 | 1558.4 | 1556.8 | 1555.2 | 1551.5 | 1545.7 | 1539.9 | 1534.1 | 1528.3 | 1528.9 |
| 15° | 1531.2 | 1528.7 | 1526.3 | 1523.8 | 1521.3 | 1516.7 | 1509.8 | 1503.0 | 1496.2 | 1489.3 | 1488.8 |
| 17.5° | 1494.5 | 1490.9 | 1487.4 | 1483.8 | 1480.2 | 1474.4 | 1466.2 | 1457.9 | 1449.7 | 1441.5 | 1439.9 |
| 20° | 1465.9 | 1462.3 | 1458.7 | 1455.2 | 1451.6 | 1445.2 | 1435.9 | 1426.6 | 1417.3 | 1407.9 | 1405.8 |
| 22.5° | 1434.3 | 1430.3 | 1426.3 | 1422.4 | 1418.4 | 1411.3 | 1401.4 | 1391.4 | 1381.4 | 1371.5 | 1368.2 |
| 25° | 1384.6 | 1379.6 | 1374.7 | 1369.8 | 1364.8 | 1356.7 | 1345.5 | 1334.3 | 1323.0 | 1311.8 | 1307.2 |
| 27.5° | 1332.2 | 1326.1 | 1319.9 | 1313.7 | 1307.5 | 1298.4 | 1286.4 | 1274.4 | 1262.4 | 1250.4 | 1244.6 |
| 30° | 1295.7 | 1288.9 | 1282.1 | 1275.2 | 1268.4 | 1258.5 | 1245.6 | 1232.7 | 1219.9 | 1207.0 | 1200.2 |
| 32.5° | 1257.3 | 1249.6 | 1241.8 | 1234.1 | 1226.4 | 1215.8 | 1202.6 | 1189.3 | 1175.9 | 1162.6 | 1154.7 |
| 35° | 1197.1 | 1188.4 | 1179.6 | 1170.8 | 1162.1 | 1150.8 | 1137.1 | 1123.5 | 1109.7 | 1096.0 | 1086.7 |
| 37.5° | 1132.7 | 1123.7 | 1114.7 | 1105.6 | 1096.6 | 1084.5 | 1069.3 | 1054.2 | 1038.9 | 1023.8 | 1013.3 |
| 40° | 1087.4 | 1078.3 | 1069.3 | 1060.2 | 1051.2 | 1038.9 | 1023.3 | 1007.6 | 992.0 | 976.4 | 964.9 |
| 42.5° | 1044.0 | 1034.6 | 1025.0 | 1015.6 | 1006.1 | 993.2 | 977.0 | 960.6 | 944.4 | 928.1 | 916.4 |
| 45° | 976.4 | 966.3 | 956.2 | 946.0 | 935.9 | 922.6 | 906.2 | 889.7 | 873.3 | 856.8 | 843.5 |
| 47.5° | 906.7 | 896.2 | 885.7 | 875.3 | 864.8 | 851.0 | 833.9 | 816.8 | 799.7 | 782.7 | 768.7 |
| 50° | 859.3 | 848.6 | 837.9 | 827.2 | 816.5 | 802.5 | 785.0 | 767.4 | 749.8 | 732.4 | 718.6 |
| 52.5° | 811.0 | 800.5 | 790.1 | 779.6 | 769.1 | 754.9 | 736.9 | 719.0 | 701.0 | 683.1 | 669.1 |
| 55° | 739.8 | 728.8 | 717.8 | 706.9 | 695.9 | 681.5 | 663.7 | 645.9 | 628.1 | 610.3 | 596.0 |
| 57.5° | 669.2 | 657.8 | 646.4 | 635.0 | 623.7 | 609.1 | 591.7 | 574.1 | 556.5 | 539.0 | 524.6 |
| 60° | 618.9 | 608.0 | 597.0 | 586.0 | 575.1 | 560.8 | 543.3 | 525.8 | 508.2 | 490.7 | 476.4 |
| 62.5° | 573.5 | 562.1 | 550.7 | 539.3 | 528.0 | 513.3 | 495.3 | 477.3 | 459.3 | 441.4 | 428.2 |
| 65° | 503.0 | 491.2 | 479.5 | 467.7 | 455.9 | 441.2 | 423.7 | 406.2 | 388.6 | 371.1 | 359.4 |
| 67.5° | 429.8 | 418.5 | 407.2 | 395.9 | 384.6 | 370.9 | 354.5 | 338.3 | 322.0 | 305.8 | 295.6 |
| 70° | 383.4 | 371.9 | 360.4 | 348.9 | 337.4 | 323.9 | 308.3 | 292.6 | 277.0 | 261.4 | 252.4 |
| 72.5° | 334.1 | 323.7 | 313.3 | 302.9 | 292.5 | 279.9 | 265.2 | 250.4 | 235.7 | 221.0 | 213.2 |
| 75° | 267.5 | 257.4 | 247.3 | 237.1 | 227.0 | 215.4 | 202.6 | 189.8 | 176.8 | 164.0 | 157.7 |
| 77.5° | 200.0 | 191.4 | 182.8 | 174.2 | 165.6 | 156.0 | 145.6 | 135.3 | 124.8 | 114.4 | 110.8 |
| 80° | 156.6 | 148.6 | 140.7 | 132.8 | 124.8 | 116.7 | 108.5 | 100.3 | 92.0 | 83.8 | 83.0 |
| 82.5° | 119.1 | 111.8 | 104.5 | 97.2 | 90.0 | 83.9 | 79.3 | 74.5 | 69.8 | 65.1 | 64.5 |
| 85° | 66.6 | 61.1 | 55.6 | 50.1 | 44.7 | 41.5 | 40.7 | 39.9 | 39.1 | 38.3 | 37.6 |
| 87.5° | 23.2 | 21.9 | 20.6 | 19.3 | 17.9 | 17.3 | 17.4 | 17.6 | 17.7 | 17.7 | 17.7 |
| 90° | 2.7 | 4.8 | 7.0 | 9.2 | 11.4 | 13.3 | 14.8 | 16.4 | 18.0 | 19.6 | 20.8 |
| 92.5° | 19.1 | 21.6 | 24.0 | 26.5 | 29.0 | 30.9 | 31.9 | 33.0 | 34.2 | 35.2 | 35.9 |
| 95° | 53.4 | 55.2 | 57.0 | 58.8 | 60.5 | 62.1 | 63.5 | 64.9 | 66.3 | 67.7 | 68.2 |
| 97.5° | 93.3 | 94.7 | 96.1 | 97.6 | 99.0 | 100.5 | 102.1 | 103.7 | 105.4 | 107.0 | 107.7 |
| 100° | 124.6 | 125.4 | 126.2 | 127.0 | 127.8 | 129.0 | 130.8 | 132.6 | 134.4 | 136.2 | 136.6 |
| 102.5° | 157.4 | 157.7 | 158.0 | 158.3 | 158.6 | 159.6 | 161.2 | 162.8 | 164.4 | 166.1 | 166.7 |
| 105° | 207.4 | 207.6 | 207.8 | 207.9 | 208.2 | 208.7 | 209.5 | 210.3 | 211.1 | 211.9 | 212.4 |
| 107.5° | 259.9 | 260.1 | 260.4 | 260.6 | 260.8 | 261.0 | 261.2 | 261.3 | 261.4 | 261.5 | 262.1 |
| 110° | 295.5 | 295.9 | 296.3 | 296.7 | 297.1 | 297.2 | 296.9 | 296.8 | 296.6 | 296.4 | 296.0 |



TEST NUMBER: P332977-940

CATALOG NUMBER: S124RDIP-S1020D1035U940-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 332.5 | 332.6 | 332.7 | 332.8 | 332.9 | 332.7 | 332.3 | 332.0 | 331.6 | 331.3 | 331.2 |
| 115° | 388.1 | 388.1 | 388.1 | 388.1 | 388.1 | 387.9 | 387.4 | 387.1 | 386.6 | 386.3 | 386.1 |
| 117.5° | 440.4 | 440.6 | 440.7 | 440.9 | 441.0 | 441.0 | 440.7 | 440.4 | 440.1 | 439.9 | 439.2 |
| 120° | 475.3 | 476.1 | 476.9 | 477.7 | 478.5 | 478.6 | 478.0 | 477.3 | 476.8 | 476.2 | 475.2 |
| 122.5° | 511.6 | 511.9 | 512.2 | 512.6 | 512.8 | 512.9 | 512.6 | 512.3 | 512.0 | 511.8 | 511.1 |
| 125° | 565.2 | 565.2 | 565.2 | 565.2 | 565.2 | 565.1 | 564.9 | 564.7 | 564.5 | 564.3 | 563.9 |
| 127.5° | 613.8 | 614.4 | 614.9 | 615.5 | 616.2 | 616.3 | 616.0 | 615.6 | 615.4 | 615.0 | 614.7 |
| 130° | 647.9 | 648.5 | 649.2 | 649.7 | 650.3 | 650.6 | 650.6 | 650.6 | 650.6 | 650.6 | 650.2 |
| 132.5° | 682.9 | 683.3 | 683.7 | 684.1 | 684.6 | 684.7 | 684.6 | 684.4 | 684.2 | 684.1 | 683.7 |
| 135° | 729.0 | 730.1 | 731.3 | 732.5 | 733.7 | 734.3 | 734.3 | 734.3 | 734.3 | 734.3 | 733.9 |
| 137.5° | 779.2 | 779.7 | 780.2 | 780.8 | 781.4 | 781.8 | 782.1 | 782.5 | 782.7 | 783.1 | 782.6 |
| 140° | 812.6 | 813.0 | 813.4 | 813.8 | 814.2 | 814.4 | 814.4 | 814.4 | 814.4 | 814.4 | 814.2 |
| 142.5° | 843.2 | 843.6 | 844.0 | 844.5 | 844.8 | 844.9 | 844.8 | 844.6 | 844.5 | 844.3 | 844.3 |
| 145° | 885.6 | 886.4 | 887.2 | 888.0 | 888.8 | 889.2 | 889.5 | 889.7 | 889.8 | 890.0 | 889.8 |
| 147.5° | 927.6 | 928.5 | 929.5 | 930.5 | 931.4 | 931.8 | 931.7 | 931.5 | 931.3 | 931.2 | 931.0 |
| 150° | 953.2 | 954.0 | 954.8 | 955.6 | 956.4 | 956.8 | 956.8 | 956.8 | 956.8 | 956.8 | 956.8 |
| 152.5° | 977.5 | 977.9 | 978.4 | 978.9 | 979.4 | 979.6 | 979.8 | 980.0 | 980.2 | 980.3 | 980.8 |
| 155° | 1014.7 | 1014.7 | 1014.7 | 1014.7 | 1014.7 | 1014.6 | 1014.3 | 1014.1 | 1014.0 | 1013.8 | 1014.6 |
| 157.5° | 1046.0 | 1045.6 | 1045.3 | 1044.9 | 1044.6 | 1044.4 | 1044.3 | 1044.3 | 1044.3 | 1044.2 | 1044.8 |
| 160° | 1064.5 | 1064.3 | 1064.1 | 1063.9 | 1063.7 | 1063.5 | 1063.3 | 1063.1 | 1062.9 | 1062.7 | 1063.3 |
| 162.5° | 1081.6 | 1081.1 | 1080.6 | 1080.0 | 1079.5 | 1079.1 | 1079.0 | 1078.8 | 1078.6 | 1078.3 | 1079.4 |
| 165° | 1104.6 | 1103.9 | 1103.4 | 1102.8 | 1102.2 | 1101.7 | 1101.3 | 1100.9 | 1100.5 | 1100.1 | 1101.3 |
| 167.5° | 1122.2 | 1121.3 | 1120.5 | 1119.7 | 1118.8 | 1118.5 | 1118.5 | 1118.6 | 1118.6 | 1118.7 | 1119.8 |
| 170° | 1132.1 | 1131.1 | 1130.2 | 1129.2 | 1128.2 | 1127.7 | 1128.0 | 1128.2 | 1128.4 | 1128.5 | 1129.8 |
| 172.5° | 1139.2 | 1138.4 | 1137.6 | 1136.8 | 1136.0 | 1135.5 | 1135.6 | 1135.6 | 1135.7 | 1135.7 | 1137.0 |
| 175° | 1149.1 | 1148.1 | 1147.1 | 1146.1 | 1145.1 | 1144.5 | 1144.3 | 1144.1 | 1143.9 | 1143.7 | 1145.1 |
| 177.5° | 1152.3 | 1151.5 | 1150.7 | 1149.9 | 1149.1 | 1148.7 | 1148.7 | 1148.7 | 1148.7 | 1148.7 | 1149.8 |
| 180° | 1150.8 | 1150.8 | 1150.8 | 1150.8 | 1150.8 | 1150.8 | 1150.8 | 1150.8 | 1150.8 | 1150.8 | 1150.8 |



TEST NUMBER: P332977-940

CATALOG NUMBER: S124RDIP-S1020D1035U940-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1610.2 | 1610.2 | 1610.2 | 1610.2 | 1610.2 | 1610.2 | 1610.2 | 1610.2 |
| 2.5° | 1604.1 | 1606.5 | 1608.9 | 1610.1 | 1609.8 | 1609.6 | 1609.4 | 1609.2 |
| 5° | 1593.4 | 1596.2 | 1598.9 | 1600.0 | 1599.5 | 1598.9 | 1598.4 | 1597.9 |
| 7.5° | 1572.3 | 1574.0 | 1575.7 | 1576.2 | 1575.3 | 1574.4 | 1573.5 | 1572.6 |
| 10° | 1553.2 | 1554.3 | 1555.3 | 1555.3 | 1554.3 | 1553.2 | 1552.0 | 1551.0 |
| 12.5° | 1529.6 | 1530.3 | 1530.9 | 1530.4 | 1528.9 | 1527.4 | 1525.9 | 1524.4 |
| 15° | 1488.3 | 1487.6 | 1487.1 | 1485.9 | 1484.0 | 1482.0 | 1480.2 | 1478.2 |
| 17.5° | 1438.4 | 1436.9 | 1435.4 | 1433.2 | 1430.2 | 1427.4 | 1424.4 | 1421.5 |
| 20° | 1403.6 | 1401.4 | 1399.2 | 1396.3 | 1392.8 | 1389.2 | 1385.6 | 1382.1 |
| 22.5° | 1364.9 | 1361.6 | 1358.3 | 1355.2 | 1352.3 | 1349.4 | 1346.5 | 1343.6 |
| 25° | 1302.4 | 1297.8 | 1293.2 | 1289.4 | 1286.7 | 1284.0 | 1281.2 | 1278.5 |
| 27.5° | 1238.9 | 1233.1 | 1227.4 | 1222.5 | 1218.6 | 1214.6 | 1210.7 | 1206.8 |
| 30° | 1193.3 | 1186.4 | 1179.6 | 1173.9 | 1169.6 | 1165.2 | 1160.8 | 1156.5 |
| 32.5° | 1146.7 | 1138.8 | 1130.9 | 1124.8 | 1120.6 | 1116.4 | 1112.3 | 1108.1 |
| 35° | 1077.4 | 1068.1 | 1058.7 | 1051.7 | 1046.7 | 1041.8 | 1036.9 | 1031.9 |
| 37.5° | 1003.0 | 992.6 | 982.1 | 974.5 | 969.6 | 964.6 | 959.7 | 954.8 |
| 40° | 953.4 | 941.9 | 930.4 | 922.2 | 917.3 | 912.3 | 907.4 | 902.5 |
| 42.5° | 904.6 | 893.0 | 881.2 | 872.8 | 867.6 | 862.5 | 857.3 | 852.2 |
| 45° | 830.0 | 816.5 | 803.2 | 794.0 | 789.1 | 784.1 | 779.2 | 774.3 |
| 47.5° | 754.8 | 740.9 | 726.9 | 717.3 | 711.9 | 706.4 | 701.0 | 695.6 |
| 50° | 704.9 | 691.3 | 677.5 | 668.1 | 662.9 | 657.6 | 652.5 | 647.3 |
| 52.5° | 655.1 | 641.2 | 627.3 | 617.7 | 612.2 | 606.8 | 601.4 | 596.0 |
| 55° | 581.8 | 567.6 | 553.3 | 543.6 | 538.3 | 533.2 | 528.0 | 522.7 |
| 57.5° | 510.1 | 495.6 | 481.2 | 472.0 | 468.0 | 464.0 | 460.1 | 456.2 |
| 60° | 462.2 | 447.9 | 433.7 | 424.4 | 420.0 | 415.6 | 411.3 | 406.9 |
| 62.5° | 415.1 | 401.9 | 388.8 | 380.4 | 376.9 | 373.4 | 369.9 | 366.4 |
| 65° | 347.5 | 335.7 | 324.0 | 316.5 | 313.2 | 309.9 | 306.6 | 303.3 |
| 67.5° | 285.4 | 275.4 | 265.2 | 258.3 | 254.7 | 251.1 | 247.4 | 243.9 |
| 70° | 243.3 | 234.3 | 225.2 | 219.3 | 216.6 | 213.8 | 211.1 | 208.4 |
| 72.5° | 205.5 | 197.8 | 190.0 | 184.9 | 182.4 | 179.9 | 177.4 | 174.9 |
| 75° | 151.4 | 145.1 | 138.8 | 134.8 | 133.1 | 131.5 | 129.8 | 128.2 |
| 77.5° | 107.1 | 103.4 | 99.7 | 97.6 | 97.1 | 96.7 | 96.1 | 95.7 |
| 80° | 82.2 | 81.4 | 80.5 | 80.0 | 79.7 | 79.5 | 79.2 | 78.9 |
| 82.5° | 63.8 | 63.3 | 62.7 | 62.2 | 62.0 | 61.7 | 61.4 | 61.2 |
| 85° | 37.1 | 36.6 | 36.0 | 35.8 | 35.8 | 35.8 | 35.8 | 35.8 |
| 87.5° | 17.7 | 17.7 | 17.8 | 17.9 | 18.3 | 18.5 | 18.8 | 19.2 |
| 90° | 21.9 | 23.2 | 24.3 | 25.1 | 25.5 | 25.9 | 26.3 | 26.7 |
| 92.5° | 36.6 | 37.4 | 38.1 | 38.6 | 38.8 | 39.1 | 39.3 | 39.5 |
| 95° | 68.8 | 69.5 | 70.0 | 70.4 | 70.4 | 70.4 | 70.4 | 70.4 |
| 97.5° | 108.4 | 109.1 | 109.9 | 110.2 | 110.2 | 110.2 | 110.2 | 110.2 |
| 100° | 137.0 | 137.3 | 137.8 | 137.9 | 137.9 | 137.9 | 137.9 | 137.9 |
| 102.5° | 167.2 | 167.7 | 168.3 | 168.6 | 168.8 | 169.0 | 169.2 | 169.2 |
| 105° | 213.0 | 213.7 | 214.2 | 214.8 | 215.3 | 216.0 | 216.6 | 217.1 |
| 107.5° | 262.6 | 263.1 | 263.7 | 263.9 | 263.9 | 263.9 | 263.9 | 263.8 |
| 110° | 295.6 | 295.2 | 294.8 | 294.9 | 295.5 | 296.0 | 296.7 | 297.3 |



TEST NUMBER: P332977-940

CATALOG NUMBER: S124RDIP-S1020D1035U940-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 331.1 | 331.0 | 331.0 | 331.0 | 331.1 | 331.2 | 331.4 | 331.4 |
| 115° | 385.8 | 385.7 | 385.5 | 385.3 | 385.1 | 384.9 | 384.7 | 384.5 |
| 117.5° | 438.5 | 437.8 | 437.2 | 436.7 | 436.2 | 435.9 | 435.4 | 435.1 |
| 120° | 474.2 | 473.2 | 472.3 | 471.9 | 472.3 | 472.7 | 473.1 | 473.5 |
| 122.5° | 510.4 | 509.8 | 509.1 | 508.4 | 507.7 | 506.9 | 506.2 | 505.5 |
| 125° | 563.5 | 563.1 | 562.7 | 562.3 | 562.0 | 561.5 | 561.2 | 560.7 |
| 127.5° | 614.2 | 613.9 | 613.4 | 613.1 | 612.8 | 612.4 | 612.2 | 611.8 |
| 130° | 649.9 | 649.4 | 649.1 | 648.5 | 647.6 | 646.8 | 646.0 | 645.2 |
| 132.5° | 683.3 | 682.9 | 682.5 | 682.2 | 681.8 | 681.5 | 681.2 | 680.9 |
| 135° | 733.5 | 733.1 | 732.7 | 732.2 | 731.6 | 731.0 | 730.4 | 729.9 |
| 137.5° | 782.0 | 781.5 | 781.0 | 780.8 | 781.0 | 781.0 | 781.1 | 781.3 |
| 140° | 814.0 | 813.8 | 813.6 | 813.4 | 813.2 | 813.0 | 812.8 | 812.6 |
| 142.5° | 844.2 | 844.2 | 844.2 | 844.1 | 844.1 | 844.0 | 844.0 | 843.9 |
| 145° | 889.7 | 889.5 | 889.2 | 888.9 | 888.2 | 887.7 | 887.1 | 886.4 |
| 147.5° | 930.9 | 930.7 | 930.5 | 930.3 | 930.1 | 930.0 | 929.8 | 929.6 |
| 150° | 956.8 | 956.8 | 956.8 | 956.7 | 956.5 | 956.3 | 956.1 | 955.9 |
| 152.5° | 981.2 | 981.7 | 982.2 | 982.2 | 981.7 | 981.1 | 980.6 | 980.1 |
| 155° | 1015.4 | 1016.1 | 1016.9 | 1016.9 | 1016.1 | 1015.4 | 1014.6 | 1013.8 |
| 157.5° | 1045.4 | 1046.0 | 1046.6 | 1046.5 | 1045.9 | 1045.2 | 1044.6 | 1043.8 |
| 160° | 1063.9 | 1064.5 | 1065.1 | 1064.9 | 1063.9 | 1062.9 | 1061.9 | 1061.0 |
| 162.5° | 1080.5 | 1081.6 | 1082.6 | 1082.7 | 1081.7 | 1080.8 | 1079.8 | 1078.7 |
| 165° | 1102.5 | 1103.7 | 1104.8 | 1105.0 | 1104.3 | 1103.5 | 1102.7 | 1101.9 |
| 167.5° | 1121.0 | 1122.2 | 1123.4 | 1123.4 | 1122.1 | 1120.9 | 1119.6 | 1118.5 |
| 170° | 1131.0 | 1132.1 | 1133.4 | 1133.2 | 1131.8 | 1130.4 | 1129.1 | 1127.7 |
| 172.5° | 1138.4 | 1139.7 | 1141.1 | 1141.0 | 1139.7 | 1138.3 | 1136.9 | 1135.5 |
| 175° | 1146.5 | 1147.9 | 1149.2 | 1149.2 | 1147.9 | 1146.5 | 1145.1 | 1143.7 |
| 177.5° | 1150.9 | 1152.0 | 1153.2 | 1153.1 | 1151.8 | 1150.5 | 1149.2 | 1148.0 |
| 180° | 1150.8 | 1150.8 | 1150.8 | 1150.8 | 1150.8 | 1150.8 | 1150.8 | 1150.8 |

(END OF REPORT)