

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: P333002-935

Luminaire Tested: **S124RDIP-S1195D810U935-4F0-1E-UDD-F4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333002-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDIP-S1195D810U935-4F0-1E-UDD-F4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 810 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6642.6 lumens
Efficiency: N/A
Efficacy: 109.4 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: Semi-Direct

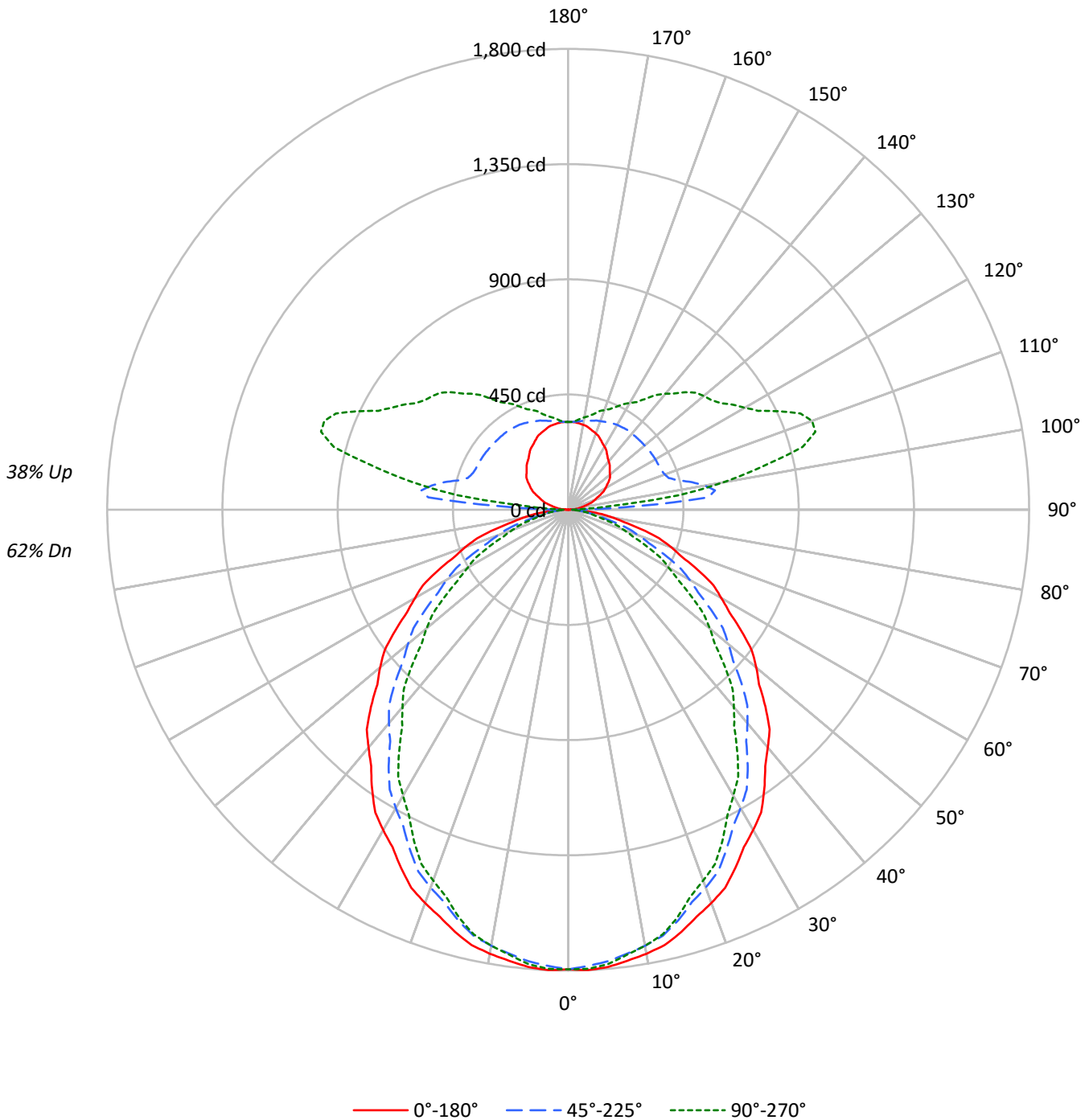
Input Watts (W): 60.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333002-935

CATALOG NUMBER: S124RDIP-S1195D810U935-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P333002-935

CATALOG NUMBER: S124RDIP-S1195D810U935-4F0-1E-UDD-F4

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 | 110 | 110 | 110 | 110 | 103 | 103 | 103 | 103 | 90 | 90 | 90 | 78 | 78 | 78 | 68 | 68 | 68 | 62 |
| 1 | 101 | 97 | 93 | 89 | 94 | 91 | 87 | 84 | 80 | 77 | 75 | 70 | 68 | 66 | 60 | 59 | 58 | 53 |
| 2 | 92 | 85 | 79 | 74 | 86 | 80 | 74 | 70 | 70 | 66 | 63 | 62 | 58 | 56 | 53 | 51 | 49 | 45 |
| 3 | 84 | 75 | 68 | 62 | 79 | 70 | 64 | 59 | 62 | 57 | 53 | 55 | 51 | 48 | 48 | 45 | 42 | 39 |
| 4 | 77 | 66 | 59 | 53 | 72 | 63 | 56 | 50 | 56 | 50 | 46 | 49 | 45 | 41 | 43 | 39 | 37 | 33 |
| 5 | 71 | 59 | 51 | 45 | 66 | 56 | 49 | 43 | 50 | 44 | 40 | 44 | 39 | 36 | 39 | 35 | 32 | 29 |
| 6 | 66 | 54 | 45 | 40 | 61 | 51 | 43 | 38 | 45 | 39 | 35 | 40 | 35 | 32 | 35 | 31 | 28 | 26 |
| 7 | 61 | 48 | 40 | 35 | 57 | 46 | 39 | 33 | 41 | 35 | 31 | 37 | 32 | 28 | 32 | 28 | 25 | 23 |
| 8 | 57 | 44 | 36 | 31 | 53 | 42 | 35 | 30 | 38 | 32 | 27 | 34 | 29 | 25 | 30 | 26 | 23 | 21 |
| 9 | 53 | 40 | 33 | 28 | 50 | 38 | 31 | 27 | 35 | 29 | 25 | 31 | 26 | 23 | 27 | 24 | 21 | 19 |
| 10 | 49 | 37 | 30 | 25 | 46 | 35 | 29 | 24 | 32 | 26 | 22 | 29 | 24 | 21 | 26 | 22 | 19 | 17 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 14495 | 14495 | 14495 |
| 5° | 14528 | 14350 | 14439 |
| 10° | 14437 | 14178 | 14178 |
| 15° | 14271 | 13881 | 13778 |
| 20° | 14044 | 13489 | 13241 |
| 25° | 13752 | 13030 | 12699 |
| 30° | 13470 | 12547 | 12021 |
| 35° | 13157 | 12046 | 11340 |
| 40° | 12779 | 11475 | 10606 |
| 45° | 12432 | 10909 | 9857 |
| 50° | 12036 | 10257 | 9065 |
| 55° | 11610 | 9578 | 8204 |
| 60° | 11144 | 8835 | 7325 |
| 65° | 10714 | 7904 | 6460 |
| 70° | 10093 | 6878 | 5486 |
| 75° | 9304 | 5705 | 4460 |
| 80° | 8117 | 4347 | 4091 |
| 85° | 6873 | 3946 | 3696 |



TEST NUMBER: P333002-935

CATALOG NUMBER: S124RDIP-S1195D810U935-4F0-1E-UDD-F4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 168.7 | 2.5 |
| 10°-20° | 470.4 | 7.1 |
| 20°-30° | 679.2 | 10.2 |
| 30°-40° | 769.9 | 11.6 |
| 40°-50° | 743.4 | 11.2 |
| 50°-60° | 618.2 | 9.3 |
| 60°-70° | 426.9 | 6.4 |
| 70°-80° | 216.4 | 3.3 |
| 80°-90° | 57.4 | 0.9 |
| 90°-100° | 247.5 | 3.7 |
| 100°-110° | 515.1 | 7.8 |
| 110°-120° | 461.4 | 6.9 |
| 120°-130° | 388.1 | 5.8 |
| 130°-140° | 323.6 | 4.9 |
| 140°-150° | 247.2 | 3.7 |
| 150°-160° | 173.8 | 2.6 |
| 160°-170° | 102.2 | 1.5 |
| 170°-180° | 33.3 | 0.5 |
| 0°-30° | 1318.2 | 19.8 |
| 0°-40° | 2088.1 | 31.4 |
| 0°-60° | 3449.7 | 51.9 |
| 0°-90° | 4150.4 | 62.5 |
| 90°-120° | 1224.0 | 18.4 |
| 90°-150° | 2183.0 | 32.9 |
| 90°-180° | 2492.0 | 37.5 |
| 0°-180° | 6642.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1796 | 1796 | 1796 | 1796 | 1796 | |
| 5° | 1793 | 1787 | 1771 | 1784 | 1782 | 170 |
| 15° | 1708 | 1694 | 1661 | 1658 | 1648 | 481 |
| 25° | 1544 | 1517 | 1463 | 1440 | 1426 | 711 |
| 35° | 1335 | 1290 | 1222 | 1177 | 1151 | 834 |
| 45° | 1089 | 1036 | 956 | 890 | 863 | 839 |
| 55° | 825 | 768 | 680 | 612 | 583 | 738 |
| 65° | 561 | 500 | 414 | 357 | 338 | 554 |
| 75° | 298 | 247 | 183 | 152 | 143 | 315 |
| 85° | 74 | 48 | 43 | 40 | 40 | 83 |
| 90° | 1 | 5 | 12 | 13 | 14 | 5 |
| 95° | 22 | 70 | 549 | 272 | 164 | 25 |
| 105° | 79 | 114 | 442 | 951 | 947 | 84 |
| 115° | 139 | 174 | 394 | 757 | 910 | 138 |
| 125° | 193 | 230 | 392 | 644 | 726 | 172 |
| 135° | 230 | 273 | 388 | 572 | 649 | 177 |
| 145° | 265 | 303 | 386 | 482 | 530 | 166 |
| 155° | 301 | 325 | 376 | 426 | 444 | 139 |
| 165° | 328 | 338 | 360 | 381 | 387 | 93 |
| 175° | 342 | 343 | 345 | 350 | 349 | 32 |
| 180° | 343 | 343 | 343 | 343 | 343 | |



TEST NUMBER: P333002-935

CATALOG NUMBER: S124RDIP-S1195D810U935-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1795.5 | 1795.5 | 1795.5 | 1795.5 | 1795.5 | 1795.5 | 1795.5 | 1795.5 | 1795.5 | 1795.5 | 1795.5 |
| 2.5° | 1799.9 | 1799.0 | 1798.0 | 1797.0 | 1796.0 | 1794.2 | 1791.6 | 1788.8 | 1786.1 | 1783.5 | 1786.1 |
| 5° | 1792.8 | 1791.6 | 1790.4 | 1789.2 | 1788.0 | 1785.5 | 1781.8 | 1778.1 | 1774.5 | 1770.8 | 1773.8 |
| 7.5° | 1776.6 | 1775.3 | 1774.0 | 1772.7 | 1771.4 | 1768.4 | 1763.7 | 1758.9 | 1754.1 | 1749.4 | 1751.4 |
| 10° | 1761.2 | 1759.6 | 1758.2 | 1756.6 | 1755.1 | 1751.5 | 1746.1 | 1740.6 | 1735.1 | 1729.6 | 1730.8 |
| 12.5° | 1741.4 | 1739.7 | 1737.8 | 1736.0 | 1734.3 | 1730.2 | 1723.7 | 1717.3 | 1710.7 | 1704.3 | 1705.0 |
| 15° | 1707.5 | 1704.8 | 1702.1 | 1699.4 | 1696.6 | 1691.3 | 1683.8 | 1676.1 | 1668.4 | 1660.8 | 1660.2 |
| 17.5° | 1666.6 | 1662.6 | 1658.6 | 1654.7 | 1650.7 | 1644.2 | 1635.0 | 1625.8 | 1616.6 | 1607.5 | 1605.8 |
| 20° | 1634.7 | 1630.7 | 1626.8 | 1622.8 | 1618.9 | 1611.6 | 1601.3 | 1590.9 | 1580.5 | 1570.1 | 1567.6 |
| 22.5° | 1599.5 | 1595.1 | 1590.6 | 1586.1 | 1581.7 | 1573.9 | 1562.7 | 1551.6 | 1540.5 | 1529.4 | 1525.7 |
| 25° | 1543.9 | 1538.4 | 1532.9 | 1527.5 | 1522.0 | 1512.9 | 1500.5 | 1487.9 | 1475.4 | 1462.8 | 1457.7 |
| 27.5° | 1485.7 | 1478.8 | 1471.9 | 1465.0 | 1458.0 | 1447.9 | 1434.5 | 1421.2 | 1407.7 | 1394.4 | 1387.9 |
| 30° | 1445.0 | 1437.4 | 1429.7 | 1422.0 | 1414.5 | 1403.4 | 1389.1 | 1374.7 | 1360.4 | 1346.0 | 1338.3 |
| 32.5° | 1402.1 | 1393.4 | 1384.8 | 1376.2 | 1367.6 | 1355.9 | 1341.0 | 1326.2 | 1311.3 | 1296.5 | 1287.6 |
| 35° | 1335.0 | 1325.2 | 1315.4 | 1305.6 | 1295.9 | 1283.3 | 1268.1 | 1252.8 | 1237.5 | 1222.3 | 1211.9 |
| 37.5° | 1263.3 | 1253.1 | 1243.0 | 1233.0 | 1222.9 | 1209.4 | 1192.5 | 1175.5 | 1158.6 | 1141.7 | 1130.1 |
| 40° | 1212.6 | 1202.6 | 1192.5 | 1182.4 | 1172.3 | 1158.6 | 1141.2 | 1123.7 | 1106.3 | 1088.9 | 1076.1 |
| 42.5° | 1164.2 | 1153.7 | 1143.1 | 1132.5 | 1122.0 | 1107.6 | 1089.4 | 1071.3 | 1053.2 | 1035.0 | 1021.9 |
| 45° | 1088.9 | 1077.5 | 1066.3 | 1055.0 | 1043.7 | 1028.8 | 1010.6 | 992.2 | 973.9 | 955.5 | 940.6 |
| 47.5° | 1011.1 | 999.4 | 987.7 | 976.0 | 964.4 | 949.0 | 930.0 | 910.9 | 891.8 | 872.8 | 857.2 |
| 50° | 958.3 | 946.3 | 934.4 | 922.6 | 910.6 | 894.8 | 875.3 | 855.7 | 836.2 | 816.7 | 801.4 |
| 52.5° | 904.4 | 892.7 | 881.1 | 869.4 | 857.7 | 841.8 | 821.8 | 801.8 | 781.7 | 761.6 | 746.1 |
| 55° | 824.9 | 812.7 | 800.5 | 788.2 | 776.0 | 760.0 | 740.1 | 720.3 | 700.4 | 680.5 | 664.7 |
| 57.5° | 746.2 | 733.6 | 720.8 | 708.2 | 695.4 | 679.3 | 659.8 | 640.2 | 620.6 | 601.1 | 585.0 |
| 60° | 690.2 | 678.0 | 665.7 | 653.5 | 641.3 | 625.4 | 605.9 | 586.3 | 566.7 | 547.2 | 531.3 |
| 62.5° | 639.6 | 626.9 | 614.2 | 601.5 | 588.8 | 572.4 | 552.3 | 532.3 | 512.2 | 492.2 | 477.5 |
| 65° | 560.9 | 547.8 | 534.7 | 521.5 | 508.4 | 492.1 | 472.5 | 453.0 | 433.4 | 413.8 | 400.7 |
| 67.5° | 479.2 | 466.7 | 454.1 | 441.5 | 429.0 | 413.5 | 395.4 | 377.3 | 359.1 | 341.0 | 329.7 |
| 70° | 427.6 | 414.7 | 401.9 | 389.1 | 376.3 | 361.1 | 343.7 | 326.3 | 308.9 | 291.4 | 281.4 |
| 72.5° | 372.6 | 361.0 | 349.4 | 337.8 | 326.1 | 312.1 | 295.7 | 279.2 | 262.8 | 246.3 | 237.7 |
| 75° | 298.3 | 287.1 | 275.7 | 264.4 | 253.1 | 240.3 | 225.9 | 211.5 | 197.3 | 182.9 | 175.8 |
| 77.5° | 223.0 | 213.4 | 203.8 | 194.2 | 184.6 | 174.0 | 162.4 | 150.8 | 139.2 | 127.6 | 123.5 |
| 80° | 174.6 | 165.7 | 156.9 | 148.0 | 139.1 | 130.2 | 121.0 | 111.8 | 102.6 | 93.5 | 92.6 |
| 82.5° | 132.9 | 124.7 | 116.6 | 108.4 | 100.3 | 93.6 | 88.3 | 83.1 | 77.8 | 72.6 | 71.9 |
| 85° | 74.2 | 68.1 | 62.0 | 55.9 | 49.8 | 46.3 | 45.4 | 44.4 | 43.6 | 42.6 | 42.0 |
| 87.5° | 25.4 | 23.8 | 22.2 | 20.4 | 18.5 | 17.5 | 18.0 | 17.7 | 17.8 | 17.8 | 17.5 |
| 90° | 0.7 | 2.0 | 4.0 | 4.7 | 5.4 | 5.4 | 9.4 | 9.4 | 10.8 | 12.1 | 11.5 |
| 92.5° | 7.7 | 11.2 | 17.5 | 25.7 | 35.6 | 49.5 | 83.8 | 136.0 | 186.9 | 213.5 | 177.9 |
| 95° | 22.2 | 24.2 | 31.0 | 39.7 | 55.9 | 84.1 | 142.8 | 253.1 | 414.1 | 548.7 | 564.2 |
| 97.5° | 39.9 | 39.9 | 45.6 | 53.7 | 67.6 | 91.3 | 136.4 | 227.6 | 387.5 | 577.9 | 708.8 |
| 100° | 51.1 | 51.1 | 55.9 | 64.0 | 76.7 | 98.3 | 138.0 | 214.1 | 351.5 | 541.3 | 713.6 |
| 102.5° | 61.9 | 63.0 | 67.2 | 74.7 | 87.0 | 107.5 | 143.4 | 210.3 | 327.2 | 495.5 | 673.2 |
| 105° | 78.8 | 80.8 | 84.1 | 92.2 | 104.4 | 123.9 | 156.2 | 212.1 | 306.3 | 441.6 | 599.9 |
| 107.5° | 97.4 | 98.7 | 102.0 | 110.6 | 122.3 | 141.5 | 171.2 | 222.1 | 302.6 | 411.5 | 540.6 |
| 110° | 109.8 | 111.1 | 114.4 | 122.5 | 134.7 | 152.8 | 182.4 | 229.5 | 303.6 | 401.2 | 511.0 |



TEST NUMBER: P333002-935

CATALOG NUMBER: S124RDIP-S1195D810U935-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 121.6 | 123.0 | 126.8 | 134.4 | 146.5 | 164.7 | 193.2 | 237.6 | 306.9 | 396.4 | 494.3 |
| 115° | 138.7 | 140.7 | 145.4 | 152.1 | 165.0 | 183.1 | 210.1 | 250.5 | 313.1 | 393.8 | 478.6 |
| 117.5° | 156.4 | 158.3 | 162.6 | 170.0 | 181.9 | 200.8 | 226.4 | 263.5 | 319.7 | 393.1 | 471.7 |
| 120° | 168.3 | 169.6 | 174.4 | 181.8 | 193.2 | 212.1 | 237.6 | 272.7 | 324.5 | 393.1 | 467.9 |
| 122.5° | 179.1 | 180.5 | 185.1 | 192.0 | 204.5 | 222.8 | 248.4 | 281.3 | 329.3 | 392.6 | 463.6 |
| 125° | 193.2 | 195.9 | 199.9 | 207.3 | 220.2 | 239.0 | 263.2 | 294.2 | 336.7 | 391.8 | 456.4 |
| 127.5° | 205.8 | 207.9 | 212.8 | 221.2 | 234.5 | 253.6 | 277.0 | 305.4 | 342.4 | 390.4 | 446.9 |
| 130° | 212.8 | 215.4 | 220.8 | 230.9 | 243.7 | 263.2 | 286.1 | 312.4 | 346.7 | 389.8 | 441.0 |
| 132.5° | 219.7 | 221.9 | 228.9 | 238.5 | 252.4 | 270.8 | 293.7 | 319.3 | 350.5 | 389.3 | 435.6 |
| 135° | 229.5 | 232.3 | 239.0 | 250.5 | 264.6 | 282.1 | 304.3 | 328.6 | 356.1 | 388.5 | 427.5 |
| 137.5° | 239.4 | 241.9 | 249.3 | 260.3 | 274.9 | 291.6 | 312.4 | 335.0 | 359.5 | 388.3 | 420.5 |
| 140° | 246.4 | 248.4 | 255.8 | 267.3 | 281.4 | 297.6 | 317.8 | 339.3 | 362.2 | 387.8 | 416.7 |
| 142.5° | 253.9 | 256.0 | 262.9 | 273.7 | 287.3 | 303.0 | 322.6 | 342.5 | 364.4 | 387.8 | 413.5 |
| 145° | 264.6 | 266.6 | 273.4 | 282.8 | 295.6 | 310.4 | 327.9 | 346.0 | 365.6 | 386.4 | 407.9 |
| 147.5° | 276.6 | 277.2 | 283.2 | 292.8 | 303.5 | 316.8 | 333.3 | 349.1 | 366.3 | 384.0 | 403.0 |
| 150° | 284.1 | 284.8 | 290.2 | 298.3 | 308.3 | 321.2 | 336.0 | 350.8 | 366.3 | 382.4 | 399.2 |
| 152.5° | 291.1 | 291.3 | 296.6 | 304.2 | 313.2 | 324.9 | 338.1 | 351.8 | 365.2 | 379.7 | 394.9 |
| 155° | 300.9 | 301.6 | 305.7 | 312.4 | 319.8 | 329.8 | 341.3 | 352.8 | 363.5 | 375.7 | 388.5 |
| 157.5° | 310.5 | 310.5 | 314.3 | 319.5 | 326.0 | 333.9 | 343.6 | 352.8 | 361.8 | 371.5 | 381.9 |
| 160° | 316.4 | 316.4 | 319.1 | 323.8 | 329.2 | 336.7 | 344.7 | 352.8 | 360.2 | 368.2 | 377.0 |
| 162.5° | 321.8 | 321.2 | 323.4 | 327.6 | 332.4 | 338.2 | 345.8 | 352.8 | 358.6 | 365.1 | 372.7 |
| 165° | 327.9 | 327.9 | 329.2 | 332.6 | 336.0 | 340.0 | 346.0 | 351.5 | 355.5 | 360.2 | 365.6 |
| 167.5° | 333.9 | 333.3 | 333.9 | 336.5 | 338.4 | 341.5 | 345.9 | 349.8 | 352.2 | 355.3 | 359.1 |
| 170° | 336.7 | 336.0 | 336.7 | 338.6 | 340.0 | 342.0 | 345.3 | 348.7 | 350.1 | 352.1 | 354.8 |
| 172.5° | 339.3 | 338.6 | 338.8 | 340.3 | 341.0 | 342.5 | 344.8 | 347.7 | 347.9 | 348.9 | 351.0 |
| 175° | 342.0 | 341.3 | 341.3 | 342.0 | 342.7 | 342.7 | 344.1 | 346.0 | 345.3 | 345.3 | 346.7 |
| 177.5° | 343.2 | 342.7 | 342.2 | 342.7 | 342.7 | 342.7 | 343.2 | 344.3 | 343.2 | 343.2 | 343.7 |
| 180° | 342.7 | 342.7 | 342.7 | 342.7 | 342.7 | 342.7 | 342.7 | 342.7 | 342.7 | 342.7 | 342.7 |



TEST NUMBER: P333002-935

CATALOG NUMBER: S124RDIP-S1195D810U935-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1795.5 | 1795.5 | 1795.5 | 1795.5 | 1795.5 | 1795.5 | 1795.5 | 1795.5 |
| 2.5° | 1788.8 | 1791.6 | 1794.2 | 1795.4 | 1795.2 | 1794.9 | 1794.7 | 1794.5 |
| 5° | 1776.9 | 1779.9 | 1783.0 | 1784.3 | 1783.6 | 1783.0 | 1782.4 | 1781.8 |
| 7.5° | 1753.3 | 1755.2 | 1757.2 | 1757.6 | 1756.7 | 1755.8 | 1754.7 | 1753.8 |
| 10° | 1732.0 | 1733.2 | 1734.5 | 1734.5 | 1733.2 | 1732.0 | 1730.8 | 1729.6 |
| 12.5° | 1705.7 | 1706.5 | 1707.2 | 1706.7 | 1705.0 | 1703.3 | 1701.6 | 1699.9 |
| 15° | 1659.6 | 1659.0 | 1658.4 | 1657.0 | 1654.8 | 1652.7 | 1650.6 | 1648.5 |
| 17.5° | 1604.0 | 1602.3 | 1600.6 | 1598.2 | 1594.9 | 1591.6 | 1588.5 | 1585.2 |
| 20° | 1565.2 | 1562.7 | 1560.3 | 1557.1 | 1553.2 | 1549.2 | 1545.2 | 1541.2 |
| 22.5° | 1522.1 | 1518.4 | 1514.8 | 1511.3 | 1508.0 | 1504.8 | 1501.6 | 1498.3 |
| 25° | 1452.4 | 1447.3 | 1442.1 | 1438.0 | 1434.9 | 1431.8 | 1428.7 | 1425.7 |
| 27.5° | 1381.6 | 1375.1 | 1368.7 | 1363.3 | 1358.9 | 1354.5 | 1350.1 | 1345.7 |
| 30° | 1330.7 | 1323.1 | 1315.4 | 1309.2 | 1304.2 | 1299.4 | 1294.5 | 1289.6 |
| 32.5° | 1278.8 | 1269.9 | 1261.0 | 1254.3 | 1249.7 | 1245.0 | 1240.4 | 1235.7 |
| 35° | 1201.4 | 1191.1 | 1180.7 | 1172.8 | 1167.3 | 1161.7 | 1156.2 | 1150.7 |
| 37.5° | 1118.4 | 1106.8 | 1095.3 | 1086.7 | 1081.2 | 1075.6 | 1070.2 | 1064.7 |
| 40° | 1063.2 | 1050.4 | 1037.6 | 1028.4 | 1022.9 | 1017.4 | 1011.9 | 1006.4 |
| 42.5° | 1008.8 | 995.7 | 982.7 | 973.3 | 967.5 | 961.8 | 956.1 | 950.3 |
| 45° | 925.6 | 910.6 | 895.6 | 885.4 | 879.9 | 874.4 | 868.9 | 863.4 |
| 47.5° | 841.7 | 826.2 | 810.7 | 799.9 | 793.8 | 787.8 | 781.7 | 775.7 |
| 50° | 786.1 | 770.9 | 755.5 | 745.0 | 739.3 | 733.4 | 727.6 | 721.8 |
| 52.5° | 730.6 | 715.1 | 699.6 | 688.8 | 682.8 | 676.7 | 670.6 | 664.6 |
| 55° | 648.8 | 632.9 | 617.0 | 606.1 | 600.4 | 594.5 | 588.8 | 582.9 |
| 57.5° | 568.9 | 552.7 | 536.6 | 526.3 | 521.9 | 517.5 | 513.1 | 508.7 |
| 60° | 515.4 | 499.6 | 483.6 | 473.3 | 468.4 | 463.5 | 458.6 | 453.7 |
| 62.5° | 462.9 | 448.2 | 433.5 | 424.2 | 420.3 | 416.5 | 412.5 | 408.6 |
| 65° | 387.5 | 374.4 | 361.3 | 352.8 | 349.2 | 345.5 | 341.9 | 338.2 |
| 67.5° | 318.4 | 307.0 | 295.8 | 288.1 | 284.0 | 280.0 | 276.0 | 271.9 |
| 70° | 271.3 | 261.2 | 251.2 | 244.6 | 241.5 | 238.5 | 235.4 | 232.4 |
| 72.5° | 229.1 | 220.5 | 211.9 | 206.2 | 203.4 | 200.6 | 197.8 | 194.9 |
| 75° | 168.8 | 161.8 | 154.7 | 150.3 | 148.5 | 146.6 | 144.8 | 143.0 |
| 77.5° | 119.4 | 115.3 | 111.2 | 108.9 | 108.3 | 107.8 | 107.3 | 106.7 |
| 80° | 91.7 | 90.7 | 89.8 | 89.2 | 88.9 | 88.6 | 88.3 | 88.0 |
| 82.5° | 71.3 | 70.6 | 69.9 | 69.4 | 69.1 | 68.8 | 68.5 | 68.2 |
| 85° | 41.4 | 40.8 | 40.2 | 39.9 | 39.9 | 39.9 | 39.9 | 39.9 |
| 87.5° | 17.3 | 17.2 | 17.1 | 17.1 | 17.5 | 17.9 | 18.0 | 18.3 |
| 90° | 12.1 | 12.8 | 13.4 | 13.4 | 14.1 | 14.8 | 14.1 | 14.1 |
| 92.5° | 132.2 | 99.5 | 79.2 | 65.7 | 57.8 | 54.2 | 51.8 | 51.8 |
| 95° | 498.9 | 394.5 | 304.3 | 239.0 | 206.0 | 185.1 | 173.1 | 164.3 |
| 97.5° | 737.0 | 698.3 | 632.4 | 562.1 | 513.8 | 473.3 | 453.1 | 439.1 |
| 100° | 811.9 | 825.4 | 792.4 | 742.6 | 684.0 | 642.9 | 622.8 | 617.3 |
| 102.5° | 808.1 | 874.9 | 884.5 | 863.8 | 827.9 | 798.1 | 776.8 | 772.5 |
| 105° | 754.1 | 870.5 | 937.1 | 964.8 | 966.1 | 960.7 | 951.3 | 947.3 |
| 107.5° | 677.2 | 801.2 | 895.0 | 955.0 | 988.3 | 1003.7 | 1010.4 | 1012.1 |
| 110° | 630.9 | 747.3 | 844.9 | 918.9 | 966.7 | 995.1 | 1007.2 | 1013.2 |



TEST NUMBER: P333002-935

CATALOG NUMBER: S124RDIP-S1195D810U935-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 596.9 | 699.9 | 792.1 | 866.2 | 920.4 | 954.7 | 971.6 | 981.5 |
| 115° | 562.8 | 645.7 | 724.4 | 789.0 | 842.2 | 882.6 | 904.1 | 909.6 |
| 117.5° | 546.1 | 614.7 | 676.6 | 731.4 | 776.8 | 810.7 | 832.5 | 836.7 |
| 120° | 538.6 | 601.2 | 655.0 | 702.8 | 741.2 | 770.9 | 788.3 | 795.7 |
| 122.5° | 532.1 | 592.5 | 641.6 | 683.5 | 715.9 | 741.2 | 756.0 | 763.4 |
| 125° | 521.1 | 579.0 | 625.4 | 662.5 | 689.4 | 708.9 | 721.7 | 725.7 |
| 127.5° | 507.6 | 562.9 | 609.2 | 644.5 | 671.5 | 688.9 | 699.6 | 703.7 |
| 130° | 496.9 | 550.0 | 595.8 | 631.5 | 659.1 | 676.0 | 686.7 | 690.8 |
| 132.5° | 485.5 | 535.5 | 580.2 | 615.9 | 642.9 | 661.9 | 672.2 | 676.2 |
| 135° | 469.9 | 513.7 | 554.7 | 588.4 | 615.4 | 634.2 | 645.0 | 649.0 |
| 137.5° | 455.8 | 492.8 | 527.4 | 557.8 | 583.0 | 601.6 | 610.4 | 615.4 |
| 140° | 447.7 | 479.3 | 509.6 | 538.0 | 561.5 | 576.3 | 585.7 | 591.1 |
| 142.5° | 440.1 | 468.0 | 494.0 | 518.5 | 539.4 | 553.1 | 561.5 | 565.2 |
| 145° | 429.6 | 452.5 | 472.6 | 491.5 | 508.3 | 519.7 | 526.5 | 529.9 |
| 147.5° | 420.8 | 438.9 | 455.1 | 469.9 | 482.3 | 492.1 | 497.2 | 498.4 |
| 150° | 415.3 | 430.8 | 444.4 | 456.4 | 467.3 | 476.0 | 480.0 | 480.7 |
| 152.5° | 409.5 | 422.8 | 435.1 | 445.1 | 454.3 | 461.4 | 463.8 | 464.5 |
| 155° | 400.5 | 411.4 | 421.5 | 429.6 | 436.3 | 441.6 | 443.7 | 443.7 |
| 157.5° | 391.0 | 400.0 | 408.5 | 415.0 | 420.1 | 424.1 | 425.3 | 425.3 |
| 160° | 385.1 | 392.5 | 399.9 | 405.3 | 409.3 | 413.4 | 414.1 | 414.1 |
| 162.5° | 379.2 | 385.5 | 391.3 | 396.1 | 399.1 | 403.1 | 403.8 | 403.3 |
| 165° | 370.9 | 375.0 | 379.7 | 383.1 | 385.7 | 388.5 | 387.8 | 387.1 |
| 167.5° | 363.0 | 366.1 | 369.9 | 371.9 | 373.2 | 375.0 | 374.9 | 374.3 |
| 170° | 358.2 | 360.2 | 362.9 | 364.9 | 366.3 | 366.9 | 366.3 | 366.3 |
| 172.5° | 353.9 | 355.3 | 357.0 | 358.4 | 359.2 | 359.9 | 359.2 | 358.2 |
| 175° | 348.1 | 348.7 | 350.1 | 350.1 | 350.1 | 351.5 | 350.1 | 348.7 |
| 177.5° | 344.3 | 344.8 | 344.8 | 345.3 | 344.8 | 345.3 | 344.3 | 343.2 |
| 180° | 342.7 | 342.7 | 342.7 | 342.7 | 342.7 | 342.7 | 342.7 | 342.7 |

(END OF REPORT)