

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: P334048

Luminaire Tested: **S123RDW-S1000D935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334048
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDW-S1000D935-4F0-1E-UDD-A
Description: DEFINE 3 REGRESSED DIRECT LED LUMINAIRE, ASYMMETRIC DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3193.4 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Direct

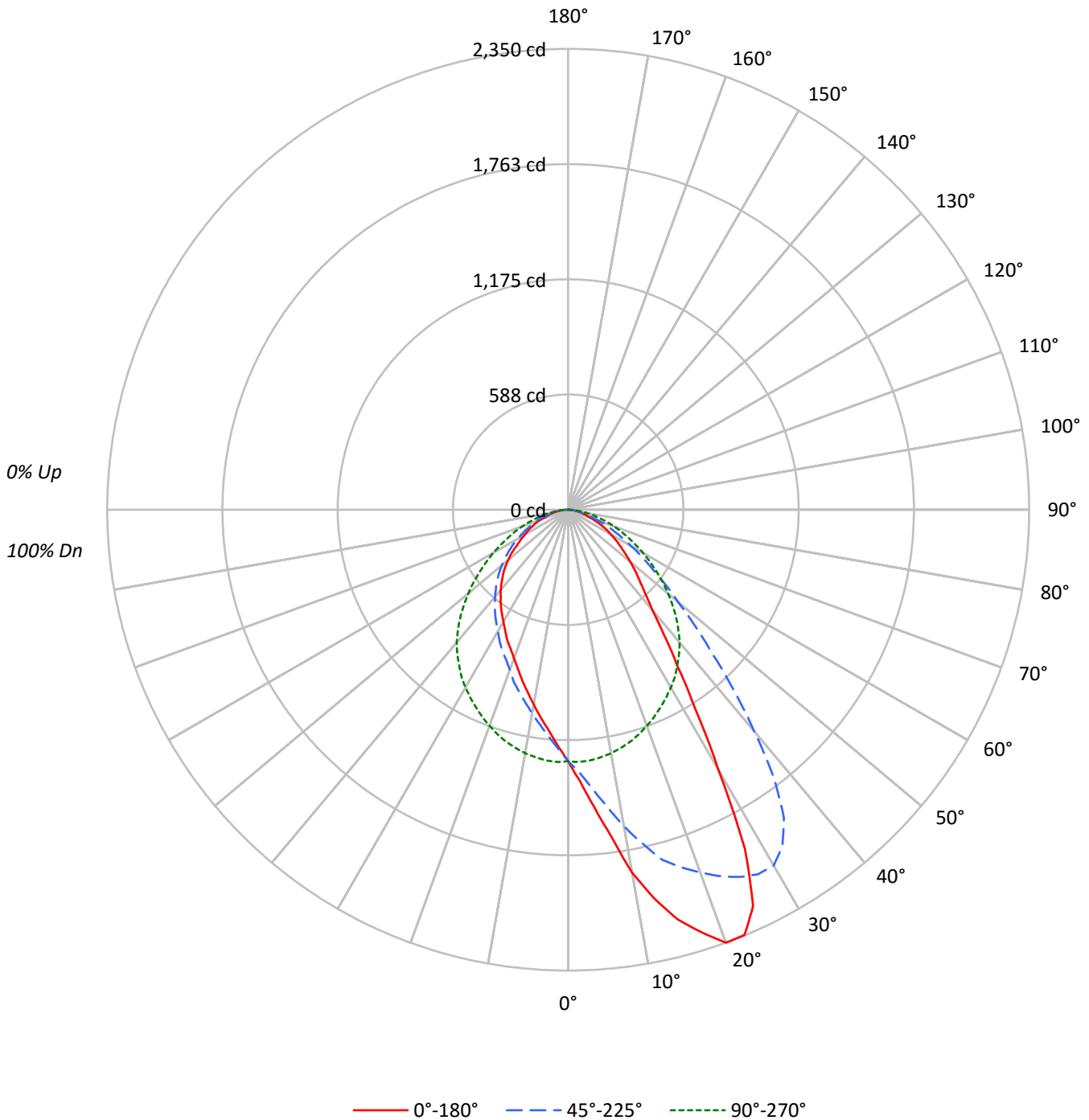
Input Watts (W): 34.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P334048

CATALOG NUMBER: S123RDW-S1000D935-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P334048

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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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 110 | 106 | 102 | 99 | 108 | 104 | 100 | 97 | 100 | 97 | 94 | 96 | 93 | 91 | 92 | 90 | 89 | 87 |
| 2 | 101 | 94 | 88 | 83 | 99 | 92 | 87 | 82 | 89 | 84 | 80 | 86 | 82 | 78 | 83 | 79 | 77 | 74 |
| 3 | 93 | 84 | 76 | 71 | 91 | 82 | 75 | 70 | 79 | 74 | 69 | 77 | 72 | 68 | 74 | 70 | 66 | 64 |
| 4 | 86 | 75 | 67 | 61 | 84 | 74 | 66 | 61 | 71 | 65 | 60 | 69 | 64 | 59 | 67 | 62 | 58 | 56 |
| 5 | 80 | 68 | 60 | 53 | 78 | 67 | 59 | 53 | 65 | 58 | 53 | 63 | 57 | 52 | 61 | 56 | 52 | 50 |
| 6 | 74 | 62 | 53 | 47 | 72 | 61 | 53 | 47 | 59 | 52 | 47 | 57 | 51 | 46 | 56 | 50 | 46 | 44 |
| 7 | 69 | 56 | 48 | 42 | 67 | 55 | 48 | 42 | 54 | 47 | 42 | 53 | 46 | 42 | 51 | 46 | 41 | 39 |
| 8 | 64 | 52 | 44 | 38 | 63 | 51 | 43 | 38 | 50 | 43 | 38 | 48 | 42 | 38 | 47 | 42 | 37 | 36 |
| 9 | 60 | 48 | 40 | 35 | 59 | 47 | 40 | 35 | 46 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 32 |
| 10 | 57 | 44 | 37 | 32 | 55 | 44 | 36 | 32 | 43 | 36 | 31 | 42 | 36 | 31 | 41 | 35 | 31 | 29 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 13805 | 13805 | 13805 |
| 5° | 16455 | 13863 | 12209 |
| 10° | 20546 | 13784 | 11029 |
| 15° | 24117 | 13643 | 10058 |
| 20° | 26915 | 13433 | 9231 |
| 25° | 26486 | 13210 | 8725 |
| 30° | 19038 | 13006 | 8202 |
| 35° | 12711 | 12740 | 7863 |
| 40° | 9365 | 12420 | 7513 |
| 45° | 7856 | 11858 | 7170 |
| 50° | 6931 | 11124 | 6693 |
| 55° | 6078 | 10282 | 6037 |
| 60° | 5412 | 9479 | 5530 |
| 65° | 4755 | 8614 | 5145 |
| 70° | 3733 | 7843 | 4699 |
| 75° | 3290 | 6850 | 4292 |
| 80° | 2858 | 5821 | 4221 |
| 85° | 2309 | 4681 | 4471 |



TEST NUMBER: P334048

CATALOG NUMBER: S123RDW-S1000D935-4F0-1E-UDD-A

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 125.9 | 3.9 |
| 10°-20° | 394.2 | 12.3 |
| 20°-30° | 620.9 | 19.4 |
| 30°-40° | 645.7 | 20.2 |
| 40°-50° | 552.4 | 17.3 |
| 50°-60° | 421.1 | 13.2 |
| 60°-70° | 269.8 | 8.4 |
| 70°-80° | 129.2 | 4.0 |
| 80°-90° | 34.0 | 1.1 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 1141.1 | 35.7 |
| 0°-40° | 1786.9 | 56.0 |
| 0°-60° | 2760.4 | 86.4 |
| 0°-90° | 3193.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3193.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1282 | 1282 | 1282 | 1282 | 1282 | |
| 5° | 1523 | 1428 | 1283 | 1158 | 1130 | 156 |
| 15° | 2164 | 1848 | 1224 | 962 | 903 | 614 |
| 25° | 2230 | 2066 | 1112 | 795 | 735 | 969 |
| 35° | 967 | 1917 | 970 | 649 | 598 | 629 |
| 45° | 516 | 1041 | 779 | 513 | 471 | 405 |
| 55° | 324 | 519 | 548 | 370 | 322 | 292 |
| 65° | 187 | 256 | 338 | 231 | 202 | 184 |
| 75° | 79 | 93 | 165 | 118 | 103 | 85 |
| 85° | 19 | 20 | 38 | 35 | 36 | 21 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P334048

CATALOG NUMBER: S123RDW-S1000D935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 |
| 2.5° | 1386.8 | 1389.0 | 1381.8 | 1380.7 | 1372.5 | 1370.3 | 1370.3 | 1358.8 | 1351.6 | 1342.3 | 1336.8 |
| 5° | 1522.9 | 1531.7 | 1527.3 | 1517.4 | 1501.0 | 1497.1 | 1486.7 | 1470.2 | 1451.6 | 1428.5 | 1417.5 |
| 7.5° | 1678.9 | 1697.0 | 1693.7 | 1678.3 | 1660.7 | 1649.8 | 1620.7 | 1597.1 | 1561.4 | 1529.0 | 1503.7 |
| 10° | 1879.8 | 1867.2 | 1857.3 | 1842.5 | 1826.5 | 1800.7 | 1770.0 | 1727.7 | 1678.9 | 1640.4 | 1597.6 |
| 12.5° | 2030.2 | 2030.8 | 2017.6 | 2002.2 | 1978.1 | 1953.9 | 1914.4 | 1860.6 | 1801.8 | 1742.0 | 1691.5 |
| 15° | 2164.2 | 2167.5 | 2159.2 | 2143.3 | 2111.5 | 2068.1 | 2011.0 | 1989.6 | 1908.3 | 1847.9 | 1787.6 |
| 17.5° | 2259.7 | 2260.3 | 2258.6 | 2237.2 | 2202.6 | 2173.0 | 2119.7 | 2069.7 | 1992.9 | 1911.1 | 1830.4 |
| 20° | 2349.7 | 2344.2 | 2345.3 | 2320.6 | 2296.5 | 2260.8 | 2209.2 | 2127.4 | 2067.0 | 1968.7 | 1884.7 |
| 22.5° | 2347.5 | 2347.5 | 2352.5 | 2348.1 | 2332.2 | 2306.9 | 2269.0 | 2203.2 | 2121.9 | 2022.5 | 1925.4 |
| 25° | 2230.1 | 2225.7 | 2251.5 | 2258.6 | 2286.6 | 2291.5 | 2279.5 | 2241.6 | 2168.6 | 2066.5 | 1949.5 |
| 27.5° | 1950.1 | 1934.1 | 1987.9 | 2041.2 | 2112.0 | 2157.0 | 2203.2 | 2213.6 | 2179.0 | 2095.6 | 1973.1 |
| 30° | 1531.7 | 1583.3 | 1607.5 | 1694.2 | 1790.9 | 1906.1 | 2007.2 | 2103.2 | 2126.8 | 2095.0 | 1998.9 |
| 32.5° | 1206.7 | 1250.1 | 1269.3 | 1340.7 | 1429.1 | 1569.1 | 1733.2 | 1879.2 | 1993.4 | 2031.9 | 1983.6 |
| 35° | 967.3 | 967.9 | 1014.0 | 1047.0 | 1130.4 | 1269.3 | 1416.4 | 1598.7 | 1779.9 | 1917.1 | 1931.4 |
| 37.5° | 798.3 | 800.4 | 830.1 | 863.0 | 930.0 | 1008.0 | 1144.7 | 1298.4 | 1516.4 | 1721.1 | 1827.6 |
| 40° | 666.5 | 671.4 | 692.3 | 724.7 | 769.7 | 825.2 | 926.2 | 1068.9 | 1243.5 | 1477.9 | 1669.5 |
| 42.5° | 581.9 | 590.7 | 599.0 | 622.0 | 645.6 | 696.7 | 773.5 | 875.7 | 1030.5 | 1249.0 | 1477.4 |
| 45° | 516.1 | 520.5 | 528.7 | 540.2 | 565.5 | 601.7 | 656.6 | 730.7 | 862.5 | 1040.9 | 1262.2 |
| 47.5° | 465.6 | 462.8 | 472.1 | 482.0 | 499.0 | 525.4 | 563.8 | 628.1 | 726.9 | 876.2 | 1067.8 |
| 50° | 413.9 | 413.4 | 419.4 | 426.6 | 442.5 | 460.6 | 490.8 | 536.4 | 611.0 | 729.6 | 901.5 |
| 52.5° | 365.6 | 368.4 | 372.2 | 381.6 | 392.0 | 405.7 | 432.1 | 461.7 | 523.2 | 621.5 | 757.6 |
| 55° | 323.9 | 325.6 | 331.6 | 336.5 | 344.8 | 359.6 | 376.6 | 404.1 | 448.0 | 519.4 | 637.4 |
| 57.5° | 287.7 | 287.1 | 293.2 | 293.7 | 304.1 | 316.8 | 330.5 | 351.9 | 385.4 | 441.9 | 524.3 |
| 60° | 251.4 | 249.8 | 254.7 | 258.6 | 263.5 | 273.4 | 284.4 | 305.2 | 330.5 | 369.5 | 437.6 |
| 62.5° | 218.5 | 218.0 | 221.2 | 225.1 | 228.9 | 237.7 | 246.5 | 261.3 | 280.0 | 311.3 | 361.8 |
| 65° | 186.7 | 188.3 | 190.0 | 191.6 | 193.8 | 199.3 | 208.1 | 219.1 | 232.8 | 255.8 | 294.8 |
| 67.5° | 153.7 | 155.9 | 156.5 | 160.3 | 164.7 | 167.4 | 172.4 | 182.8 | 193.2 | 214.1 | 237.2 |
| 70° | 118.6 | 118.0 | 118.6 | 120.2 | 126.3 | 132.3 | 139.4 | 146.6 | 152.6 | 166.3 | 185.0 |
| 72.5° | 97.7 | 96.6 | 98.3 | 98.3 | 100.5 | 101.0 | 104.9 | 111.4 | 119.7 | 127.9 | 140.0 |
| 75° | 79.1 | 79.1 | 79.1 | 79.1 | 81.3 | 82.4 | 84.0 | 85.6 | 88.4 | 92.8 | 102.7 |
| 77.5° | 61.5 | 61.5 | 62.6 | 63.1 | 63.7 | 64.2 | 65.3 | 67.0 | 68.1 | 70.3 | 75.2 |
| 80° | 46.1 | 46.7 | 46.1 | 46.7 | 46.7 | 47.8 | 48.3 | 50.0 | 50.5 | 53.3 | 54.9 |
| 82.5° | 31.8 | 31.3 | 31.8 | 32.4 | 32.4 | 33.5 | 33.5 | 34.6 | 34.6 | 35.7 | 37.3 |
| 85° | 18.7 | 17.6 | 18.7 | 18.1 | 19.2 | 18.1 | 18.7 | 19.8 | 19.8 | 20.3 | 22.5 |
| 87.5° | 5.5 | 6.6 | 5.5 | 6.0 | 6.0 | 6.6 | 6.6 | 6.6 | 7.7 | 7.1 | 7.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P334048

CATALOG NUMBER: S123RDW-S1000D935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 |
| 2.5° | 1334.6 | 1333.0 | 1325.3 | 1316.5 | 1305.0 | 1297.3 | 1291.3 | 1288.0 | 1278.1 | 1266.0 | 1257.8 |
| 5° | 1406.0 | 1389.5 | 1372.0 | 1350.6 | 1330.8 | 1310.5 | 1297.8 | 1283.0 | 1264.9 | 1244.6 | 1230.3 |
| 7.5° | 1476.8 | 1448.3 | 1417.0 | 1384.6 | 1351.6 | 1322.6 | 1295.7 | 1273.7 | 1246.2 | 1218.2 | 1199.0 |
| 10° | 1560.8 | 1513.6 | 1464.7 | 1414.8 | 1369.2 | 1326.4 | 1293.5 | 1261.1 | 1226.5 | 1193.0 | 1167.7 |
| 12.5° | 1637.1 | 1571.3 | 1513.1 | 1448.8 | 1387.3 | 1334.1 | 1283.0 | 1243.5 | 1200.1 | 1163.9 | 1134.2 |
| 15° | 1699.2 | 1635.5 | 1567.4 | 1474.1 | 1396.7 | 1331.9 | 1274.2 | 1224.3 | 1173.8 | 1129.9 | 1101.9 |
| 17.5° | 1764.0 | 1667.3 | 1577.8 | 1505.4 | 1404.4 | 1325.8 | 1258.3 | 1200.1 | 1145.2 | 1100.2 | 1065.1 |
| 20° | 1801.3 | 1708.5 | 1609.1 | 1509.8 | 1410.9 | 1320.4 | 1238.6 | 1172.7 | 1115.0 | 1062.3 | 1030.5 |
| 22.5° | 1823.8 | 1715.6 | 1609.7 | 1501.0 | 1394.5 | 1299.5 | 1218.8 | 1144.7 | 1081.0 | 1031.6 | 990.4 |
| 25° | 1840.3 | 1715.1 | 1599.8 | 1494.4 | 1387.3 | 1285.2 | 1189.1 | 1112.3 | 1044.8 | 991.5 | 949.8 |
| 27.5° | 1853.4 | 1708.5 | 1576.2 | 1461.5 | 1353.3 | 1249.5 | 1162.8 | 1080.4 | 1012.9 | 957.5 | 911.9 |
| 30° | 1856.7 | 1700.3 | 1548.2 | 1421.4 | 1311.0 | 1217.7 | 1124.4 | 1046.4 | 973.9 | 914.1 | 872.4 |
| 32.5° | 1861.1 | 1680.0 | 1510.3 | 1373.6 | 1260.0 | 1167.7 | 1085.4 | 1011.8 | 937.2 | 878.4 | 835.6 |
| 35° | 1845.8 | 1675.0 | 1471.9 | 1317.1 | 1204.0 | 1114.5 | 1038.2 | 969.5 | 896.5 | 839.4 | 796.1 |
| 37.5° | 1799.1 | 1648.1 | 1433.5 | 1253.9 | 1137.0 | 1054.6 | 991.0 | 928.4 | 860.8 | 798.3 | 758.2 |
| 40° | 1720.6 | 1604.2 | 1387.3 | 1197.4 | 1073.9 | 988.8 | 932.8 | 883.9 | 819.1 | 761.5 | 717.5 |
| 42.5° | 1603.6 | 1544.3 | 1343.4 | 1138.1 | 1002.5 | 921.2 | 876.2 | 831.2 | 776.3 | 717.5 | 676.9 |
| 45° | 1455.4 | 1464.7 | 1280.3 | 1074.4 | 937.7 | 855.3 | 810.9 | 779.0 | 728.5 | 680.2 | 637.9 |
| 47.5° | 1275.3 | 1353.3 | 1212.8 | 1007.4 | 867.4 | 790.0 | 751.0 | 721.9 | 686.8 | 636.8 | 597.9 |
| 50° | 1099.7 | 1224.3 | 1128.2 | 939.9 | 802.1 | 725.2 | 686.8 | 664.3 | 634.6 | 597.3 | 560.5 |
| 52.5° | 937.7 | 1073.9 | 1026.1 | 864.7 | 731.3 | 662.6 | 625.3 | 607.7 | 585.8 | 551.2 | 518.8 |
| 55° | 791.1 | 926.7 | 913.5 | 788.9 | 660.5 | 597.3 | 568.8 | 547.9 | 532.0 | 505.6 | 479.3 |
| 57.5° | 663.7 | 795.0 | 797.7 | 704.9 | 599.0 | 534.7 | 510.0 | 493.6 | 482.6 | 461.7 | 435.9 |
| 60° | 544.6 | 662.6 | 685.7 | 619.8 | 532.0 | 477.1 | 452.9 | 440.3 | 432.1 | 416.1 | 397.5 |
| 62.5° | 445.8 | 541.9 | 568.8 | 525.9 | 467.8 | 417.2 | 399.7 | 387.6 | 382.7 | 369.5 | 353.6 |
| 65° | 356.3 | 439.8 | 465.0 | 438.7 | 405.2 | 364.0 | 348.6 | 338.2 | 333.2 | 325.6 | 313.5 |
| 67.5° | 281.1 | 345.9 | 373.3 | 351.4 | 338.7 | 309.6 | 299.2 | 293.2 | 288.8 | 283.3 | 272.9 |
| 70° | 215.2 | 260.2 | 288.8 | 283.8 | 274.0 | 260.2 | 253.1 | 249.2 | 244.9 | 240.5 | 231.7 |
| 72.5° | 162.5 | 190.0 | 216.3 | 220.7 | 213.0 | 213.0 | 207.0 | 205.9 | 203.7 | 198.2 | 194.3 |
| 75° | 114.7 | 136.2 | 154.8 | 162.0 | 165.3 | 168.0 | 165.3 | 164.7 | 164.2 | 159.8 | 157.0 |
| 77.5° | 79.6 | 93.3 | 106.0 | 118.6 | 123.0 | 126.8 | 127.4 | 129.6 | 127.9 | 125.2 | 124.1 |
| 80° | 57.6 | 60.4 | 68.6 | 79.1 | 87.3 | 90.6 | 92.8 | 93.9 | 93.3 | 92.8 | 90.6 |
| 82.5° | 37.9 | 40.1 | 42.8 | 49.4 | 56.0 | 62.0 | 63.1 | 62.6 | 64.2 | 64.8 | 63.1 |
| 85° | 22.5 | 23.1 | 24.2 | 25.3 | 29.1 | 35.1 | 36.8 | 37.9 | 39.0 | 39.0 | 35.7 |
| 87.5° | 8.8 | 8.2 | 9.3 | 9.3 | 11.0 | 11.5 | 14.8 | 17.6 | 18.1 | 15.9 | 15.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P334048

CATALOG NUMBER: S123RDW-S1000D935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 | 1282.5 |
| 2.5° | 1255.0 | 1247.9 | 1242.9 | 1232.0 | 1224.8 | 1217.1 | 1209.5 | 1214.4 | 1213.8 | 1213.3 | 1213.3 |
| 5° | 1218.2 | 1205.6 | 1194.1 | 1179.3 | 1169.9 | 1158.4 | 1149.6 | 1148.5 | 1150.7 | 1143.0 | 1138.6 |
| 7.5° | 1183.7 | 1167.2 | 1150.7 | 1135.3 | 1118.3 | 1105.1 | 1096.9 | 1093.6 | 1087.6 | 1082.6 | 1078.2 |
| 10° | 1146.9 | 1126.6 | 1110.6 | 1090.3 | 1071.7 | 1055.2 | 1044.8 | 1037.6 | 1033.8 | 1029.9 | 1022.8 |
| 12.5° | 1109.0 | 1089.2 | 1067.8 | 1044.2 | 1026.6 | 1006.9 | 999.7 | 991.5 | 983.3 | 978.9 | 968.4 |
| 15° | 1072.2 | 1046.4 | 1025.0 | 1000.8 | 981.1 | 962.4 | 951.4 | 935.5 | 933.3 | 927.8 | 917.9 |
| 17.5° | 1036.5 | 1008.0 | 976.7 | 960.2 | 940.4 | 920.7 | 903.1 | 898.2 | 881.7 | 876.2 | 866.9 |
| 20° | 992.6 | 966.8 | 944.3 | 920.7 | 888.3 | 870.2 | 857.0 | 849.9 | 837.2 | 829.5 | 824.1 |
| 22.5° | 954.7 | 928.4 | 901.5 | 872.9 | 847.7 | 826.8 | 818.0 | 805.9 | 800.4 | 788.9 | 782.9 |
| 25° | 919.0 | 890.5 | 859.2 | 829.5 | 810.3 | 795.0 | 779.6 | 769.7 | 759.8 | 754.9 | 743.9 |
| 27.5° | 875.7 | 847.1 | 816.9 | 793.9 | 771.9 | 756.5 | 741.7 | 733.5 | 720.8 | 712.6 | 706.6 |
| 30° | 841.1 | 805.9 | 780.7 | 760.4 | 730.2 | 715.9 | 705.5 | 694.5 | 685.7 | 676.9 | 670.9 |
| 32.5° | 801.0 | 769.7 | 746.1 | 719.7 | 698.3 | 682.4 | 668.1 | 658.8 | 651.7 | 643.4 | 637.4 |
| 35° | 758.7 | 731.8 | 707.1 | 681.9 | 664.8 | 648.9 | 633.0 | 624.8 | 617.6 | 609.9 | 604.5 |
| 37.5° | 720.3 | 695.0 | 672.0 | 647.8 | 627.0 | 613.2 | 600.1 | 594.6 | 584.7 | 579.2 | 573.7 |
| 40° | 685.2 | 660.5 | 635.2 | 612.1 | 590.2 | 580.3 | 568.8 | 559.4 | 550.7 | 546.8 | 540.8 |
| 42.5° | 646.7 | 622.0 | 601.7 | 576.5 | 559.4 | 545.2 | 534.7 | 524.3 | 518.3 | 512.2 | 509.5 |
| 45° | 608.8 | 586.9 | 566.0 | 541.3 | 524.3 | 512.8 | 500.7 | 491.4 | 485.3 | 481.5 | 475.4 |
| 47.5° | 572.6 | 550.1 | 529.2 | 507.3 | 490.8 | 477.6 | 465.0 | 459.0 | 450.7 | 446.3 | 441.9 |
| 50° | 532.5 | 512.8 | 490.3 | 470.5 | 454.0 | 440.9 | 431.0 | 422.7 | 415.6 | 409.6 | 406.8 |
| 52.5° | 495.8 | 474.3 | 455.7 | 437.6 | 420.0 | 404.6 | 395.8 | 387.0 | 382.1 | 375.0 | 371.7 |
| 55° | 454.6 | 434.3 | 417.8 | 399.7 | 382.7 | 370.0 | 359.0 | 351.4 | 345.9 | 338.2 | 333.8 |
| 57.5° | 416.7 | 399.1 | 378.8 | 362.9 | 344.8 | 334.9 | 325.6 | 314.6 | 308.0 | 302.0 | 297.6 |
| 60° | 378.3 | 357.4 | 340.4 | 325.6 | 310.2 | 296.5 | 288.2 | 280.0 | 272.9 | 266.8 | 263.0 |
| 62.5° | 338.2 | 320.6 | 304.7 | 288.2 | 274.5 | 263.0 | 253.1 | 246.5 | 240.5 | 237.2 | 233.3 |
| 65° | 297.0 | 282.7 | 266.3 | 253.1 | 239.9 | 231.1 | 223.4 | 217.4 | 213.0 | 210.3 | 207.0 |
| 67.5° | 259.1 | 245.4 | 230.6 | 216.9 | 208.1 | 200.9 | 195.4 | 190.0 | 187.8 | 184.5 | 182.3 |
| 70° | 222.3 | 208.1 | 195.4 | 185.6 | 176.8 | 171.8 | 168.5 | 164.7 | 162.5 | 158.1 | 155.9 |
| 72.5° | 182.3 | 172.9 | 164.7 | 157.0 | 150.4 | 146.0 | 141.6 | 136.7 | 132.9 | 127.9 | 125.7 |
| 75° | 149.9 | 140.5 | 133.4 | 127.9 | 123.5 | 117.5 | 111.4 | 106.5 | 104.9 | 103.2 | 102.7 |
| 77.5° | 116.9 | 110.9 | 105.4 | 101.0 | 95.0 | 89.5 | 87.8 | 86.7 | 86.2 | 85.1 | 85.1 |
| 80° | 87.3 | 81.8 | 78.0 | 72.5 | 69.2 | 69.2 | 69.2 | 68.1 | 68.6 | 68.6 | 68.6 |
| 82.5° | 59.3 | 54.4 | 52.7 | 51.6 | 51.6 | 52.2 | 52.2 | 52.7 | 52.2 | 53.3 | 52.7 |
| 85° | 33.5 | 34.0 | 35.1 | 34.6 | 35.1 | 35.1 | 36.2 | 35.7 | 36.2 | 35.1 | 36.2 |
| 87.5° | 15.4 | 17.0 | 17.6 | 18.1 | 18.7 | 18.1 | 18.7 | 18.7 | 19.2 | 19.2 | 19.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P334048

CATALOG NUMBER: S123RDW-S1000D935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 1282.5 | 1282.5 | 1282.5 | 1282.5 |
| 2.5° | 1206.7 | 1206.2 | 1206.7 | 1204.5 |
| 5° | 1137.0 | 1136.4 | 1134.8 | 1129.9 |
| 7.5° | 1073.9 | 1072.8 | 1068.4 | 1069.5 |
| 10° | 1019.0 | 1019.5 | 1012.9 | 1009.1 |
| 12.5° | 965.7 | 962.4 | 957.5 | 953.1 |
| 15° | 920.1 | 914.6 | 901.5 | 902.6 |
| 17.5° | 863.6 | 859.2 | 858.6 | 851.0 |
| 20° | 815.3 | 812.5 | 813.6 | 805.9 |
| 22.5° | 777.4 | 774.6 | 768.6 | 767.5 |
| 25° | 740.6 | 736.2 | 731.8 | 734.6 |
| 27.5° | 703.3 | 700.0 | 695.0 | 695.0 |
| 30° | 668.1 | 664.8 | 662.6 | 659.9 |
| 32.5° | 632.5 | 632.5 | 628.1 | 628.1 |
| 35° | 602.3 | 599.0 | 597.9 | 598.4 |
| 37.5° | 573.2 | 568.8 | 566.6 | 564.4 |
| 40° | 541.3 | 536.9 | 535.8 | 534.7 |
| 42.5° | 505.6 | 504.5 | 504.0 | 501.8 |
| 45° | 473.8 | 473.2 | 469.9 | 471.0 |
| 47.5° | 439.8 | 437.0 | 435.4 | 437.0 |
| 50° | 404.6 | 403.5 | 398.6 | 399.7 |
| 52.5° | 369.5 | 364.5 | 363.4 | 362.3 |
| 55° | 330.0 | 325.0 | 322.8 | 321.7 |
| 57.5° | 291.0 | 289.3 | 287.1 | 288.8 |
| 60° | 257.5 | 257.5 | 257.5 | 256.9 |
| 62.5° | 231.7 | 230.0 | 229.5 | 230.6 |
| 65° | 205.3 | 204.8 | 202.6 | 202.0 |
| 67.5° | 181.2 | 179.0 | 179.0 | 177.9 |
| 70° | 153.2 | 152.1 | 148.8 | 149.3 |
| 72.5° | 123.0 | 121.9 | 121.9 | 120.8 |
| 75° | 102.1 | 101.6 | 101.0 | 103.2 |
| 77.5° | 85.1 | 85.1 | 85.6 | 84.5 |
| 80° | 68.6 | 68.6 | 68.1 | 68.1 |
| 82.5° | 51.6 | 52.2 | 52.7 | 51.6 |
| 85° | 36.2 | 35.7 | 36.8 | 36.2 |
| 87.5° | 20.3 | 19.2 | 19.2 | 19.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)