

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: P333102

Luminaire Tested: **S124RDIW-S1195D770U835-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333102
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: S124RDIW-S1195D770U835-4F0-1E-UDD-F1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 770 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7483.6 lumens
Efficiency: N/A
Efficacy: 125.1 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

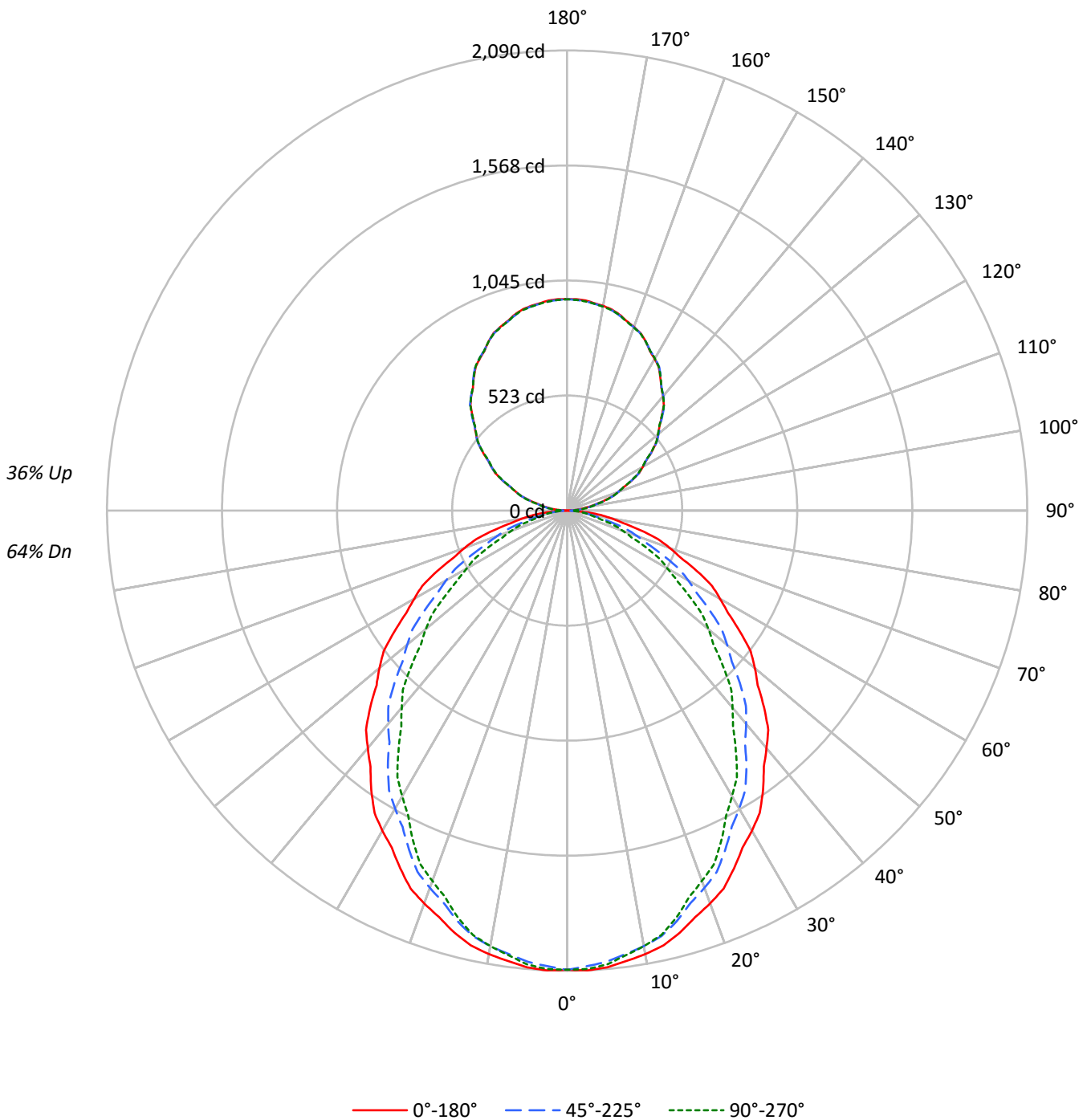
Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333102

CATALOG NUMBER: S124RDIW-S1195D770U835-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P333102

CATALOG NUMBER: S124RDIW-S1195D770U835-4F0-1E-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 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 111 | 111 | 111 | 111 | 104 | 104 | 104 | 104 | 91 | 91 | 91 | 80 | 80 | 80 | 69 | 69 | 69 | 64 | | | | | 64 | | | |
| 1 | 101 | 97 | 93 | 90 | 95 | 91 | 88 | 85 | 81 | 78 | 76 | 71 | 69 | 67 | 62 | 61 | 59 | 55 | | | | | 55 | | | |
| 2 | 93 | 85 | 79 | 74 | 87 | 80 | 75 | 70 | 71 | 67 | 63 | 63 | 60 | 57 | 55 | 53 | 50 | 47 | | | | | 47 | | | |
| 3 | 85 | 75 | 68 | 62 | 79 | 71 | 64 | 59 | 63 | 58 | 54 | 56 | 52 | 48 | 49 | 46 | 43 | 40 | | | | | 40 | | | |
| 4 | 78 | 67 | 59 | 53 | 73 | 63 | 56 | 51 | 56 | 51 | 46 | 50 | 45 | 42 | 44 | 40 | 38 | 34 | | | | | 34 | | | |
| 5 | 71 | 60 | 52 | 46 | 67 | 57 | 49 | 44 | 51 | 45 | 40 | 45 | 40 | 36 | 40 | 36 | 33 | 30 | | | | | 30 | | | |
| 6 | 66 | 54 | 46 | 40 | 62 | 51 | 44 | 38 | 46 | 40 | 35 | 41 | 36 | 32 | 36 | 32 | 29 | 27 | | | | | 27 | | | |
| 7 | 61 | 49 | 41 | 35 | 57 | 46 | 39 | 34 | 42 | 36 | 31 | 37 | 32 | 29 | 33 | 29 | 26 | 24 | | | | | 24 | | | |
| 8 | 57 | 44 | 37 | 31 | 53 | 42 | 35 | 30 | 38 | 32 | 28 | 34 | 29 | 26 | 30 | 26 | 23 | 21 | | | | | 21 | | | |
| 9 | 53 | 41 | 33 | 28 | 50 | 39 | 32 | 27 | 35 | 29 | 25 | 32 | 27 | 23 | 28 | 24 | 21 | 19 | | | | | 19 | | | |
| 10 | 50 | 37 | 30 | 25 | 47 | 36 | 29 | 24 | 32 | 27 | 23 | 29 | 24 | 21 | 26 | 22 | 19 | 18 | | | | | 18 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 16835 | 16835 | 16835 |
| 5° | 16874 | 16667 | 16771 |
| 10° | 16768 | 16467 | 16467 |
| 15° | 16575 | 16121 | 16002 |
| 20° | 16311 | 15667 | 15378 |
| 25° | 15973 | 15134 | 14750 |
| 30° | 15645 | 14573 | 13962 |
| 35° | 15281 | 13991 | 13172 |
| 40° | 14842 | 13328 | 12318 |
| 45° | 14439 | 12670 | 11449 |
| 50° | 13978 | 11912 | 10528 |
| 55° | 13485 | 11125 | 9529 |
| 60° | 12943 | 10261 | 8507 |
| 65° | 12445 | 9181 | 7503 |
| 70° | 11722 | 7990 | 6371 |
| 75° | 10808 | 6625 | 5181 |
| 80° | 9428 | 5049 | 4751 |
| 85° | 7984 | 4585 | 4289 |



TEST NUMBER: P333102

CATALOG NUMBER: S124RDIW-S1195D770U835-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 195.9 | 2.6 |
| 10°-20° | 546.3 | 7.3 |
| 20°-30° | 788.8 | 10.5 |
| 30°-40° | 894.2 | 11.9 |
| 40°-50° | 863.5 | 11.5 |
| 50°-60° | 718.0 | 9.6 |
| 60°-70° | 495.8 | 6.6 |
| 70°-80° | 251.3 | 3.4 |
| 80°-90° | 67.3 | 0.9 |
| 90°-100° | 63.3 | 0.8 |
| 100°-110° | 187.5 | 2.5 |
| 110°-120° | 318.2 | 4.3 |
| 120°-130° | 419.6 | 5.6 |
| 130°-140° | 471.3 | 6.3 |
| 140°-150° | 463.1 | 6.2 |
| 150°-160° | 389.5 | 5.2 |
| 160°-170° | 259.1 | 3.5 |
| 170°-180° | 90.7 | 1.2 |
| 0°-30° | 1531.0 | 20.5 |
| 0°-40° | 2425.2 | 32.4 |
| 0°-60° | 4006.7 | 53.5 |
| 0°-90° | 4821.1 | 64.4 |
| 90°-120° | 569.0 | 7.6 |
| 90°-150° | 1923.1 | 25.7 |
| 90°-180° | 2662.0 | 35.6 |
| 0°-180° | 7483.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2085 | 2085 | 2085 | 2085 | 2085 | |
| 5° | 2082 | 2075 | 2057 | 2072 | 2070 | 197 |
| 15° | 1983 | 1967 | 1929 | 1925 | 1915 | 559 |
| 25° | 1793 | 1762 | 1699 | 1672 | 1656 | 826 |
| 35° | 1550 | 1498 | 1420 | 1367 | 1336 | 968 |
| 45° | 1265 | 1204 | 1110 | 1034 | 1003 | 975 |
| 55° | 958 | 892 | 790 | 710 | 677 | 857 |
| 65° | 652 | 581 | 481 | 415 | 393 | 643 |
| 75° | 346 | 287 | 212 | 177 | 166 | 366 |
| 85° | 86 | 56 | 50 | 46 | 46 | 97 |
| 90° | 2 | 10 | 16 | 21 | 22 | 7 |
| 95° | 44 | 51 | 56 | 58 | 59 | 50 |
| 105° | 173 | 174 | 177 | 179 | 181 | 183 |
| 115° | 324 | 324 | 322 | 321 | 321 | 319 |
| 125° | 471 | 471 | 470 | 469 | 468 | 420 |
| 135° | 608 | 612 | 612 | 611 | 609 | 470 |
| 145° | 738 | 741 | 742 | 741 | 739 | 462 |
| 155° | 846 | 846 | 845 | 848 | 845 | 389 |
| 165° | 921 | 919 | 917 | 921 | 919 | 260 |
| 175° | 958 | 955 | 954 | 958 | 954 | 91 |
| 180° | 960 | 960 | 960 | 960 | 960 | |



TEST NUMBER: P333102

CATALOG NUMBER: S124RDIW-S1195D770U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2085.4 | 2085.4 | 2085.4 | 2085.4 | 2085.4 | 2085.4 | 2085.4 | 2085.4 | 2085.4 | 2085.4 | 2085.4 |
| 2.5° | 2090.5 | 2089.4 | 2088.3 | 2087.1 | 2086.0 | 2083.9 | 2080.8 | 2077.6 | 2074.5 | 2071.4 | 2074.5 |
| 5° | 2082.2 | 2080.8 | 2079.4 | 2078.0 | 2076.6 | 2073.7 | 2069.5 | 2065.2 | 2061.0 | 2056.7 | 2060.2 |
| 7.5° | 2063.4 | 2061.9 | 2060.4 | 2058.9 | 2057.4 | 2053.9 | 2048.4 | 2042.9 | 2037.3 | 2031.8 | 2034.1 |
| 10° | 2045.5 | 2043.7 | 2042.0 | 2040.2 | 2038.4 | 2034.3 | 2028.0 | 2021.6 | 2015.2 | 2008.8 | 2010.2 |
| 12.5° | 2022.5 | 2020.5 | 2018.4 | 2016.3 | 2014.3 | 2009.5 | 2002.0 | 1994.5 | 1986.9 | 1979.4 | 1980.3 |
| 15° | 1983.2 | 1980.0 | 1976.9 | 1973.7 | 1970.5 | 1964.4 | 1955.6 | 1946.7 | 1937.8 | 1928.9 | 1928.2 |
| 17.5° | 1935.7 | 1931.0 | 1926.4 | 1921.8 | 1917.2 | 1909.6 | 1898.9 | 1888.3 | 1877.6 | 1867.0 | 1865.0 |
| 20° | 1898.6 | 1894.0 | 1889.4 | 1884.8 | 1880.2 | 1871.8 | 1859.8 | 1847.7 | 1835.6 | 1823.6 | 1820.7 |
| 22.5° | 1857.7 | 1852.6 | 1847.4 | 1842.2 | 1837.0 | 1828.0 | 1815.0 | 1802.1 | 1789.2 | 1776.3 | 1772.0 |
| 25° | 1793.2 | 1786.8 | 1780.4 | 1774.1 | 1767.7 | 1757.2 | 1742.7 | 1728.1 | 1713.6 | 1699.0 | 1693.0 |
| 27.5° | 1725.5 | 1717.5 | 1709.5 | 1701.5 | 1693.4 | 1681.7 | 1666.1 | 1650.6 | 1635.0 | 1619.5 | 1612.0 |
| 30° | 1678.3 | 1669.4 | 1660.5 | 1651.6 | 1642.8 | 1630.0 | 1613.3 | 1596.6 | 1580.0 | 1563.3 | 1554.4 |
| 32.5° | 1628.4 | 1618.4 | 1608.4 | 1598.4 | 1588.4 | 1574.8 | 1557.5 | 1540.3 | 1523.0 | 1505.8 | 1495.5 |
| 35° | 1550.5 | 1539.1 | 1527.8 | 1516.4 | 1505.1 | 1490.5 | 1472.8 | 1455.1 | 1437.3 | 1419.6 | 1407.5 |
| 37.5° | 1467.2 | 1455.4 | 1443.7 | 1432.0 | 1420.3 | 1404.6 | 1385.0 | 1365.3 | 1345.7 | 1326.0 | 1312.5 |
| 40° | 1408.4 | 1396.7 | 1385.0 | 1373.3 | 1361.5 | 1345.6 | 1325.4 | 1305.1 | 1284.9 | 1264.7 | 1249.8 |
| 42.5° | 1352.2 | 1339.9 | 1327.6 | 1315.3 | 1303.1 | 1286.4 | 1265.3 | 1244.2 | 1223.2 | 1202.1 | 1186.9 |
| 45° | 1264.7 | 1251.5 | 1238.4 | 1225.3 | 1212.2 | 1194.9 | 1173.7 | 1152.4 | 1131.1 | 1109.8 | 1092.4 |
| 47.5° | 1174.3 | 1160.7 | 1147.2 | 1133.6 | 1120.1 | 1102.2 | 1080.1 | 1057.9 | 1035.8 | 1013.7 | 995.6 |
| 50° | 1113.0 | 1099.1 | 1085.3 | 1071.5 | 1057.6 | 1039.3 | 1016.6 | 993.9 | 971.2 | 948.5 | 930.8 |
| 52.5° | 1050.4 | 1036.8 | 1023.3 | 1009.7 | 996.2 | 977.7 | 954.5 | 931.2 | 907.9 | 884.6 | 866.6 |
| 55° | 958.1 | 943.9 | 929.7 | 915.5 | 901.3 | 882.7 | 859.6 | 836.6 | 813.5 | 790.4 | 772.0 |
| 57.5° | 866.7 | 852.0 | 837.2 | 822.5 | 807.7 | 789.0 | 766.3 | 743.5 | 720.8 | 698.1 | 679.4 |
| 60° | 801.6 | 787.4 | 773.2 | 759.0 | 744.8 | 726.4 | 703.7 | 681.0 | 658.2 | 635.5 | 617.1 |
| 62.5° | 742.8 | 728.1 | 713.3 | 698.6 | 683.8 | 664.8 | 641.5 | 618.2 | 594.9 | 571.7 | 554.6 |
| 65° | 651.5 | 636.2 | 621.0 | 605.7 | 590.5 | 571.5 | 548.8 | 526.1 | 503.4 | 480.6 | 465.4 |
| 67.5° | 556.6 | 542.0 | 527.4 | 512.8 | 498.2 | 480.3 | 459.2 | 438.2 | 417.1 | 396.0 | 382.9 |
| 70° | 496.6 | 481.7 | 466.8 | 451.9 | 437.0 | 419.4 | 399.2 | 379.0 | 358.8 | 338.5 | 326.8 |
| 72.5° | 432.7 | 419.3 | 405.8 | 392.3 | 378.8 | 362.5 | 343.4 | 324.3 | 305.2 | 286.1 | 276.1 |
| 75° | 346.5 | 333.4 | 320.2 | 307.1 | 294.0 | 279.1 | 262.4 | 245.7 | 229.1 | 212.4 | 204.2 |
| 77.5° | 259.0 | 247.9 | 236.7 | 225.6 | 214.4 | 202.1 | 188.6 | 175.2 | 161.7 | 148.2 | 143.4 |
| 80° | 202.8 | 192.5 | 182.2 | 171.9 | 161.6 | 151.2 | 140.5 | 129.9 | 119.2 | 108.6 | 107.5 |
| 82.5° | 154.3 | 144.8 | 135.4 | 125.9 | 116.5 | 108.7 | 102.6 | 96.5 | 90.4 | 84.3 | 83.5 |
| 85° | 86.2 | 79.1 | 72.0 | 64.9 | 57.8 | 53.8 | 52.7 | 51.6 | 50.6 | 49.5 | 48.8 |
| 87.5° | 29.8 | 27.9 | 26.0 | 24.1 | 22.2 | 21.2 | 21.2 | 21.2 | 21.2 | 21.1 | 21.1 |
| 90° | 2.2 | 4.0 | 5.9 | 7.7 | 9.5 | 11.1 | 12.4 | 13.7 | 15.0 | 16.3 | 17.3 |
| 92.5° | 15.9 | 18.0 | 20.0 | 22.1 | 24.2 | 25.7 | 26.6 | 27.5 | 28.5 | 29.4 | 30.0 |
| 95° | 44.5 | 46.0 | 47.5 | 49.0 | 50.5 | 51.8 | 52.9 | 54.1 | 55.3 | 56.4 | 56.9 |
| 97.5° | 77.8 | 79.0 | 80.2 | 81.3 | 82.5 | 83.8 | 85.2 | 86.5 | 87.9 | 89.2 | 89.8 |
| 100° | 103.9 | 104.6 | 105.2 | 105.9 | 106.5 | 107.6 | 109.1 | 110.6 | 112.1 | 113.6 | 113.9 |
| 102.5° | 131.2 | 131.5 | 131.7 | 132.0 | 132.3 | 133.1 | 134.4 | 135.8 | 137.1 | 138.5 | 139.0 |
| 105° | 172.9 | 173.1 | 173.3 | 173.4 | 173.6 | 174.0 | 174.7 | 175.3 | 176.0 | 176.6 | 177.1 |
| 107.5° | 216.7 | 216.9 | 217.1 | 217.3 | 217.5 | 217.7 | 217.8 | 217.9 | 218.0 | 218.1 | 218.5 |
| 110° | 246.4 | 246.7 | 247.1 | 247.4 | 247.7 | 247.8 | 247.6 | 247.5 | 247.3 | 247.1 | 246.8 |



TEST NUMBER: P333102

CATALOG NUMBER: S124RDIW-S1195D770U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 277.3 | 277.3 | 277.4 | 277.5 | 277.5 | 277.4 | 277.1 | 276.8 | 276.5 | 276.2 | 276.2 |
| 115° | 323.6 | 323.6 | 323.6 | 323.6 | 323.6 | 323.4 | 323.1 | 322.8 | 322.4 | 322.1 | 321.9 |
| 117.5° | 367.2 | 367.4 | 367.5 | 367.6 | 367.8 | 367.7 | 367.5 | 367.3 | 367.0 | 366.8 | 366.2 |
| 120° | 396.3 | 397.0 | 397.6 | 398.3 | 399.0 | 399.0 | 398.6 | 398.1 | 397.6 | 397.1 | 396.2 |
| 122.5° | 426.6 | 426.9 | 427.1 | 427.4 | 427.7 | 427.7 | 427.5 | 427.2 | 427.0 | 426.8 | 426.2 |
| 125° | 471.3 | 471.3 | 471.3 | 471.3 | 471.3 | 471.2 | 471.0 | 470.9 | 470.7 | 470.5 | 470.2 |
| 127.5° | 511.8 | 512.3 | 512.8 | 513.3 | 513.8 | 513.9 | 513.6 | 513.4 | 513.1 | 512.9 | 512.5 |
| 130° | 540.3 | 540.8 | 541.3 | 541.8 | 542.3 | 542.5 | 542.5 | 542.5 | 542.5 | 542.5 | 542.2 |
| 132.5° | 569.4 | 569.8 | 570.1 | 570.5 | 570.9 | 571.0 | 570.8 | 570.7 | 570.6 | 570.4 | 570.1 |
| 135° | 607.9 | 608.8 | 609.8 | 610.8 | 611.8 | 612.3 | 612.3 | 612.3 | 612.3 | 612.3 | 612.0 |
| 137.5° | 649.7 | 650.2 | 650.6 | 651.1 | 651.6 | 651.9 | 652.2 | 652.4 | 652.7 | 653.0 | 652.5 |
| 140° | 677.6 | 677.9 | 678.3 | 678.6 | 678.9 | 679.1 | 679.1 | 679.1 | 679.1 | 679.1 | 678.9 |
| 142.5° | 703.1 | 703.5 | 703.8 | 704.1 | 704.5 | 704.6 | 704.4 | 704.3 | 704.2 | 704.0 | 704.0 |
| 145° | 738.5 | 739.1 | 739.8 | 740.5 | 741.1 | 741.5 | 741.7 | 741.9 | 742.0 | 742.2 | 742.0 |
| 147.5° | 773.5 | 774.3 | 775.1 | 775.9 | 776.7 | 777.0 | 776.9 | 776.7 | 776.6 | 776.5 | 776.3 |
| 150° | 794.9 | 795.5 | 796.2 | 796.9 | 797.5 | 797.9 | 797.9 | 797.9 | 797.9 | 797.9 | 797.9 |
| 152.5° | 815.1 | 815.5 | 815.9 | 816.3 | 816.7 | 816.9 | 817.0 | 817.2 | 817.3 | 817.4 | 817.8 |
| 155° | 846.1 | 846.1 | 846.1 | 846.1 | 846.1 | 846.0 | 845.8 | 845.7 | 845.5 | 845.4 | 846.0 |
| 157.5° | 872.2 | 871.9 | 871.6 | 871.3 | 871.0 | 870.9 | 870.8 | 870.8 | 870.8 | 870.7 | 871.2 |
| 160° | 887.7 | 887.5 | 887.3 | 887.2 | 887.0 | 886.8 | 886.7 | 886.5 | 886.3 | 886.2 | 886.7 |
| 162.5° | 901.9 | 901.5 | 901.0 | 900.6 | 900.2 | 899.9 | 899.7 | 899.6 | 899.4 | 899.2 | 900.1 |
| 165° | 921.1 | 920.6 | 920.1 | 919.6 | 919.1 | 918.7 | 918.3 | 918.0 | 917.7 | 917.3 | 918.3 |
| 167.5° | 935.7 | 935.1 | 934.4 | 933.7 | 933.0 | 932.6 | 932.7 | 932.7 | 932.7 | 932.8 | 933.8 |
| 170° | 944.1 | 943.2 | 942.4 | 941.6 | 940.8 | 940.4 | 940.6 | 940.8 | 940.9 | 941.1 | 942.1 |
| 172.5° | 950.0 | 949.3 | 948.6 | 947.9 | 947.2 | 946.9 | 946.9 | 947.0 | 947.0 | 947.0 | 948.2 |
| 175° | 958.2 | 957.3 | 956.5 | 955.7 | 954.9 | 954.4 | 954.2 | 954.0 | 953.9 | 953.7 | 954.9 |
| 177.5° | 960.8 | 960.2 | 959.5 | 958.9 | 958.2 | 957.9 | 957.9 | 957.9 | 957.9 | 957.9 | 958.8 |
| 180° | 959.6 | 959.6 | 959.6 | 959.6 | 959.6 | 959.6 | 959.6 | 959.6 | 959.6 | 959.6 | 959.6 |



TEST NUMBER: P333102

CATALOG NUMBER: S124RDIW-S1195D770U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2085.4 | 2085.4 | 2085.4 | 2085.4 | 2085.4 | 2085.4 | 2085.4 | 2085.4 |
| 2.5° | 2077.6 | 2080.8 | 2083.9 | 2085.3 | 2085.0 | 2084.7 | 2084.4 | 2084.2 |
| 5° | 2063.8 | 2067.3 | 2070.9 | 2072.3 | 2071.6 | 2070.9 | 2070.2 | 2069.5 |
| 7.5° | 2036.3 | 2038.6 | 2040.9 | 2041.4 | 2040.3 | 2039.2 | 2038.0 | 2036.9 |
| 10° | 2011.6 | 2013.0 | 2014.5 | 2014.5 | 2013.0 | 2011.6 | 2010.2 | 2008.8 |
| 12.5° | 1981.1 | 1982.0 | 1982.8 | 1982.2 | 1980.3 | 1978.3 | 1976.3 | 1974.3 |
| 15° | 1927.5 | 1926.8 | 1926.1 | 1924.5 | 1922.0 | 1919.5 | 1917.1 | 1914.6 |
| 17.5° | 1863.0 | 1861.0 | 1859.0 | 1856.2 | 1852.4 | 1848.6 | 1844.9 | 1841.1 |
| 20° | 1817.9 | 1815.0 | 1812.2 | 1808.5 | 1803.9 | 1799.3 | 1794.6 | 1790.0 |
| 22.5° | 1767.8 | 1763.5 | 1759.3 | 1755.3 | 1751.5 | 1747.7 | 1744.0 | 1740.2 |
| 25° | 1686.9 | 1680.9 | 1674.9 | 1670.1 | 1666.5 | 1663.0 | 1659.4 | 1655.9 |
| 27.5° | 1604.6 | 1597.1 | 1589.7 | 1583.4 | 1578.3 | 1573.2 | 1568.1 | 1563.0 |
| 30° | 1545.5 | 1536.7 | 1527.8 | 1520.5 | 1514.8 | 1509.2 | 1503.5 | 1497.8 |
| 32.5° | 1485.2 | 1474.9 | 1464.6 | 1456.8 | 1451.4 | 1446.0 | 1440.6 | 1435.2 |
| 35° | 1395.4 | 1383.4 | 1371.3 | 1362.1 | 1355.7 | 1349.3 | 1342.9 | 1336.5 |
| 37.5° | 1299.0 | 1285.5 | 1272.1 | 1262.1 | 1255.7 | 1249.3 | 1243.0 | 1236.6 |
| 40° | 1234.9 | 1220.0 | 1205.1 | 1194.4 | 1188.0 | 1181.6 | 1175.3 | 1168.9 |
| 42.5° | 1171.7 | 1156.5 | 1141.3 | 1130.4 | 1123.7 | 1117.1 | 1110.4 | 1103.7 |
| 45° | 1075.0 | 1057.6 | 1040.2 | 1028.3 | 1022.0 | 1015.6 | 1009.2 | 1002.8 |
| 47.5° | 977.6 | 959.6 | 941.6 | 929.0 | 922.0 | 915.0 | 907.9 | 900.9 |
| 50° | 913.0 | 895.3 | 877.5 | 865.3 | 858.6 | 851.8 | 845.1 | 838.3 |
| 52.5° | 848.6 | 830.6 | 812.5 | 800.0 | 793.0 | 786.0 | 778.9 | 771.9 |
| 55° | 753.5 | 735.1 | 716.6 | 704.0 | 697.3 | 690.5 | 683.8 | 677.0 |
| 57.5° | 660.7 | 641.9 | 623.2 | 611.3 | 606.2 | 601.0 | 595.9 | 590.8 |
| 60° | 598.6 | 580.2 | 561.7 | 549.7 | 544.0 | 538.3 | 532.6 | 526.9 |
| 62.5° | 537.6 | 520.6 | 503.5 | 492.7 | 488.2 | 483.7 | 479.1 | 474.6 |
| 65° | 450.1 | 434.9 | 419.6 | 409.8 | 405.6 | 401.3 | 397.1 | 392.8 |
| 67.5° | 369.8 | 356.6 | 343.5 | 334.6 | 329.9 | 325.2 | 320.5 | 315.8 |
| 70° | 315.1 | 303.4 | 291.7 | 284.1 | 280.5 | 277.0 | 273.4 | 269.9 |
| 72.5° | 266.1 | 256.1 | 246.1 | 239.5 | 236.2 | 233.0 | 229.7 | 226.4 |
| 75° | 196.1 | 187.9 | 179.7 | 174.6 | 172.5 | 170.3 | 168.2 | 166.1 |
| 77.5° | 138.7 | 133.9 | 129.2 | 126.5 | 125.8 | 125.2 | 124.6 | 123.9 |
| 80° | 106.5 | 105.4 | 104.3 | 103.6 | 103.3 | 102.9 | 102.6 | 102.2 |
| 82.5° | 82.8 | 82.0 | 81.2 | 80.6 | 80.3 | 79.9 | 79.6 | 79.2 |
| 85° | 48.1 | 47.4 | 46.7 | 46.3 | 46.3 | 46.3 | 46.3 | 46.3 |
| 87.5° | 21.0 | 20.9 | 20.8 | 20.9 | 21.3 | 21.6 | 22.0 | 22.3 |
| 90° | 18.3 | 19.3 | 20.3 | 20.9 | 21.3 | 21.6 | 21.9 | 22.3 |
| 92.5° | 30.6 | 31.2 | 31.8 | 32.2 | 32.4 | 32.6 | 32.8 | 33.0 |
| 95° | 57.4 | 57.9 | 58.4 | 58.6 | 58.6 | 58.6 | 58.6 | 58.6 |
| 97.5° | 90.4 | 91.0 | 91.6 | 91.9 | 91.9 | 91.9 | 91.9 | 91.9 |
| 100° | 114.2 | 114.5 | 114.9 | 115.0 | 115.0 | 115.0 | 115.0 | 115.0 |
| 102.5° | 139.4 | 139.9 | 140.3 | 140.6 | 140.8 | 140.9 | 141.0 | 141.2 |
| 105° | 177.6 | 178.1 | 178.6 | 179.1 | 179.6 | 180.1 | 180.6 | 181.1 |
| 107.5° | 219.0 | 219.4 | 219.9 | 220.1 | 220.1 | 220.1 | 220.0 | 220.0 |
| 110° | 246.5 | 246.2 | 245.8 | 245.9 | 246.4 | 246.9 | 247.4 | 247.9 |



TEST NUMBER: P333102

CATALOG NUMBER: S124RDIW-S1195D770U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 276.1 | 276.0 | 276.0 | 276.0 | 276.1 | 276.2 | 276.3 | 276.4 |
| 115° | 321.8 | 321.6 | 321.4 | 321.3 | 321.1 | 321.0 | 320.8 | 320.6 |
| 117.5° | 365.7 | 365.1 | 364.5 | 364.1 | 363.8 | 363.4 | 363.1 | 362.8 |
| 120° | 395.4 | 394.6 | 393.8 | 393.5 | 393.9 | 394.2 | 394.5 | 394.8 |
| 122.5° | 425.6 | 425.1 | 424.5 | 423.9 | 423.3 | 422.7 | 422.2 | 421.6 |
| 125° | 469.9 | 469.6 | 469.2 | 468.9 | 468.6 | 468.2 | 467.9 | 467.6 |
| 127.5° | 512.2 | 511.9 | 511.5 | 511.2 | 511.0 | 510.7 | 510.4 | 510.2 |
| 130° | 541.9 | 541.5 | 541.2 | 540.7 | 540.1 | 539.4 | 538.7 | 538.1 |
| 132.5° | 569.8 | 569.5 | 569.1 | 568.8 | 568.6 | 568.3 | 568.0 | 567.8 |
| 135° | 611.6 | 611.3 | 611.0 | 610.6 | 610.1 | 609.6 | 609.1 | 608.6 |
| 137.5° | 652.1 | 651.7 | 651.3 | 651.1 | 651.2 | 651.3 | 651.4 | 651.5 |
| 140° | 678.8 | 678.6 | 678.4 | 678.3 | 678.1 | 677.9 | 677.8 | 677.6 |
| 142.5° | 704.0 | 703.9 | 703.9 | 703.9 | 703.8 | 703.8 | 703.8 | 703.7 |
| 145° | 741.9 | 741.7 | 741.5 | 741.2 | 740.7 | 740.2 | 739.7 | 739.2 |
| 147.5° | 776.2 | 776.1 | 775.9 | 775.8 | 775.6 | 775.5 | 775.3 | 775.1 |
| 150° | 797.9 | 797.9 | 797.9 | 797.8 | 797.6 | 797.4 | 797.3 | 797.1 |
| 152.5° | 818.2 | 818.6 | 819.0 | 819.0 | 818.6 | 818.2 | 817.7 | 817.3 |
| 155° | 846.7 | 847.3 | 848.0 | 848.0 | 847.3 | 846.7 | 846.0 | 845.4 |
| 157.5° | 871.7 | 872.2 | 872.7 | 872.7 | 872.1 | 871.6 | 871.0 | 870.4 |
| 160° | 887.2 | 887.7 | 888.2 | 888.0 | 887.2 | 886.3 | 885.5 | 884.7 |
| 162.5° | 901.0 | 901.9 | 902.8 | 902.8 | 902.0 | 901.2 | 900.4 | 899.5 |
| 165° | 919.3 | 920.3 | 921.3 | 921.5 | 920.8 | 920.1 | 919.5 | 918.8 |
| 167.5° | 934.8 | 935.7 | 936.7 | 936.7 | 935.7 | 934.7 | 933.7 | 932.6 |
| 170° | 943.1 | 944.1 | 945.1 | 945.0 | 943.8 | 942.7 | 941.5 | 940.4 |
| 172.5° | 949.3 | 950.4 | 951.5 | 951.5 | 950.3 | 949.2 | 948.0 | 946.9 |
| 175° | 956.0 | 957.2 | 958.3 | 958.3 | 957.2 | 956.0 | 954.9 | 953.7 |
| 177.5° | 959.7 | 960.6 | 961.6 | 961.5 | 960.4 | 959.4 | 958.3 | 957.3 |
| 180° | 959.6 | 959.6 | 959.6 | 959.6 | 959.6 | 959.6 | 959.6 | 959.6 |

(END OF REPORT)