

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: P333114

Luminaire Tested: **S124RDIW-S1195D1560U835-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333114
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-S1195D1560U835-4F0-1E-UDD-F1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 1560 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10233.2 lumens
Efficiency: N/A
Efficacy: 123.4 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: General Diffuse

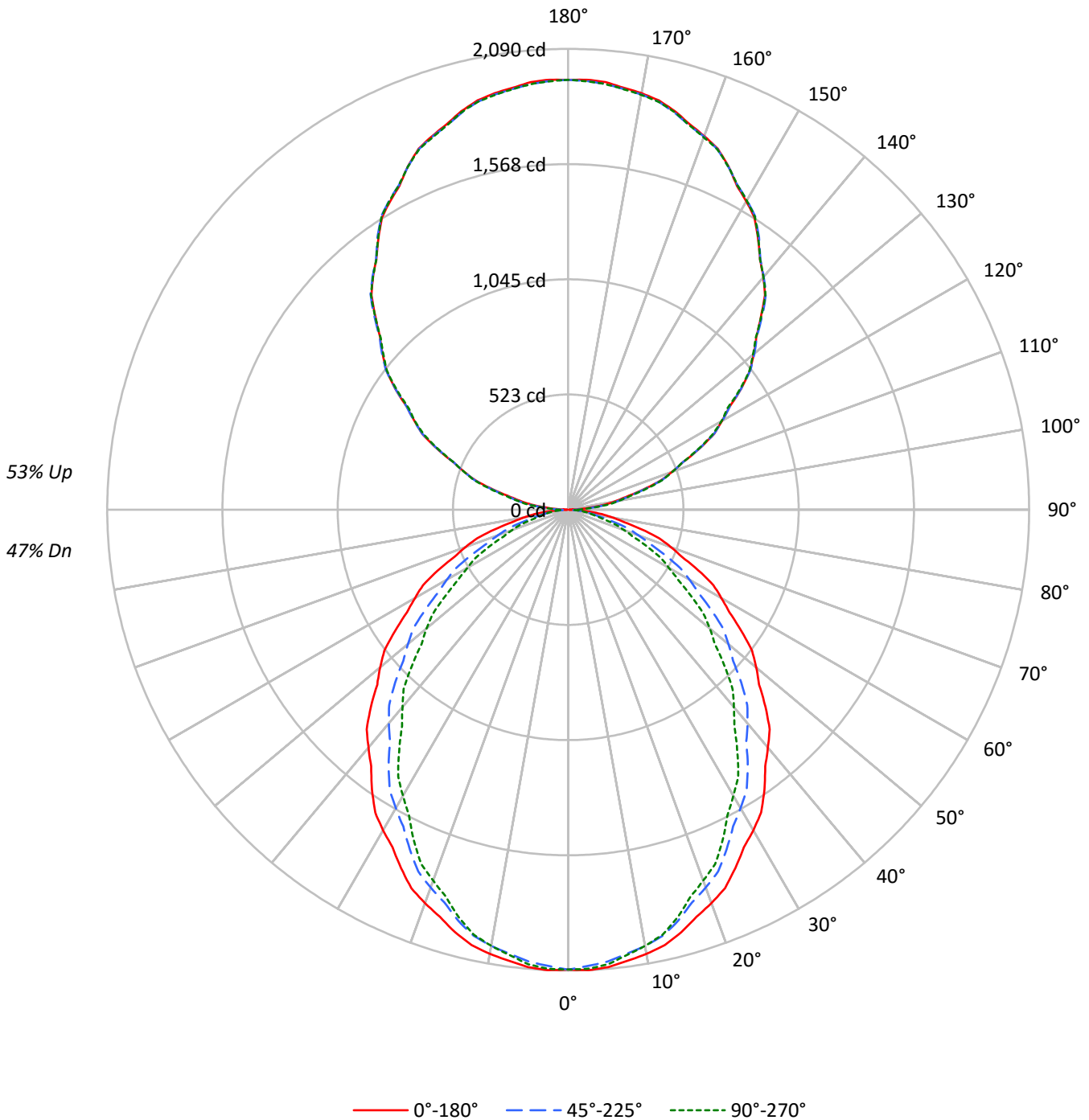
Input Watts (W): 82.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333114

CATALOG NUMBER: S124RDIW-S1195D1560U835-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P333114

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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 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 106 | 106 | 106 | 106 | 98 | 98 | 98 | 98 | 82 | 82 | 82 | 67 | 67 | 67 | 53 | 53 | 53 | 47 | | | | | 47 | | | |
| 1 | 97 | 93 | 89 | 86 | 89 | 86 | 83 | 80 | 72 | 70 | 68 | 59 | 58 | 56 | 48 | 47 | 46 | | | | | 40 | | | | |
| 2 | 89 | 82 | 76 | 71 | 81 | 75 | 70 | 66 | 63 | 60 | 56 | 52 | 50 | 47 | 42 | 40 | 39 | | | | | 34 | | | | |
| 3 | 81 | 72 | 65 | 59 | 74 | 66 | 60 | 55 | 56 | 51 | 48 | 47 | 43 | 40 | 38 | 35 | 33 | | | | | 29 | | | | |
| 4 | 74 | 64 | 56 | 50 | 68 | 59 | 52 | 47 | 50 | 45 | 41 | 42 | 38 | 35 | 34 | 31 | 29 | | | | | 25 | | | | |
| 5 | 68 | 57 | 49 | 43 | 63 | 53 | 46 | 40 | 45 | 39 | 35 | 37 | 33 | 30 | 31 | 28 | 25 | | | | | 22 | | | | |
| 6 | 63 | 51 | 43 | 37 | 58 | 47 | 40 | 35 | 40 | 35 | 31 | 34 | 30 | 27 | 28 | 25 | 22 | | | | | 19 | | | | |
| 7 | 58 | 46 | 38 | 33 | 53 | 43 | 36 | 31 | 37 | 31 | 27 | 31 | 27 | 24 | 25 | 22 | 20 | | | | | 17 | | | | |
| 8 | 54 | 42 | 34 | 29 | 50 | 39 | 32 | 27 | 33 | 28 | 24 | 28 | 24 | 21 | 23 | 20 | 18 | | | | | 16 | | | | |
| 9 | 50 | 38 | 31 | 26 | 46 | 36 | 29 | 25 | 31 | 25 | 22 | 26 | 22 | 19 | 22 | 18 | 16 | | | | | 14 | | | | |
| 10 | 47 | 35 | 28 | 23 | 43 | 33 | 26 | 22 | 28 | 23 | 20 | 24 | 20 | 17 | 20 | 17 | 15 | | | | | 13 | | | | |

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 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 195.9 | 1.9 |
| 10°-20° | 546.3 | 5.3 |
| 20°-30° | 788.8 | 7.7 |
| 30°-40° | 894.2 | 8.7 |
| 40°-50° | 863.5 | 8.4 |
| 50°-60° | 718.0 | 7.0 |
| 60°-70° | 495.8 | 4.8 |
| 70°-80° | 251.3 | 2.5 |
| 80°-90° | 70.3 | 0.7 |
| 90°-100° | 128.6 | 1.3 |
| 100°-110° | 380.9 | 3.7 |
| 110°-120° | 646.6 | 6.3 |
| 120°-130° | 852.5 | 8.3 |
| 130°-140° | 957.5 | 9.4 |
| 140°-150° | 940.9 | 9.2 |
| 150°-160° | 791.3 | 7.7 |
| 160°-170° | 526.5 | 5.1 |
| 170°-180° | 184.4 | 1.8 |
| 0°-30° | 1531.0 | 15.0 |
| 0°-40° | 2425.2 | 23.7 |
| 0°-60° | 4006.7 | 39.2 |
| 0°-90° | 4824.1 | 47.1 |
| 90°-120° | 1156.1 | 11.3 |
| 90°-150° | 3906.9 | 38.2 |
| 90°-180° | 5409.0 | 52.9 |
| 0°-180° | 10233.2 | 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° | 4 | 21 | 33 | 42 | 45 | 10 |
| 95° | 90 | 104 | 115 | 119 | 119 | 101 |
| 105° | 351 | 353 | 359 | 363 | 368 | 373 |
| 115° | 657 | 657 | 654 | 653 | 651 | 648 |
| 125° | 958 | 957 | 956 | 953 | 950 | 853 |
| 135° | 1235 | 1244 | 1244 | 1241 | 1236 | 955 |
| 145° | 1500 | 1506 | 1508 | 1506 | 1502 | 939 |
| 155° | 1719 | 1719 | 1717 | 1723 | 1717 | 791 |
| 165° | 1871 | 1867 | 1864 | 1872 | 1867 | 527 |
| 175° | 1947 | 1939 | 1938 | 1947 | 1938 | 185 |
| 180° | 1950 | 1950 | 1950 | 1950 | 1950 | |



TEST NUMBER: P333114

CATALOG NUMBER: S124RDIW-S1195D1560U835-4F0-1E-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° | 30.3 | 28.8 | 27.2 | 25.7 | 24.2 | 23.5 | 23.8 | 24.0 | 24.3 | 24.5 | 24.6 |
| 90° | 4.5 | 8.2 | 11.9 | 15.6 | 19.3 | 22.5 | 25.1 | 27.8 | 30.5 | 33.2 | 35.2 |
| 92.5° | 32.3 | 36.5 | 40.7 | 44.9 | 49.2 | 52.2 | 54.1 | 56.0 | 57.8 | 59.7 | 60.9 |
| 95° | 90.5 | 93.5 | 96.5 | 99.5 | 102.5 | 105.2 | 107.6 | 109.9 | 112.3 | 114.6 | 115.6 |
| 97.5° | 158.0 | 160.4 | 162.8 | 165.3 | 167.7 | 170.3 | 173.0 | 175.7 | 178.5 | 181.2 | 182.4 |
| 100° | 211.1 | 212.4 | 213.8 | 215.1 | 216.5 | 218.6 | 221.7 | 224.7 | 227.7 | 230.7 | 231.4 |
| 102.5° | 266.6 | 267.1 | 267.7 | 268.2 | 268.7 | 270.4 | 273.1 | 275.9 | 278.6 | 281.4 | 282.3 |
| 105° | 351.3 | 351.7 | 352.0 | 352.3 | 352.7 | 353.5 | 354.8 | 356.2 | 357.5 | 358.9 | 359.9 |
| 107.5° | 440.3 | 440.7 | 441.1 | 441.5 | 441.9 | 442.2 | 442.4 | 442.6 | 442.8 | 443.0 | 443.9 |
| 110° | 500.6 | 501.3 | 501.9 | 502.6 | 503.3 | 503.5 | 503.1 | 502.8 | 502.4 | 502.1 | 501.4 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 563.3 | 563.5 | 563.6 | 563.7 | 563.9 | 563.6 | 563.0 | 562.4 | 561.8 | 561.2 | 561.1 |
| 115° | 657.4 | 657.4 | 657.4 | 657.4 | 657.4 | 657.1 | 656.4 | 655.7 | 655.1 | 654.4 | 654.1 |
| 117.5° | 746.1 | 746.3 | 746.6 | 746.9 | 747.2 | 747.1 | 746.6 | 746.1 | 745.6 | 745.2 | 744.0 |
| 120° | 805.2 | 806.5 | 807.9 | 809.2 | 810.5 | 810.7 | 809.7 | 808.7 | 807.7 | 806.7 | 805.0 |
| 122.5° | 866.7 | 867.2 | 867.8 | 868.3 | 868.8 | 868.9 | 868.4 | 867.9 | 867.5 | 867.0 | 865.9 |
| 125° | 957.5 | 957.5 | 957.5 | 957.5 | 957.5 | 957.3 | 957.0 | 956.6 | 956.3 | 956.0 | 955.3 |
| 127.5° | 1039.8 | 1040.8 | 1041.8 | 1042.8 | 1043.8 | 1044.1 | 1043.5 | 1043.0 | 1042.5 | 1041.9 | 1041.2 |
| 130° | 1097.7 | 1098.7 | 1099.7 | 1100.7 | 1101.7 | 1102.2 | 1102.2 | 1102.2 | 1102.2 | 1102.2 | 1101.6 |
| 132.5° | 1156.8 | 1157.6 | 1158.3 | 1159.0 | 1159.8 | 1160.0 | 1159.7 | 1159.5 | 1159.2 | 1158.9 | 1158.3 |
| 135° | 1234.9 | 1236.9 | 1238.9 | 1241.0 | 1243.0 | 1244.0 | 1244.0 | 1244.0 | 1244.0 | 1244.0 | 1243.3 |
| 137.5° | 1320.0 | 1320.9 | 1321.8 | 1322.8 | 1323.7 | 1324.5 | 1325.0 | 1325.5 | 1326.1 | 1326.6 | 1325.7 |
| 140° | 1376.7 | 1377.3 | 1378.0 | 1378.7 | 1379.3 | 1379.7 | 1379.7 | 1379.7 | 1379.7 | 1379.7 | 1379.3 |
| 142.5° | 1428.5 | 1429.2 | 1429.9 | 1430.5 | 1431.2 | 1431.4 | 1431.1 | 1430.9 | 1430.6 | 1430.3 | 1430.3 |
| 145° | 1500.3 | 1501.6 | 1503.0 | 1504.3 | 1505.7 | 1506.5 | 1506.8 | 1507.2 | 1507.5 | 1507.8 | 1507.5 |
| 147.5° | 1571.5 | 1573.1 | 1574.7 | 1576.3 | 1577.9 | 1578.6 | 1578.3 | 1578.0 | 1577.8 | 1577.5 | 1577.2 |
| 150° | 1614.9 | 1616.2 | 1617.6 | 1618.9 | 1620.3 | 1620.9 | 1620.9 | 1620.9 | 1620.9 | 1620.9 | 1620.9 |
| 152.5° | 1655.9 | 1656.7 | 1657.5 | 1658.3 | 1659.1 | 1659.7 | 1659.9 | 1660.2 | 1660.5 | 1660.7 | 1661.5 |
| 155° | 1718.9 | 1718.9 | 1718.9 | 1718.9 | 1718.9 | 1718.8 | 1718.4 | 1718.1 | 1717.8 | 1717.4 | 1718.8 |
| 157.5° | 1772.0 | 1771.4 | 1770.8 | 1770.2 | 1769.6 | 1769.3 | 1769.2 | 1769.1 | 1769.1 | 1769.0 | 1770.0 |
| 160° | 1803.4 | 1803.0 | 1802.7 | 1802.4 | 1802.0 | 1801.7 | 1801.4 | 1801.0 | 1800.7 | 1800.4 | 1801.4 |
| 162.5° | 1832.3 | 1831.5 | 1830.6 | 1829.7 | 1828.8 | 1828.2 | 1827.9 | 1827.6 | 1827.2 | 1826.9 | 1828.7 |
| 165° | 1871.2 | 1870.2 | 1869.2 | 1868.2 | 1867.2 | 1866.4 | 1865.7 | 1865.0 | 1864.4 | 1863.7 | 1865.7 |
| 167.5° | 1901.1 | 1899.7 | 1898.3 | 1896.9 | 1895.5 | 1894.8 | 1894.9 | 1894.9 | 1895.0 | 1895.1 | 1897.1 |
| 170° | 1918.0 | 1916.3 | 1914.6 | 1912.9 | 1911.3 | 1910.6 | 1910.9 | 1911.3 | 1911.6 | 1911.9 | 1913.9 |
| 172.5° | 1930.0 | 1928.6 | 1927.2 | 1925.8 | 1924.4 | 1923.7 | 1923.8 | 1923.9 | 1923.9 | 1924.0 | 1926.3 |
| 175° | 1946.6 | 1944.9 | 1943.3 | 1941.6 | 1939.9 | 1938.9 | 1938.6 | 1938.2 | 1937.9 | 1937.6 | 1939.9 |
| 177.5° | 1952.0 | 1950.7 | 1949.4 | 1948.0 | 1946.7 | 1946.0 | 1946.0 | 1946.0 | 1946.0 | 1946.0 | 1947.9 |
| 180° | 1949.6 | 1949.6 | 1949.6 | 1949.6 | 1949.6 | 1949.6 | 1949.6 | 1949.6 | 1949.6 | 1949.6 | 1949.6 |



TEST NUMBER: P333114

CATALOG NUMBER: S124RDIW-S1195D1560U835-4F0-1E-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° | 24.8 | 24.9 | 25.0 | 25.3 | 25.7 | 26.1 | 26.5 | 26.9 |
| 90° | 37.2 | 39.2 | 41.2 | 42.6 | 43.2 | 43.9 | 44.6 | 45.2 |
| 92.5° | 62.1 | 63.3 | 64.5 | 65.3 | 65.7 | 66.1 | 66.5 | 66.9 |
| 95° | 116.6 | 117.6 | 118.6 | 119.1 | 119.1 | 119.1 | 119.1 | 119.1 |
| 97.5° | 183.7 | 184.9 | 186.1 | 186.7 | 186.7 | 186.7 | 186.7 | 186.7 |
| 100° | 232.0 | 232.7 | 233.4 | 233.7 | 233.7 | 233.7 | 233.7 | 233.7 |
| 102.5° | 283.2 | 284.2 | 285.1 | 285.7 | 286.0 | 286.3 | 286.5 | 286.8 |
| 105° | 360.9 | 361.9 | 362.9 | 363.9 | 364.9 | 365.9 | 366.9 | 367.9 |
| 107.5° | 444.9 | 445.8 | 446.8 | 447.2 | 447.1 | 447.1 | 447.0 | 446.9 |
| 110° | 500.8 | 500.1 | 499.4 | 499.6 | 500.6 | 501.6 | 502.6 | 503.6 |



TEST NUMBER: P333114

CATALOG NUMBER: S124RDIW-S1195D1560U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 560.9 | 560.8 | 560.7 | 560.7 | 560.9 | 561.1 | 561.3 | 561.5 |
| 115° | 653.7 | 653.4 | 653.1 | 652.7 | 652.4 | 652.1 | 651.7 | 651.4 |
| 117.5° | 742.9 | 741.8 | 740.6 | 739.7 | 739.0 | 738.4 | 737.7 | 737.0 |
| 120° | 803.3 | 801.7 | 800.0 | 799.5 | 800.2 | 800.8 | 801.5 | 802.2 |
| 122.5° | 864.7 | 863.6 | 862.5 | 861.3 | 860.1 | 858.9 | 857.7 | 856.5 |
| 125° | 954.6 | 954.0 | 953.3 | 952.6 | 951.9 | 951.3 | 950.6 | 949.9 |
| 127.5° | 1040.6 | 1039.9 | 1039.2 | 1038.6 | 1038.1 | 1037.6 | 1037.0 | 1036.5 |
| 130° | 1100.9 | 1100.2 | 1099.5 | 1098.5 | 1097.2 | 1095.9 | 1094.5 | 1093.2 |
| 132.5° | 1157.6 | 1156.9 | 1156.2 | 1155.6 | 1155.1 | 1154.6 | 1154.0 | 1153.5 |
| 135° | 1242.6 | 1242.0 | 1241.3 | 1240.4 | 1239.4 | 1238.4 | 1237.4 | 1236.4 |
| 137.5° | 1324.9 | 1324.0 | 1323.1 | 1322.8 | 1323.0 | 1323.2 | 1323.4 | 1323.6 |
| 140° | 1379.0 | 1378.7 | 1378.3 | 1378.0 | 1377.7 | 1377.3 | 1377.0 | 1376.7 |
| 142.5° | 1430.2 | 1430.1 | 1430.1 | 1430.0 | 1429.9 | 1429.9 | 1429.8 | 1429.7 |
| 145° | 1507.2 | 1506.8 | 1506.5 | 1505.8 | 1504.8 | 1503.8 | 1502.8 | 1501.8 |
| 147.5° | 1577.0 | 1576.7 | 1576.4 | 1576.1 | 1575.8 | 1575.5 | 1575.1 | 1574.8 |
| 150° | 1620.9 | 1620.9 | 1620.9 | 1620.8 | 1620.4 | 1620.1 | 1619.8 | 1619.4 |
| 152.5° | 1662.3 | 1663.1 | 1663.9 | 1663.9 | 1663.0 | 1662.2 | 1661.3 | 1660.4 |
| 155° | 1720.1 | 1721.4 | 1722.8 | 1722.8 | 1721.4 | 1720.1 | 1718.8 | 1717.4 |
| 157.5° | 1771.0 | 1772.0 | 1773.0 | 1772.9 | 1771.8 | 1770.7 | 1769.5 | 1768.4 |
| 160° | 1802.4 | 1803.4 | 1804.4 | 1804.0 | 1802.4 | 1800.7 | 1799.0 | 1797.3 |
| 162.5° | 1830.5 | 1832.3 | 1834.1 | 1834.2 | 1832.5 | 1830.9 | 1829.2 | 1827.5 |
| 165° | 1867.7 | 1869.7 | 1871.7 | 1872.1 | 1870.7 | 1869.4 | 1868.0 | 1866.7 |
| 167.5° | 1899.1 | 1901.1 | 1903.1 | 1903.1 | 1901.0 | 1898.9 | 1896.8 | 1894.7 |
| 170° | 1916.0 | 1918.0 | 1920.0 | 1919.8 | 1917.5 | 1915.1 | 1912.8 | 1910.4 |
| 172.5° | 1928.6 | 1930.8 | 1933.1 | 1933.1 | 1930.7 | 1928.4 | 1926.0 | 1923.7 |
| 175° | 1942.3 | 1944.6 | 1947.0 | 1947.0 | 1944.6 | 1942.3 | 1939.9 | 1937.6 |
| 177.5° | 1949.8 | 1951.6 | 1953.5 | 1953.4 | 1951.2 | 1949.1 | 1947.0 | 1944.8 |
| 180° | 1949.6 | 1949.6 | 1949.6 | 1949.6 | 1949.6 | 1949.6 | 1949.6 | 1949.6 |

(END OF REPORT)