

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: P333102-830

Luminaire Tested: **S124RDIW-S1195D770U830-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333102-830
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-S1195D770U830-4F0-1E-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: 7053.6 lumens
Efficiency: N/A
Efficacy: 118.0 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

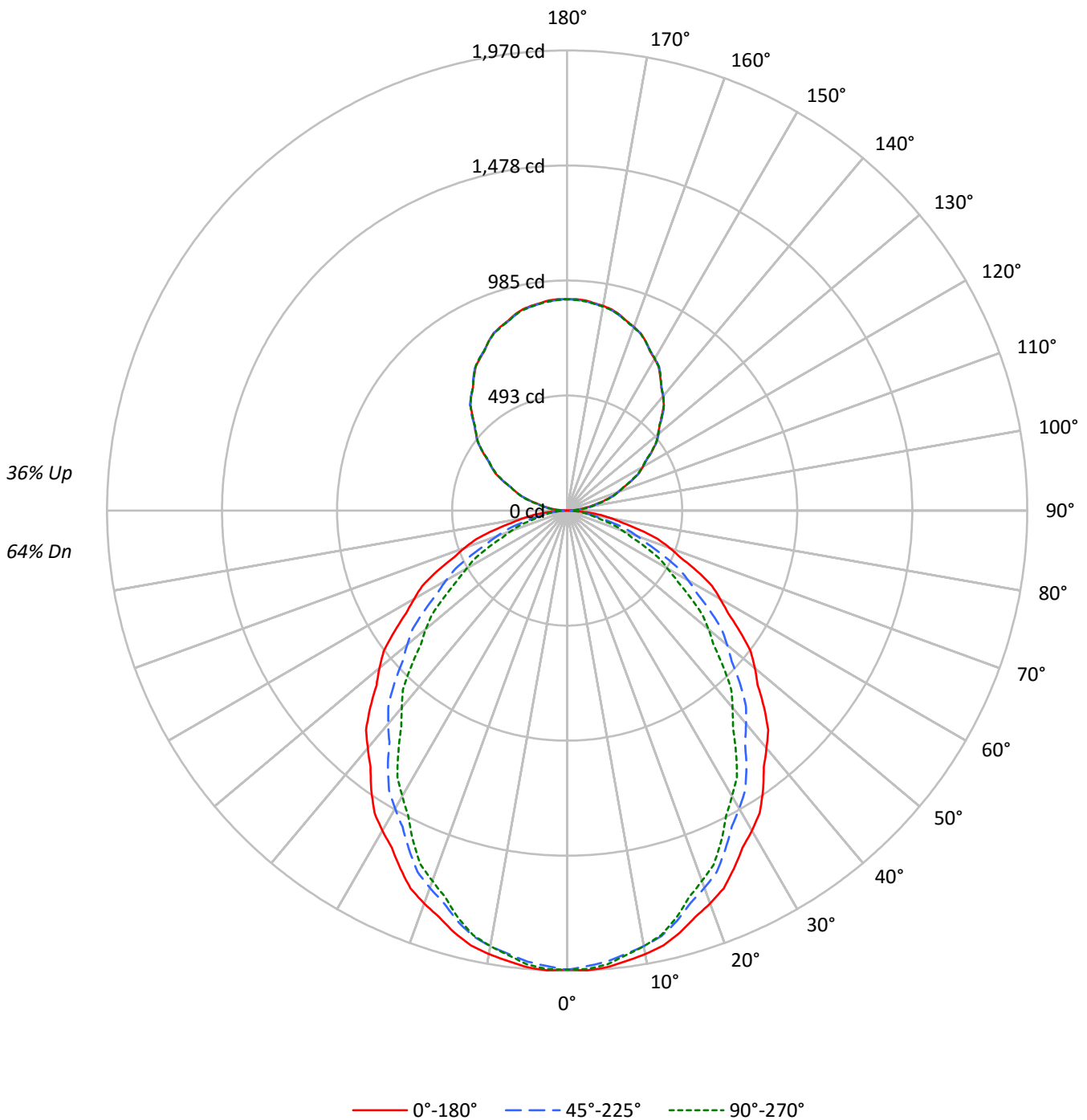
Input Watts (W): 59.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333102-830

CATALOG NUMBER: S124RDIW-S1195D770U830-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P333102-830

CATALOG NUMBER: S124RDIW-S1195D770U830-4F0-1E-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 | 111 | 111 | 111 | 111 | 104 | 104 | 104 | 104 | 91 | 91 | 91 | 80 | 80 | 80 | 69 | 69 | 69 | 64 |
| 1 | 101 | 97 | 93 | 90 | 95 | 91 | 88 | 85 | 81 | 78 | 76 | 71 | 69 | 67 | 62 | 61 | 59 | 55 |
| 2 | 93 | 85 | 79 | 74 | 87 | 80 | 75 | 70 | 71 | 67 | 63 | 63 | 60 | 57 | 55 | 53 | 50 | 47 |
| 3 | 85 | 75 | 68 | 62 | 79 | 71 | 64 | 59 | 63 | 58 | 54 | 56 | 52 | 48 | 49 | 46 | 43 | 40 |
| 4 | 78 | 67 | 59 | 53 | 73 | 63 | 56 | 51 | 56 | 51 | 46 | 50 | 45 | 42 | 44 | 40 | 38 | 34 |
| 5 | 71 | 60 | 52 | 46 | 67 | 57 | 49 | 44 | 51 | 45 | 40 | 45 | 40 | 36 | 40 | 36 | 33 | 30 |
| 6 | 66 | 54 | 46 | 40 | 62 | 51 | 44 | 38 | 46 | 40 | 35 | 41 | 36 | 32 | 36 | 32 | 29 | 27 |
| 7 | 61 | 49 | 41 | 35 | 57 | 46 | 39 | 34 | 42 | 36 | 31 | 37 | 32 | 29 | 33 | 29 | 26 | 24 |
| 8 | 57 | 44 | 37 | 31 | 53 | 42 | 35 | 30 | 38 | 32 | 28 | 34 | 29 | 26 | 30 | 26 | 23 | 21 |
| 9 | 53 | 41 | 33 | 28 | 50 | 39 | 32 | 27 | 35 | 29 | 25 | 32 | 27 | 23 | 28 | 24 | 21 | 19 |
| 10 | 50 | 37 | 30 | 25 | 47 | 36 | 29 | 24 | 32 | 27 | 23 | 29 | 24 | 21 | 26 | 22 | 19 | 18 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 15868 | 15868 | 15868 |
| 5° | 15904 | 15709 | 15807 |
| 10° | 15805 | 15521 | 15521 |
| 15° | 15623 | 15195 | 15082 |
| 20° | 15374 | 14766 | 14495 |
| 25° | 15055 | 14264 | 13903 |
| 30° | 14746 | 13736 | 13160 |
| 35° | 14402 | 13186 | 12415 |
| 40° | 13990 | 12562 | 11610 |
| 45° | 13609 | 11942 | 10791 |
| 50° | 13175 | 11228 | 9923 |
| 55° | 12711 | 10486 | 8981 |
| 60° | 12198 | 9671 | 8018 |
| 65° | 11731 | 8653 | 7072 |
| 70° | 11049 | 7532 | 6005 |
| 75° | 10187 | 6245 | 4885 |
| 80° | 8884 | 4761 | 4477 |
| 85° | 7521 | 4326 | 4039 |



TEST NUMBER: P333102-830

CATALOG NUMBER: S124RDIW-S1195D770U830-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 184.6 | 2.6 |
| 10°-20° | 514.9 | 7.3 |
| 20°-30° | 743.5 | 10.5 |
| 30°-40° | 842.8 | 11.9 |
| 40°-50° | 813.8 | 11.5 |
| 50°-60° | 676.7 | 9.6 |
| 60°-70° | 467.3 | 6.6 |
| 70°-80° | 236.9 | 3.4 |
| 80°-90° | 63.5 | 0.9 |
| 90°-100° | 59.7 | 0.8 |
| 100°-110° | 176.7 | 2.5 |
| 110°-120° | 300.0 | 4.3 |
| 120°-130° | 395.5 | 5.6 |
| 130°-140° | 444.2 | 6.3 |
| 140°-150° | 436.5 | 6.2 |
| 150°-160° | 367.1 | 5.2 |
| 160°-170° | 244.3 | 3.5 |
| 170°-180° | 85.5 | 1.2 |
| 0°-30° | 1443.1 | 20.5 |
| 0°-40° | 2285.8 | 32.4 |
| 0°-60° | 3776.4 | 53.5 |
| 0°-90° | 4544.1 | 64.4 |
| 90°-120° | 536.4 | 7.6 |
| 90°-150° | 1812.6 | 25.7 |
| 90°-180° | 2510.0 | 35.6 |
| 0°-180° | 7053.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1966 | 1966 | 1966 | 1966 | 1966 | |
| 5° | 1963 | 1956 | 1938 | 1953 | 1951 | 186 |
| 15° | 1869 | 1854 | 1818 | 1815 | 1805 | 526 |
| 25° | 1690 | 1661 | 1601 | 1576 | 1561 | 778 |
| 35° | 1461 | 1412 | 1338 | 1288 | 1260 | 913 |
| 45° | 1192 | 1134 | 1046 | 975 | 945 | 919 |
| 55° | 903 | 841 | 745 | 669 | 638 | 807 |
| 65° | 614 | 548 | 453 | 391 | 370 | 606 |
| 75° | 327 | 270 | 200 | 167 | 157 | 345 |
| 85° | 81 | 53 | 47 | 44 | 44 | 91 |
| 90° | 2 | 10 | 15 | 19 | 21 | 6 |
| 95° | 42 | 48 | 53 | 55 | 55 | 47 |
| 105° | 163 | 164 | 166 | 169 | 171 | 173 |
| 115° | 305 | 305 | 304 | 303 | 302 | 301 |
| 125° | 444 | 444 | 444 | 442 | 441 | 396 |
| 135° | 573 | 577 | 577 | 576 | 574 | 443 |
| 145° | 696 | 699 | 700 | 699 | 697 | 435 |
| 155° | 798 | 797 | 797 | 799 | 797 | 367 |
| 165° | 868 | 866 | 865 | 868 | 866 | 245 |
| 175° | 903 | 900 | 899 | 903 | 899 | 86 |
| 180° | 904 | 904 | 904 | 904 | 904 | |



TEST NUMBER: P333102-830

CATALOG NUMBER: S124RDIW-S1195D770U830-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1965.6 | 1965.6 | 1965.6 | 1965.6 | 1965.6 | 1965.6 | 1965.6 | 1965.6 | 1965.6 | 1965.6 | 1965.6 |
| 2.5° | 1970.4 | 1969.3 | 1968.3 | 1967.2 | 1966.1 | 1964.2 | 1961.2 | 1958.2 | 1955.3 | 1952.4 | 1955.3 |
| 5° | 1962.6 | 1961.2 | 1959.9 | 1958.6 | 1957.3 | 1954.6 | 1950.6 | 1946.5 | 1942.6 | 1938.5 | 1941.8 |
| 7.5° | 1944.8 | 1943.4 | 1942.0 | 1940.6 | 1939.2 | 1935.9 | 1930.7 | 1925.5 | 1920.2 | 1915.1 | 1917.2 |
| 10° | 1928.0 | 1926.3 | 1924.7 | 1923.0 | 1921.3 | 1917.4 | 1911.5 | 1905.4 | 1899.4 | 1893.4 | 1894.7 |
| 12.5° | 1906.3 | 1904.4 | 1902.4 | 1900.4 | 1898.6 | 1894.0 | 1887.0 | 1879.9 | 1872.7 | 1865.7 | 1866.5 |
| 15° | 1869.3 | 1866.2 | 1863.3 | 1860.3 | 1857.3 | 1851.5 | 1843.2 | 1834.8 | 1826.5 | 1818.1 | 1817.4 |
| 17.5° | 1824.5 | 1820.0 | 1815.7 | 1811.4 | 1807.0 | 1799.9 | 1789.8 | 1779.8 | 1769.7 | 1759.7 | 1757.8 |
| 20° | 1789.5 | 1785.2 | 1780.8 | 1776.5 | 1772.2 | 1764.3 | 1752.9 | 1741.5 | 1730.1 | 1718.8 | 1716.1 |
| 22.5° | 1751.0 | 1746.2 | 1741.3 | 1736.4 | 1731.5 | 1723.0 | 1710.7 | 1698.6 | 1686.4 | 1674.2 | 1670.2 |
| 25° | 1690.2 | 1684.1 | 1678.1 | 1672.2 | 1666.1 | 1656.2 | 1642.6 | 1628.8 | 1615.1 | 1601.4 | 1595.7 |
| 27.5° | 1626.4 | 1618.8 | 1611.3 | 1603.7 | 1596.1 | 1585.1 | 1570.4 | 1555.8 | 1541.1 | 1526.4 | 1519.4 |
| 30° | 1581.9 | 1573.5 | 1565.1 | 1556.7 | 1548.4 | 1536.3 | 1520.6 | 1504.9 | 1489.2 | 1473.5 | 1465.1 |
| 32.5° | 1534.8 | 1525.4 | 1516.0 | 1506.6 | 1497.1 | 1484.3 | 1468.0 | 1451.8 | 1435.5 | 1419.3 | 1409.6 |
| 35° | 1461.4 | 1450.7 | 1440.0 | 1429.3 | 1418.6 | 1404.9 | 1388.2 | 1371.5 | 1354.7 | 1338.0 | 1326.6 |
| 37.5° | 1382.9 | 1371.8 | 1360.7 | 1349.7 | 1338.7 | 1323.9 | 1305.4 | 1286.9 | 1268.4 | 1249.8 | 1237.1 |
| 40° | 1327.5 | 1316.4 | 1305.4 | 1294.4 | 1283.3 | 1268.3 | 1249.2 | 1230.1 | 1211.1 | 1192.0 | 1178.0 |
| 42.5° | 1274.5 | 1262.9 | 1251.3 | 1239.7 | 1228.2 | 1212.5 | 1192.6 | 1172.7 | 1152.9 | 1133.0 | 1118.7 |
| 45° | 1192.0 | 1179.6 | 1167.2 | 1154.9 | 1142.6 | 1126.2 | 1106.3 | 1086.2 | 1066.1 | 1046.0 | 1029.6 |
| 47.5° | 1106.8 | 1094.0 | 1081.3 | 1068.5 | 1055.7 | 1038.9 | 1018.0 | 997.1 | 976.3 | 955.5 | 938.4 |
| 50° | 1049.0 | 1035.9 | 1022.9 | 1009.9 | 996.8 | 979.6 | 958.2 | 936.8 | 915.4 | 894.0 | 877.3 |
| 52.5° | 990.0 | 977.2 | 964.5 | 951.7 | 939.0 | 921.5 | 899.7 | 877.7 | 855.7 | 833.8 | 816.8 |
| 55° | 903.1 | 889.7 | 876.3 | 862.9 | 849.5 | 832.0 | 810.2 | 788.5 | 766.8 | 745.0 | 727.6 |
| 57.5° | 816.9 | 803.0 | 789.1 | 775.2 | 761.3 | 743.7 | 722.3 | 700.8 | 679.4 | 658.0 | 640.4 |
| 60° | 755.5 | 742.2 | 728.8 | 715.4 | 702.0 | 684.7 | 663.3 | 641.9 | 620.4 | 599.0 | 581.6 |
| 62.5° | 700.1 | 686.3 | 672.3 | 658.5 | 644.5 | 626.6 | 604.6 | 582.7 | 560.7 | 538.9 | 522.7 |
| 65° | 614.1 | 599.6 | 585.3 | 570.9 | 556.6 | 538.7 | 517.3 | 495.9 | 474.5 | 453.0 | 438.7 |
| 67.5° | 524.6 | 510.9 | 497.1 | 483.3 | 469.6 | 452.7 | 432.8 | 413.0 | 393.1 | 373.2 | 360.9 |
| 70° | 468.1 | 454.0 | 440.0 | 425.9 | 411.9 | 395.3 | 376.3 | 357.2 | 338.2 | 319.1 | 308.0 |
| 72.5° | 407.8 | 395.2 | 382.5 | 369.8 | 357.0 | 341.7 | 323.7 | 305.7 | 287.7 | 269.7 | 260.2 |
| 75° | 326.6 | 314.2 | 301.8 | 289.5 | 277.1 | 263.1 | 247.3 | 231.6 | 215.9 | 200.2 | 192.5 |
| 77.5° | 244.1 | 233.7 | 223.1 | 212.6 | 202.1 | 190.5 | 177.8 | 165.1 | 152.4 | 139.7 | 135.2 |
| 80° | 191.1 | 181.4 | 171.7 | 162.0 | 152.3 | 142.5 | 132.4 | 122.4 | 112.4 | 102.4 | 101.3 |
| 82.5° | 145.4 | 136.5 | 127.6 | 118.7 | 109.8 | 102.5 | 96.7 | 91.0 | 85.2 | 79.5 | 78.7 |
| 85° | 81.2 | 74.6 | 67.9 | 61.2 | 54.5 | 50.7 | 49.7 | 48.6 | 47.7 | 46.7 | 46.0 |
| 87.5° | 28.1 | 26.3 | 24.5 | 22.7 | 20.9 | 20.0 | 20.0 | 20.0 | 20.0 | 19.9 | 19.9 |
| 90° | 2.1 | 3.8 | 5.6 | 7.3 | 9.0 | 10.5 | 11.7 | 12.9 | 14.1 | 15.4 | 16.3 |
| 92.5° | 15.0 | 17.0 | 18.9 | 20.8 | 22.8 | 24.2 | 25.1 | 25.9 | 26.9 | 27.7 | 28.3 |
| 95° | 41.9 | 43.4 | 44.8 | 46.2 | 47.6 | 48.8 | 49.9 | 51.0 | 52.1 | 53.2 | 53.6 |
| 97.5° | 73.3 | 74.5 | 75.6 | 76.6 | 77.8 | 79.0 | 80.3 | 81.5 | 82.8 | 84.1 | 84.6 |
| 100° | 97.9 | 98.6 | 99.2 | 99.8 | 100.4 | 101.4 | 102.8 | 104.2 | 105.7 | 107.1 | 107.4 |
| 102.5° | 123.7 | 123.9 | 124.1 | 124.4 | 124.7 | 125.5 | 126.7 | 128.0 | 129.2 | 130.5 | 131.0 |
| 105° | 163.0 | 163.2 | 163.3 | 163.4 | 163.6 | 164.0 | 164.7 | 165.2 | 165.9 | 166.5 | 166.9 |
| 107.5° | 204.2 | 204.4 | 204.6 | 204.8 | 205.0 | 205.2 | 205.3 | 205.4 | 205.5 | 205.6 | 205.9 |
| 110° | 232.2 | 232.5 | 232.9 | 233.2 | 233.5 | 233.6 | 233.4 | 233.3 | 233.1 | 232.9 | 232.6 |



TEST NUMBER: P333102-830

CATALOG NUMBER: S124RDIW-S1195D770U830-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 261.4 | 261.4 | 261.5 | 261.6 | 261.6 | 261.5 | 261.2 | 260.9 | 260.6 | 260.3 | 260.3 |
| 115° | 305.0 | 305.0 | 305.0 | 305.0 | 305.0 | 304.8 | 304.5 | 304.3 | 303.9 | 303.6 | 303.4 |
| 117.5° | 346.1 | 346.3 | 346.4 | 346.5 | 346.7 | 346.6 | 346.4 | 346.2 | 345.9 | 345.7 | 345.2 |
| 120° | 373.5 | 374.2 | 374.8 | 375.4 | 376.1 | 376.1 | 375.7 | 375.2 | 374.8 | 374.3 | 373.4 |
| 122.5° | 402.1 | 402.4 | 402.6 | 402.8 | 403.1 | 403.1 | 402.9 | 402.7 | 402.5 | 402.3 | 401.7 |
| 125° | 444.2 | 444.2 | 444.2 | 444.2 | 444.2 | 444.1 | 443.9 | 443.8 | 443.7 | 443.5 | 443.2 |
| 127.5° | 482.4 | 482.9 | 483.3 | 483.8 | 484.3 | 484.4 | 484.1 | 483.9 | 483.6 | 483.4 | 483.1 |
| 130° | 509.3 | 509.7 | 510.2 | 510.7 | 511.1 | 511.3 | 511.3 | 511.3 | 511.3 | 511.3 | 511.0 |
| 132.5° | 536.7 | 537.1 | 537.3 | 537.7 | 538.1 | 538.2 | 538.0 | 537.9 | 537.8 | 537.6 | 537.3 |
| 135° | 573.0 | 573.8 | 574.8 | 575.7 | 576.6 | 577.1 | 577.1 | 577.1 | 577.1 | 577.1 | 576.8 |
| 137.5° | 612.4 | 612.8 | 613.2 | 613.7 | 614.2 | 614.4 | 614.7 | 614.9 | 615.2 | 615.5 | 615.0 |
| 140° | 638.7 | 638.9 | 639.3 | 639.6 | 639.9 | 640.1 | 640.1 | 640.1 | 640.1 | 640.1 | 639.9 |
| 142.5° | 662.7 | 663.1 | 663.4 | 663.6 | 664.0 | 664.1 | 663.9 | 663.8 | 663.7 | 663.5 | 663.5 |
| 145° | 696.1 | 696.6 | 697.3 | 698.0 | 698.5 | 698.9 | 699.1 | 699.3 | 699.4 | 699.6 | 699.4 |
| 147.5° | 729.1 | 729.8 | 730.6 | 731.3 | 732.1 | 732.4 | 732.3 | 732.1 | 732.0 | 731.9 | 731.7 |
| 150° | 749.2 | 749.8 | 750.5 | 751.1 | 751.7 | 752.1 | 752.1 | 752.1 | 752.1 | 752.1 | 752.1 |
| 152.5° | 768.3 | 768.6 | 769.0 | 769.4 | 769.8 | 770.0 | 770.1 | 770.2 | 770.3 | 770.4 | 770.8 |
| 155° | 797.5 | 797.5 | 797.5 | 797.5 | 797.5 | 797.4 | 797.2 | 797.1 | 796.9 | 796.8 | 797.4 |
| 157.5° | 822.1 | 821.8 | 821.5 | 821.2 | 821.0 | 820.9 | 820.8 | 820.8 | 820.8 | 820.7 | 821.1 |
| 160° | 836.7 | 836.5 | 836.3 | 836.2 | 836.0 | 835.8 | 835.8 | 835.6 | 835.4 | 835.3 | 835.8 |
| 162.5° | 850.1 | 849.7 | 849.2 | 848.9 | 848.5 | 848.2 | 848.0 | 847.9 | 847.7 | 847.5 | 848.4 |
| 165° | 868.2 | 867.7 | 867.2 | 866.8 | 866.3 | 865.9 | 865.5 | 865.3 | 865.0 | 864.6 | 865.5 |
| 167.5° | 881.9 | 881.4 | 880.7 | 880.1 | 879.4 | 879.0 | 879.1 | 879.1 | 879.1 | 879.2 | 880.1 |
| 170° | 889.9 | 889.0 | 888.3 | 887.5 | 886.7 | 886.4 | 886.6 | 886.7 | 886.8 | 887.0 | 888.0 |
| 172.5° | 895.4 | 894.8 | 894.1 | 893.4 | 892.8 | 892.5 | 892.5 | 892.6 | 892.6 | 892.6 | 893.7 |
| 175° | 903.1 | 902.3 | 901.5 | 900.8 | 900.0 | 899.6 | 899.4 | 899.2 | 899.1 | 898.9 | 900.0 |
| 177.5° | 905.6 | 905.0 | 904.4 | 903.8 | 903.1 | 902.9 | 902.9 | 902.9 | 902.9 | 902.9 | 903.7 |
| 180° | 904.5 | 904.5 | 904.5 | 904.5 | 904.5 | 904.5 | 904.5 | 904.5 | 904.5 | 904.5 | 904.5 |



TEST NUMBER: P333102-830

CATALOG NUMBER: S124RDIW-S1195D770U830-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1965.6 | 1965.6 | 1965.6 | 1965.6 | 1965.6 | 1965.6 | 1965.6 | 1965.6 |
| 2.5° | 1958.2 | 1961.2 | 1964.2 | 1965.5 | 1965.2 | 1964.9 | 1964.6 | 1964.4 |
| 5° | 1945.2 | 1948.5 | 1951.9 | 1953.2 | 1952.6 | 1951.9 | 1951.3 | 1950.6 |
| 7.5° | 1919.3 | 1921.5 | 1923.6 | 1924.1 | 1923.1 | 1922.0 | 1920.9 | 1919.9 |
| 10° | 1896.0 | 1897.3 | 1898.8 | 1898.8 | 1897.3 | 1896.0 | 1894.7 | 1893.4 |
| 12.5° | 1867.3 | 1868.1 | 1868.9 | 1868.3 | 1866.5 | 1864.6 | 1862.7 | 1860.9 |
| 15° | 1816.8 | 1816.1 | 1815.4 | 1813.9 | 1811.6 | 1809.2 | 1806.9 | 1804.6 |
| 17.5° | 1756.0 | 1754.1 | 1752.2 | 1749.5 | 1746.0 | 1742.4 | 1738.9 | 1735.3 |
| 20° | 1713.4 | 1710.7 | 1708.1 | 1704.6 | 1700.3 | 1695.9 | 1691.5 | 1687.2 |
| 22.5° | 1666.2 | 1662.2 | 1658.2 | 1654.4 | 1650.9 | 1647.3 | 1643.8 | 1640.2 |
| 25° | 1590.0 | 1584.3 | 1578.7 | 1574.1 | 1570.7 | 1567.4 | 1564.1 | 1560.8 |
| 27.5° | 1512.4 | 1505.3 | 1498.4 | 1492.4 | 1487.6 | 1482.8 | 1478.0 | 1473.2 |
| 30° | 1456.7 | 1448.4 | 1440.0 | 1433.1 | 1427.8 | 1422.5 | 1417.1 | 1411.7 |
| 32.5° | 1399.9 | 1390.2 | 1380.4 | 1373.1 | 1368.0 | 1362.9 | 1357.8 | 1352.7 |
| 35° | 1315.2 | 1303.9 | 1292.5 | 1283.8 | 1277.8 | 1271.8 | 1265.7 | 1259.7 |
| 37.5° | 1224.4 | 1211.6 | 1199.0 | 1189.6 | 1183.6 | 1177.5 | 1171.6 | 1165.5 |
| 40° | 1163.9 | 1149.9 | 1135.9 | 1125.8 | 1119.7 | 1113.7 | 1107.8 | 1101.7 |
| 42.5° | 1104.4 | 1090.1 | 1075.7 | 1065.5 | 1059.1 | 1052.9 | 1046.6 | 1040.3 |
| 45° | 1013.2 | 996.8 | 980.4 | 969.2 | 963.3 | 957.2 | 951.2 | 945.2 |
| 47.5° | 921.4 | 904.5 | 887.5 | 875.6 | 869.0 | 862.4 | 855.7 | 849.1 |
| 50° | 860.5 | 843.9 | 827.1 | 815.6 | 809.3 | 802.9 | 796.5 | 790.1 |
| 52.5° | 799.8 | 782.9 | 765.8 | 754.0 | 747.4 | 740.8 | 734.1 | 727.5 |
| 55° | 710.2 | 692.9 | 675.4 | 663.5 | 657.2 | 650.8 | 644.5 | 638.1 |
| 57.5° | 622.7 | 605.0 | 587.4 | 576.2 | 571.4 | 566.5 | 561.7 | 556.9 |
| 60° | 564.2 | 546.9 | 529.4 | 518.1 | 512.7 | 507.4 | 502.0 | 496.6 |
| 62.5° | 506.7 | 490.7 | 474.6 | 464.4 | 460.1 | 455.9 | 451.6 | 447.3 |
| 65° | 424.2 | 409.9 | 395.5 | 386.3 | 382.3 | 378.2 | 374.3 | 370.2 |
| 67.5° | 348.6 | 336.1 | 323.8 | 315.4 | 310.9 | 306.5 | 302.1 | 297.7 |
| 70° | 297.0 | 286.0 | 274.9 | 267.8 | 264.4 | 261.1 | 257.7 | 254.4 |
| 72.5° | 250.8 | 241.4 | 232.0 | 225.7 | 222.6 | 219.6 | 216.5 | 213.4 |
| 75° | 184.8 | 177.1 | 169.4 | 164.6 | 162.6 | 160.5 | 158.5 | 156.6 |
| 77.5° | 130.7 | 126.2 | 121.8 | 119.2 | 118.6 | 118.0 | 117.4 | 116.8 |
| 80° | 100.4 | 99.3 | 98.3 | 97.6 | 97.4 | 97.0 | 96.7 | 96.3 |
| 82.5° | 78.0 | 77.3 | 76.5 | 76.0 | 75.7 | 75.3 | 75.0 | 74.6 |
| 85° | 45.3 | 44.7 | 44.0 | 43.6 | 43.6 | 43.6 | 43.6 | 43.6 |
| 87.5° | 19.8 | 19.7 | 19.6 | 19.7 | 20.1 | 20.4 | 20.7 | 21.0 |
| 90° | 17.2 | 18.2 | 19.1 | 19.7 | 20.1 | 20.4 | 20.6 | 21.0 |
| 92.5° | 28.8 | 29.4 | 30.0 | 30.3 | 30.5 | 30.7 | 30.9 | 31.1 |
| 95° | 54.1 | 54.6 | 55.0 | 55.2 | 55.2 | 55.2 | 55.2 | 55.2 |
| 97.5° | 85.2 | 85.8 | 86.3 | 86.6 | 86.6 | 86.6 | 86.6 | 86.6 |
| 100° | 107.6 | 107.9 | 108.3 | 108.4 | 108.4 | 108.4 | 108.4 | 108.4 |
| 102.5° | 131.4 | 131.9 | 132.2 | 132.5 | 132.7 | 132.8 | 132.9 | 133.1 |
| 105° | 167.4 | 167.9 | 168.3 | 168.8 | 169.3 | 169.8 | 170.2 | 170.7 |
| 107.5° | 206.4 | 206.8 | 207.3 | 207.5 | 207.5 | 207.5 | 207.4 | 207.4 |
| 110° | 232.3 | 232.1 | 231.7 | 231.8 | 232.2 | 232.7 | 233.2 | 233.7 |



TEST NUMBER: P333102-830

CATALOG NUMBER: S124RDIW-S1195D770U830-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 260.2 | 260.1 | 260.1 | 260.1 | 260.2 | 260.3 | 260.4 | 260.5 |
| 115° | 303.3 | 303.1 | 302.9 | 302.8 | 302.7 | 302.6 | 302.4 | 302.2 |
| 117.5° | 344.7 | 344.1 | 343.6 | 343.2 | 342.9 | 342.5 | 342.2 | 342.0 |
| 120° | 372.7 | 371.9 | 371.2 | 370.9 | 371.3 | 371.6 | 371.8 | 372.1 |
| 122.5° | 401.1 | 400.7 | 400.1 | 399.5 | 399.0 | 398.4 | 397.9 | 397.4 |
| 125° | 442.9 | 442.6 | 442.2 | 442.0 | 441.7 | 441.3 | 441.0 | 440.7 |
| 127.5° | 482.8 | 482.5 | 482.1 | 481.8 | 481.6 | 481.4 | 481.1 | 480.9 |
| 130° | 510.8 | 510.4 | 510.1 | 509.6 | 509.1 | 508.4 | 507.7 | 507.2 |
| 132.5° | 537.1 | 536.8 | 536.4 | 536.1 | 535.9 | 535.6 | 535.4 | 535.2 |
| 135° | 576.5 | 576.2 | 575.9 | 575.5 | 575.0 | 574.6 | 574.1 | 573.6 |
| 137.5° | 614.6 | 614.3 | 613.9 | 613.7 | 613.8 | 613.9 | 614.0 | 614.1 |
| 140° | 639.8 | 639.6 | 639.4 | 639.3 | 639.1 | 638.9 | 638.9 | 638.7 |
| 142.5° | 663.5 | 663.5 | 663.5 | 663.5 | 663.4 | 663.4 | 663.4 | 663.3 |
| 145° | 699.3 | 699.1 | 698.9 | 698.6 | 698.1 | 697.7 | 697.2 | 696.7 |
| 147.5° | 731.6 | 731.5 | 731.3 | 731.2 | 731.0 | 730.9 | 730.8 | 730.6 |
| 150° | 752.1 | 752.1 | 752.1 | 752.0 | 751.8 | 751.6 | 751.5 | 751.3 |
| 152.5° | 771.2 | 771.6 | 771.9 | 771.9 | 771.6 | 771.2 | 770.7 | 770.3 |
| 155° | 798.1 | 798.6 | 799.3 | 799.3 | 798.6 | 798.1 | 797.4 | 796.8 |
| 157.5° | 821.6 | 822.1 | 822.6 | 822.6 | 822.0 | 821.5 | 821.0 | 820.4 |
| 160° | 836.2 | 836.7 | 837.2 | 837.0 | 836.2 | 835.4 | 834.6 | 833.9 |
| 162.5° | 849.2 | 850.1 | 850.9 | 850.9 | 850.2 | 849.4 | 848.7 | 847.8 |
| 165° | 866.5 | 867.4 | 868.4 | 868.6 | 867.9 | 867.2 | 866.7 | 866.0 |
| 167.5° | 881.1 | 881.9 | 882.9 | 882.9 | 881.9 | 881.0 | 880.1 | 879.0 |
| 170° | 888.9 | 889.9 | 890.8 | 890.7 | 889.6 | 888.5 | 887.4 | 886.4 |
| 172.5° | 894.8 | 895.8 | 896.8 | 896.8 | 895.7 | 894.7 | 893.5 | 892.5 |
| 175° | 901.1 | 902.2 | 903.2 | 903.2 | 902.2 | 901.1 | 900.0 | 898.9 |
| 177.5° | 904.6 | 905.4 | 906.3 | 906.3 | 905.2 | 904.3 | 903.2 | 902.3 |
| 180° | 904.5 | 904.5 | 904.5 | 904.5 | 904.5 | 904.5 | 904.5 | 904.5 |

(END OF REPORT)