

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: P332676

Luminaire Tested: **SA4XXDIP-C1195D365U835-4F0-1E-UDD-F**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332676
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-C1195D365U835-4F0-1E-UDD-F
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 365 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

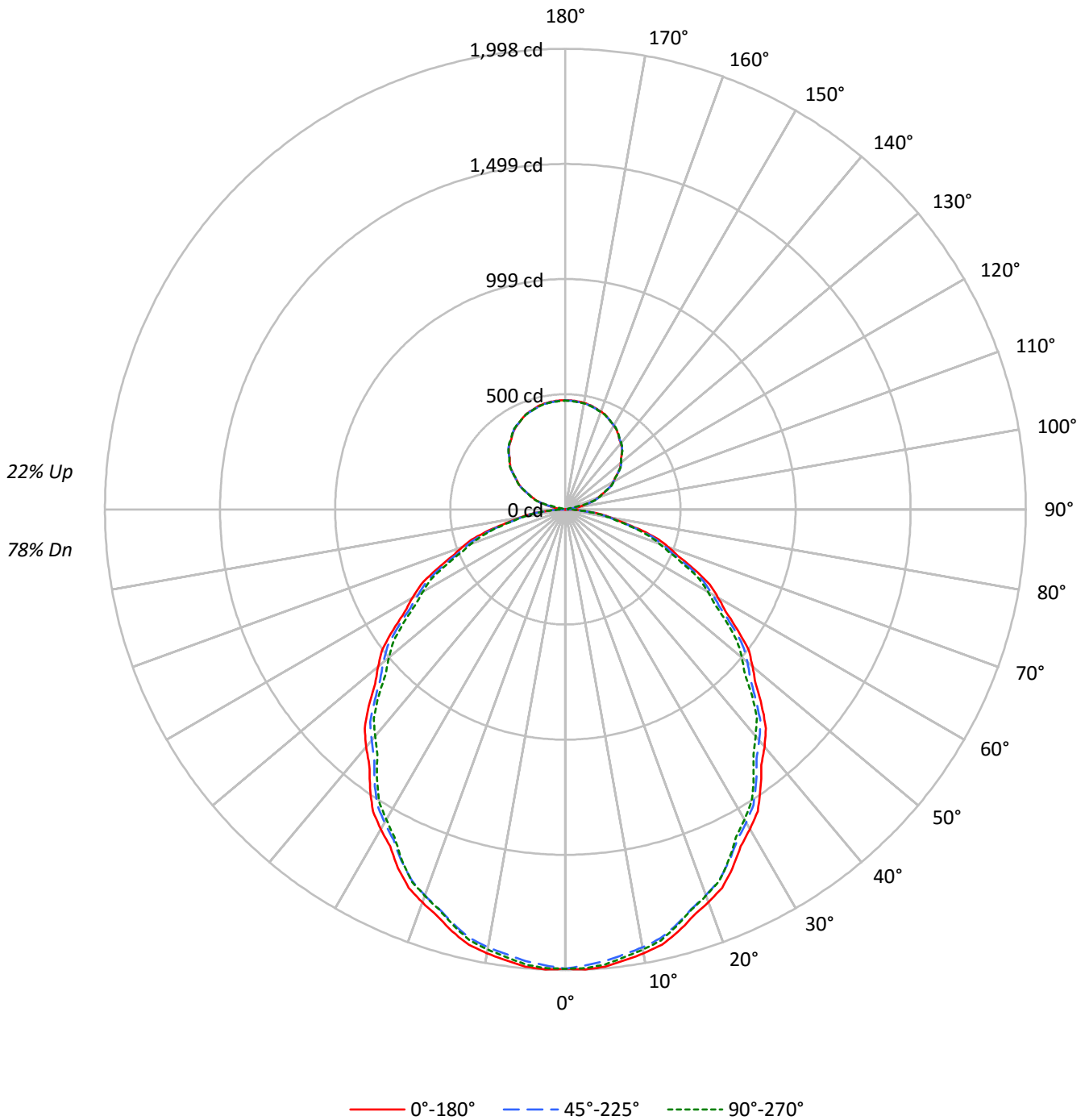
Lumens per Lamp: N/A
Luminaire Lumens: 6576.9 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 49.8
Input Voltage (V): 120
Input Current (Ain): 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: P332676
CATALOG NUMBER: SA4XXDIP-C1195D365U835-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P332676

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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 | 114 | 114 | 114 | 114 | 109 | 109 | 109 | 109 | 99 | 99 | 99 | 99 | 90 | 90 | 90 | 82 | 82 | 82 | 78 |
| 1 | 104 | 99 | 95 | 92 | 99 | 95 | 91 | 88 | 87 | 84 | 81 | 81 | 79 | 77 | 75 | 72 | 70 | 69 | 65 |
| 2 | 95 | 87 | 80 | 75 | 90 | 83 | 77 | 72 | 76 | 71 | 67 | 67 | 69 | 66 | 63 | 63 | 61 | 58 | 55 |
| 3 | 86 | 76 | 69 | 63 | 82 | 73 | 66 | 61 | 67 | 61 | 57 | 57 | 61 | 57 | 53 | 56 | 53 | 49 | 46 |
| 4 | 79 | 68 | 59 | 53 | 75 | 65 | 57 | 51 | 60 | 53 | 48 | 48 | 55 | 50 | 45 | 50 | 46 | 43 | 40 |
| 5 | 73 | 61 | 52 | 46 | 69 | 58 | 50 | 44 | 54 | 47 | 42 | 42 | 49 | 44 | 40 | 45 | 41 | 37 | 35 |
| 6 | 67 | 55 | 46 | 40 | 64 | 52 | 45 | 39 | 48 | 42 | 37 | 37 | 45 | 39 | 35 | 41 | 36 | 33 | 30 |
| 7 | 62 | 49 | 41 | 35 | 59 | 48 | 40 | 34 | 44 | 37 | 33 | 33 | 41 | 35 | 31 | 38 | 33 | 29 | 27 |
| 8 | 58 | 45 | 37 | 31 | 55 | 43 | 36 | 31 | 40 | 34 | 29 | 29 | 37 | 32 | 28 | 35 | 30 | 26 | 24 |
| 9 | 54 | 41 | 33 | 28 | 52 | 40 | 32 | 27 | 37 | 31 | 26 | 26 | 34 | 29 | 25 | 32 | 27 | 24 | 22 |
| 10 | 51 | 38 | 30 | 25 | 48 | 37 | 30 | 25 | 34 | 28 | 24 | 24 | 32 | 26 | 23 | 30 | 25 | 22 | 20 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 16088 | 16088 | 16088 |
| 5° | 16136 | 15943 | 16058 |
| 10° | 16035 | 15813 | 15891 |
| 15° | 15841 | 15588 | 15628 |
| 20° | 15584 | 15309 | 15323 |
| 25° | 15291 | 14991 | 14949 |
| 30° | 14930 | 14618 | 14483 |
| 35° | 14557 | 14226 | 14038 |
| 40° | 14169 | 13782 | 13529 |
| 45° | 13764 | 13345 | 13089 |
| 50° | 13317 | 12955 | 12554 |
| 55° | 12833 | 12451 | 12047 |
| 60° | 12350 | 11885 | 11525 |
| 65° | 11805 | 11347 | 10890 |
| 70° | 11195 | 10629 | 10213 |
| 75° | 10259 | 9763 | 9513 |
| 80° | 9131 | 8759 | 8536 |
| 85° | 7984 | 7688 | 7540 |



TEST NUMBER: P332676

CATALOG NUMBER: SA4XXDIP-C1195D365U835-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 187.7 | 2.9 |
| 10°-20° | 528.8 | 8.0 |
| 20°-30° | 778.3 | 11.8 |
| 30°-40° | 904.8 | 13.8 |
| 40°-50° | 904.8 | 13.8 |
| 50°-60° | 791.5 | 12.0 |
| 60°-70° | 587.8 | 8.9 |
| 70°-80° | 333.9 | 5.1 |
| 80°-90° | 97.7 | 1.5 |
| 90°-100° | 16.2 | 0.2 |
| 100°-110° | 103.0 | 1.6 |
| 110°-120° | 197.1 | 3.0 |
| 120°-130° | 250.2 | 3.8 |
| 130°-140° | 267.7 | 4.1 |
| 140°-150° | 250.4 | 3.8 |
| 150°-160° | 201.9 | 3.1 |
| 160°-170° | 130.2 | 2.0 |
| 170°-180° | 44.9 | 0.7 |
| 0°-30° | 1494.7 | 22.7 |
| 0°-40° | 2399.5 | 36.5 |
| 0°-60° | 4095.8 | 62.3 |
| 0°-90° | 5115.3 | 77.8 |
| 90°-120° | 316.3 | 4.8 |
| 90°-150° | 1084.6 | 16.5 |
| 90°-180° | 1462.0 | 22.2 |
| 0°-180° | 6576.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1993 | 1993 | 1993 | 1993 | 1993 | |
| 5° | 1991 | 1984 | 1967 | 1984 | 1982 | 189 |
| 15° | 1895 | 1888 | 1865 | 1874 | 1870 | 534 |
| 25° | 1717 | 1705 | 1683 | 1684 | 1678 | 789 |
| 35° | 1477 | 1465 | 1444 | 1433 | 1424 | 923 |
| 45° | 1206 | 1194 | 1169 | 1152 | 1146 | 929 |
| 55° | 912 | 906 | 885 | 866 | 856 | 816 |
| 65° | 618 | 610 | 594 | 578 | 570 | 612 |
| 75° | 329 | 321 | 313 | 307 | 305 | 350 |
| 85° | 86 | 86 | 83 | 83 | 81 | 95 |
| 90° | 1 | 5 | 8 | 10 | 11 | 5 |
| 95° | 19 | 8 | 8 | 10 | 10 | 25 |
| 105° | 106 | 108 | 110 | 113 | 101 | 111 |
| 115° | 199 | 200 | 199 | 200 | 200 | 195 |
| 125° | 279 | 280 | 280 | 281 | 281 | 249 |
| 135° | 346 | 346 | 347 | 348 | 349 | 267 |
| 145° | 399 | 400 | 400 | 401 | 402 | 249 |
| 155° | 438 | 438 | 437 | 438 | 438 | 202 |
| 165° | 462 | 460 | 460 | 463 | 460 | 130 |
| 175° | 472 | 470 | 471 | 474 | 470 | 45 |
| 180° | 472 | 472 | 472 | 472 | 472 | |



TEST NUMBER: P332676

CATALOG NUMBER: SA4XXDIP-C1195D365U835-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1992.8 | 1992.8 | 1992.8 | 1992.8 | 1992.8 | 1992.8 | 1992.8 | 1992.8 | 1992.8 | 1992.8 | 1992.8 |
| 2.5° | 1997.9 | 1997.1 | 1996.2 | 1995.4 | 1994.5 | 1992.5 | 1989.4 | 1986.3 | 1983.2 | 1980.1 | 1982.9 |
| 5° | 1991.2 | 1989.8 | 1988.4 | 1987.0 | 1985.6 | 1982.9 | 1979.0 | 1975.1 | 1971.2 | 1967.3 | 1971.2 |
| 7.5° | 1972.7 | 1971.3 | 1969.9 | 1968.4 | 1967.0 | 1964.2 | 1959.8 | 1955.5 | 1951.2 | 1946.8 | 1950.0 |
| 10° | 1956.1 | 1954.7 | 1953.3 | 1951.8 | 1950.4 | 1947.4 | 1942.8 | 1938.2 | 1933.6 | 1929.0 | 1931.8 |
| 12.5° | 1934.4 | 1933.0 | 1931.5 | 1930.1 | 1928.7 | 1925.5 | 1920.7 | 1915.8 | 1910.9 | 1906.0 | 1909.1 |
| 15° | 1895.4 | 1894.0 | 1892.6 | 1891.2 | 1889.7 | 1886.4 | 1881.0 | 1875.7 | 1870.4 | 1865.1 | 1867.2 |
| 17.5° | 1848.5 | 1846.7 | 1844.9 | 1843.2 | 1841.4 | 1838.0 | 1832.9 | 1827.9 | 1822.9 | 1817.8 | 1819.2 |
| 20° | 1814.0 | 1812.2 | 1810.4 | 1808.7 | 1806.9 | 1803.3 | 1798.0 | 1792.7 | 1787.4 | 1782.0 | 1783.1 |
| 22.5° | 1776.9 | 1774.6 | 1772.3 | 1769.9 | 1767.6 | 1763.7 | 1758.4 | 1753.1 | 1747.8 | 1742.4 | 1744.4 |
| 25° | 1716.6 | 1714.1 | 1711.6 | 1709.1 | 1706.6 | 1702.9 | 1697.9 | 1693.0 | 1688.0 | 1683.0 | 1683.4 |
| 27.5° | 1647.6 | 1645.0 | 1642.5 | 1639.9 | 1637.4 | 1633.8 | 1629.2 | 1624.6 | 1620.0 | 1615.3 | 1614.5 |
| 30° | 1601.6 | 1598.8 | 1595.9 | 1593.1 | 1590.3 | 1586.5 | 1581.9 | 1577.3 | 1572.7 | 1568.1 | 1566.7 |
| 32.5° | 1553.1 | 1550.5 | 1548.0 | 1545.4 | 1542.8 | 1539.1 | 1534.2 | 1529.3 | 1524.4 | 1519.5 | 1517.8 |
| 35° | 1477.1 | 1474.6 | 1472.1 | 1469.6 | 1467.1 | 1463.4 | 1458.4 | 1453.5 | 1448.5 | 1443.5 | 1441.0 |
| 37.5° | 1396.9 | 1394.6 | 1392.4 | 1390.1 | 1387.8 | 1384.0 | 1378.7 | 1373.4 | 1368.0 | 1362.7 | 1360.0 |
| 40° | 1344.5 | 1341.7 | 1338.8 | 1336.0 | 1333.2 | 1329.1 | 1323.8 | 1318.4 | 1313.1 | 1307.8 | 1304.2 |
| 42.5° | 1288.3 | 1286.6 | 1284.9 | 1283.2 | 1281.5 | 1277.7 | 1271.8 | 1265.9 | 1260.0 | 1254.1 | 1250.0 |
| 45° | 1205.6 | 1203.1 | 1200.6 | 1198.1 | 1195.7 | 1191.6 | 1185.9 | 1180.2 | 1174.5 | 1168.9 | 1165.0 |
| 47.5° | 1119.0 | 1117.3 | 1115.6 | 1113.9 | 1112.2 | 1108.8 | 1103.5 | 1098.3 | 1093.0 | 1087.8 | 1083.4 |
| 50° | 1060.3 | 1058.9 | 1057.4 | 1056.0 | 1054.6 | 1051.4 | 1046.4 | 1041.5 | 1036.5 | 1031.5 | 1026.6 |
| 52.5° | 1002.8 | 1001.1 | 999.4 | 997.7 | 996.0 | 992.5 | 987.3 | 982.0 | 976.8 | 971.5 | 967.1 |
| 55° | 911.8 | 910.7 | 909.7 | 908.6 | 907.5 | 904.5 | 899.5 | 894.6 | 889.6 | 884.6 | 880.4 |
| 57.5° | 824.9 | 823.7 | 822.5 | 821.3 | 820.1 | 817.0 | 812.1 | 807.2 | 802.3 | 797.4 | 793.4 |
| 60° | 764.9 | 763.1 | 761.3 | 759.6 | 757.8 | 754.6 | 750.0 | 745.4 | 740.7 | 736.1 | 732.9 |
| 62.5° | 706.1 | 704.6 | 703.1 | 701.6 | 700.2 | 697.0 | 692.1 | 687.2 | 682.3 | 677.4 | 674.5 |
| 65° | 618.0 | 616.2 | 614.4 | 612.6 | 610.9 | 608.2 | 604.7 | 601.1 | 597.6 | 594.0 | 590.5 |
| 67.5° | 529.2 | 527.6 | 525.9 | 524.3 | 522.7 | 520.1 | 516.7 | 513.3 | 509.9 | 506.5 | 503.1 |
| 70° | 474.3 | 471.8 | 469.3 | 466.8 | 464.3 | 461.7 | 458.8 | 456.0 | 453.1 | 450.3 | 447.5 |
| 72.5° | 415.5 | 413.0 | 410.5 | 408.0 | 405.6 | 403.2 | 400.9 | 398.6 | 396.4 | 394.1 | 391.8 |
| 75° | 328.9 | 327.2 | 325.4 | 323.6 | 321.8 | 320.1 | 318.3 | 316.5 | 314.8 | 313.0 | 311.6 |
| 77.5° | 246.2 | 245.4 | 244.7 | 243.9 | 243.1 | 241.9 | 240.4 | 238.8 | 237.3 | 235.7 | 235.3 |
| 80° | 196.4 | 195.3 | 194.3 | 193.2 | 192.2 | 191.3 | 190.6 | 189.8 | 189.1 | 188.4 | 187.7 |
| 82.5° | 147.9 | 147.4 | 146.9 | 146.4 | 145.9 | 145.6 | 145.4 | 145.3 | 145.1 | 145.0 | 144.6 |
| 85° | 86.2 | 86.2 | 86.2 | 86.2 | 86.2 | 85.9 | 85.2 | 84.5 | 83.7 | 83.0 | 83.0 |
| 87.5° | 33.4 | 33.3 | 33.2 | 33.1 | 33.0 | 32.8 | 32.7 | 32.5 | 32.4 | 32.2 | 32.3 |
| 90° | 1.1 | 1.9 | 2.8 | 3.7 | 4.5 | 5.3 | 5.9 | 6.5 | 7.1 | 7.8 | 8.2 |
| 92.5° | 4.5 | 4.5 | 4.5 | 4.6 | 4.6 | 5.0 | 5.6 | 6.2 | 6.9 | 7.5 | 8.0 |
| 95° | 19.4 | 16.8 | 14.1 | 11.4 | 8.8 | 7.5 | 7.5 | 7.6 | 7.7 | 7.8 | 8.2 |
| 97.5° | 41.3 | 42.9 | 44.6 | 46.3 | 47.9 | 44.4 | 35.6 | 26.9 | 18.1 | 9.3 | 9.4 |
| 100° | 58.0 | 59.4 | 60.8 | 62.2 | 63.6 | 58.9 | 48.1 | 37.2 | 26.4 | 15.6 | 14.2 |
| 102.5° | 76.6 | 77.7 | 78.7 | 79.7 | 80.8 | 80.6 | 79.2 | 77.8 | 76.3 | 74.9 | 60.5 |
| 105° | 106.4 | 106.8 | 107.3 | 107.8 | 108.3 | 108.7 | 109.1 | 109.5 | 109.9 | 110.3 | 111.0 |
| 107.5° | 134.0 | 134.2 | 134.5 | 134.7 | 135.0 | 135.3 | 135.9 | 136.4 | 136.9 | 137.5 | 137.8 |
| 110° | 152.7 | 152.9 | 153.1 | 153.4 | 153.6 | 154.0 | 154.4 | 154.9 | 155.4 | 155.9 | 156.0 |



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CATALOG NUMBER: SA4XXDIP-C1195D365U835-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 170.8 | 171.2 | 171.6 | 172.0 | 172.5 | 172.8 | 173.0 | 173.2 | 173.4 | 173.7 | 173.6 |
| 115° | 198.6 | 198.9 | 199.1 | 199.3 | 199.6 | 199.6 | 199.6 | 199.5 | 199.4 | 199.3 | 199.5 |
| 117.5° | 223.7 | 224.0 | 224.3 | 224.7 | 225.0 | 225.2 | 225.4 | 225.6 | 225.7 | 225.9 | 225.9 |
| 120° | 240.7 | 241.0 | 241.3 | 241.6 | 241.9 | 242.0 | 242.0 | 241.9 | 241.8 | 241.7 | 241.9 |
| 122.5° | 256.5 | 256.7 | 256.9 | 257.1 | 257.3 | 257.4 | 257.5 | 257.6 | 257.7 | 257.9 | 257.9 |
| 125° | 279.2 | 279.5 | 279.8 | 280.1 | 280.5 | 280.5 | 280.4 | 280.2 | 280.1 | 279.9 | 280.1 |
| 127.5° | 300.7 | 300.8 | 300.8 | 300.9 | 301.0 | 301.2 | 301.6 | 301.9 | 302.3 | 302.7 | 302.6 |
| 130° | 314.5 | 314.6 | 314.7 | 314.8 | 314.9 | 315.0 | 315.2 | 315.5 | 315.7 | 316.0 | 316.0 |
| 132.5° | 327.3 | 327.4 | 327.5 | 327.7 | 327.8 | 328.0 | 328.3 | 328.6 | 328.9 | 329.2 | 329.3 |
| 135° | 346.3 | 346.3 | 346.2 | 346.1 | 346.0 | 346.1 | 346.5 | 346.8 | 347.1 | 347.4 | 347.6 |
| 137.5° | 363.2 | 363.3 | 363.3 | 363.3 | 363.4 | 363.6 | 363.9 | 364.2 | 364.6 | 364.9 | 365.1 |
| 140° | 374.3 | 374.4 | 374.6 | 374.7 | 374.9 | 375.0 | 375.2 | 375.4 | 375.5 | 375.7 | 375.9 |
| 142.5° | 384.2 | 384.4 | 384.7 | 385.0 | 385.3 | 385.5 | 385.6 | 385.7 | 385.8 | 385.9 | 386.0 |
| 145° | 399.4 | 399.6 | 399.8 | 400.1 | 400.3 | 400.4 | 400.4 | 400.4 | 400.4 | 400.4 | 400.5 |
| 147.5° | 411.4 | 411.9 | 412.3 | 412.8 | 413.2 | 413.4 | 413.3 | 413.2 | 413.1 | 413.1 | 413.1 |
| 150° | 420.2 | 420.5 | 420.8 | 421.2 | 421.5 | 421.6 | 421.5 | 421.4 | 421.3 | 421.3 | 421.3 |
| 152.5° | 427.6 | 427.8 | 428.1 | 428.3 | 428.6 | 428.6 | 428.5 | 428.3 | 428.2 | 428.1 | 428.2 |
| 155° | 437.9 | 438.0 | 438.0 | 438.1 | 438.2 | 438.1 | 437.9 | 437.6 | 437.4 | 437.2 | 437.5 |
| 157.5° | 446.6 | 446.5 | 446.5 | 446.4 | 446.4 | 446.2 | 446.0 | 445.7 | 445.4 | 445.2 | 445.6 |
| 160° | 451.7 | 451.4 | 451.2 | 451.0 | 450.7 | 450.6 | 450.5 | 450.4 | 450.3 | 450.2 | 450.7 |
| 162.5° | 456.2 | 455.9 | 455.6 | 455.3 | 455.0 | 454.8 | 454.7 | 454.6 | 454.6 | 454.5 | 455.0 |
| 165° | 461.9 | 461.5 | 461.1 | 460.7 | 460.3 | 460.1 | 460.1 | 460.1 | 460.1 | 460.1 | 460.8 |
| 167.5° | 466.4 | 466.0 | 465.6 | 465.2 | 464.8 | 464.6 | 464.5 | 464.5 | 464.4 | 464.4 | 465.1 |
| 170° | 469.0 | 468.5 | 468.0 | 467.6 | 467.1 | 466.9 | 467.0 | 467.1 | 467.1 | 467.2 | 467.8 |
| 172.5° | 470.7 | 470.2 | 469.7 | 469.3 | 468.8 | 468.6 | 468.7 | 468.8 | 468.8 | 468.9 | 469.5 |
| 175° | 472.5 | 472.0 | 471.6 | 471.1 | 470.6 | 470.4 | 470.5 | 470.6 | 470.7 | 470.7 | 471.5 |
| 177.5° | 473.4 | 472.9 | 472.5 | 472.0 | 471.6 | 471.4 | 471.6 | 471.7 | 471.8 | 471.9 | 472.5 |
| 180° | 472.5 | 472.5 | 472.5 | 472.5 | 472.5 | 472.5 | 472.5 | 472.5 | 472.5 | 472.5 | 472.5 |



TEST NUMBER: P332676

CATALOG NUMBER: SA4XXDIP-C1195D365U835-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1992.8 | 1992.8 | 1992.8 | 1992.8 | 1992.8 | 1992.8 | 1992.8 | 1992.8 |
| 2.5° | 1985.7 | 1988.6 | 1991.4 | 1992.7 | 1992.4 | 1992.1 | 1991.8 | 1991.5 |
| 5° | 1975.1 | 1979.0 | 1982.9 | 1984.5 | 1983.8 | 1983.1 | 1982.4 | 1981.6 |
| 7.5° | 1953.1 | 1956.2 | 1959.3 | 1960.7 | 1960.3 | 1959.8 | 1959.4 | 1959.0 |
| 10° | 1934.6 | 1937.5 | 1940.3 | 1941.4 | 1940.7 | 1940.0 | 1939.2 | 1938.5 |
| 12.5° | 1912.2 | 1915.3 | 1918.5 | 1919.5 | 1918.5 | 1917.5 | 1916.5 | 1915.5 |
| 15° | 1869.3 | 1871.5 | 1873.6 | 1874.1 | 1873.1 | 1872.0 | 1870.9 | 1869.9 |
| 17.5° | 1820.5 | 1821.9 | 1823.2 | 1823.5 | 1822.8 | 1822.1 | 1821.4 | 1820.7 |
| 20° | 1784.2 | 1785.2 | 1786.3 | 1786.5 | 1785.8 | 1785.1 | 1784.4 | 1783.6 |
| 22.5° | 1746.3 | 1748.2 | 1750.1 | 1750.4 | 1749.2 | 1747.9 | 1746.6 | 1745.3 |
| 25° | 1683.8 | 1684.1 | 1684.5 | 1683.9 | 1682.5 | 1681.1 | 1679.7 | 1678.3 |
| 27.5° | 1613.6 | 1612.8 | 1611.9 | 1610.6 | 1608.8 | 1607.1 | 1605.3 | 1603.5 |
| 30° | 1565.2 | 1563.8 | 1562.4 | 1560.8 | 1559.0 | 1557.3 | 1555.5 | 1553.7 |
| 32.5° | 1516.1 | 1514.4 | 1512.7 | 1511.0 | 1509.2 | 1507.4 | 1505.7 | 1503.9 |
| 35° | 1438.6 | 1436.1 | 1433.6 | 1431.5 | 1429.7 | 1427.9 | 1426.1 | 1424.4 |
| 37.5° | 1357.3 | 1354.6 | 1351.9 | 1349.4 | 1347.1 | 1344.7 | 1342.4 | 1340.0 |
| 40° | 1300.7 | 1297.1 | 1293.6 | 1290.9 | 1289.2 | 1287.4 | 1285.6 | 1283.8 |
| 42.5° | 1245.9 | 1241.8 | 1237.7 | 1235.0 | 1233.8 | 1232.6 | 1231.4 | 1230.2 |
| 45° | 1161.1 | 1157.2 | 1153.3 | 1150.8 | 1149.7 | 1148.6 | 1147.6 | 1146.5 |
| 47.5° | 1079.0 | 1074.6 | 1070.2 | 1066.6 | 1063.9 | 1061.2 | 1058.5 | 1055.8 |
| 50° | 1021.6 | 1016.6 | 1011.7 | 1008.1 | 1006.0 | 1003.9 | 1001.7 | 999.6 |
| 52.5° | 962.7 | 958.3 | 953.9 | 950.4 | 947.7 | 945.0 | 942.3 | 939.6 |
| 55° | 876.1 | 871.9 | 867.6 | 864.4 | 862.3 | 860.2 | 858.0 | 855.9 |
| 57.5° | 789.4 | 785.3 | 781.3 | 778.2 | 776.2 | 774.1 | 772.0 | 770.0 |
| 60° | 729.7 | 726.6 | 723.4 | 720.9 | 719.1 | 717.3 | 715.6 | 713.8 |
| 62.5° | 671.5 | 668.6 | 665.7 | 663.4 | 661.6 | 659.8 | 658.1 | 656.3 |
| 65° | 586.9 | 583.4 | 579.8 | 577.2 | 575.4 | 573.6 | 571.8 | 570.1 |
| 67.5° | 499.7 | 496.3 | 492.9 | 490.9 | 490.4 | 489.9 | 489.4 | 488.9 |
| 70° | 444.6 | 441.8 | 438.9 | 437.0 | 435.9 | 434.9 | 433.8 | 432.7 |
| 72.5° | 389.6 | 387.3 | 385.0 | 383.3 | 382.3 | 381.2 | 380.1 | 379.1 |
| 75° | 310.1 | 308.7 | 307.3 | 306.4 | 306.1 | 305.7 | 305.3 | 305.0 |
| 77.5° | 234.8 | 234.4 | 234.0 | 233.3 | 232.4 | 231.5 | 230.5 | 229.6 |
| 80° | 187.0 | 186.3 | 185.6 | 185.1 | 184.7 | 184.3 | 184.0 | 183.6 |
| 82.5° | 144.1 | 143.7 | 143.3 | 142.9 | 142.5 | 142.2 | 141.8 | 141.5 |
| 85° | 83.0 | 83.0 | 83.0 | 82.9 | 82.5 | 82.1 | 81.8 | 81.4 |
| 87.5° | 32.4 | 32.5 | 32.6 | 32.7 | 32.7 | 32.7 | 32.7 | 32.8 |
| 90° | 8.7 | 9.2 | 9.7 | 10.0 | 10.1 | 10.3 | 10.4 | 10.6 |
| 92.5° | 8.4 | 8.9 | 9.4 | 9.6 | 9.7 | 9.7 | 9.7 | 9.8 |
| 95° | 8.7 | 9.2 | 9.7 | 9.9 | 10.0 | 10.1 | 10.2 | 10.2 |
| 97.5° | 9.4 | 9.5 | 9.5 | 9.6 | 9.7 | 9.7 | 9.8 | 9.9 |
| 100° | 12.9 | 11.5 | 10.2 | 9.6 | 9.7 | 9.7 | 9.8 | 9.9 |
| 102.5° | 46.1 | 31.7 | 17.3 | 10.1 | 10.1 | 10.1 | 10.2 | 10.2 |
| 105° | 111.7 | 112.4 | 113.1 | 112.0 | 109.2 | 106.4 | 103.5 | 100.7 |
| 107.5° | 138.2 | 138.5 | 138.9 | 139.2 | 139.5 | 139.8 | 140.1 | 140.4 |
| 110° | 156.2 | 156.3 | 156.5 | 156.7 | 156.9 | 157.2 | 157.4 | 157.6 |



TEST NUMBER: P332676

CATALOG NUMBER: SA4XXDIP-C1195D365U835-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 173.6 | 173.6 | 173.5 | 173.7 | 174.0 | 174.3 | 174.6 | 174.9 |
| 115° | 199.6 | 199.8 | 200.0 | 200.0 | 200.0 | 200.0 | 200.0 | 200.0 |
| 117.5° | 225.8 | 225.8 | 225.8 | 225.7 | 225.7 | 225.7 | 225.7 | 225.6 |
| 120° | 242.0 | 242.2 | 242.4 | 242.4 | 242.2 | 242.0 | 241.9 | 241.7 |
| 122.5° | 258.0 | 258.1 | 258.2 | 258.2 | 258.0 | 257.9 | 257.7 | 257.6 |
| 125° | 280.4 | 280.6 | 280.8 | 281.0 | 281.1 | 281.2 | 281.2 | 281.3 |
| 127.5° | 302.6 | 302.5 | 302.5 | 302.4 | 302.4 | 302.3 | 302.2 | 302.2 |
| 130° | 316.1 | 316.2 | 316.3 | 316.3 | 316.3 | 316.3 | 316.3 | 316.3 |
| 132.5° | 329.4 | 329.5 | 329.6 | 329.6 | 329.5 | 329.4 | 329.4 | 329.3 |
| 135° | 347.7 | 347.9 | 348.0 | 348.2 | 348.3 | 348.5 | 348.7 | 348.8 |
| 137.5° | 365.3 | 365.5 | 365.6 | 365.7 | 365.6 | 365.6 | 365.5 | 365.5 |
| 140° | 376.1 | 376.4 | 376.6 | 376.8 | 376.9 | 376.9 | 377.0 | 377.1 |
| 142.5° | 386.2 | 386.4 | 386.5 | 386.6 | 386.7 | 386.7 | 386.7 | 386.7 |
| 145° | 400.6 | 400.7 | 400.7 | 400.8 | 401.0 | 401.2 | 401.3 | 401.5 |
| 147.5° | 413.2 | 413.3 | 413.3 | 413.4 | 413.5 | 413.5 | 413.6 | 413.7 |
| 150° | 421.3 | 421.3 | 421.3 | 421.3 | 421.4 | 421.5 | 421.5 | 421.6 |
| 152.5° | 428.3 | 428.4 | 428.6 | 428.6 | 428.5 | 428.5 | 428.5 | 428.4 |
| 155° | 437.8 | 438.1 | 438.4 | 438.5 | 438.2 | 438.0 | 437.8 | 437.5 |
| 157.5° | 446.0 | 446.4 | 446.8 | 446.8 | 446.4 | 446.0 | 445.6 | 445.2 |
| 160° | 451.2 | 451.7 | 452.1 | 452.1 | 451.7 | 451.2 | 450.7 | 450.2 |
| 162.5° | 455.4 | 455.9 | 456.4 | 456.3 | 455.8 | 455.3 | 454.7 | 454.2 |
| 165° | 461.4 | 462.0 | 462.7 | 462.6 | 461.9 | 461.2 | 460.5 | 459.8 |
| 167.5° | 465.8 | 466.5 | 467.1 | 467.1 | 466.3 | 465.5 | 464.7 | 464.0 |
| 170° | 468.5 | 469.1 | 469.7 | 469.6 | 468.9 | 468.1 | 467.3 | 466.5 |
| 172.5° | 470.2 | 470.8 | 471.4 | 471.3 | 470.5 | 469.6 | 468.8 | 467.9 |
| 175° | 472.2 | 472.9 | 473.6 | 473.5 | 472.5 | 471.6 | 470.6 | 469.7 |
| 177.5° | 473.0 | 473.5 | 474.0 | 473.8 | 473.1 | 472.3 | 471.6 | 470.8 |
| 180° | 472.5 | 472.5 | 472.5 | 472.5 | 472.5 | 472.5 | 472.5 | 472.5 |

(END OF REPORT)