

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: P332685

Luminaire Tested: **S124DIP-S1195D590U835-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332685
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIP-S1195D590U835-4F0-1E-UDD-F
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 590 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7475.2 lumens
Efficiency: N/A
Efficacy: 135.7 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

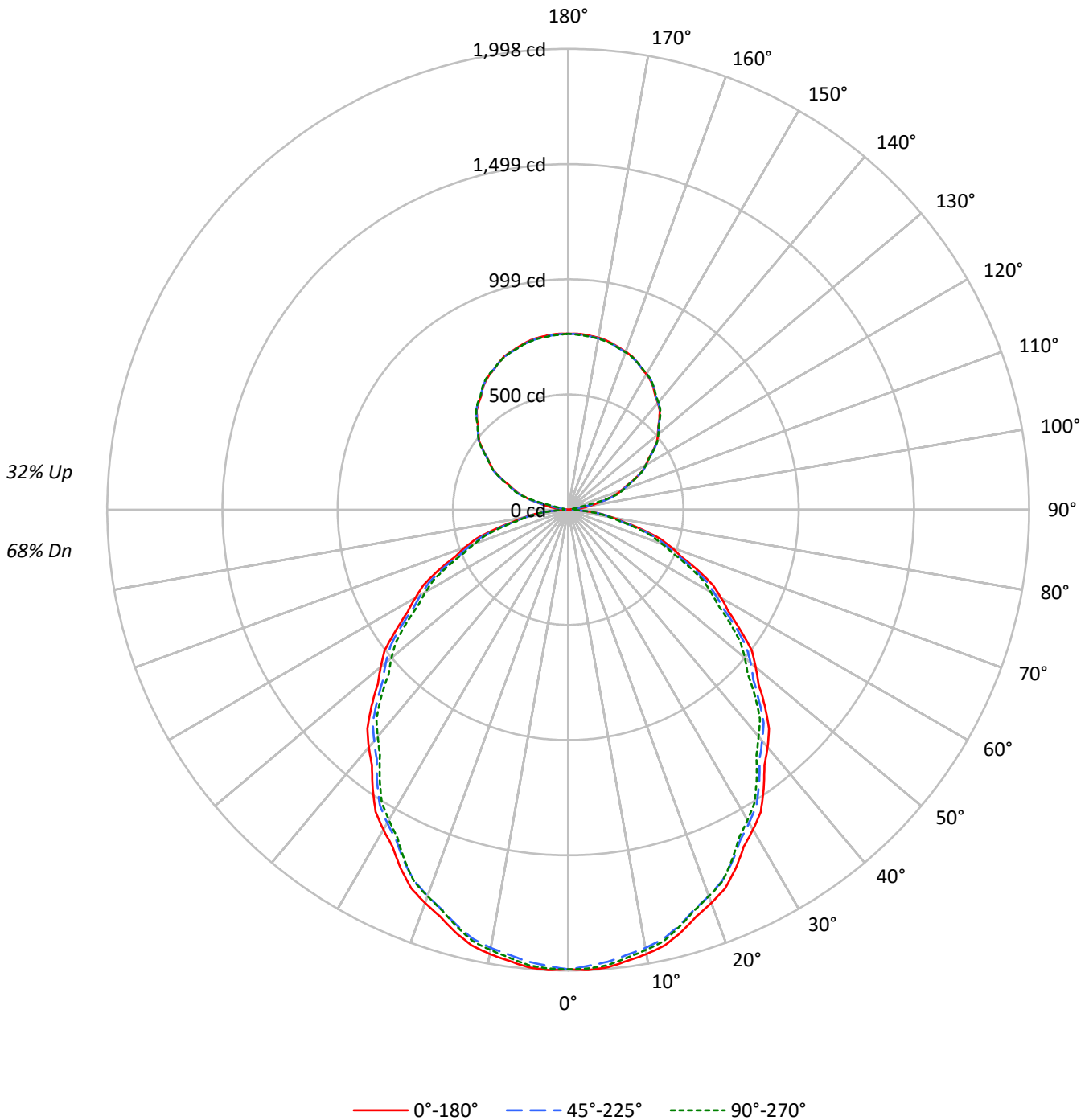
Input Watts (W): 55.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332685

CATALOG NUMBER: S124DIP-S1195D590U835-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P332685

CATALOG NUMBER: S124DIP-S1195D590U835-4F0-1E-UDD-F

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 | 112 | 112 | 112 | 112 | 105 | 105 | 105 | 105 | 94 | 94 | 94 | 83 | 83 | 83 | 73 | 73 | 73 | 68 |
| 1 | 102 | 97 | 93 | 90 | 96 | 92 | 89 | 85 | 82 | 79 | 77 | 73 | 71 | 69 | 65 | 63 | 62 | 58 |
| 2 | 93 | 85 | 79 | 73 | 87 | 81 | 75 | 70 | 72 | 68 | 64 | 64 | 61 | 58 | 57 | 54 | 52 | 48 |
| 3 | 85 | 75 | 67 | 61 | 80 | 71 | 64 | 59 | 64 | 58 | 54 | 57 | 52 | 49 | 50 | 47 | 44 | 41 |
| 4 | 78 | 66 | 58 | 52 | 73 | 63 | 56 | 50 | 56 | 51 | 46 | 51 | 46 | 42 | 45 | 41 | 38 | 35 |
| 5 | 71 | 59 | 51 | 45 | 67 | 56 | 49 | 43 | 51 | 44 | 40 | 45 | 40 | 36 | 41 | 36 | 33 | 30 |
| 6 | 66 | 53 | 45 | 39 | 62 | 51 | 43 | 37 | 46 | 39 | 35 | 41 | 36 | 32 | 37 | 33 | 29 | 27 |
| 7 | 61 | 48 | 40 | 34 | 57 | 46 | 38 | 33 | 42 | 35 | 31 | 37 | 32 | 28 | 34 | 29 | 26 | 24 |
| 8 | 57 | 44 | 36 | 30 | 53 | 42 | 34 | 29 | 38 | 32 | 27 | 34 | 29 | 25 | 31 | 27 | 23 | 21 |
| 9 | 53 | 40 | 32 | 27 | 50 | 38 | 31 | 26 | 35 | 29 | 25 | 32 | 27 | 23 | 29 | 24 | 21 | 19 |
| 10 | 49 | 37 | 29 | 25 | 47 | 35 | 28 | 24 | 32 | 26 | 22 | 29 | 24 | 21 | 27 | 22 | 19 | 17 |

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: P332685

CATALOG NUMBER: S124DIP-S1195D590U835-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 187.7 | 2.5 |
| 10°-20° | 528.8 | 7.1 |
| 20°-30° | 778.3 | 10.4 |
| 30°-40° | 904.8 | 12.1 |
| 40°-50° | 904.8 | 12.1 |
| 50°-60° | 791.5 | 10.6 |
| 60°-70° | 587.8 | 7.9 |
| 70°-80° | 333.9 | 4.5 |
| 80°-90° | 98.6 | 1.3 |
| 90°-100° | 26.1 | 0.3 |
| 100°-110° | 166.3 | 2.2 |
| 110°-120° | 318.2 | 4.3 |
| 120°-130° | 403.9 | 5.4 |
| 130°-140° | 432.1 | 5.8 |
| 140°-150° | 404.1 | 5.4 |
| 150°-160° | 325.9 | 4.4 |
| 160°-170° | 210.2 | 2.8 |
| 170°-180° | 72.4 | 1.0 |
| 0°-30° | 1494.7 | 20.0 |
| 0°-40° | 2399.5 | 32.1 |
| 0°-60° | 4095.8 | 54.8 |
| 0°-90° | 5116.1 | 68.4 |
| 90°-120° | 510.6 | 6.8 |
| 90°-150° | 1750.6 | 23.4 |
| 90°-180° | 2359.0 | 31.6 |
| 0°-180° | 7475.2 | 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° | 2 | 8 | 12 | 16 | 17 | 6 |
| 95° | 31 | 13 | 12 | 16 | 16 | 40 |
| 105° | 172 | 175 | 178 | 182 | 163 | 180 |
| 115° | 321 | 322 | 322 | 323 | 323 | 315 |
| 125° | 451 | 453 | 452 | 453 | 454 | 402 |
| 135° | 559 | 559 | 561 | 562 | 563 | 431 |
| 145° | 645 | 646 | 646 | 647 | 648 | 403 |
| 155° | 707 | 707 | 706 | 708 | 706 | 326 |
| 165° | 746 | 743 | 743 | 747 | 742 | 211 |
| 175° | 763 | 759 | 760 | 764 | 758 | 73 |
| 180° | 763 | 763 | 763 | 763 | 763 | |



TEST NUMBER: P332685

CATALOG NUMBER: S124DIP-S1195D590U835-4F0-1E-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° | 33.6 | 33.6 | 33.5 | 33.5 | 33.5 | 33.5 | 33.4 | 33.3 | 33.2 | 33.2 | 33.3 |
| 90° | 1.7 | 3.1 | 4.5 | 5.9 | 7.3 | 8.5 | 9.5 | 10.5 | 11.5 | 12.5 | 13.3 |
| 92.5° | 7.2 | 7.3 | 7.3 | 7.4 | 7.5 | 8.0 | 9.1 | 10.1 | 11.1 | 12.1 | 12.9 |
| 95° | 31.4 | 27.1 | 22.8 | 18.4 | 14.1 | 12.0 | 12.2 | 12.3 | 12.4 | 12.5 | 13.3 |
| 97.5° | 66.6 | 69.3 | 72.0 | 74.7 | 77.4 | 71.6 | 57.5 | 43.4 | 29.2 | 15.1 | 15.1 |
| 100° | 93.5 | 95.8 | 98.1 | 100.4 | 102.7 | 95.1 | 77.6 | 60.1 | 42.6 | 25.1 | 22.9 |
| 102.5° | 123.7 | 125.3 | 127.0 | 128.7 | 130.4 | 130.1 | 127.8 | 125.5 | 123.2 | 120.9 | 97.7 |
| 105° | 171.7 | 172.5 | 173.2 | 174.0 | 174.7 | 175.4 | 176.1 | 176.7 | 177.3 | 178.0 | 179.1 |
| 107.5° | 216.3 | 216.7 | 217.1 | 217.4 | 217.8 | 218.4 | 219.3 | 220.2 | 221.0 | 221.9 | 222.5 |
| 110° | 246.4 | 246.8 | 247.2 | 247.6 | 247.9 | 248.5 | 249.3 | 250.0 | 250.8 | 251.6 | 251.8 |



TEST NUMBER: P332685

CATALOG NUMBER: S124DIP-S1195D590U835-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 275.6 | 276.3 | 277.0 | 277.7 | 278.4 | 278.9 | 279.2 | 279.6 | 280.0 | 280.3 | 280.3 |
| 115° | 320.6 | 321.0 | 321.3 | 321.7 | 322.1 | 322.2 | 322.1 | 322.0 | 321.8 | 321.7 | 322.0 |
| 117.5° | 361.1 | 361.6 | 362.1 | 362.6 | 363.1 | 363.5 | 363.8 | 364.1 | 364.3 | 364.6 | 364.6 |
| 120° | 388.5 | 389.0 | 389.5 | 390.0 | 390.5 | 390.7 | 390.6 | 390.4 | 390.3 | 390.2 | 390.4 |
| 122.5° | 414.0 | 414.3 | 414.6 | 414.9 | 415.2 | 415.5 | 415.7 | 415.8 | 416.0 | 416.2 | 416.3 |
| 125° | 450.6 | 451.1 | 451.7 | 452.2 | 452.7 | 452.8 | 452.5 | 452.3 | 452.0 | 451.8 | 452.2 |
| 127.5° | 485.3 | 485.4 | 485.6 | 485.7 | 485.8 | 486.2 | 486.8 | 487.3 | 487.9 | 488.5 | 488.4 |
| 130° | 507.7 | 507.8 | 507.9 | 508.1 | 508.2 | 508.4 | 508.8 | 509.2 | 509.6 | 510.0 | 510.1 |
| 132.5° | 528.2 | 528.4 | 528.7 | 528.9 | 529.1 | 529.5 | 530.0 | 530.4 | 530.9 | 531.4 | 531.5 |
| 135° | 559.0 | 558.9 | 558.8 | 558.6 | 558.5 | 558.7 | 559.2 | 559.7 | 560.2 | 560.7 | 561.0 |
| 137.5° | 586.3 | 586.3 | 586.4 | 586.4 | 586.5 | 586.8 | 587.3 | 587.9 | 588.5 | 589.0 | 589.3 |
| 140° | 604.1 | 604.3 | 604.6 | 604.8 | 605.1 | 605.3 | 605.6 | 605.9 | 606.1 | 606.4 | 606.7 |
| 142.5° | 620.1 | 620.5 | 621.0 | 621.4 | 621.9 | 622.2 | 622.3 | 622.5 | 622.6 | 622.8 | 623.1 |
| 145° | 644.6 | 645.0 | 645.3 | 645.7 | 646.1 | 646.3 | 646.3 | 646.3 | 646.3 | 646.3 | 646.4 |
| 147.5° | 664.1 | 664.8 | 665.5 | 666.2 | 666.9 | 667.2 | 667.1 | 667.0 | 666.8 | 666.7 | 666.8 |
| 150° | 678.2 | 678.7 | 679.3 | 679.8 | 680.3 | 680.5 | 680.3 | 680.2 | 680.1 | 679.9 | 679.9 |
| 152.5° | 690.1 | 690.5 | 690.9 | 691.3 | 691.7 | 691.8 | 691.6 | 691.4 | 691.1 | 690.9 | 691.1 |
| 155° | 706.8 | 706.9 | 707.0 | 707.1 | 707.3 | 707.1 | 706.8 | 706.4 | 706.0 | 705.6 | 706.1 |
| 157.5° | 720.8 | 720.7 | 720.6 | 720.6 | 720.5 | 720.2 | 719.8 | 719.4 | 718.9 | 718.5 | 719.2 |
| 160° | 729.0 | 728.6 | 728.2 | 727.9 | 727.5 | 727.2 | 727.1 | 727.0 | 726.8 | 726.7 | 727.5 |
| 162.5° | 736.3 | 735.8 | 735.3 | 734.9 | 734.4 | 734.1 | 733.9 | 733.8 | 733.7 | 733.6 | 734.3 |
| 165° | 745.5 | 744.9 | 744.3 | 743.6 | 743.0 | 742.7 | 742.7 | 742.7 | 742.7 | 742.7 | 743.7 |
| 167.5° | 752.8 | 752.2 | 751.5 | 750.9 | 750.2 | 749.8 | 749.8 | 749.7 | 749.6 | 749.5 | 750.7 |
| 170° | 757.0 | 756.2 | 755.4 | 754.7 | 753.9 | 753.6 | 753.7 | 753.8 | 754.0 | 754.1 | 755.1 |
| 172.5° | 759.7 | 758.9 | 758.2 | 757.4 | 756.7 | 756.3 | 756.5 | 756.6 | 756.7 | 756.8 | 757.9 |
| 175° | 762.7 | 761.9 | 761.1 | 760.4 | 759.6 | 759.3 | 759.4 | 759.6 | 759.7 | 759.8 | 760.9 |
| 177.5° | 764.0 | 763.3 | 762.6 | 761.9 | 761.2 | 760.9 | 761.1 | 761.3 | 761.5 | 761.7 | 762.6 |
| 180° | 762.7 | 762.7 | 762.7 | 762.7 | 762.7 | 762.7 | 762.7 | 762.7 | 762.7 | 762.7 | 762.7 |



TEST NUMBER: P332685

CATALOG NUMBER: S124DIP-S1195D590U835-4F0-1E-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° | 33.5 | 33.6 | 33.8 | 33.9 | 33.9 | 34.0 | 34.0 | 34.1 |
| 90° | 14.1 | 14.8 | 15.6 | 16.1 | 16.4 | 16.6 | 16.9 | 17.1 |
| 92.5° | 13.6 | 14.4 | 15.1 | 15.5 | 15.6 | 15.6 | 15.7 | 15.7 |
| 95° | 14.1 | 14.8 | 15.6 | 16.0 | 16.2 | 16.3 | 16.4 | 16.5 |
| 97.5° | 15.2 | 15.3 | 15.4 | 15.5 | 15.6 | 15.7 | 15.8 | 16.0 |
| 100° | 20.8 | 18.6 | 16.5 | 15.5 | 15.6 | 15.7 | 15.8 | 16.0 |
| 102.5° | 74.4 | 51.2 | 27.9 | 16.3 | 16.4 | 16.4 | 16.4 | 16.4 |
| 105° | 180.3 | 181.4 | 182.5 | 180.8 | 176.3 | 171.7 | 167.1 | 162.6 |
| 107.5° | 223.0 | 223.6 | 224.1 | 224.6 | 225.1 | 225.6 | 226.1 | 226.6 |
| 110° | 252.1 | 252.3 | 252.6 | 252.9 | 253.3 | 253.6 | 254.0 | 254.4 |



TEST NUMBER: P332685

CATALOG NUMBER: S124DIP-S1195D590U835-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 280.2 | 280.2 | 280.1 | 280.3 | 280.8 | 281.3 | 281.8 | 282.2 |
| 115° | 322.2 | 322.5 | 322.7 | 322.9 | 322.9 | 322.9 | 322.9 | 322.9 |
| 117.5° | 364.5 | 364.5 | 364.4 | 364.4 | 364.3 | 364.3 | 364.2 | 364.2 |
| 120° | 390.7 | 390.9 | 391.2 | 391.2 | 390.9 | 390.7 | 390.4 | 390.2 |
| 122.5° | 416.5 | 416.6 | 416.8 | 416.7 | 416.5 | 416.2 | 416.0 | 415.7 |
| 125° | 452.5 | 452.9 | 453.3 | 453.6 | 453.7 | 453.8 | 453.9 | 454.1 |
| 127.5° | 488.4 | 488.3 | 488.2 | 488.1 | 488.0 | 487.9 | 487.8 | 487.7 |
| 130° | 510.2 | 510.3 | 510.5 | 510.5 | 510.5 | 510.5 | 510.5 | 510.5 |
| 132.5° | 531.7 | 531.8 | 531.9 | 531.9 | 531.8 | 531.7 | 531.6 | 531.5 |
| 135° | 561.2 | 561.5 | 561.7 | 562.0 | 562.2 | 562.5 | 562.8 | 563.0 |
| 137.5° | 589.6 | 589.9 | 590.1 | 590.2 | 590.2 | 590.1 | 590.0 | 589.9 |
| 140° | 607.1 | 607.5 | 607.9 | 608.1 | 608.3 | 608.4 | 608.5 | 608.6 |
| 142.5° | 623.3 | 623.6 | 623.9 | 624.1 | 624.1 | 624.1 | 624.1 | 624.2 |
| 145° | 646.5 | 646.7 | 646.8 | 647.0 | 647.2 | 647.5 | 647.8 | 648.0 |
| 147.5° | 666.9 | 667.0 | 667.1 | 667.2 | 667.4 | 667.5 | 667.6 | 667.7 |
| 150° | 679.9 | 679.9 | 679.9 | 680.0 | 680.1 | 680.3 | 680.4 | 680.5 |
| 152.5° | 691.3 | 691.5 | 691.7 | 691.8 | 691.7 | 691.6 | 691.5 | 691.5 |
| 155° | 706.6 | 707.1 | 707.6 | 707.7 | 707.3 | 706.9 | 706.6 | 706.2 |
| 157.5° | 719.8 | 720.5 | 721.1 | 721.1 | 720.5 | 719.8 | 719.2 | 718.5 |
| 160° | 728.2 | 729.0 | 729.8 | 729.8 | 729.0 | 728.2 | 727.5 | 726.7 |
| 162.5° | 735.1 | 735.8 | 736.6 | 736.6 | 735.7 | 734.8 | 734.0 | 733.1 |
| 165° | 744.7 | 745.7 | 746.8 | 746.7 | 745.5 | 744.4 | 743.3 | 742.1 |
| 167.5° | 751.8 | 752.9 | 754.0 | 753.9 | 752.7 | 751.4 | 750.1 | 748.9 |
| 170° | 756.1 | 757.1 | 758.2 | 758.0 | 756.8 | 755.5 | 754.2 | 753.0 |
| 172.5° | 758.9 | 759.9 | 760.9 | 760.7 | 759.4 | 758.0 | 756.6 | 755.2 |
| 175° | 762.1 | 763.2 | 764.4 | 764.2 | 762.7 | 761.1 | 759.6 | 758.1 |
| 177.5° | 763.4 | 764.2 | 765.0 | 764.8 | 763.6 | 762.4 | 761.1 | 759.9 |
| 180° | 762.7 | 762.7 | 762.7 | 762.7 | 762.7 | 762.7 | 762.7 | 762.7 |

(END OF REPORT)