

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: P332840-935

Luminaire Tested: **S124DIW-S1195D470U935-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332840-935
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: S124DIW-S1195D470U935-4F0-1E-UDD-F1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 470 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5804.2 lumens
Efficiency: N/A
Efficacy: 110.8 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

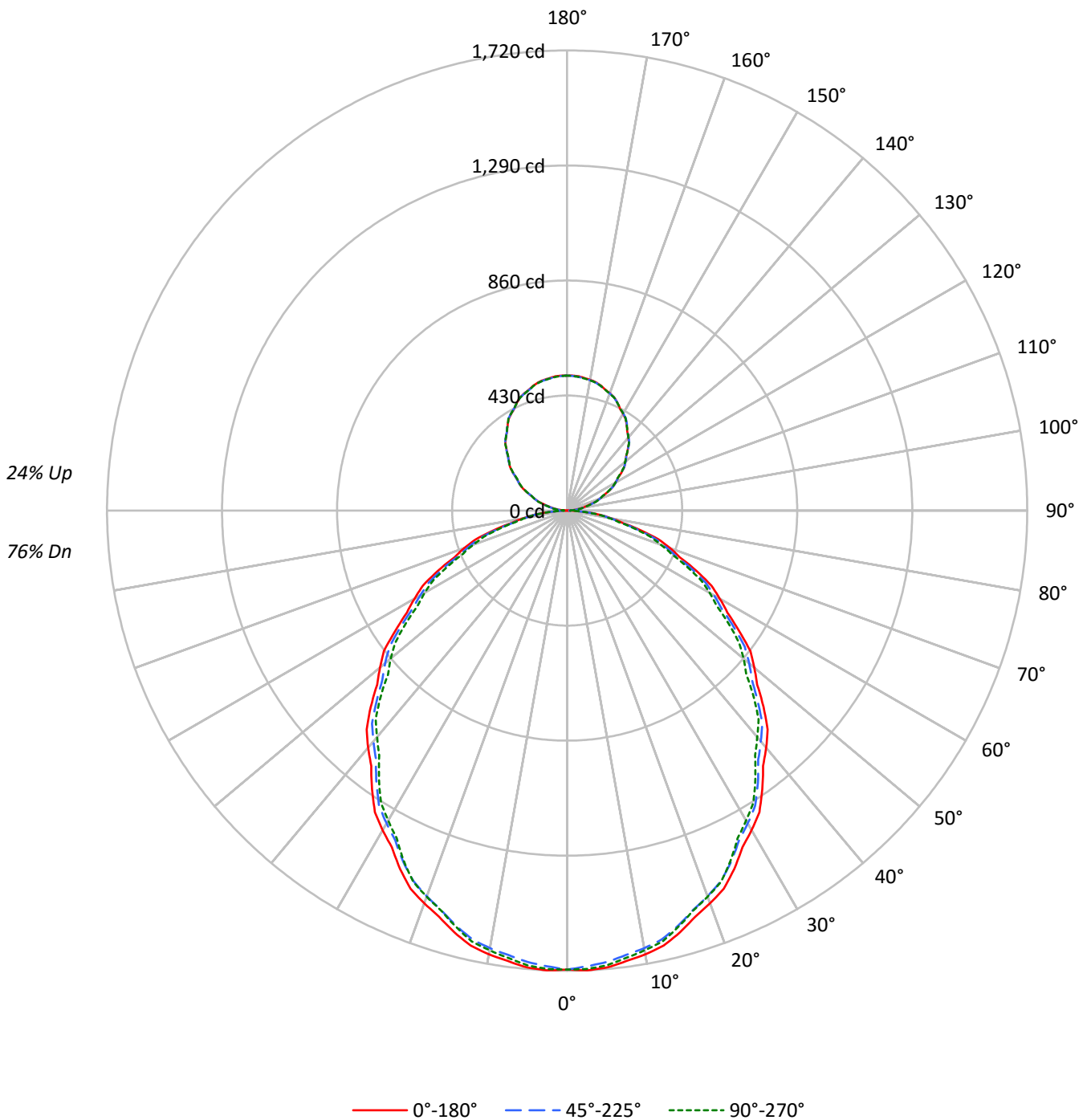
Input Watts (W): 52.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332840-935

CATALOG NUMBER: S124DIW-S1195D470U935-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P332840-935

CATALOG NUMBER: S124DIW-S1195D470U935-4F0-1E-UDD-F1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 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 | 113 | 113 | 113 | 113 | 108 | 108 | 108 | 108 | 98 | 98 | 98 | 88 | 88 | 88 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 76 | | | | | | | | | | | | | |
| 1 | 104 | 99 | 95 | 91 | 98 | 94 | 91 | 88 | 86 | 83 | 80 | 78 | 76 | 74 | 71 | 69 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 64 | | | | | | | | | | | | | |
| 2 | 94 | 86 | 80 | 75 | 89 | 83 | 77 | 72 | 75 | 71 | 67 | 68 | 65 | 62 | 62 | 59 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 53 | | | | | | | | | | | | | |
| 3 | 86 | 76 | 68 | 62 | 82 | 73 | 66 | 60 | 66 | 61 | 56 | 60 | 56 | 52 | 55 | 51 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 45 | | | | | | | | | | | | | |
| 4 | 79 | 67 | 59 | 53 | 75 | 65 | 57 | 51 | 59 | 53 | 48 | 54 | 49 | 45 | 49 | 45 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 39 | | | | | | | | | | | | | |
| 5 | 72 | 60 | 52 | 45 | 69 | 58 | 50 | 44 | 53 | 46 | 41 | 49 | 43 | 39 | 44 | 40 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 34 | | | | | | | | | | | | | |
| 6 | 67 | 54 | 46 | 40 | 63 | 52 | 44 | 39 | 48 | 41 | 36 | 44 | 38 | 34 | 40 | 36 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 30 | | | | | | | | | | | | | |
| 7 | 62 | 49 | 41 | 35 | 59 | 47 | 39 | 34 | 44 | 37 | 32 | 40 | 35 | 30 | 37 | 32 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 26 | | | | | | | | | | | | | |
| 8 | 58 | 45 | 37 | 31 | 55 | 43 | 36 | 30 | 40 | 33 | 29 | 37 | 31 | 27 | 34 | 29 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 24 | | | | | | | | | | | | | |
| 9 | 54 | 41 | 33 | 28 | 51 | 40 | 32 | 27 | 37 | 30 | 26 | 34 | 28 | 25 | 31 | 27 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 21 | | | | | | | | | | | | | |
| 10 | 50 | 38 | 30 | 25 | 48 | 36 | 29 | 25 | 34 | 28 | 23 | 31 | 26 | 22 | 29 | 24 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 19 | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 13852 | 13852 | 13852 |
| 5° | 13893 | 13726 | 13827 |
| 10° | 13806 | 13615 | 13682 |
| 15° | 13639 | 13422 | 13456 |
| 20° | 13418 | 13181 | 13193 |
| 25° | 13165 | 12908 | 12871 |
| 30° | 12855 | 12585 | 12470 |
| 35° | 12534 | 12249 | 12086 |
| 40° | 12199 | 11866 | 11649 |
| 45° | 11851 | 11490 | 11270 |
| 50° | 11465 | 11154 | 10810 |
| 55° | 11050 | 10719 | 10372 |
| 60° | 10634 | 10233 | 9923 |
| 65° | 10164 | 9769 | 9377 |
| 70° | 9640 | 9151 | 8795 |
| 75° | 8833 | 8406 | 8191 |
| 80° | 7861 | 7541 | 7350 |
| 85° | 6873 | 6623 | 6493 |



TEST NUMBER: P332840-935

CATALOG NUMBER: S124DIW-S1195D470U935-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 161.6 | 2.8 |
| 10°-20° | 455.3 | 7.8 |
| 20°-30° | 670.1 | 11.5 |
| 30°-40° | 779.0 | 13.4 |
| 40°-50° | 779.1 | 13.4 |
| 50°-60° | 681.5 | 11.7 |
| 60°-70° | 506.1 | 8.7 |
| 70°-80° | 287.5 | 5.0 |
| 80°-90° | 84.5 | 1.5 |
| 90°-100° | 33.3 | 0.6 |
| 100°-110° | 98.6 | 1.7 |
| 110°-120° | 167.3 | 2.9 |
| 120°-130° | 220.6 | 3.8 |
| 130°-140° | 247.7 | 4.3 |
| 140°-150° | 243.4 | 4.2 |
| 150°-160° | 204.8 | 3.5 |
| 160°-170° | 136.2 | 2.3 |
| 170°-180° | 47.7 | 0.8 |
| 0°-30° | 1287.0 | 22.2 |
| 0°-40° | 2066.0 | 35.6 |
| 0°-60° | 3526.5 | 60.8 |
| 0°-90° | 4404.6 | 75.9 |
| 90°-120° | 299.1 | 5.2 |
| 90°-150° | 1010.9 | 17.4 |
| 90°-180° | 1400.0 | 24.1 |
| 0°-180° | 5804.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1716 | 1716 | 1716 | 1716 | 1716 | |
| 5° | 1714 | 1708 | 1694 | 1708 | 1706 | 163 |
| 15° | 1632 | 1626 | 1606 | 1613 | 1610 | 460 |
| 25° | 1478 | 1468 | 1449 | 1450 | 1445 | 680 |
| 35° | 1272 | 1262 | 1243 | 1233 | 1226 | 795 |
| 45° | 1038 | 1028 | 1006 | 992 | 987 | 800 |
| 55° | 785 | 780 | 762 | 746 | 737 | 703 |
| 65° | 532 | 525 | 511 | 498 | 491 | 527 |
| 75° | 283 | 276 | 270 | 264 | 263 | 301 |
| 85° | 74 | 74 | 72 | 71 | 70 | 82 |
| 90° | 1 | 5 | 9 | 11 | 12 | 5 |
| 95° | 23 | 27 | 30 | 31 | 31 | 26 |
| 105° | 91 | 91 | 93 | 94 | 95 | 96 |
| 115° | 170 | 170 | 169 | 169 | 169 | 168 |
| 125° | 248 | 248 | 247 | 247 | 246 | 221 |
| 135° | 320 | 322 | 322 | 321 | 320 | 247 |
| 145° | 388 | 390 | 390 | 390 | 389 | 243 |
| 155° | 445 | 445 | 444 | 446 | 444 | 205 |
| 165° | 484 | 483 | 482 | 484 | 483 | 136 |
| 175° | 504 | 502 | 501 | 504 | 501 | 48 |
| 180° | 504 | 504 | 504 | 504 | 504 | |



TEST NUMBER: P332840-935

CATALOG NUMBER: S124DIW-S1195D470U935-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1715.8 | 1715.8 | 1715.8 | 1715.8 | 1715.8 | 1715.8 | 1715.8 | 1715.8 | 1715.8 | 1715.8 | 1715.8 |
| 2.5° | 1720.2 | 1719.5 | 1718.7 | 1718.0 | 1717.3 | 1715.5 | 1712.9 | 1710.2 | 1707.5 | 1704.9 | 1707.3 |
| 5° | 1714.4 | 1713.2 | 1712.0 | 1710.8 | 1709.6 | 1707.3 | 1703.9 | 1700.6 | 1697.2 | 1693.8 | 1697.2 |
| 7.5° | 1698.5 | 1697.3 | 1696.1 | 1694.8 | 1693.6 | 1691.2 | 1687.4 | 1683.7 | 1680.0 | 1676.2 | 1679.0 |
| 10° | 1684.2 | 1683.0 | 1681.8 | 1680.5 | 1679.3 | 1676.7 | 1672.8 | 1668.8 | 1664.8 | 1660.9 | 1663.3 |
| 12.5° | 1665.5 | 1664.3 | 1663.0 | 1661.8 | 1660.6 | 1657.9 | 1653.7 | 1649.5 | 1645.3 | 1641.1 | 1643.7 |
| 15° | 1631.9 | 1630.7 | 1629.5 | 1628.3 | 1627.0 | 1624.2 | 1619.5 | 1615.0 | 1610.4 | 1605.9 | 1607.7 |
| 17.5° | 1591.6 | 1590.0 | 1588.5 | 1587.0 | 1585.4 | 1582.5 | 1578.1 | 1573.8 | 1569.5 | 1565.1 | 1566.3 |
| 20° | 1561.9 | 1560.3 | 1558.8 | 1557.3 | 1555.7 | 1552.6 | 1548.1 | 1543.5 | 1539.0 | 1534.3 | 1535.2 |
| 22.5° | 1529.9 | 1527.9 | 1526.0 | 1523.9 | 1521.9 | 1518.5 | 1514.0 | 1509.4 | 1504.9 | 1500.2 | 1501.9 |
| 25° | 1478.0 | 1475.8 | 1473.7 | 1471.5 | 1469.4 | 1466.2 | 1461.9 | 1457.7 | 1453.4 | 1449.1 | 1449.4 |
| 27.5° | 1418.6 | 1416.3 | 1414.2 | 1412.0 | 1409.8 | 1406.7 | 1402.7 | 1398.8 | 1394.8 | 1390.8 | 1390.1 |
| 30° | 1379.0 | 1376.6 | 1374.1 | 1371.7 | 1369.2 | 1366.0 | 1362.0 | 1358.1 | 1354.1 | 1350.1 | 1348.9 |
| 32.5° | 1337.2 | 1335.0 | 1332.8 | 1330.6 | 1328.4 | 1325.2 | 1320.9 | 1316.7 | 1312.5 | 1308.3 | 1306.8 |
| 35° | 1271.8 | 1269.6 | 1267.5 | 1265.3 | 1263.2 | 1260.0 | 1255.7 | 1251.5 | 1247.2 | 1242.9 | 1240.7 |
| 37.5° | 1202.7 | 1200.8 | 1198.9 | 1196.9 | 1194.9 | 1191.6 | 1187.1 | 1182.5 | 1177.8 | 1173.3 | 1171.0 |
| 40° | 1157.6 | 1155.2 | 1152.7 | 1150.3 | 1147.9 | 1144.4 | 1139.8 | 1135.1 | 1130.6 | 1126.0 | 1122.9 |
| 42.5° | 1109.2 | 1107.8 | 1106.3 | 1104.8 | 1103.4 | 1100.1 | 1095.0 | 1089.9 | 1084.9 | 1079.8 | 1076.2 |
| 45° | 1038.0 | 1035.9 | 1033.7 | 1031.6 | 1029.5 | 1026.0 | 1021.1 | 1016.2 | 1011.2 | 1006.4 | 1003.1 |
| 47.5° | 963.5 | 962.0 | 960.5 | 959.1 | 957.6 | 954.7 | 950.1 | 945.6 | 941.1 | 936.6 | 932.8 |
| 50° | 912.9 | 911.7 | 910.4 | 909.2 | 908.0 | 905.3 | 901.0 | 896.7 | 892.4 | 888.1 | 883.9 |
| 52.5° | 863.4 | 861.9 | 860.5 | 859.0 | 857.6 | 854.5 | 850.1 | 845.5 | 841.0 | 836.5 | 832.7 |
| 55° | 785.1 | 784.1 | 783.3 | 782.3 | 781.4 | 778.8 | 774.5 | 770.3 | 765.9 | 761.6 | 758.0 |
| 57.5° | 710.2 | 709.2 | 708.2 | 707.1 | 706.1 | 703.4 | 699.2 | 695.0 | 690.8 | 686.6 | 683.1 |
| 60° | 658.6 | 657.0 | 655.5 | 654.0 | 652.5 | 649.7 | 645.8 | 641.8 | 637.7 | 633.8 | 631.0 |
| 62.5° | 608.0 | 606.7 | 605.4 | 604.1 | 602.9 | 600.1 | 595.9 | 591.7 | 587.5 | 583.2 | 580.7 |
| 65° | 532.1 | 530.5 | 529.0 | 527.4 | 526.0 | 523.7 | 520.6 | 517.5 | 514.5 | 511.4 | 508.4 |
| 67.5° | 455.6 | 454.3 | 452.8 | 451.4 | 450.0 | 447.8 | 444.9 | 442.0 | 439.0 | 436.1 | 433.2 |
| 70° | 408.4 | 406.2 | 404.1 | 401.9 | 399.8 | 397.5 | 395.0 | 392.6 | 390.1 | 387.7 | 385.3 |
| 72.5° | 357.7 | 355.6 | 353.4 | 351.3 | 349.2 | 347.2 | 345.2 | 343.2 | 341.3 | 339.3 | 337.3 |
| 75° | 283.2 | 281.7 | 280.2 | 278.6 | 277.1 | 275.6 | 274.1 | 272.5 | 271.0 | 269.5 | 268.3 |
| 77.5° | 212.0 | 211.3 | 210.7 | 210.0 | 209.3 | 208.3 | 207.0 | 205.6 | 204.3 | 202.9 | 202.6 |
| 80° | 169.1 | 168.2 | 167.3 | 166.3 | 165.5 | 164.7 | 164.1 | 163.4 | 162.8 | 162.2 | 161.6 |
| 82.5° | 127.3 | 126.9 | 126.5 | 126.1 | 125.6 | 125.4 | 125.2 | 125.1 | 124.9 | 124.8 | 124.5 |
| 85° | 74.2 | 74.2 | 74.2 | 74.2 | 74.2 | 74.0 | 73.4 | 72.8 | 72.1 | 71.5 | 71.5 |
| 87.5° | 28.8 | 28.8 | 28.8 | 28.7 | 28.6 | 28.5 | 28.4 | 28.3 | 28.2 | 28.2 | 28.2 |
| 90° | 1.2 | 2.2 | 3.1 | 4.0 | 5.0 | 5.8 | 6.5 | 7.2 | 7.9 | 8.6 | 9.1 |
| 92.5° | 8.4 | 9.5 | 10.5 | 11.6 | 12.7 | 13.5 | 14.0 | 14.5 | 15.0 | 15.4 | 15.8 |
| 95° | 23.4 | 24.2 | 25.0 | 25.7 | 26.5 | 27.2 | 27.8 | 28.4 | 29.0 | 29.6 | 29.9 |
| 97.5° | 40.9 | 41.5 | 42.1 | 42.8 | 43.4 | 44.1 | 44.8 | 45.5 | 46.1 | 46.9 | 47.2 |
| 100° | 54.6 | 54.9 | 55.3 | 55.6 | 56.1 | 56.6 | 57.3 | 58.1 | 58.9 | 59.7 | 59.8 |
| 102.5° | 69.0 | 69.1 | 69.2 | 69.4 | 69.6 | 70.0 | 70.7 | 71.4 | 72.1 | 72.8 | 73.0 |
| 105° | 90.9 | 91.0 | 91.1 | 91.2 | 91.3 | 91.4 | 91.8 | 92.1 | 92.5 | 92.8 | 93.1 |
| 107.5° | 113.9 | 114.0 | 114.2 | 114.3 | 114.3 | 114.4 | 114.5 | 114.5 | 114.6 | 114.6 | 114.9 |
| 110° | 129.5 | 129.7 | 129.8 | 130.0 | 130.2 | 130.3 | 130.2 | 130.1 | 130.0 | 129.9 | 129.8 |



TEST NUMBER: P332840-935

CATALOG NUMBER: S124DIW-S1195D470U935-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 145.8 | 145.8 | 145.9 | 145.9 | 145.9 | 145.9 | 145.7 | 145.5 | 145.3 | 145.3 | 145.2 |
| 115° | 170.1 | 170.1 | 170.1 | 170.1 | 170.1 | 170.0 | 169.9 | 169.7 | 169.5 | 169.4 | 169.3 |
| 117.5° | 193.0 | 193.1 | 193.2 | 193.3 | 193.3 | 193.3 | 193.2 | 193.0 | 193.0 | 192.8 | 192.5 |
| 120° | 208.4 | 208.7 | 209.1 | 209.4 | 209.7 | 209.7 | 209.5 | 209.2 | 209.0 | 208.7 | 208.3 |
| 122.5° | 224.3 | 224.4 | 224.5 | 224.6 | 224.8 | 224.8 | 224.7 | 224.5 | 224.5 | 224.4 | 224.0 |
| 125° | 247.7 | 247.7 | 247.7 | 247.7 | 247.7 | 247.7 | 247.6 | 247.5 | 247.5 | 247.4 | 247.2 |
| 127.5° | 269.1 | 269.3 | 269.6 | 269.8 | 270.1 | 270.2 | 270.0 | 269.8 | 269.8 | 269.6 | 269.4 |
| 130° | 284.0 | 284.3 | 284.6 | 284.8 | 285.1 | 285.2 | 285.2 | 285.2 | 285.2 | 285.2 | 285.0 |
| 132.5° | 299.3 | 299.5 | 299.7 | 299.9 | 300.1 | 300.1 | 300.1 | 300.0 | 300.0 | 299.9 | 299.7 |
| 135° | 319.5 | 320.0 | 320.6 | 321.1 | 321.6 | 321.8 | 321.8 | 321.8 | 321.8 | 321.8 | 321.7 |
| 137.5° | 341.6 | 341.8 | 342.0 | 342.2 | 342.5 | 342.7 | 342.9 | 343.0 | 343.1 | 343.3 | 343.0 |
| 140° | 356.2 | 356.4 | 356.5 | 356.7 | 356.9 | 357.0 | 357.0 | 357.0 | 357.0 | 357.0 | 356.9 |
| 142.5° | 369.6 | 369.8 | 370.0 | 370.1 | 370.3 | 370.4 | 370.3 | 370.2 | 370.1 | 370.1 | 370.1 |
| 145° | 388.2 | 388.6 | 388.9 | 389.3 | 389.6 | 389.8 | 389.9 | 389.9 | 390.0 | 390.1 | 390.0 |
| 147.5° | 406.7 | 407.0 | 407.4 | 407.9 | 408.3 | 408.5 | 408.4 | 408.3 | 408.3 | 408.2 | 408.1 |
| 150° | 417.8 | 418.2 | 418.5 | 418.9 | 419.2 | 419.4 | 419.4 | 419.4 | 419.4 | 419.4 | 419.4 |
| 152.5° | 428.4 | 428.7 | 428.9 | 429.1 | 429.3 | 429.5 | 429.5 | 429.6 | 429.6 | 429.7 | 429.9 |
| 155° | 444.8 | 444.8 | 444.8 | 444.8 | 444.8 | 444.7 | 444.6 | 444.5 | 444.4 | 444.4 | 444.7 |
| 157.5° | 458.5 | 458.3 | 458.2 | 458.1 | 457.9 | 457.8 | 457.8 | 457.8 | 457.7 | 457.7 | 458.0 |
| 160° | 466.7 | 466.6 | 466.5 | 466.4 | 466.3 | 466.2 | 466.1 | 466.1 | 466.0 | 465.9 | 466.1 |
| 162.5° | 474.2 | 473.9 | 473.6 | 473.5 | 473.2 | 473.0 | 472.9 | 472.9 | 472.8 | 472.7 | 473.2 |
| 165° | 484.1 | 483.9 | 483.6 | 483.4 | 483.1 | 482.9 | 482.8 | 482.6 | 482.4 | 482.2 | 482.8 |
| 167.5° | 491.9 | 491.5 | 491.2 | 490.9 | 490.4 | 490.3 | 490.3 | 490.3 | 490.3 | 490.3 | 490.9 |
| 170° | 496.3 | 495.8 | 495.4 | 495.0 | 494.6 | 494.4 | 494.5 | 494.6 | 494.6 | 494.7 | 495.2 |
| 172.5° | 499.4 | 499.0 | 498.7 | 498.3 | 497.9 | 497.7 | 497.7 | 497.8 | 497.8 | 497.8 | 498.4 |
| 175° | 503.7 | 503.3 | 502.8 | 502.4 | 502.0 | 501.7 | 501.6 | 501.5 | 501.4 | 501.4 | 502.0 |
| 177.5° | 505.1 | 504.7 | 504.4 | 504.0 | 503.7 | 503.5 | 503.5 | 503.5 | 503.5 | 503.5 | 504.0 |
| 180° | 504.5 | 504.5 | 504.5 | 504.5 | 504.5 | 504.5 | 504.5 | 504.5 | 504.5 | 504.5 | 504.5 |



TEST NUMBER: P332840-935

CATALOG NUMBER: S124DIW-S1195D470U935-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1715.8 | 1715.8 | 1715.8 | 1715.8 | 1715.8 | 1715.8 | 1715.8 | 1715.8 |
| 2.5° | 1709.7 | 1712.2 | 1714.6 | 1715.7 | 1715.5 | 1715.2 | 1714.9 | 1714.7 |
| 5° | 1700.6 | 1703.9 | 1707.3 | 1708.7 | 1708.1 | 1707.4 | 1706.8 | 1706.2 |
| 7.5° | 1681.6 | 1684.3 | 1687.0 | 1688.2 | 1687.8 | 1687.4 | 1687.0 | 1686.7 |
| 10° | 1665.7 | 1668.2 | 1670.6 | 1671.5 | 1670.9 | 1670.3 | 1669.7 | 1669.0 |
| 12.5° | 1646.4 | 1649.1 | 1651.8 | 1652.7 | 1651.8 | 1651.0 | 1650.1 | 1649.2 |
| 15° | 1609.5 | 1611.4 | 1613.2 | 1613.6 | 1612.7 | 1611.8 | 1610.8 | 1610.0 |
| 17.5° | 1567.5 | 1568.7 | 1569.8 | 1570.0 | 1569.4 | 1568.8 | 1568.2 | 1567.6 |
| 20° | 1536.2 | 1537.1 | 1538.0 | 1538.2 | 1537.6 | 1537.0 | 1536.4 | 1535.7 |
| 22.5° | 1503.6 | 1505.2 | 1506.8 | 1507.1 | 1506.1 | 1504.9 | 1503.8 | 1502.7 |
| 25° | 1449.8 | 1450.0 | 1450.4 | 1449.8 | 1448.6 | 1447.4 | 1446.2 | 1445.0 |
| 27.5° | 1389.3 | 1388.6 | 1387.8 | 1386.7 | 1385.2 | 1383.7 | 1382.2 | 1380.6 |
| 30° | 1347.6 | 1346.4 | 1345.2 | 1343.8 | 1342.3 | 1340.8 | 1339.3 | 1337.7 |
| 32.5° | 1305.4 | 1303.9 | 1302.4 | 1301.0 | 1299.4 | 1297.9 | 1296.4 | 1294.9 |
| 35° | 1238.6 | 1236.5 | 1234.3 | 1232.5 | 1231.0 | 1229.4 | 1227.9 | 1226.4 |
| 37.5° | 1168.6 | 1166.3 | 1164.0 | 1161.8 | 1159.9 | 1157.8 | 1155.8 | 1153.7 |
| 40° | 1119.9 | 1116.8 | 1113.8 | 1111.5 | 1110.0 | 1108.5 | 1106.9 | 1105.4 |
| 42.5° | 1072.7 | 1069.2 | 1065.7 | 1063.3 | 1062.3 | 1061.3 | 1060.2 | 1059.2 |
| 45° | 999.7 | 996.3 | 993.0 | 990.8 | 989.9 | 988.9 | 988.1 | 987.1 |
| 47.5° | 929.0 | 925.2 | 921.4 | 918.3 | 916.0 | 913.7 | 911.4 | 909.0 |
| 50° | 879.6 | 875.3 | 871.1 | 868.0 | 866.2 | 864.4 | 862.5 | 860.7 |
| 52.5° | 828.9 | 825.1 | 821.3 | 818.3 | 816.0 | 813.6 | 811.3 | 809.0 |
| 55° | 754.3 | 750.7 | 747.0 | 744.2 | 742.4 | 740.6 | 738.7 | 736.9 |
| 57.5° | 679.7 | 676.1 | 672.7 | 670.0 | 668.3 | 666.5 | 664.7 | 663.0 |
| 60° | 628.3 | 625.6 | 622.8 | 620.7 | 619.1 | 617.6 | 616.1 | 614.6 |
| 62.5° | 578.2 | 575.7 | 573.2 | 571.2 | 569.6 | 568.1 | 566.6 | 565.1 |
| 65° | 505.3 | 502.3 | 499.2 | 497.0 | 495.4 | 493.9 | 492.3 | 490.9 |
| 67.5° | 430.2 | 427.3 | 424.4 | 422.7 | 422.2 | 421.8 | 421.4 | 420.9 |
| 70° | 382.8 | 380.4 | 377.9 | 376.3 | 375.3 | 374.4 | 373.5 | 372.6 |
| 72.5° | 335.4 | 333.5 | 331.5 | 330.0 | 329.2 | 328.2 | 327.3 | 326.4 |
| 75° | 267.0 | 265.8 | 264.6 | 263.8 | 263.6 | 263.2 | 262.9 | 262.6 |
| 77.5° | 202.2 | 201.8 | 201.5 | 200.9 | 200.1 | 199.3 | 198.5 | 197.7 |
| 80° | 161.0 | 160.4 | 159.8 | 159.4 | 159.0 | 158.7 | 158.4 | 158.1 |
| 82.5° | 124.1 | 123.7 | 123.4 | 123.0 | 122.7 | 122.4 | 122.1 | 121.8 |
| 85° | 71.5 | 71.5 | 71.5 | 71.4 | 71.0 | 70.7 | 70.4 | 70.1 |
| 87.5° | 28.3 | 28.4 | 28.5 | 28.6 | 28.7 | 28.7 | 28.7 | 28.8 |
| 90° | 9.6 | 10.2 | 10.7 | 11.0 | 11.2 | 11.4 | 11.5 | 11.7 |
| 92.5° | 16.1 | 16.4 | 16.7 | 16.9 | 17.0 | 17.1 | 17.2 | 17.3 |
| 95° | 30.1 | 30.4 | 30.7 | 30.8 | 30.8 | 30.8 | 30.8 | 30.8 |
| 97.5° | 47.5 | 47.9 | 48.1 | 48.3 | 48.3 | 48.3 | 48.3 | 48.3 |
| 100° | 60.0 | 60.2 | 60.4 | 60.4 | 60.4 | 60.4 | 60.4 | 60.4 |
| 102.5° | 73.3 | 73.5 | 73.8 | 74.0 | 74.0 | 74.0 | 74.1 | 74.2 |
| 105° | 93.4 | 93.7 | 93.9 | 94.2 | 94.5 | 94.7 | 95.0 | 95.2 |
| 107.5° | 115.1 | 115.4 | 115.6 | 115.7 | 115.7 | 115.7 | 115.6 | 115.6 |
| 110° | 129.6 | 129.4 | 129.2 | 129.2 | 129.5 | 129.8 | 130.0 | 130.3 |



TEST NUMBER: P332840-935

CATALOG NUMBER: S124DIW-S1195D470U935-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 145.2 | 145.1 | 145.1 | 145.1 | 145.2 | 145.2 | 145.3 | 145.3 |
| 115° | 169.2 | 169.1 | 169.0 | 168.9 | 168.8 | 168.8 | 168.7 | 168.6 |
| 117.5° | 192.3 | 191.9 | 191.7 | 191.4 | 191.2 | 191.1 | 190.9 | 190.7 |
| 120° | 207.8 | 207.4 | 207.0 | 206.9 | 207.1 | 207.2 | 207.4 | 207.6 |
| 122.5° | 223.8 | 223.4 | 223.2 | 222.8 | 222.6 | 222.2 | 221.9 | 221.6 |
| 125° | 247.0 | 246.8 | 246.7 | 246.5 | 246.3 | 246.2 | 246.0 | 245.8 |
| 127.5° | 269.2 | 269.1 | 268.9 | 268.7 | 268.6 | 268.5 | 268.4 | 268.2 |
| 130° | 284.8 | 284.6 | 284.5 | 284.2 | 283.9 | 283.5 | 283.2 | 282.8 |
| 132.5° | 299.5 | 299.4 | 299.2 | 299.0 | 298.9 | 298.8 | 298.6 | 298.5 |
| 135° | 321.5 | 321.3 | 321.2 | 321.0 | 320.7 | 320.5 | 320.2 | 319.9 |
| 137.5° | 342.8 | 342.6 | 342.3 | 342.2 | 342.3 | 342.3 | 342.4 | 342.5 |
| 140° | 356.8 | 356.7 | 356.6 | 356.5 | 356.5 | 356.4 | 356.3 | 356.2 |
| 142.5° | 370.1 | 370.1 | 370.1 | 370.0 | 370.0 | 370.0 | 370.0 | 370.0 |
| 145° | 389.9 | 389.9 | 389.8 | 389.6 | 389.3 | 389.1 | 388.8 | 388.6 |
| 147.5° | 408.0 | 407.9 | 407.9 | 407.9 | 407.8 | 407.7 | 407.6 | 407.5 |
| 150° | 419.4 | 419.4 | 419.4 | 419.4 | 419.3 | 419.2 | 419.1 | 419.0 |
| 152.5° | 430.2 | 430.3 | 430.6 | 430.5 | 430.3 | 430.1 | 429.9 | 429.6 |
| 155° | 445.1 | 445.4 | 445.7 | 445.7 | 445.4 | 445.1 | 444.7 | 444.4 |
| 157.5° | 458.2 | 458.5 | 458.7 | 458.7 | 458.5 | 458.1 | 457.9 | 457.5 |
| 160° | 466.4 | 466.7 | 466.9 | 466.8 | 466.4 | 466.0 | 465.5 | 465.0 |
| 162.5° | 473.6 | 474.2 | 474.6 | 474.6 | 474.2 | 473.7 | 473.3 | 472.9 |
| 165° | 483.3 | 483.8 | 484.3 | 484.4 | 484.1 | 483.7 | 483.4 | 483.0 |
| 167.5° | 491.4 | 491.9 | 492.4 | 492.4 | 491.9 | 491.4 | 490.8 | 490.3 |
| 170° | 495.8 | 496.3 | 496.8 | 496.7 | 496.1 | 495.5 | 494.9 | 494.3 |
| 172.5° | 499.0 | 499.6 | 500.2 | 500.2 | 499.6 | 498.9 | 498.3 | 497.7 |
| 175° | 502.6 | 503.2 | 503.8 | 503.8 | 503.2 | 502.6 | 502.0 | 501.4 |
| 177.5° | 504.5 | 505.0 | 505.5 | 505.4 | 504.9 | 504.4 | 503.8 | 503.3 |
| 180° | 504.5 | 504.5 | 504.5 | 504.5 | 504.5 | 504.5 | 504.5 | 504.5 |

(END OF REPORT)