

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: P333435-840

Luminaire Tested: **S125DIW-S1090D470U840-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333435-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DIW-S1090D470U840-4F0-1E-UDD-F1
Description: DEFINE 5 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1090 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: 6126.6 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.31
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Semi-Direct

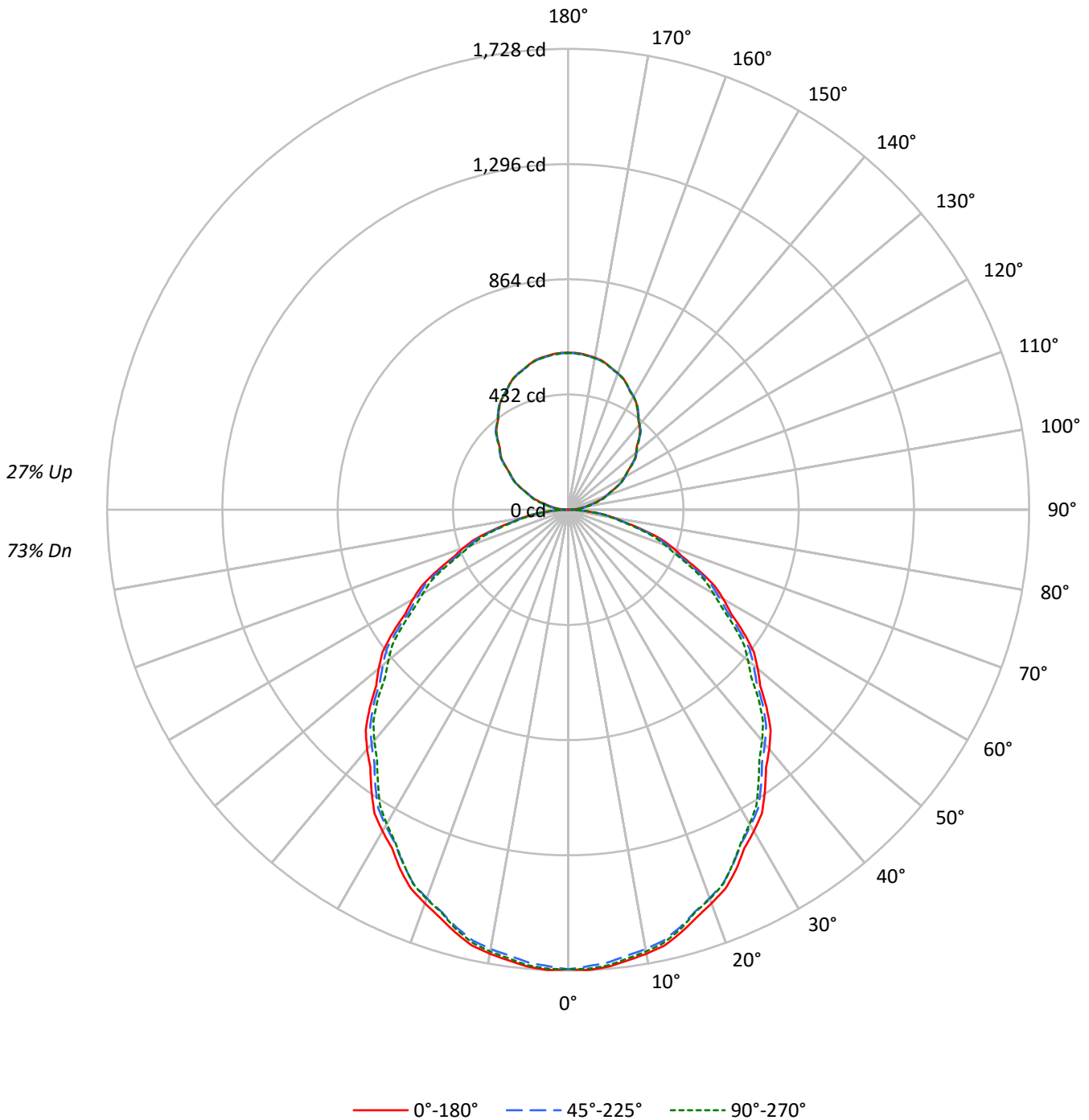
Input Watts (W): 46.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333435-840

CATALOG NUMBER: S125DIW-S1090D470U840-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P333435-840

CATALOG NUMBER: S125DIW-S1090D470U840-4F0-1E-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 | 113 | 113 | 113 | 113 | 107 | 107 | 107 | 107 | 96 | 96 | 96 | 86 | 86 | 86 | 77 | 77 | 77 | 73 |
| 1 | 103 | 98 | 94 | 91 | 97 | 94 | 90 | 87 | 84 | 82 | 79 | 76 | 74 | 72 | 68 | 67 | 65 | 61 |
| 2 | 94 | 86 | 79 | 74 | 89 | 82 | 76 | 71 | 74 | 69 | 65 | 67 | 63 | 60 | 60 | 57 | 55 | 51 |
| 3 | 85 | 76 | 68 | 62 | 81 | 72 | 65 | 59 | 65 | 60 | 55 | 59 | 55 | 51 | 53 | 50 | 47 | 44 |
| 4 | 78 | 67 | 59 | 52 | 74 | 64 | 56 | 51 | 58 | 52 | 47 | 53 | 48 | 44 | 48 | 44 | 40 | 37 |
| 5 | 72 | 60 | 51 | 45 | 68 | 57 | 49 | 44 | 52 | 46 | 41 | 47 | 42 | 38 | 43 | 39 | 35 | 32 |
| 6 | 66 | 54 | 45 | 39 | 63 | 51 | 44 | 38 | 47 | 40 | 36 | 43 | 37 | 33 | 39 | 34 | 31 | 28 |
| 7 | 62 | 49 | 40 | 35 | 58 | 47 | 39 | 34 | 43 | 36 | 31 | 39 | 34 | 29 | 36 | 31 | 28 | 25 |
| 8 | 57 | 44 | 36 | 31 | 54 | 43 | 35 | 30 | 39 | 33 | 28 | 36 | 30 | 26 | 33 | 28 | 25 | 23 |
| 9 | 53 | 41 | 33 | 28 | 51 | 39 | 32 | 27 | 36 | 30 | 25 | 33 | 28 | 24 | 30 | 26 | 22 | 20 |
| 10 | 50 | 37 | 30 | 25 | 47 | 36 | 29 | 24 | 33 | 27 | 23 | 31 | 25 | 22 | 28 | 24 | 20 | 18 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 11129 | 11129 | 11129 |
| 5° | 11154 | 11048 | 11119 |
| 10° | 11086 | 10970 | 11032 |
| 15° | 10965 | 10838 | 10884 |
| 20° | 10794 | 10653 | 10672 |
| 25° | 10608 | 10434 | 10424 |
| 30° | 10380 | 10197 | 10147 |
| 35° | 10136 | 9942 | 9802 |
| 40° | 9885 | 9666 | 9528 |
| 45° | 9613 | 9414 | 9227 |
| 50° | 9315 | 9109 | 8835 |
| 55° | 9026 | 8765 | 8519 |
| 60° | 8681 | 8418 | 8117 |
| 65° | 8270 | 8000 | 7728 |
| 70° | 7878 | 7517 | 7260 |
| 75° | 7177 | 6939 | 6700 |
| 80° | 6390 | 6289 | 6133 |
| 85° | 5550 | 5654 | 5350 |



TEST NUMBER: P333435-840

CATALOG NUMBER: S125DIW-S1090D470U840-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 162.5 | 2.7 |
| 10°-20° | 459.0 | 7.5 |
| 20°-30° | 677.7 | 11.1 |
| 30°-40° | 790.7 | 12.9 |
| 40°-50° | 794.2 | 13.0 |
| 50°-60° | 697.1 | 11.4 |
| 60°-70° | 519.5 | 8.5 |
| 70°-80° | 297.0 | 4.8 |
| 80°-90° | 87.7 | 1.4 |
| 90°-100° | 39.4 | 0.6 |
| 100°-110° | 116.3 | 1.9 |
| 110°-120° | 197.1 | 3.2 |
| 120°-130° | 259.3 | 4.2 |
| 130°-140° | 290.6 | 4.7 |
| 140°-150° | 284.8 | 4.6 |
| 150°-160° | 239.2 | 3.9 |
| 160°-170° | 159.0 | 2.6 |
| 170°-180° | 55.6 | 0.9 |
| 0°-30° | 1299.1 | 21.2 |
| 0°-40° | 2089.8 | 34.1 |
| 0°-60° | 3581.2 | 58.5 |
| 0°-90° | 4485.3 | 73.2 |
| 90°-120° | 352.8 | 5.8 |
| 90°-150° | 1187.4 | 19.4 |
| 90°-180° | 1641.0 | 26.8 |
| 0°-180° | 6126.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1723 | 1723 | 1723 | 1723 | 1723 | |
| 5° | 1720 | 1717 | 1704 | 1716 | 1715 | 163 |
| 15° | 1640 | 1635 | 1621 | 1627 | 1628 | 462 |
| 25° | 1489 | 1481 | 1464 | 1466 | 1463 | 685 |
| 35° | 1286 | 1279 | 1261 | 1254 | 1243 | 804 |
| 45° | 1052 | 1046 | 1031 | 1015 | 1010 | 811 |
| 55° | 802 | 797 | 778 | 766 | 757 | 715 |
| 65° | 541 | 538 | 524 | 512 | 506 | 537 |
| 75° | 288 | 285 | 278 | 274 | 268 | 307 |
| 85° | 75 | 76 | 76 | 75 | 72 | 84 |
| 90° | 0 | 4 | 7 | 10 | 11 | 6 |
| 95° | 30 | 31 | 35 | 38 | 39 | 32 |
| 105° | 104 | 107 | 109 | 112 | 114 | 111 |
| 115° | 197 | 199 | 200 | 200 | 199 | 195 |
| 125° | 288 | 290 | 291 | 290 | 290 | 258 |
| 135° | 374 | 377 | 378 | 378 | 376 | 288 |
| 145° | 454 | 455 | 457 | 457 | 455 | 283 |
| 155° | 519 | 519 | 520 | 521 | 519 | 239 |
| 165° | 564 | 564 | 564 | 565 | 563 | 159 |
| 175° | 587 | 585 | 585 | 587 | 584 | 56 |
| 180° | 588 | 588 | 588 | 588 | 588 | |



TEST NUMBER: P333435-840

CATALOG NUMBER: S125DIW-S1090D470U840-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1723.2 | 1723.2 | 1723.2 | 1723.2 | 1723.2 | 1723.2 | 1723.2 | 1723.2 | 1723.2 | 1723.2 | 1723.2 |
| 2.5° | 1727.6 | 1726.9 | 1726.1 | 1725.4 | 1724.6 | 1723.0 | 1720.6 | 1718.2 | 1715.8 | 1713.3 | 1715.8 |
| 5° | 1720.5 | 1719.9 | 1719.3 | 1718.7 | 1718.1 | 1716.3 | 1713.2 | 1710.2 | 1707.2 | 1704.1 | 1706.9 |
| 7.5° | 1704.7 | 1704.0 | 1703.4 | 1702.8 | 1702.2 | 1700.2 | 1696.9 | 1693.5 | 1690.2 | 1686.9 | 1689.6 |
| 10° | 1690.5 | 1689.9 | 1689.3 | 1688.7 | 1688.1 | 1686.1 | 1682.7 | 1679.4 | 1676.1 | 1672.7 | 1675.2 |
| 12.5° | 1673.0 | 1671.9 | 1670.8 | 1669.7 | 1668.7 | 1666.6 | 1663.4 | 1660.4 | 1657.3 | 1654.2 | 1656.2 |
| 15° | 1640.0 | 1639.1 | 1638.2 | 1637.3 | 1636.4 | 1634.3 | 1630.9 | 1627.6 | 1624.3 | 1620.9 | 1622.4 |
| 17.5° | 1602.2 | 1600.8 | 1599.4 | 1598.1 | 1596.8 | 1594.4 | 1590.9 | 1587.5 | 1584.1 | 1580.5 | 1582.5 |
| 20° | 1570.5 | 1569.9 | 1569.3 | 1568.7 | 1568.1 | 1565.8 | 1561.9 | 1557.9 | 1554.0 | 1550.0 | 1552.2 |
| 22.5° | 1538.8 | 1537.8 | 1536.7 | 1535.6 | 1534.5 | 1532.1 | 1528.4 | 1524.7 | 1521.1 | 1517.3 | 1518.7 |
| 25° | 1488.7 | 1487.2 | 1485.7 | 1484.2 | 1482.7 | 1480.0 | 1476.0 | 1472.1 | 1468.1 | 1464.2 | 1464.8 |
| 27.5° | 1430.1 | 1429.2 | 1428.3 | 1427.3 | 1426.4 | 1424.0 | 1419.9 | 1415.8 | 1411.8 | 1407.8 | 1407.9 |
| 30° | 1391.9 | 1391.0 | 1390.1 | 1389.2 | 1388.3 | 1385.5 | 1381.0 | 1376.4 | 1371.9 | 1367.4 | 1366.8 |
| 32.5° | 1350.5 | 1349.1 | 1347.7 | 1346.3 | 1344.9 | 1342.2 | 1338.1 | 1334.0 | 1330.0 | 1326.0 | 1324.8 |
| 35° | 1285.6 | 1284.3 | 1283.1 | 1281.9 | 1280.7 | 1278.0 | 1273.7 | 1269.5 | 1265.3 | 1261.0 | 1259.5 |
| 37.5° | 1218.2 | 1216.7 | 1215.2 | 1213.7 | 1212.1 | 1209.4 | 1205.4 | 1201.4 | 1197.4 | 1193.5 | 1191.1 |
| 40° | 1172.5 | 1170.9 | 1169.4 | 1167.9 | 1166.4 | 1163.5 | 1159.2 | 1155.0 | 1150.7 | 1146.5 | 1143.8 |
| 42.5° | 1123.4 | 1122.1 | 1120.8 | 1119.5 | 1118.2 | 1115.5 | 1111.3 | 1107.0 | 1102.8 | 1098.5 | 1096.0 |
| 45° | 1052.5 | 1051.3 | 1050.1 | 1048.8 | 1047.6 | 1045.2 | 1041.6 | 1037.9 | 1034.3 | 1030.7 | 1027.0 |
| 47.5° | 976.1 | 976.1 | 976.2 | 976.3 | 976.3 | 974.2 | 969.9 | 965.4 | 961.1 | 956.7 | 953.0 |
| 50° | 927.1 | 926.1 | 925.2 | 924.3 | 923.4 | 921.1 | 917.5 | 913.8 | 910.2 | 906.6 | 902.6 |
| 52.5° | 876.9 | 876.2 | 875.6 | 874.8 | 874.2 | 871.9 | 868.1 | 864.1 | 860.3 | 856.4 | 852.9 |
| 55° | 801.6 | 800.7 | 799.8 | 798.9 | 798.0 | 795.4 | 791.1 | 786.9 | 782.6 | 778.4 | 775.7 |
| 57.5° | 722.3 | 721.8 | 721.3 | 720.8 | 720.3 | 718.3 | 714.7 | 711.1 | 707.6 | 704.0 | 700.4 |
| 60° | 672.1 | 670.9 | 669.6 | 668.4 | 667.2 | 665.0 | 661.7 | 658.3 | 655.0 | 651.7 | 648.6 |
| 62.5° | 619.8 | 618.7 | 617.8 | 616.8 | 615.9 | 614.0 | 611.1 | 608.2 | 605.4 | 602.6 | 599.3 |
| 65° | 541.2 | 540.6 | 540.0 | 539.4 | 538.8 | 536.8 | 533.5 | 530.2 | 526.8 | 523.5 | 520.8 |
| 67.5° | 465.1 | 463.8 | 462.6 | 461.3 | 460.1 | 458.2 | 455.7 | 453.2 | 450.7 | 448.3 | 446.0 |
| 70° | 417.2 | 415.7 | 414.1 | 412.6 | 411.1 | 409.0 | 406.3 | 403.5 | 400.8 | 398.1 | 396.3 |
| 72.5° | 364.9 | 363.8 | 362.7 | 361.7 | 360.7 | 359.3 | 357.6 | 355.8 | 354.1 | 352.2 | 350.2 |
| 75° | 287.6 | 287.0 | 286.4 | 285.8 | 285.2 | 284.2 | 282.7 | 281.1 | 279.6 | 278.1 | 277.2 |
| 77.5° | 216.5 | 216.2 | 216.0 | 215.8 | 215.5 | 215.0 | 214.1 | 213.3 | 212.5 | 211.6 | 211.1 |
| 80° | 171.8 | 171.8 | 171.8 | 171.8 | 171.8 | 171.5 | 170.9 | 170.3 | 169.7 | 169.1 | 168.7 |
| 82.5° | 132.5 | 132.0 | 131.6 | 131.1 | 130.6 | 130.3 | 130.2 | 130.1 | 129.9 | 129.8 | 129.3 |
| 85° | 74.9 | 75.2 | 75.5 | 75.8 | 76.1 | 76.3 | 76.3 | 76.3 | 76.3 | 76.3 | 76.0 |
| 87.5° | 29.5 | 29.7 | 29.9 | 30.0 | 30.2 | 30.2 | 30.1 | 30.0 | 29.9 | 29.8 | 29.9 |
| 90° | 0.5 | 1.3 | 2.1 | 2.9 | 3.7 | 4.4 | 5.2 | 5.9 | 6.6 | 7.4 | 7.9 |
| 92.5° | 11.1 | 11.6 | 12.2 | 12.8 | 13.3 | 14.0 | 14.9 | 15.9 | 16.7 | 17.6 | 18.3 |
| 95° | 29.8 | 30.0 | 30.2 | 30.4 | 30.6 | 31.2 | 32.2 | 33.2 | 34.2 | 35.2 | 36.0 |
| 97.5° | 49.4 | 49.5 | 49.6 | 49.7 | 49.8 | 50.5 | 51.9 | 53.3 | 54.7 | 56.1 | 56.8 |
| 100° | 64.1 | 64.1 | 64.1 | 64.1 | 64.1 | 64.7 | 66.0 | 67.4 | 68.7 | 70.0 | 71.0 |
| 102.5° | 79.8 | 80.2 | 80.7 | 81.1 | 81.5 | 82.0 | 82.7 | 83.3 | 84.0 | 84.6 | 85.6 |
| 105° | 104.3 | 104.8 | 105.3 | 105.8 | 106.4 | 106.9 | 107.6 | 108.2 | 108.8 | 109.4 | 110.0 |
| 107.5° | 131.5 | 132.0 | 132.5 | 133.0 | 133.5 | 134.0 | 134.4 | 134.9 | 135.4 | 135.8 | 136.1 |
| 110° | 150.2 | 150.7 | 151.2 | 151.7 | 152.2 | 152.6 | 152.9 | 153.2 | 153.5 | 153.8 | 154.1 |



TEST NUMBER: P333435-840

CATALOG NUMBER: S125DIW-S1090D470U840-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 169.2 | 169.5 | 169.7 | 170.0 | 170.3 | 170.6 | 171.0 | 171.4 | 171.7 | 172.1 | 172.3 |
| 115° | 197.2 | 197.6 | 198.1 | 198.5 | 198.9 | 199.2 | 199.4 | 199.7 | 199.9 | 200.1 | 200.0 |
| 117.5° | 225.5 | 225.6 | 225.8 | 226.0 | 226.2 | 226.4 | 226.6 | 226.7 | 226.9 | 227.1 | 227.2 |
| 120° | 243.1 | 243.6 | 244.1 | 244.6 | 245.1 | 245.4 | 245.5 | 245.6 | 245.7 | 245.8 | 245.8 |
| 122.5° | 262.1 | 262.3 | 262.5 | 262.7 | 262.8 | 263.1 | 263.3 | 263.6 | 263.9 | 264.1 | 264.0 |
| 125° | 287.9 | 288.5 | 289.1 | 289.7 | 290.3 | 290.7 | 290.8 | 290.9 | 291.0 | 291.1 | 290.9 |
| 127.5° | 315.4 | 315.7 | 316.1 | 316.4 | 316.8 | 317.0 | 317.1 | 317.2 | 317.3 | 317.5 | 317.4 |
| 130° | 331.8 | 332.3 | 332.9 | 333.4 | 333.9 | 334.3 | 334.5 | 334.7 | 334.9 | 335.1 | 335.0 |
| 132.5° | 348.3 | 349.1 | 350.0 | 350.8 | 351.6 | 352.0 | 352.0 | 351.9 | 351.9 | 351.8 | 351.7 |
| 135° | 374.4 | 375.1 | 375.7 | 376.3 | 376.9 | 377.2 | 377.3 | 377.4 | 377.5 | 377.6 | 377.6 |
| 137.5° | 398.9 | 399.5 | 400.1 | 400.7 | 401.3 | 401.7 | 401.9 | 402.1 | 402.3 | 402.6 | 402.7 |
| 140° | 414.7 | 415.2 | 415.7 | 416.2 | 416.7 | 417.2 | 417.5 | 417.8 | 418.1 | 418.4 | 418.6 |
| 142.5° | 430.4 | 430.8 | 431.3 | 431.7 | 432.1 | 432.5 | 432.9 | 433.3 | 433.7 | 434.1 | 434.2 |
| 145° | 453.6 | 454.0 | 454.4 | 454.8 | 455.2 | 455.6 | 455.9 | 456.2 | 456.5 | 456.8 | 456.8 |
| 147.5° | 475.0 | 475.2 | 475.4 | 475.6 | 475.9 | 476.2 | 476.4 | 476.7 | 476.9 | 477.2 | 477.4 |
| 150° | 489.3 | 489.2 | 489.1 | 489.0 | 488.9 | 489.1 | 489.5 | 489.9 | 490.3 | 490.7 | 490.7 |
| 152.5° | 501.0 | 501.2 | 501.3 | 501.4 | 501.6 | 501.7 | 501.9 | 502.1 | 502.2 | 502.4 | 502.6 |
| 155° | 519.1 | 519.1 | 519.1 | 519.1 | 519.1 | 519.1 | 519.2 | 519.3 | 519.4 | 519.5 | 519.9 |
| 157.5° | 535.1 | 534.9 | 534.7 | 534.5 | 534.2 | 534.2 | 534.3 | 534.4 | 534.5 | 534.6 | 535.0 |
| 160° | 544.7 | 544.4 | 544.0 | 543.7 | 543.4 | 543.3 | 543.4 | 543.5 | 543.6 | 543.7 | 544.2 |
| 162.5° | 553.1 | 552.9 | 552.7 | 552.4 | 552.2 | 552.1 | 552.1 | 552.1 | 552.2 | 552.2 | 552.7 |
| 165° | 564.3 | 564.1 | 563.9 | 563.7 | 563.5 | 563.5 | 563.6 | 563.7 | 563.8 | 563.9 | 564.3 |
| 167.5° | 573.9 | 573.5 | 573.1 | 572.7 | 572.3 | 572.1 | 572.1 | 572.1 | 572.1 | 572.1 | 572.7 |
| 170° | 579.0 | 578.6 | 578.1 | 577.7 | 577.3 | 577.1 | 577.1 | 577.1 | 577.1 | 577.1 | 577.7 |
| 172.5° | 582.7 | 582.3 | 581.9 | 581.5 | 581.1 | 580.9 | 580.9 | 580.9 | 580.9 | 580.9 | 581.5 |
| 175° | 586.8 | 586.3 | 585.9 | 585.5 | 585.1 | 584.9 | 584.9 | 584.9 | 584.9 | 584.9 | 585.5 |
| 177.5° | 588.9 | 588.5 | 588.2 | 587.9 | 587.5 | 587.3 | 587.3 | 587.2 | 587.1 | 587.0 | 587.5 |
| 180° | 588.1 | 588.1 | 588.1 | 588.1 | 588.1 | 588.1 | 588.1 | 588.1 | 588.1 | 588.1 | 588.1 |



TEST NUMBER: P333435-840

CATALOG NUMBER: S125DIW-S1090D470U840-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1723.2 | 1723.2 | 1723.2 | 1723.2 | 1723.2 | 1723.2 | 1723.2 | 1723.2 |
| 2.5° | 1718.2 | 1720.6 | 1723.0 | 1724.1 | 1723.9 | 1723.6 | 1723.4 | 1723.2 |
| 5° | 1709.6 | 1712.3 | 1715.1 | 1716.3 | 1716.0 | 1715.7 | 1715.4 | 1715.1 |
| 7.5° | 1692.2 | 1695.0 | 1697.6 | 1698.8 | 1698.5 | 1698.2 | 1697.9 | 1697.6 |
| 10° | 1677.6 | 1680.0 | 1682.4 | 1683.5 | 1683.2 | 1682.9 | 1682.6 | 1682.3 |
| 12.5° | 1658.1 | 1660.0 | 1661.9 | 1662.9 | 1662.8 | 1662.7 | 1662.7 | 1662.6 |
| 15° | 1624.0 | 1625.5 | 1627.0 | 1627.8 | 1627.8 | 1627.8 | 1627.8 | 1627.8 |
| 17.5° | 1584.4 | 1586.2 | 1588.1 | 1588.3 | 1586.8 | 1585.3 | 1583.8 | 1582.3 |
| 20° | 1554.3 | 1556.4 | 1558.5 | 1558.8 | 1557.3 | 1555.8 | 1554.3 | 1552.8 |
| 22.5° | 1520.1 | 1521.6 | 1522.9 | 1523.1 | 1522.1 | 1521.1 | 1520.0 | 1518.9 |
| 25° | 1465.4 | 1466.0 | 1466.6 | 1466.4 | 1465.5 | 1464.6 | 1463.7 | 1462.8 |
| 27.5° | 1408.0 | 1408.1 | 1408.3 | 1407.9 | 1406.9 | 1406.0 | 1405.1 | 1404.2 |
| 30° | 1366.1 | 1365.5 | 1364.9 | 1364.2 | 1363.3 | 1362.4 | 1361.5 | 1360.6 |
| 32.5° | 1323.7 | 1322.6 | 1321.6 | 1320.2 | 1318.6 | 1317.0 | 1315.2 | 1313.6 |
| 35° | 1258.0 | 1256.5 | 1255.0 | 1253.0 | 1250.6 | 1248.2 | 1245.8 | 1243.3 |
| 37.5° | 1188.9 | 1186.7 | 1184.5 | 1182.7 | 1181.2 | 1179.8 | 1178.4 | 1177.1 |
| 40° | 1141.0 | 1138.3 | 1135.6 | 1133.8 | 1132.9 | 1132.0 | 1131.0 | 1130.1 |
| 42.5° | 1093.6 | 1091.1 | 1088.6 | 1086.6 | 1085.3 | 1083.9 | 1082.5 | 1081.1 |
| 45° | 1023.4 | 1019.8 | 1016.1 | 1013.8 | 1012.9 | 1012.0 | 1011.1 | 1010.2 |
| 47.5° | 949.4 | 945.6 | 942.0 | 939.1 | 937.0 | 934.8 | 932.7 | 930.6 |
| 50° | 898.7 | 894.7 | 890.8 | 887.8 | 885.7 | 883.5 | 881.4 | 879.3 |
| 52.5° | 849.5 | 846.1 | 842.6 | 839.7 | 837.3 | 835.0 | 832.6 | 830.2 |
| 55° | 773.0 | 770.2 | 767.5 | 765.1 | 763.0 | 760.8 | 758.7 | 756.6 |
| 57.5° | 697.0 | 693.5 | 689.9 | 687.6 | 686.5 | 685.3 | 684.2 | 683.0 |
| 60° | 645.6 | 642.6 | 639.5 | 636.9 | 634.8 | 632.7 | 630.6 | 628.4 |
| 62.5° | 596.0 | 592.8 | 589.5 | 587.0 | 585.4 | 583.8 | 582.1 | 580.5 |
| 65° | 518.1 | 515.3 | 512.6 | 510.6 | 509.4 | 508.2 | 507.0 | 505.7 |
| 67.5° | 443.6 | 441.3 | 439.0 | 437.5 | 436.8 | 436.1 | 435.4 | 434.6 |
| 70° | 394.5 | 392.6 | 390.8 | 389.3 | 388.1 | 386.9 | 385.7 | 384.5 |
| 72.5° | 348.2 | 346.1 | 344.1 | 342.4 | 341.2 | 340.0 | 338.8 | 337.6 |
| 75° | 276.3 | 275.4 | 274.5 | 273.4 | 272.2 | 270.9 | 269.7 | 268.5 |
| 77.5° | 210.5 | 210.0 | 209.4 | 208.7 | 207.8 | 207.0 | 206.1 | 205.3 |
| 80° | 168.4 | 168.1 | 167.8 | 167.3 | 166.7 | 166.1 | 165.5 | 164.9 |
| 82.5° | 128.7 | 128.2 | 127.6 | 127.2 | 127.1 | 127.0 | 126.9 | 126.7 |
| 85° | 75.7 | 75.4 | 75.1 | 74.6 | 74.0 | 73.4 | 72.8 | 72.2 |
| 87.5° | 30.0 | 30.1 | 30.2 | 30.1 | 29.7 | 29.2 | 28.8 | 28.4 |
| 90° | 8.4 | 8.9 | 9.4 | 9.8 | 10.1 | 10.4 | 10.7 | 11.0 |
| 92.5° | 18.9 | 19.6 | 20.3 | 20.7 | 20.9 | 21.1 | 21.4 | 21.6 |
| 95° | 36.7 | 37.4 | 38.1 | 38.6 | 38.8 | 39.0 | 39.2 | 39.4 |
| 97.5° | 57.5 | 58.2 | 58.8 | 59.2 | 59.3 | 59.5 | 59.6 | 59.7 |
| 100° | 71.9 | 72.8 | 73.7 | 74.2 | 74.4 | 74.6 | 74.8 | 75.0 |
| 102.5° | 86.6 | 87.7 | 88.7 | 89.3 | 89.6 | 89.9 | 90.2 | 90.5 |
| 105° | 110.6 | 111.2 | 111.8 | 112.3 | 112.6 | 112.9 | 113.2 | 113.5 |
| 107.5° | 136.4 | 136.7 | 137.0 | 137.2 | 137.2 | 137.1 | 137.1 | 137.1 |
| 110° | 154.4 | 154.7 | 155.0 | 155.1 | 155.0 | 154.9 | 154.8 | 154.7 |



TEST NUMBER: P333435-840

CATALOG NUMBER: S125DIW-S1090D470U840-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 172.4 | 172.5 | 172.7 | 172.7 | 172.5 | 172.3 | 172.1 | 171.9 |
| 115° | 199.9 | 199.8 | 199.7 | 199.5 | 199.4 | 199.3 | 199.2 | 199.1 |
| 117.5° | 227.3 | 227.3 | 227.4 | 227.3 | 226.9 | 226.5 | 226.0 | 225.6 |
| 120° | 245.8 | 245.8 | 245.8 | 245.6 | 245.2 | 244.8 | 244.4 | 244.0 |
| 122.5° | 264.0 | 263.9 | 263.8 | 263.6 | 263.3 | 263.0 | 262.6 | 262.3 |
| 125° | 290.7 | 290.5 | 290.3 | 290.1 | 290.0 | 289.9 | 289.8 | 289.7 |
| 127.5° | 317.3 | 317.2 | 317.1 | 316.9 | 316.7 | 316.5 | 316.3 | 316.1 |
| 130° | 334.9 | 334.8 | 334.7 | 334.5 | 334.3 | 334.1 | 333.9 | 333.7 |
| 132.5° | 351.6 | 351.5 | 351.4 | 351.3 | 351.0 | 350.7 | 350.4 | 350.1 |
| 135° | 377.6 | 377.6 | 377.6 | 377.4 | 377.0 | 376.6 | 376.2 | 375.8 |
| 137.5° | 402.8 | 402.9 | 403.1 | 402.9 | 402.4 | 401.9 | 401.3 | 400.8 |
| 140° | 418.8 | 419.0 | 419.2 | 419.0 | 418.5 | 418.0 | 417.5 | 417.0 |
| 142.5° | 434.3 | 434.4 | 434.5 | 434.3 | 433.8 | 433.3 | 432.8 | 432.3 |
| 145° | 456.8 | 456.8 | 456.8 | 456.7 | 456.4 | 456.1 | 455.8 | 455.4 |
| 147.5° | 477.6 | 477.9 | 478.1 | 477.9 | 477.2 | 476.5 | 475.7 | 475.1 |
| 150° | 490.7 | 490.7 | 490.7 | 490.6 | 490.4 | 490.2 | 490.0 | 489.8 |
| 152.5° | 502.9 | 503.1 | 503.3 | 503.3 | 502.9 | 502.6 | 502.2 | 501.8 |
| 155° | 520.3 | 520.7 | 521.1 | 521.1 | 520.6 | 520.1 | 519.6 | 519.1 |
| 157.5° | 535.4 | 535.8 | 536.2 | 536.1 | 535.4 | 534.7 | 534.1 | 533.4 |
| 160° | 544.6 | 545.0 | 545.4 | 545.3 | 544.8 | 544.3 | 543.8 | 543.3 |
| 162.5° | 553.2 | 553.6 | 554.1 | 554.1 | 553.5 | 552.9 | 552.3 | 551.7 |
| 165° | 564.7 | 565.1 | 565.5 | 565.4 | 564.8 | 564.2 | 563.6 | 563.0 |
| 167.5° | 573.3 | 573.9 | 574.5 | 574.5 | 573.8 | 573.2 | 572.6 | 572.0 |
| 170° | 578.3 | 579.0 | 579.7 | 579.6 | 578.9 | 578.1 | 577.4 | 576.7 |
| 172.5° | 582.1 | 582.7 | 583.3 | 583.3 | 582.6 | 582.0 | 581.4 | 580.8 |
| 175° | 586.1 | 586.8 | 587.4 | 587.3 | 586.6 | 585.9 | 585.2 | 584.5 |
| 177.5° | 588.0 | 588.5 | 589.1 | 589.0 | 588.4 | 587.8 | 587.2 | 586.7 |
| 180° | 588.1 | 588.1 | 588.1 | 588.1 | 588.1 | 588.1 | 588.1 | 588.1 |

(END OF REPORT)