

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: P332822-935

Luminaire Tested: **S124DIW-S1020D1050U935-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332822-935
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-S1020D1050U935-4F0-1E-UDD-F1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 1050 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6944.8 lumens
Efficiency: N/A
Efficacy: 113.5 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: General Diffuse

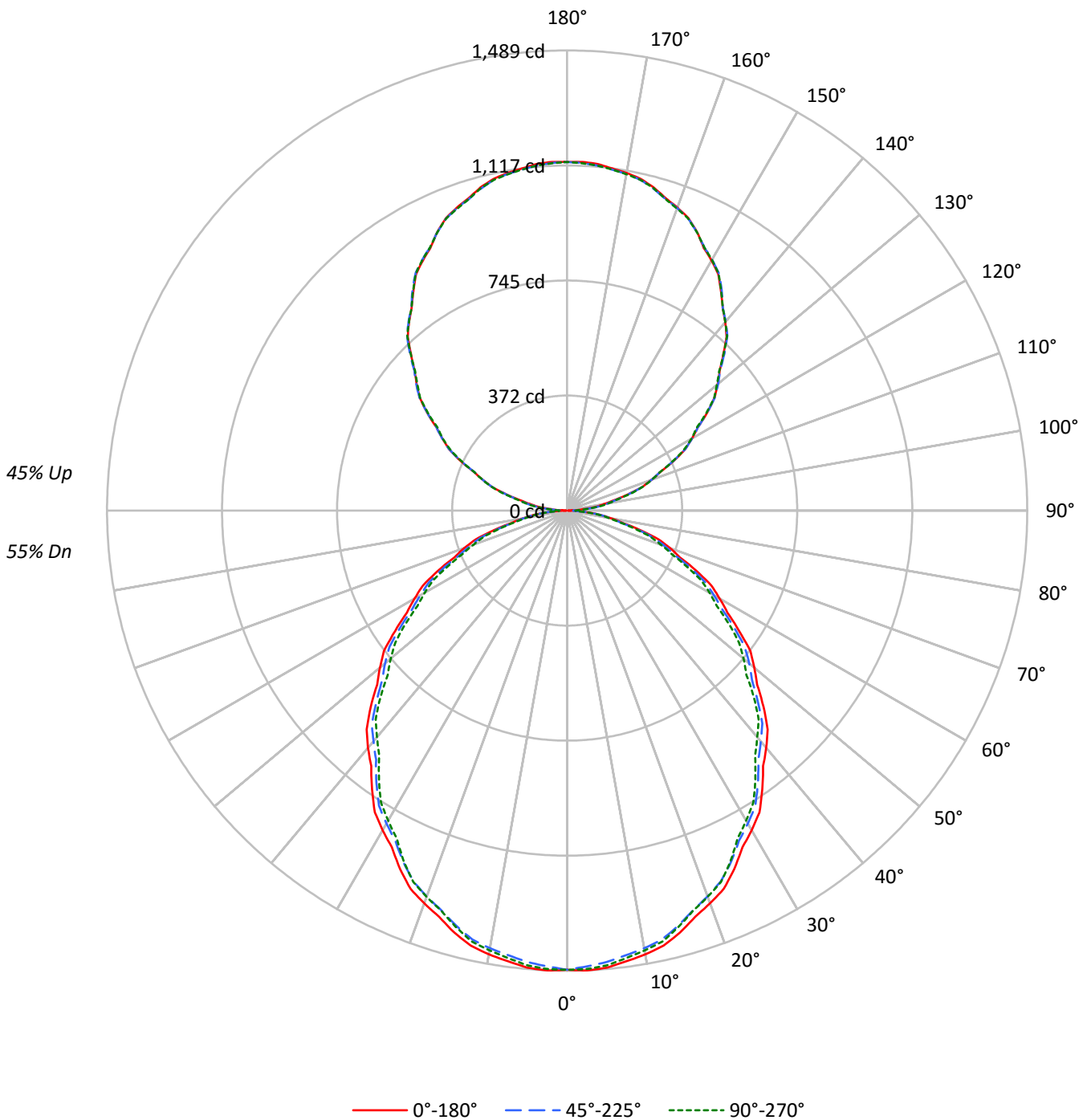
Input Watts (W): 61.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332822-935

CATALOG NUMBER: S124DIW-S1020D1050U935-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P332822-935

CATALOG NUMBER: S124DIW-S1020D1050U935-4F0-1E-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 | 108 | 108 | 108 | 108 | 101 | 101 | 101 | 101 | 86 | 86 | 86 | 73 | 73 | 73 | 61 | 61 | 61 | 55 |
| 1 | 99 | 94 | 91 | 87 | 92 | 88 | 84 | 81 | 75 | 73 | 71 | 64 | 62 | 61 | 54 | 52 | 51 | 46 |
| 2 | 90 | 82 | 76 | 71 | 83 | 77 | 71 | 67 | 66 | 62 | 58 | 56 | 53 | 51 | 47 | 45 | 43 | 39 |
| 3 | 82 | 73 | 65 | 59 | 76 | 68 | 61 | 56 | 58 | 53 | 49 | 50 | 46 | 43 | 42 | 39 | 37 | 33 |
| 4 | 75 | 64 | 56 | 50 | 69 | 60 | 53 | 47 | 52 | 46 | 42 | 44 | 40 | 37 | 37 | 34 | 32 | 28 |
| 5 | 69 | 57 | 49 | 43 | 64 | 53 | 46 | 41 | 46 | 41 | 36 | 40 | 35 | 32 | 34 | 30 | 28 | 24 |
| 6 | 64 | 51 | 43 | 37 | 59 | 48 | 41 | 35 | 42 | 36 | 32 | 36 | 31 | 28 | 31 | 27 | 24 | 21 |
| 7 | 59 | 46 | 38 | 33 | 54 | 43 | 36 | 31 | 38 | 32 | 28 | 33 | 28 | 25 | 28 | 24 | 22 | 19 |
| 8 | 55 | 42 | 34 | 29 | 51 | 40 | 32 | 28 | 35 | 29 | 25 | 30 | 25 | 22 | 26 | 22 | 19 | 17 |
| 9 | 51 | 39 | 31 | 26 | 47 | 36 | 29 | 25 | 32 | 26 | 22 | 28 | 23 | 20 | 24 | 20 | 17 | 15 |
| 10 | 48 | 35 | 28 | 23 | 44 | 33 | 27 | 22 | 29 | 24 | 20 | 26 | 21 | 18 | 22 | 18 | 16 | 14 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 11994 | 11994 | 11994 |
| 5° | 12030 | 11885 | 11972 |
| 10° | 11954 | 11788 | 11847 |
| 15° | 11810 | 11621 | 11651 |
| 20° | 11618 | 11413 | 11424 |
| 25° | 11399 | 11176 | 11144 |
| 30° | 11130 | 10897 | 10797 |
| 35° | 10852 | 10606 | 10465 |
| 40° | 10564 | 10275 | 10086 |
| 45° | 10261 | 9949 | 9758 |
| 50° | 9928 | 9658 | 9359 |
| 55° | 9568 | 9282 | 8981 |
| 60° | 9206 | 8861 | 8591 |
| 65° | 8800 | 8458 | 8118 |
| 70° | 8344 | 7924 | 7615 |
| 75° | 7648 | 7277 | 7093 |
| 80° | 6811 | 6527 | 6365 |
| 85° | 5956 | 5734 | 5622 |



TEST NUMBER: P332822-935

CATALOG NUMBER: S124DIW-S1020D1050U935-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 139.9 | 2.0 |
| 10°-20° | 394.2 | 5.7 |
| 20°-30° | 580.2 | 8.4 |
| 30°-40° | 674.5 | 9.7 |
| 40°-50° | 674.5 | 9.7 |
| 50°-60° | 590.0 | 8.5 |
| 60°-70° | 438.2 | 6.3 |
| 70°-80° | 248.9 | 3.6 |
| 80°-90° | 75.2 | 1.1 |
| 90°-100° | 74.4 | 1.1 |
| 100°-110° | 220.4 | 3.2 |
| 110°-120° | 374.0 | 5.4 |
| 120°-130° | 493.2 | 7.1 |
| 130°-140° | 553.9 | 8.0 |
| 140°-150° | 544.3 | 7.8 |
| 150°-160° | 457.8 | 6.6 |
| 160°-170° | 304.6 | 4.4 |
| 170°-180° | 106.6 | 1.5 |
| 0°-30° | 1114.3 | 16.0 |
| 0°-40° | 1788.8 | 25.8 |
| 0°-60° | 3053.4 | 44.0 |
| 0°-90° | 3815.8 | 54.9 |
| 90°-120° | 668.7 | 9.6 |
| 90°-150° | 2260.0 | 32.5 |
| 90°-180° | 3129.0 | 45.1 |
| 0°-180° | 6944.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1486 | 1486 | 1486 | 1486 | 1486 | |
| 5° | 1484 | 1479 | 1467 | 1479 | 1477 | 141 |
| 15° | 1413 | 1408 | 1390 | 1397 | 1394 | 398 |
| 25° | 1280 | 1271 | 1255 | 1256 | 1251 | 588 |
| 35° | 1101 | 1092 | 1076 | 1068 | 1062 | 688 |
| 45° | 899 | 890 | 871 | 859 | 855 | 693 |
| 55° | 680 | 675 | 660 | 646 | 638 | 609 |
| 65° | 461 | 454 | 443 | 431 | 425 | 456 |
| 75° | 245 | 239 | 233 | 229 | 227 | 261 |
| 85° | 64 | 64 | 62 | 62 | 61 | 71 |
| 90° | 3 | 12 | 19 | 24 | 26 | 7 |
| 95° | 52 | 60 | 66 | 69 | 69 | 58 |
| 105° | 203 | 204 | 208 | 210 | 213 | 216 |
| 115° | 380 | 380 | 379 | 378 | 377 | 375 |
| 125° | 554 | 554 | 553 | 551 | 550 | 493 |
| 135° | 714 | 719 | 720 | 718 | 715 | 552 |
| 145° | 868 | 871 | 872 | 871 | 869 | 543 |
| 155° | 994 | 994 | 994 | 997 | 994 | 457 |
| 165° | 1082 | 1080 | 1078 | 1083 | 1080 | 305 |
| 175° | 1126 | 1122 | 1121 | 1126 | 1121 | 107 |
| 180° | 1128 | 1128 | 1128 | 1128 | 1128 | |



TEST NUMBER: P332822-935

CATALOG NUMBER: S124DIW-S1020D1050U935-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1485.7 | 1485.7 | 1485.7 | 1485.7 | 1485.7 | 1485.7 | 1485.7 | 1485.7 | 1485.7 | 1485.7 | 1485.7 |
| 2.5° | 1489.4 | 1488.8 | 1488.2 | 1487.5 | 1486.9 | 1485.4 | 1483.1 | 1480.7 | 1478.4 | 1476.1 | 1478.3 |
| 5° | 1484.5 | 1483.4 | 1482.4 | 1481.3 | 1480.2 | 1478.3 | 1475.3 | 1472.4 | 1469.6 | 1466.6 | 1469.6 |
| 7.5° | 1470.7 | 1469.6 | 1468.5 | 1467.5 | 1466.5 | 1464.3 | 1461.0 | 1457.8 | 1454.6 | 1451.4 | 1453.7 |
| 10° | 1458.3 | 1457.2 | 1456.1 | 1455.1 | 1454.1 | 1451.8 | 1448.4 | 1444.9 | 1441.5 | 1438.0 | 1440.1 |
| 12.5° | 1442.1 | 1441.1 | 1439.9 | 1438.9 | 1437.9 | 1435.5 | 1431.8 | 1428.2 | 1424.5 | 1420.9 | 1423.2 |
| 15° | 1413.1 | 1412.0 | 1410.9 | 1409.9 | 1408.8 | 1406.3 | 1402.3 | 1398.4 | 1394.4 | 1390.4 | 1392.0 |
| 17.5° | 1378.0 | 1376.7 | 1375.4 | 1374.1 | 1372.8 | 1370.2 | 1366.4 | 1362.7 | 1358.9 | 1355.2 | 1356.2 |
| 20° | 1352.3 | 1351.0 | 1349.7 | 1348.3 | 1347.0 | 1344.4 | 1340.4 | 1336.4 | 1332.5 | 1328.5 | 1329.3 |
| 22.5° | 1324.7 | 1322.9 | 1321.2 | 1319.5 | 1317.8 | 1314.8 | 1310.9 | 1306.9 | 1303.0 | 1299.0 | 1300.5 |
| 25° | 1279.7 | 1277.9 | 1276.0 | 1274.1 | 1272.3 | 1269.5 | 1265.8 | 1262.1 | 1258.4 | 1254.7 | 1255.0 |
| 27.5° | 1228.3 | 1226.4 | 1224.4 | 1222.5 | 1220.6 | 1218.0 | 1214.5 | 1211.1 | 1207.6 | 1204.2 | 1203.6 |
| 30° | 1194.0 | 1191.9 | 1189.7 | 1187.7 | 1185.5 | 1182.8 | 1179.3 | 1175.9 | 1172.4 | 1169.0 | 1167.9 |
| 32.5° | 1157.8 | 1155.9 | 1154.0 | 1152.1 | 1150.2 | 1147.4 | 1143.8 | 1140.1 | 1136.4 | 1132.8 | 1131.5 |
| 35° | 1101.1 | 1099.3 | 1097.4 | 1095.6 | 1093.7 | 1091.0 | 1087.3 | 1083.6 | 1079.9 | 1076.2 | 1074.3 |
| 37.5° | 1041.4 | 1039.7 | 1038.0 | 1036.3 | 1034.6 | 1031.8 | 1027.8 | 1023.8 | 1019.9 | 1015.9 | 1013.9 |
| 40° | 1002.4 | 1000.2 | 998.1 | 996.0 | 993.9 | 990.8 | 986.9 | 982.9 | 979.0 | 975.0 | 972.3 |
| 42.5° | 960.4 | 959.2 | 957.9 | 956.7 | 955.4 | 952.5 | 948.1 | 943.7 | 939.4 | 935.0 | 931.9 |
| 45° | 898.8 | 896.9 | 895.1 | 893.2 | 891.4 | 888.3 | 884.1 | 879.9 | 875.6 | 871.4 | 868.5 |
| 47.5° | 834.2 | 833.0 | 831.7 | 830.4 | 829.1 | 826.6 | 822.7 | 818.7 | 814.9 | 810.9 | 807.6 |
| 50° | 790.5 | 789.4 | 788.3 | 787.3 | 786.2 | 783.9 | 780.2 | 776.4 | 772.7 | 769.0 | 765.3 |
| 52.5° | 747.6 | 746.3 | 745.0 | 743.8 | 742.5 | 739.9 | 736.0 | 732.1 | 728.1 | 724.3 | 721.0 |
| 55° | 679.8 | 678.9 | 678.1 | 677.3 | 676.6 | 674.3 | 670.6 | 666.9 | 663.2 | 659.5 | 656.3 |
| 57.5° | 615.0 | 614.1 | 613.2 | 612.3 | 611.4 | 609.1 | 605.5 | 601.8 | 598.1 | 594.5 | 591.5 |
| 60° | 570.2 | 568.9 | 567.6 | 566.3 | 564.9 | 562.6 | 559.1 | 555.7 | 552.2 | 548.8 | 546.4 |
| 62.5° | 526.4 | 525.3 | 524.2 | 523.1 | 521.9 | 519.6 | 515.9 | 512.3 | 508.6 | 505.0 | 502.8 |
| 65° | 460.7 | 459.3 | 458.1 | 456.8 | 455.4 | 453.4 | 450.7 | 448.2 | 445.5 | 442.8 | 440.2 |
| 67.5° | 394.5 | 393.3 | 392.1 | 390.9 | 389.6 | 387.8 | 385.2 | 382.7 | 380.1 | 377.6 | 375.1 |
| 70° | 353.5 | 351.7 | 349.8 | 348.0 | 346.1 | 344.1 | 342.1 | 339.9 | 337.9 | 335.7 | 333.6 |
| 72.5° | 309.8 | 307.9 | 306.1 | 304.2 | 302.4 | 300.6 | 298.9 | 297.2 | 295.5 | 293.8 | 292.1 |
| 75° | 245.2 | 243.9 | 242.5 | 241.3 | 240.0 | 238.6 | 237.3 | 236.0 | 234.6 | 233.3 | 232.3 |
| 77.5° | 183.6 | 183.0 | 182.4 | 181.8 | 181.2 | 180.4 | 179.2 | 178.1 | 176.8 | 175.7 | 175.4 |
| 80° | 146.5 | 145.6 | 144.8 | 144.0 | 143.3 | 142.6 | 142.1 | 141.5 | 141.0 | 140.4 | 139.9 |
| 82.5° | 110.2 | 109.9 | 109.5 | 109.1 | 108.7 | 108.5 | 108.4 | 108.3 | 108.2 | 108.1 | 107.8 |
| 85° | 64.3 | 64.3 | 64.3 | 64.3 | 64.3 | 64.1 | 63.5 | 62.9 | 62.4 | 61.9 | 61.9 |
| 87.5° | 25.3 | 25.5 | 25.7 | 25.9 | 26.2 | 26.3 | 26.4 | 26.5 | 26.6 | 26.7 | 26.9 |
| 90° | 2.6 | 4.7 | 6.9 | 9.0 | 11.1 | 13.0 | 14.6 | 16.1 | 17.7 | 19.2 | 20.3 |
| 92.5° | 18.7 | 21.1 | 23.6 | 26.0 | 28.4 | 30.2 | 31.3 | 32.4 | 33.5 | 34.5 | 35.2 |
| 95° | 52.3 | 54.1 | 55.8 | 57.6 | 59.3 | 60.9 | 62.3 | 63.5 | 64.9 | 66.3 | 66.9 |
| 97.5° | 91.4 | 92.8 | 94.2 | 95.6 | 97.0 | 98.5 | 100.0 | 101.7 | 103.2 | 104.9 | 105.6 |
| 100° | 122.1 | 122.9 | 123.6 | 124.4 | 125.2 | 126.5 | 128.2 | 129.9 | 131.7 | 133.5 | 133.8 |
| 102.5° | 154.2 | 154.5 | 154.8 | 155.2 | 155.4 | 156.4 | 158.0 | 159.5 | 161.2 | 162.7 | 163.3 |
| 105° | 203.2 | 203.5 | 203.6 | 203.8 | 204.0 | 204.5 | 205.3 | 206.0 | 206.8 | 207.6 | 208.2 |
| 107.5° | 254.7 | 254.9 | 255.1 | 255.4 | 255.6 | 255.8 | 255.9 | 256.1 | 256.1 | 256.2 | 256.8 |
| 110° | 289.6 | 290.0 | 290.3 | 290.8 | 291.1 | 291.2 | 291.0 | 290.8 | 290.7 | 290.4 | 290.1 |



TEST NUMBER: P332822-935

CATALOG NUMBER: S124DIW-S1020D1050U935-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 325.9 | 326.0 | 326.1 | 326.1 | 326.1 | 326.1 | 325.7 | 325.4 | 325.0 | 324.7 | 324.6 |
| 115° | 380.3 | 380.3 | 380.3 | 380.3 | 380.3 | 380.1 | 379.7 | 379.4 | 378.9 | 378.6 | 378.3 |
| 117.5° | 431.6 | 431.7 | 431.9 | 432.0 | 432.2 | 432.1 | 431.9 | 431.6 | 431.4 | 431.0 | 430.4 |
| 120° | 465.8 | 466.6 | 467.4 | 468.1 | 468.9 | 469.0 | 468.4 | 467.8 | 467.3 | 466.7 | 465.7 |
| 122.5° | 501.4 | 501.7 | 502.0 | 502.3 | 502.6 | 502.7 | 502.3 | 502.0 | 501.8 | 501.5 | 500.8 |
| 125° | 553.9 | 553.9 | 553.9 | 553.9 | 553.9 | 553.8 | 553.5 | 553.4 | 553.2 | 553.0 | 552.6 |
| 127.5° | 601.5 | 602.1 | 602.6 | 603.2 | 603.8 | 604.0 | 603.6 | 603.3 | 603.0 | 602.7 | 602.4 |
| 130° | 635.0 | 635.6 | 636.1 | 636.7 | 637.3 | 637.6 | 637.6 | 637.6 | 637.6 | 637.6 | 637.2 |
| 132.5° | 669.2 | 669.6 | 670.0 | 670.5 | 670.9 | 671.0 | 670.9 | 670.7 | 670.5 | 670.4 | 670.0 |
| 135° | 714.4 | 715.5 | 716.7 | 717.8 | 719.0 | 719.6 | 719.6 | 719.6 | 719.6 | 719.6 | 719.2 |
| 137.5° | 763.5 | 764.1 | 764.7 | 765.2 | 765.7 | 766.1 | 766.5 | 766.8 | 767.1 | 767.4 | 766.9 |
| 140° | 796.3 | 796.8 | 797.1 | 797.5 | 797.9 | 798.1 | 798.1 | 798.1 | 798.1 | 798.1 | 797.9 |
| 142.5° | 826.4 | 826.7 | 827.2 | 827.5 | 827.9 | 828.0 | 827.9 | 827.7 | 827.6 | 827.4 | 827.3 |
| 145° | 867.9 | 868.7 | 869.4 | 870.2 | 871.0 | 871.4 | 871.7 | 871.8 | 872.0 | 872.2 | 872.0 |
| 147.5° | 909.0 | 910.0 | 910.9 | 911.8 | 912.7 | 913.2 | 913.0 | 912.8 | 912.7 | 912.5 | 912.4 |
| 150° | 934.2 | 935.0 | 935.7 | 936.5 | 937.3 | 937.6 | 937.6 | 937.6 | 937.6 | 937.6 | 937.6 |
| 152.5° | 957.9 | 958.4 | 958.8 | 959.2 | 959.8 | 960.0 | 960.2 | 960.4 | 960.5 | 960.7 | 961.1 |
| 155° | 994.4 | 994.4 | 994.4 | 994.4 | 994.4 | 994.3 | 994.0 | 993.9 | 993.7 | 993.5 | 994.3 |
| 157.5° | 1025.0 | 1024.7 | 1024.3 | 1024.0 | 1023.6 | 1023.5 | 1023.4 | 1023.4 | 1023.3 | 1023.3 | 1023.9 |
| 160° | 1043.2 | 1043.0 | 1042.8 | 1042.6 | 1042.4 | 1042.2 | 1042.0 | 1041.8 | 1041.6 | 1041.5 | 1042.0 |
| 162.5° | 1059.9 | 1059.5 | 1058.9 | 1058.4 | 1057.9 | 1057.6 | 1057.4 | 1057.2 | 1057.0 | 1056.8 | 1057.8 |
| 165° | 1082.4 | 1081.8 | 1081.2 | 1080.7 | 1080.1 | 1079.6 | 1079.3 | 1078.8 | 1078.5 | 1078.1 | 1079.3 |
| 167.5° | 1099.7 | 1098.9 | 1098.1 | 1097.3 | 1096.5 | 1096.1 | 1096.1 | 1096.1 | 1096.1 | 1096.2 | 1097.3 |
| 170° | 1109.5 | 1108.5 | 1107.5 | 1106.6 | 1105.6 | 1105.2 | 1105.4 | 1105.6 | 1105.8 | 1106.0 | 1107.2 |
| 172.5° | 1116.5 | 1115.6 | 1114.8 | 1114.0 | 1113.2 | 1112.8 | 1112.8 | 1112.9 | 1112.9 | 1112.9 | 1114.3 |
| 175° | 1126.0 | 1125.1 | 1124.1 | 1123.2 | 1122.1 | 1121.6 | 1121.4 | 1121.2 | 1121.0 | 1120.8 | 1122.1 |
| 177.5° | 1129.2 | 1128.4 | 1127.7 | 1126.9 | 1126.1 | 1125.7 | 1125.7 | 1125.7 | 1125.7 | 1125.7 | 1126.8 |
| 180° | 1127.8 | 1127.8 | 1127.8 | 1127.8 | 1127.8 | 1127.8 | 1127.8 | 1127.8 | 1127.8 | 1127.8 | 1127.8 |



TEST NUMBER: P332822-935

CATALOG NUMBER: S124DIW-S1020D1050U935-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1485.7 | 1485.7 | 1485.7 | 1485.7 | 1485.7 | 1485.7 | 1485.7 | 1485.7 |
| 2.5° | 1480.3 | 1482.5 | 1484.6 | 1485.6 | 1485.3 | 1485.1 | 1484.9 | 1484.7 |
| 5° | 1472.4 | 1475.3 | 1478.3 | 1479.5 | 1478.9 | 1478.3 | 1477.8 | 1477.3 |
| 7.5° | 1456.0 | 1458.4 | 1460.7 | 1461.7 | 1461.4 | 1461.0 | 1460.7 | 1460.4 |
| 10° | 1442.3 | 1444.4 | 1446.5 | 1447.3 | 1446.7 | 1446.2 | 1445.7 | 1445.2 |
| 12.5° | 1425.6 | 1427.9 | 1430.2 | 1431.0 | 1430.3 | 1429.5 | 1428.7 | 1428.1 |
| 15° | 1393.6 | 1395.2 | 1396.8 | 1397.1 | 1396.4 | 1395.6 | 1394.8 | 1394.0 |
| 17.5° | 1357.2 | 1358.2 | 1359.2 | 1359.4 | 1358.9 | 1358.4 | 1357.9 | 1357.3 |
| 20° | 1330.1 | 1330.9 | 1331.7 | 1331.8 | 1331.3 | 1330.8 | 1330.2 | 1329.7 |
| 22.5° | 1301.8 | 1303.3 | 1304.7 | 1304.9 | 1304.0 | 1303.0 | 1302.1 | 1301.1 |
| 25° | 1255.3 | 1255.5 | 1255.8 | 1255.3 | 1254.3 | 1253.3 | 1252.2 | 1251.1 |
| 27.5° | 1203.0 | 1202.3 | 1201.7 | 1200.8 | 1199.4 | 1198.1 | 1196.7 | 1195.4 |
| 30° | 1166.9 | 1165.8 | 1164.8 | 1163.6 | 1162.3 | 1160.9 | 1159.6 | 1158.3 |
| 32.5° | 1130.2 | 1129.0 | 1127.7 | 1126.4 | 1125.1 | 1123.8 | 1122.5 | 1121.1 |
| 35° | 1072.5 | 1070.6 | 1068.8 | 1067.1 | 1065.8 | 1064.5 | 1063.2 | 1061.9 |
| 37.5° | 1011.8 | 1009.9 | 1007.9 | 1006.0 | 1004.3 | 1002.5 | 1000.7 | 999.0 |
| 40° | 969.7 | 967.0 | 964.4 | 962.4 | 961.0 | 959.8 | 958.5 | 957.1 |
| 42.5° | 928.8 | 925.7 | 922.6 | 920.7 | 919.8 | 918.9 | 918.0 | 917.1 |
| 45° | 865.6 | 862.6 | 859.7 | 857.9 | 857.1 | 856.4 | 855.5 | 854.7 |
| 47.5° | 804.3 | 801.1 | 797.8 | 795.1 | 793.2 | 791.1 | 789.1 | 787.1 |
| 50° | 761.6 | 757.9 | 754.2 | 751.6 | 749.9 | 748.4 | 746.8 | 745.2 |
| 52.5° | 717.7 | 714.4 | 711.1 | 708.5 | 706.5 | 704.5 | 702.5 | 700.4 |
| 55° | 653.2 | 650.0 | 646.8 | 644.5 | 642.8 | 641.3 | 639.6 | 638.1 |
| 57.5° | 588.5 | 585.5 | 582.5 | 580.1 | 578.6 | 577.1 | 575.6 | 574.0 |
| 60° | 544.1 | 541.7 | 539.2 | 537.4 | 536.1 | 534.8 | 533.5 | 532.1 |
| 62.5° | 500.7 | 498.4 | 496.3 | 494.6 | 493.3 | 491.9 | 490.6 | 489.3 |
| 65° | 437.6 | 434.9 | 432.2 | 430.2 | 429.0 | 427.7 | 426.3 | 425.0 |
| 67.5° | 372.6 | 370.0 | 367.5 | 366.0 | 365.6 | 365.2 | 364.9 | 364.5 |
| 70° | 331.5 | 329.3 | 327.3 | 325.8 | 325.0 | 324.2 | 323.4 | 322.6 |
| 72.5° | 290.4 | 288.7 | 287.1 | 285.8 | 285.0 | 284.2 | 283.4 | 282.6 |
| 75° | 231.2 | 230.1 | 229.1 | 228.4 | 228.2 | 227.9 | 227.6 | 227.4 |
| 77.5° | 175.0 | 174.8 | 174.4 | 173.9 | 173.2 | 172.5 | 171.9 | 171.2 |
| 80° | 139.4 | 138.9 | 138.4 | 137.9 | 137.7 | 137.4 | 137.2 | 136.9 |
| 82.5° | 107.5 | 107.1 | 106.9 | 106.5 | 106.2 | 106.0 | 105.7 | 105.5 |
| 85° | 61.9 | 61.9 | 61.9 | 61.7 | 61.5 | 61.2 | 61.0 | 60.7 |
| 87.5° | 27.1 | 27.4 | 27.6 | 27.8 | 27.9 | 27.9 | 28.0 | 28.1 |
| 90° | 21.5 | 22.6 | 23.8 | 24.6 | 25.0 | 25.4 | 25.7 | 26.2 |
| 92.5° | 35.9 | 36.6 | 37.4 | 37.8 | 38.1 | 38.2 | 38.5 | 38.7 |
| 95° | 67.4 | 68.0 | 68.6 | 68.9 | 68.9 | 68.9 | 68.9 | 68.9 |
| 97.5° | 106.2 | 106.9 | 107.6 | 108.0 | 108.0 | 108.0 | 108.0 | 108.0 |
| 100° | 134.2 | 134.6 | 135.0 | 135.2 | 135.2 | 135.2 | 135.2 | 135.2 |
| 102.5° | 163.8 | 164.4 | 165.0 | 165.3 | 165.4 | 165.6 | 165.7 | 165.9 |
| 105° | 208.8 | 209.3 | 209.9 | 210.5 | 211.1 | 211.6 | 212.2 | 212.8 |
| 107.5° | 257.4 | 257.9 | 258.5 | 258.6 | 258.6 | 258.6 | 258.6 | 258.6 |
| 110° | 289.6 | 289.3 | 288.9 | 289.0 | 289.6 | 290.2 | 290.8 | 291.4 |



TEST NUMBER: P332822-935

CATALOG NUMBER: S124DIW-S1020D1050U935-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 324.5 | 324.4 | 324.3 | 324.3 | 324.5 | 324.6 | 324.7 | 324.9 |
| 115° | 378.2 | 378.0 | 377.8 | 377.5 | 377.4 | 377.2 | 377.0 | 376.8 |
| 117.5° | 429.7 | 429.0 | 428.4 | 427.9 | 427.5 | 427.1 | 426.7 | 426.4 |
| 120° | 464.7 | 463.7 | 462.8 | 462.4 | 462.9 | 463.2 | 463.6 | 464.0 |
| 122.5° | 500.2 | 499.6 | 498.9 | 498.2 | 497.5 | 496.8 | 496.1 | 495.4 |
| 125° | 552.2 | 551.8 | 551.5 | 551.0 | 550.7 | 550.3 | 549.9 | 549.5 |
| 127.5° | 601.9 | 601.6 | 601.2 | 600.8 | 600.5 | 600.2 | 599.9 | 599.6 |
| 130° | 636.8 | 636.5 | 636.0 | 635.5 | 634.7 | 634.0 | 633.2 | 632.4 |
| 132.5° | 669.6 | 669.3 | 668.8 | 668.5 | 668.2 | 667.9 | 667.5 | 667.3 |
| 135° | 718.8 | 718.4 | 718.1 | 717.6 | 717.0 | 716.4 | 715.8 | 715.2 |
| 137.5° | 766.4 | 765.9 | 765.3 | 765.2 | 765.3 | 765.4 | 765.5 | 765.6 |
| 140° | 797.7 | 797.5 | 797.3 | 797.1 | 796.9 | 796.8 | 796.5 | 796.3 |
| 142.5° | 827.3 | 827.2 | 827.2 | 827.2 | 827.2 | 827.2 | 827.1 | 827.1 |
| 145° | 871.8 | 871.7 | 871.4 | 871.1 | 870.5 | 869.9 | 869.4 | 868.7 |
| 147.5° | 912.2 | 912.1 | 911.9 | 911.7 | 911.5 | 911.4 | 911.1 | 910.9 |
| 150° | 937.6 | 937.6 | 937.6 | 937.5 | 937.4 | 937.2 | 936.9 | 936.8 |
| 152.5° | 961.6 | 962.1 | 962.5 | 962.5 | 962.0 | 961.5 | 961.0 | 960.5 |
| 155° | 995.1 | 995.8 | 996.6 | 996.6 | 995.8 | 995.1 | 994.3 | 993.5 |
| 157.5° | 1024.5 | 1025.0 | 1025.6 | 1025.6 | 1024.9 | 1024.2 | 1023.6 | 1023.0 |
| 160° | 1042.6 | 1043.2 | 1043.8 | 1043.5 | 1042.6 | 1041.6 | 1040.7 | 1039.7 |
| 162.5° | 1058.9 | 1059.9 | 1061.0 | 1061.0 | 1060.1 | 1059.1 | 1058.1 | 1057.1 |
| 165° | 1080.4 | 1081.6 | 1082.7 | 1082.9 | 1082.1 | 1081.3 | 1080.6 | 1079.8 |
| 167.5° | 1098.5 | 1099.7 | 1100.9 | 1100.9 | 1099.7 | 1098.5 | 1097.3 | 1096.1 |
| 170° | 1108.3 | 1109.5 | 1110.6 | 1110.5 | 1109.2 | 1107.8 | 1106.5 | 1105.1 |
| 172.5° | 1115.6 | 1116.9 | 1118.3 | 1118.2 | 1116.9 | 1115.5 | 1114.1 | 1112.8 |
| 175° | 1123.5 | 1124.9 | 1126.3 | 1126.3 | 1124.9 | 1123.5 | 1122.1 | 1120.8 |
| 177.5° | 1127.9 | 1128.9 | 1130.1 | 1130.0 | 1128.7 | 1127.5 | 1126.3 | 1125.0 |
| 180° | 1127.8 | 1127.8 | 1127.8 | 1127.8 | 1127.8 | 1127.8 | 1127.8 | 1127.8 |

(END OF REPORT)