

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: P332821-940

Luminaire Tested: **S124DIW-S1020D1050U940-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332821-940
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: S124DIW-S1020D1050U940-4F0-1E-UDD-F
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 1050 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7688.4 lumens
Efficiency: N/A
Efficacy: 125.6 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

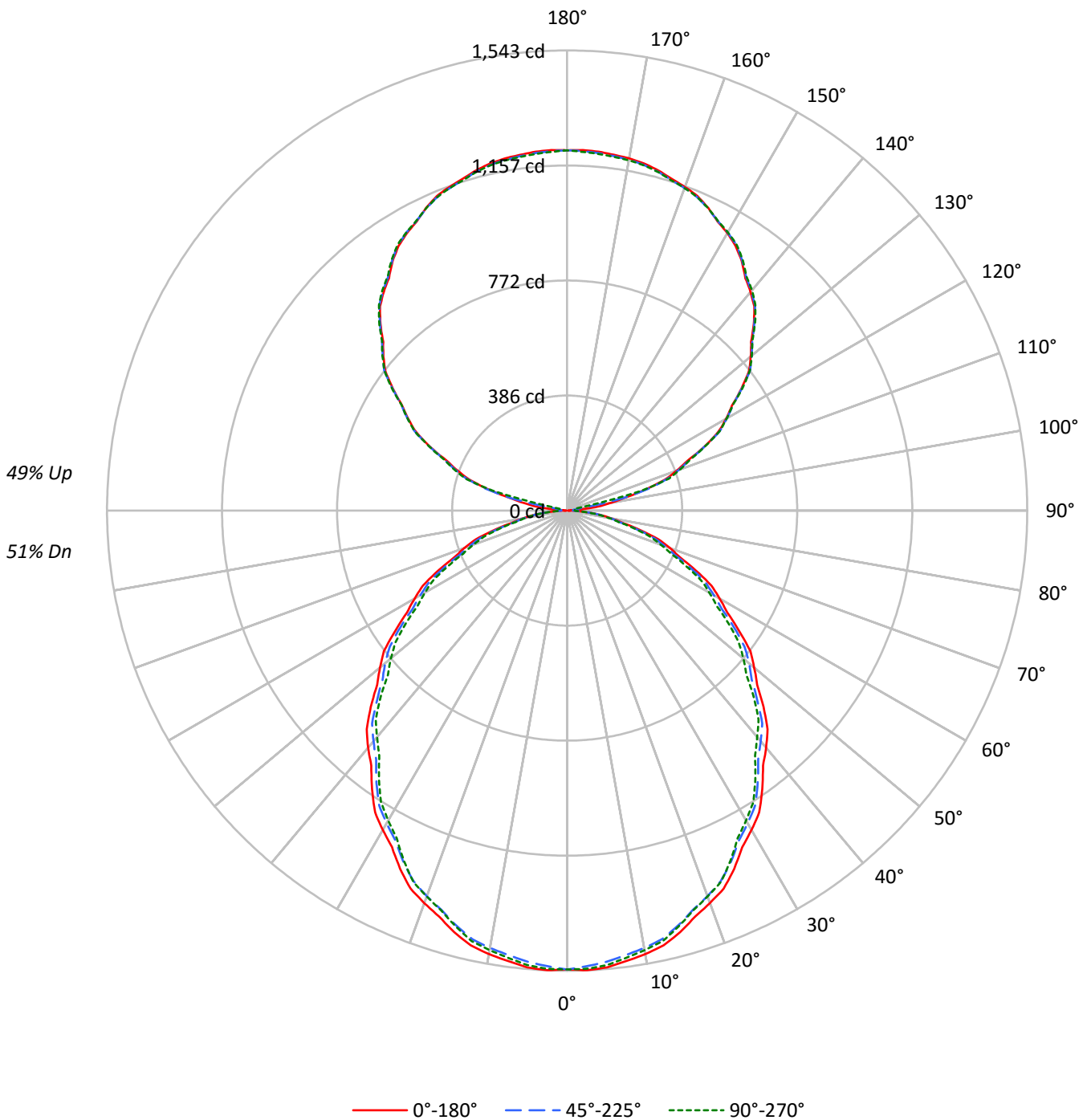
Input Watts (W): 61.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332821-940

CATALOG NUMBER: S124DIW-S1020D1050U940-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P332821-940

CATALOG NUMBER: S124DIW-S1020D1050U940-4F0-1E-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 | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 84 | 84 | 84 | 70 | 70 | 70 | 57 | 57 | 57 | 51 |
| 1 | 98 | 94 | 90 | 86 | 90 | 87 | 83 | 80 | 74 | 71 | 69 | 62 | 60 | 58 | 51 | 49 | 48 | 43 |
| 2 | 89 | 82 | 76 | 70 | 82 | 76 | 70 | 66 | 65 | 61 | 57 | 54 | 51 | 49 | 45 | 43 | 41 | 36 |
| 3 | 81 | 72 | 65 | 59 | 75 | 67 | 60 | 55 | 57 | 52 | 48 | 48 | 44 | 41 | 39 | 37 | 35 | 31 |
| 4 | 75 | 64 | 56 | 50 | 69 | 59 | 52 | 47 | 51 | 45 | 41 | 43 | 39 | 35 | 35 | 32 | 30 | 26 |
| 5 | 68 | 57 | 49 | 43 | 63 | 53 | 46 | 40 | 45 | 40 | 35 | 38 | 34 | 31 | 32 | 29 | 26 | 23 |
| 6 | 63 | 51 | 43 | 37 | 58 | 47 | 40 | 35 | 41 | 35 | 31 | 35 | 30 | 27 | 29 | 26 | 23 | 20 |
| 7 | 58 | 46 | 38 | 32 | 54 | 43 | 36 | 31 | 37 | 31 | 27 | 32 | 27 | 24 | 26 | 23 | 20 | 18 |
| 8 | 54 | 42 | 34 | 29 | 50 | 39 | 32 | 27 | 34 | 28 | 24 | 29 | 24 | 21 | 24 | 21 | 18 | 16 |
| 9 | 50 | 38 | 31 | 25 | 47 | 36 | 29 | 24 | 31 | 25 | 22 | 27 | 22 | 19 | 22 | 19 | 16 | 14 |
| 10 | 47 | 35 | 28 | 23 | 44 | 33 | 26 | 22 | 29 | 23 | 19 | 25 | 20 | 17 | 21 | 17 | 15 | 13 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 12421 | 12421 | 12421 |
| 5° | 12459 | 12309 | 12399 |
| 10° | 12381 | 12209 | 12269 |
| 15° | 12232 | 12035 | 12066 |
| 20° | 12032 | 11820 | 11832 |
| 25° | 11805 | 11575 | 11541 |
| 30° | 11527 | 11286 | 11182 |
| 35° | 11239 | 10984 | 10838 |
| 40° | 10940 | 10642 | 10446 |
| 45° | 10628 | 10304 | 10106 |
| 50° | 10282 | 10003 | 9693 |
| 55° | 9909 | 9614 | 9301 |
| 60° | 9536 | 9177 | 8898 |
| 65° | 9116 | 8760 | 8407 |
| 70° | 8641 | 8207 | 7886 |
| 75° | 7923 | 7539 | 7346 |
| 80° | 7053 | 6760 | 6592 |
| 85° | 6169 | 5937 | 5826 |



TEST NUMBER: P332821-940

CATALOG NUMBER: S124DIW-S1020D1050U940-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 144.9 | 1.9 |
| 10°-20° | 408.3 | 5.3 |
| 20°-30° | 600.9 | 7.8 |
| 30°-40° | 698.6 | 9.1 |
| 40°-50° | 698.6 | 9.1 |
| 50°-60° | 611.1 | 7.9 |
| 60°-70° | 453.8 | 5.9 |
| 70°-80° | 257.8 | 3.4 |
| 80°-90° | 77.9 | 1.0 |
| 90°-100° | 41.3 | 0.5 |
| 100°-110° | 263.4 | 3.4 |
| 110°-120° | 503.9 | 6.6 |
| 120°-130° | 639.7 | 8.3 |
| 130°-140° | 684.4 | 8.9 |
| 140°-150° | 640.0 | 8.3 |
| 150°-160° | 516.1 | 6.7 |
| 160°-170° | 332.9 | 4.3 |
| 170°-180° | 114.7 | 1.5 |
| 0°-30° | 1154.1 | 15.0 |
| 0°-40° | 1852.6 | 24.1 |
| 0°-60° | 3162.3 | 41.1 |
| 0°-90° | 3951.9 | 51.4 |
| 90°-120° | 808.6 | 10.5 |
| 90°-150° | 2772.8 | 36.1 |
| 90°-180° | 3737.0 | 48.6 |
| 0°-180° | 7688.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1539 | 1539 | 1539 | 1539 | 1539 | |
| 5° | 1537 | 1532 | 1519 | 1532 | 1530 | 146 |
| 15° | 1464 | 1458 | 1440 | 1447 | 1444 | 412 |
| 25° | 1325 | 1316 | 1300 | 1300 | 1296 | 609 |
| 35° | 1140 | 1131 | 1114 | 1106 | 1100 | 713 |
| 45° | 931 | 922 | 902 | 889 | 885 | 717 |
| 55° | 704 | 700 | 683 | 669 | 661 | 630 |
| 65° | 477 | 471 | 459 | 447 | 440 | 472 |
| 75° | 254 | 248 | 242 | 237 | 236 | 270 |
| 85° | 67 | 66 | 64 | 64 | 63 | 73 |
| 90° | 3 | 12 | 20 | 25 | 27 | 6 |
| 95° | 50 | 21 | 20 | 25 | 26 | 64 |
| 105° | 272 | 277 | 282 | 288 | 258 | 285 |
| 115° | 508 | 510 | 510 | 511 | 511 | 499 |
| 125° | 714 | 717 | 716 | 718 | 719 | 637 |
| 135° | 885 | 885 | 888 | 890 | 892 | 682 |
| 145° | 1021 | 1023 | 1024 | 1025 | 1026 | 638 |
| 155° | 1119 | 1120 | 1118 | 1121 | 1118 | 516 |
| 165° | 1181 | 1177 | 1176 | 1183 | 1175 | 334 |
| 175° | 1208 | 1203 | 1204 | 1210 | 1201 | 115 |
| 180° | 1208 | 1208 | 1208 | 1208 | 1208 | |



TEST NUMBER: P332821-940

CATALOG NUMBER: S124DIW-S1020D1050U940-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1538.6 | 1538.6 | 1538.6 | 1538.6 | 1538.6 | 1538.6 | 1538.6 | 1538.6 | 1538.6 | 1538.6 | 1538.6 |
| 2.5° | 1542.6 | 1541.9 | 1541.2 | 1540.6 | 1540.0 | 1538.4 | 1536.0 | 1533.6 | 1531.2 | 1528.7 | 1531.0 |
| 5° | 1537.4 | 1536.3 | 1535.3 | 1534.1 | 1533.0 | 1531.0 | 1527.9 | 1524.9 | 1522.0 | 1518.9 | 1522.0 |
| 7.5° | 1523.1 | 1522.0 | 1520.9 | 1519.8 | 1518.8 | 1516.5 | 1513.1 | 1509.8 | 1506.5 | 1503.2 | 1505.6 |
| 10° | 1510.3 | 1509.2 | 1508.1 | 1507.0 | 1505.9 | 1503.6 | 1500.0 | 1496.5 | 1492.9 | 1489.3 | 1491.5 |
| 12.5° | 1493.5 | 1492.5 | 1491.3 | 1490.2 | 1489.2 | 1486.7 | 1482.9 | 1479.2 | 1475.3 | 1471.6 | 1474.0 |
| 15° | 1463.5 | 1462.3 | 1461.2 | 1460.2 | 1459.0 | 1456.4 | 1452.3 | 1448.2 | 1444.1 | 1440.0 | 1441.6 |
| 17.5° | 1427.2 | 1425.8 | 1424.4 | 1423.1 | 1421.7 | 1419.1 | 1415.1 | 1411.3 | 1407.4 | 1403.6 | 1404.5 |
| 20° | 1400.5 | 1399.2 | 1397.8 | 1396.4 | 1395.1 | 1392.3 | 1388.2 | 1384.1 | 1380.0 | 1375.9 | 1376.7 |
| 22.5° | 1372.0 | 1370.1 | 1368.3 | 1366.5 | 1364.8 | 1361.7 | 1357.6 | 1353.5 | 1349.4 | 1345.3 | 1346.8 |
| 25° | 1325.3 | 1323.5 | 1321.5 | 1319.6 | 1317.7 | 1314.8 | 1311.0 | 1307.2 | 1303.3 | 1299.5 | 1299.8 |
| 27.5° | 1272.1 | 1270.2 | 1268.1 | 1266.1 | 1264.2 | 1261.4 | 1257.8 | 1254.3 | 1250.7 | 1247.1 | 1246.5 |
| 30° | 1236.6 | 1234.4 | 1232.2 | 1230.0 | 1227.8 | 1224.9 | 1221.4 | 1217.8 | 1214.2 | 1210.7 | 1209.6 |
| 32.5° | 1199.1 | 1197.1 | 1195.2 | 1193.2 | 1191.2 | 1188.3 | 1184.5 | 1180.8 | 1177.0 | 1173.2 | 1171.9 |
| 35° | 1140.4 | 1138.5 | 1136.6 | 1134.7 | 1132.7 | 1129.9 | 1126.1 | 1122.2 | 1118.4 | 1114.5 | 1112.6 |
| 37.5° | 1078.5 | 1076.7 | 1075.0 | 1073.3 | 1071.5 | 1068.6 | 1064.4 | 1060.3 | 1056.2 | 1052.1 | 1050.1 |
| 40° | 1038.1 | 1035.9 | 1033.7 | 1031.5 | 1029.3 | 1026.2 | 1022.1 | 1018.0 | 1013.9 | 1009.8 | 1007.0 |
| 42.5° | 994.7 | 993.4 | 992.0 | 990.8 | 989.4 | 986.5 | 982.0 | 977.4 | 972.9 | 968.3 | 965.1 |
| 45° | 930.9 | 928.9 | 927.0 | 925.1 | 923.2 | 920.0 | 915.6 | 911.2 | 906.9 | 902.5 | 899.5 |
| 47.5° | 864.0 | 862.7 | 861.4 | 860.1 | 858.7 | 856.0 | 852.0 | 847.9 | 843.9 | 839.8 | 836.4 |
| 50° | 818.7 | 817.5 | 816.5 | 815.4 | 814.2 | 811.8 | 808.0 | 804.1 | 800.3 | 796.5 | 792.6 |
| 52.5° | 774.3 | 772.9 | 771.6 | 770.3 | 769.0 | 766.3 | 762.2 | 758.2 | 754.1 | 750.1 | 746.7 |
| 55° | 704.0 | 703.1 | 702.3 | 701.5 | 700.7 | 698.4 | 694.6 | 690.7 | 686.9 | 683.1 | 679.8 |
| 57.5° | 636.9 | 636.0 | 635.1 | 634.1 | 633.2 | 630.8 | 627.1 | 623.3 | 619.5 | 615.7 | 612.6 |
| 60° | 590.6 | 589.2 | 587.8 | 586.5 | 585.1 | 582.6 | 579.1 | 575.5 | 571.9 | 568.4 | 565.9 |
| 62.5° | 545.2 | 544.0 | 542.9 | 541.7 | 540.6 | 538.1 | 534.3 | 530.6 | 526.7 | 523.0 | 520.8 |
| 65° | 477.2 | 475.7 | 474.4 | 473.1 | 471.6 | 469.6 | 466.8 | 464.1 | 461.4 | 458.6 | 455.9 |
| 67.5° | 408.6 | 407.3 | 406.1 | 404.8 | 403.5 | 401.6 | 399.0 | 396.4 | 393.7 | 391.1 | 388.4 |
| 70° | 366.1 | 364.3 | 362.3 | 360.4 | 358.5 | 356.4 | 354.3 | 352.0 | 349.9 | 347.7 | 345.4 |
| 72.5° | 320.8 | 318.9 | 317.0 | 315.0 | 313.2 | 311.3 | 309.5 | 307.8 | 306.0 | 304.3 | 302.6 |
| 75° | 254.0 | 252.6 | 251.2 | 249.9 | 248.5 | 247.1 | 245.8 | 244.4 | 243.0 | 241.7 | 240.6 |
| 77.5° | 190.1 | 189.5 | 188.9 | 188.3 | 187.7 | 186.8 | 185.6 | 184.4 | 183.2 | 182.0 | 181.6 |
| 80° | 151.7 | 150.8 | 150.0 | 149.2 | 148.4 | 147.7 | 147.1 | 146.6 | 146.1 | 145.4 | 144.9 |
| 82.5° | 114.1 | 113.8 | 113.4 | 113.0 | 112.6 | 112.4 | 112.3 | 112.2 | 112.1 | 111.9 | 111.6 |
| 85° | 66.6 | 66.6 | 66.6 | 66.6 | 66.6 | 66.3 | 65.7 | 65.2 | 64.6 | 64.1 | 64.1 |
| 87.5° | 26.2 | 26.4 | 26.7 | 26.8 | 27.1 | 27.2 | 27.4 | 27.5 | 27.6 | 27.6 | 27.9 |
| 90° | 2.7 | 4.9 | 7.1 | 9.4 | 11.5 | 13.5 | 15.1 | 16.7 | 18.3 | 19.9 | 21.0 |
| 92.5° | 11.4 | 11.5 | 11.6 | 11.8 | 11.9 | 12.8 | 14.4 | 16.0 | 17.6 | 19.2 | 20.3 |
| 95° | 49.7 | 42.9 | 36.0 | 29.2 | 22.4 | 19.1 | 19.3 | 19.4 | 19.7 | 19.9 | 21.0 |
| 97.5° | 105.5 | 109.8 | 114.0 | 118.3 | 122.5 | 113.5 | 91.0 | 68.7 | 46.3 | 23.8 | 24.0 |
| 100° | 148.2 | 151.8 | 155.4 | 159.0 | 162.6 | 150.6 | 122.9 | 95.1 | 67.5 | 39.8 | 36.4 |
| 102.5° | 195.9 | 198.5 | 201.2 | 203.8 | 206.4 | 206.0 | 202.4 | 198.8 | 195.1 | 191.5 | 154.7 |
| 105° | 272.0 | 273.1 | 274.4 | 275.5 | 276.8 | 277.9 | 278.8 | 279.9 | 280.9 | 281.9 | 283.7 |
| 107.5° | 342.6 | 343.2 | 343.8 | 344.4 | 345.0 | 346.0 | 347.3 | 348.7 | 350.1 | 351.4 | 352.3 |
| 110° | 390.3 | 390.9 | 391.5 | 392.1 | 392.7 | 393.6 | 394.8 | 396.0 | 397.3 | 398.4 | 398.9 |



TEST NUMBER: P332821-940

CATALOG NUMBER: S124DIW-S1020D1050U940-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 436.6 | 437.7 | 438.7 | 439.8 | 440.9 | 441.8 | 442.3 | 442.8 | 443.4 | 444.0 | 443.9 |
| 115° | 507.7 | 508.4 | 509.0 | 509.5 | 510.1 | 510.3 | 510.1 | 510.0 | 509.8 | 509.5 | 510.0 |
| 117.5° | 571.9 | 572.7 | 573.5 | 574.3 | 575.1 | 575.7 | 576.1 | 576.6 | 577.0 | 577.5 | 577.4 |
| 120° | 615.3 | 616.1 | 616.9 | 617.7 | 618.5 | 618.8 | 618.6 | 618.4 | 618.1 | 618.0 | 618.4 |
| 122.5° | 655.8 | 656.2 | 656.7 | 657.2 | 657.6 | 658.1 | 658.4 | 658.6 | 658.9 | 659.2 | 659.4 |
| 125° | 713.7 | 714.5 | 715.3 | 716.1 | 716.9 | 717.1 | 716.8 | 716.3 | 716.0 | 715.5 | 716.1 |
| 127.5° | 768.7 | 768.8 | 769.1 | 769.3 | 769.5 | 770.0 | 771.0 | 771.9 | 772.8 | 773.7 | 773.6 |
| 130° | 804.1 | 804.3 | 804.5 | 804.7 | 804.9 | 805.3 | 805.9 | 806.5 | 807.1 | 807.7 | 807.9 |
| 132.5° | 836.6 | 837.0 | 837.3 | 837.7 | 838.0 | 838.7 | 839.4 | 840.2 | 840.9 | 841.7 | 841.9 |
| 135° | 885.4 | 885.2 | 885.0 | 884.8 | 884.6 | 884.9 | 885.7 | 886.5 | 887.3 | 888.1 | 888.5 |
| 137.5° | 928.5 | 928.6 | 928.7 | 928.8 | 928.9 | 929.3 | 930.2 | 931.1 | 932.0 | 932.9 | 933.4 |
| 140° | 956.8 | 957.2 | 957.6 | 958.0 | 958.4 | 958.8 | 959.2 | 959.6 | 960.0 | 960.4 | 961.0 |
| 142.5° | 982.0 | 982.8 | 983.5 | 984.3 | 985.0 | 985.4 | 985.7 | 985.9 | 986.1 | 986.4 | 986.9 |
| 145° | 1020.9 | 1021.5 | 1022.1 | 1022.7 | 1023.3 | 1023.6 | 1023.6 | 1023.6 | 1023.6 | 1023.6 | 1023.9 |
| 147.5° | 1051.8 | 1052.9 | 1054.1 | 1055.2 | 1056.3 | 1056.8 | 1056.6 | 1056.4 | 1056.1 | 1056.0 | 1056.1 |
| 150° | 1074.2 | 1075.0 | 1075.8 | 1076.7 | 1077.5 | 1077.7 | 1077.5 | 1077.4 | 1077.1 | 1076.9 | 1076.9 |
| 152.5° | 1093.0 | 1093.7 | 1094.3 | 1094.9 | 1095.6 | 1095.7 | 1095.4 | 1095.0 | 1094.7 | 1094.3 | 1094.6 |
| 155° | 1119.4 | 1119.6 | 1119.8 | 1120.0 | 1120.2 | 1120.0 | 1119.4 | 1118.8 | 1118.2 | 1117.6 | 1118.4 |
| 157.5° | 1141.7 | 1141.5 | 1141.4 | 1141.2 | 1141.1 | 1140.8 | 1140.1 | 1139.3 | 1138.7 | 1138.0 | 1139.1 |
| 160° | 1154.6 | 1154.1 | 1153.4 | 1152.8 | 1152.2 | 1151.8 | 1151.6 | 1151.4 | 1151.2 | 1151.0 | 1152.2 |
| 162.5° | 1166.2 | 1165.5 | 1164.7 | 1163.9 | 1163.1 | 1162.6 | 1162.4 | 1162.3 | 1162.1 | 1161.8 | 1163.1 |
| 165° | 1180.8 | 1179.8 | 1178.8 | 1177.8 | 1176.8 | 1176.3 | 1176.3 | 1176.3 | 1176.3 | 1176.3 | 1177.9 |
| 167.5° | 1192.4 | 1191.3 | 1190.3 | 1189.3 | 1188.2 | 1187.7 | 1187.5 | 1187.4 | 1187.3 | 1187.1 | 1188.9 |
| 170° | 1198.9 | 1197.7 | 1196.5 | 1195.2 | 1194.1 | 1193.6 | 1193.7 | 1194.0 | 1194.2 | 1194.4 | 1196.0 |
| 172.5° | 1203.2 | 1202.0 | 1200.8 | 1199.6 | 1198.4 | 1197.9 | 1198.1 | 1198.3 | 1198.5 | 1198.7 | 1200.3 |
| 175° | 1207.9 | 1206.8 | 1205.5 | 1204.3 | 1203.1 | 1202.7 | 1202.8 | 1203.0 | 1203.2 | 1203.5 | 1205.2 |
| 177.5° | 1210.1 | 1209.0 | 1207.8 | 1206.8 | 1205.6 | 1205.2 | 1205.5 | 1205.9 | 1206.1 | 1206.5 | 1207.7 |
| 180° | 1207.9 | 1207.9 | 1207.9 | 1207.9 | 1207.9 | 1207.9 | 1207.9 | 1207.9 | 1207.9 | 1207.9 | 1207.9 |



TEST NUMBER: P332821-940

CATALOG NUMBER: S124DIW-S1020D1050U940-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1538.6 | 1538.6 | 1538.6 | 1538.6 | 1538.6 | 1538.6 | 1538.6 | 1538.6 |
| 2.5° | 1533.1 | 1535.3 | 1537.6 | 1538.6 | 1538.3 | 1538.1 | 1537.8 | 1537.7 |
| 5° | 1524.9 | 1527.9 | 1531.0 | 1532.2 | 1531.7 | 1531.1 | 1530.5 | 1530.0 |
| 7.5° | 1508.0 | 1510.4 | 1512.8 | 1513.9 | 1513.5 | 1513.1 | 1512.8 | 1512.5 |
| 10° | 1493.7 | 1495.9 | 1498.1 | 1498.9 | 1498.3 | 1497.8 | 1497.3 | 1496.7 |
| 12.5° | 1476.4 | 1478.8 | 1481.2 | 1482.0 | 1481.3 | 1480.5 | 1479.7 | 1479.0 |
| 15° | 1443.3 | 1444.9 | 1446.6 | 1447.0 | 1446.2 | 1445.4 | 1444.6 | 1443.7 |
| 17.5° | 1405.6 | 1406.7 | 1407.7 | 1407.9 | 1407.4 | 1406.9 | 1406.3 | 1405.7 |
| 20° | 1377.5 | 1378.4 | 1379.2 | 1379.3 | 1378.8 | 1378.2 | 1377.7 | 1377.2 |
| 22.5° | 1348.3 | 1349.8 | 1351.2 | 1351.5 | 1350.5 | 1349.5 | 1348.5 | 1347.6 |
| 25° | 1300.0 | 1300.3 | 1300.6 | 1300.1 | 1299.0 | 1298.0 | 1296.8 | 1295.7 |
| 27.5° | 1245.9 | 1245.2 | 1244.6 | 1243.6 | 1242.2 | 1240.8 | 1239.4 | 1238.1 |
| 30° | 1208.5 | 1207.4 | 1206.3 | 1205.1 | 1203.7 | 1202.3 | 1201.0 | 1199.6 |
| 32.5° | 1170.5 | 1169.3 | 1168.0 | 1166.6 | 1165.2 | 1163.9 | 1162.5 | 1161.1 |
| 35° | 1110.7 | 1108.8 | 1106.9 | 1105.2 | 1103.8 | 1102.5 | 1101.1 | 1099.7 |
| 37.5° | 1047.9 | 1045.9 | 1043.8 | 1041.9 | 1040.1 | 1038.2 | 1036.4 | 1034.7 |
| 40° | 1004.2 | 1001.5 | 998.8 | 996.8 | 995.3 | 994.0 | 992.7 | 991.2 |
| 42.5° | 962.0 | 958.8 | 955.6 | 953.5 | 952.6 | 951.6 | 950.7 | 949.9 |
| 45° | 896.4 | 893.4 | 890.4 | 888.5 | 887.7 | 886.9 | 886.0 | 885.2 |
| 47.5° | 833.0 | 829.6 | 826.3 | 823.5 | 821.4 | 819.3 | 817.3 | 815.2 |
| 50° | 788.8 | 785.0 | 781.1 | 778.4 | 776.7 | 775.1 | 773.5 | 771.8 |
| 52.5° | 743.3 | 739.9 | 736.5 | 733.8 | 731.6 | 729.6 | 727.5 | 725.4 |
| 55° | 676.5 | 673.2 | 669.9 | 667.4 | 665.8 | 664.1 | 662.5 | 660.8 |
| 57.5° | 609.5 | 606.4 | 603.2 | 600.8 | 599.2 | 597.7 | 596.1 | 594.5 |
| 60° | 563.5 | 561.0 | 558.5 | 556.6 | 555.2 | 553.8 | 552.5 | 551.1 |
| 62.5° | 518.5 | 516.2 | 514.0 | 512.2 | 510.9 | 509.4 | 508.1 | 506.8 |
| 65° | 453.2 | 450.4 | 447.6 | 445.6 | 444.3 | 442.9 | 441.5 | 440.1 |
| 67.5° | 385.8 | 383.2 | 380.6 | 379.1 | 378.6 | 378.3 | 377.9 | 377.6 |
| 70° | 343.3 | 341.1 | 338.9 | 337.4 | 336.6 | 335.7 | 334.9 | 334.1 |
| 72.5° | 300.8 | 299.0 | 297.3 | 296.0 | 295.2 | 294.4 | 293.6 | 292.7 |
| 75° | 239.4 | 238.4 | 237.3 | 236.6 | 236.3 | 236.0 | 235.8 | 235.5 |
| 77.5° | 181.3 | 181.0 | 180.7 | 180.1 | 179.4 | 178.7 | 178.0 | 177.3 |
| 80° | 144.4 | 143.8 | 143.3 | 142.9 | 142.6 | 142.3 | 142.0 | 141.8 |
| 82.5° | 111.3 | 110.9 | 110.7 | 110.3 | 110.0 | 109.8 | 109.5 | 109.2 |
| 85° | 64.1 | 64.1 | 64.1 | 63.9 | 63.7 | 63.4 | 63.1 | 62.9 |
| 87.5° | 28.1 | 28.4 | 28.6 | 28.8 | 28.9 | 28.9 | 29.0 | 29.1 |
| 90° | 22.3 | 23.5 | 24.7 | 25.5 | 25.9 | 26.3 | 26.7 | 27.1 |
| 92.5° | 21.6 | 22.7 | 24.0 | 24.6 | 24.7 | 24.8 | 24.9 | 25.0 |
| 95° | 22.3 | 23.5 | 24.7 | 25.4 | 25.6 | 25.8 | 26.0 | 26.2 |
| 97.5° | 24.1 | 24.3 | 24.3 | 24.5 | 24.7 | 24.9 | 25.1 | 25.3 |
| 100° | 32.9 | 29.5 | 26.1 | 24.5 | 24.7 | 24.9 | 25.1 | 25.3 |
| 102.5° | 117.9 | 81.1 | 44.2 | 25.9 | 25.9 | 25.9 | 25.9 | 26.0 |
| 105° | 285.5 | 287.3 | 289.1 | 286.4 | 279.2 | 272.0 | 264.7 | 257.5 |
| 107.5° | 353.2 | 354.1 | 355.0 | 355.8 | 356.6 | 357.3 | 358.1 | 358.8 |
| 110° | 399.2 | 399.7 | 400.0 | 400.6 | 401.2 | 401.7 | 402.3 | 403.0 |



TEST NUMBER: P332821-940

CATALOG NUMBER: S124DIW-S1020D1050U940-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 443.8 | 443.7 | 443.6 | 444.0 | 444.8 | 445.5 | 446.3 | 447.0 |
| 115° | 510.3 | 510.8 | 511.1 | 511.4 | 511.4 | 511.4 | 511.4 | 511.4 |
| 117.5° | 577.3 | 577.3 | 577.2 | 577.1 | 577.0 | 576.9 | 576.8 | 576.8 |
| 120° | 618.8 | 619.2 | 619.6 | 619.6 | 619.2 | 618.8 | 618.4 | 618.0 |
| 122.5° | 659.7 | 659.9 | 660.1 | 660.0 | 659.7 | 659.2 | 658.9 | 658.4 |
| 125° | 716.8 | 717.4 | 717.9 | 718.4 | 718.5 | 718.7 | 719.0 | 719.2 |
| 127.5° | 773.5 | 773.4 | 773.2 | 773.1 | 772.9 | 772.8 | 772.6 | 772.5 |
| 130° | 808.1 | 808.3 | 808.5 | 808.6 | 808.6 | 808.6 | 808.6 | 808.6 |
| 132.5° | 842.0 | 842.3 | 842.5 | 842.5 | 842.3 | 842.1 | 842.0 | 841.9 |
| 135° | 888.9 | 889.3 | 889.7 | 890.1 | 890.6 | 890.9 | 891.4 | 891.7 |
| 137.5° | 933.8 | 934.2 | 934.7 | 934.9 | 934.7 | 934.6 | 934.5 | 934.3 |
| 140° | 961.6 | 962.2 | 962.8 | 963.2 | 963.4 | 963.6 | 963.8 | 964.0 |
| 142.5° | 987.3 | 987.7 | 988.2 | 988.4 | 988.5 | 988.5 | 988.6 | 988.6 |
| 145° | 1024.0 | 1024.2 | 1024.4 | 1024.8 | 1025.1 | 1025.6 | 1025.9 | 1026.4 |
| 147.5° | 1056.3 | 1056.4 | 1056.6 | 1056.8 | 1057.0 | 1057.2 | 1057.4 | 1057.6 |
| 150° | 1076.9 | 1076.9 | 1076.9 | 1077.0 | 1077.2 | 1077.5 | 1077.6 | 1077.8 |
| 152.5° | 1094.9 | 1095.2 | 1095.6 | 1095.6 | 1095.6 | 1095.4 | 1095.3 | 1095.2 |
| 155° | 1119.2 | 1120.0 | 1120.8 | 1120.9 | 1120.3 | 1119.7 | 1119.1 | 1118.5 |
| 157.5° | 1140.1 | 1141.1 | 1142.2 | 1142.2 | 1141.1 | 1140.1 | 1139.1 | 1138.0 |
| 160° | 1153.4 | 1154.6 | 1155.8 | 1155.8 | 1154.6 | 1153.4 | 1152.2 | 1151.0 |
| 162.5° | 1164.2 | 1165.5 | 1166.6 | 1166.6 | 1165.2 | 1163.9 | 1162.5 | 1161.1 |
| 165° | 1179.6 | 1181.2 | 1182.8 | 1182.6 | 1180.8 | 1179.0 | 1177.2 | 1175.4 |
| 167.5° | 1190.7 | 1192.5 | 1194.2 | 1194.1 | 1192.1 | 1190.1 | 1188.1 | 1186.1 |
| 170° | 1197.6 | 1199.2 | 1200.8 | 1200.6 | 1198.5 | 1196.6 | 1194.5 | 1192.6 |
| 172.5° | 1201.9 | 1203.5 | 1205.1 | 1204.9 | 1202.7 | 1200.5 | 1198.4 | 1196.1 |
| 175° | 1207.0 | 1208.8 | 1210.7 | 1210.3 | 1207.9 | 1205.5 | 1203.1 | 1200.7 |
| 177.5° | 1209.1 | 1210.3 | 1211.7 | 1211.3 | 1209.3 | 1207.5 | 1205.5 | 1203.6 |
| 180° | 1207.9 | 1207.9 | 1207.9 | 1207.9 | 1207.9 | 1207.9 | 1207.9 | 1207.9 |

(END OF REPORT)