

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: P332087-940

Luminaire Tested: **S123DIP-S1165D1195U940-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332087-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S1165D1195U940-4F0-1E-UDD-F
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1165 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 1195 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8498.1 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.31
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: General Diffuse

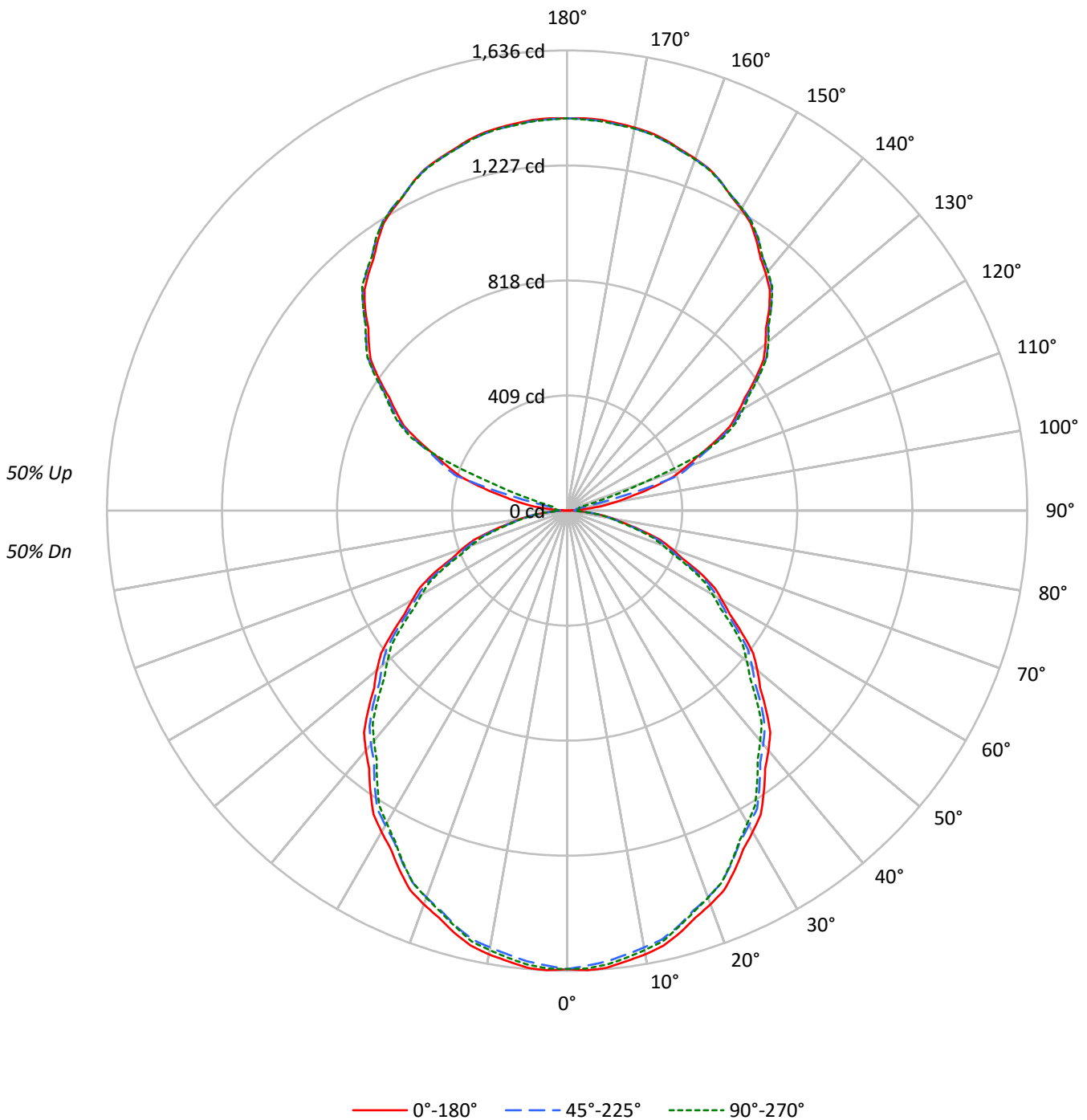
Input Watts (W): 71.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332087-940

CATALOG NUMBER: S123DIP-S1165D1195U940-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P332087-940

CATALOG NUMBER: S123DIP-S1165D1195U940-4F0-1E-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 | 83 | 83 | 83 | | 69 | 69 | 69 | | 56 | 56 | 56 | 50 |
| 1 | 98 | 93 | 89 | 86 | 90 | 86 | 83 | 80 | 73 | 71 | 68 | | 61 | 59 | 57 | | 49 | 48 | 47 | 42 |
| 2 | 89 | 81 | 75 | 70 | 82 | 75 | 70 | 65 | 64 | 60 | 56 | | 53 | 50 | 48 | | 43 | 41 | 40 | 35 |
| 3 | 81 | 72 | 64 | 58 | 75 | 66 | 60 | 55 | 56 | 51 | 47 | | 47 | 43 | 40 | | 39 | 36 | 34 | 30 |
| 4 | 74 | 63 | 55 | 49 | 68 | 59 | 52 | 46 | 50 | 45 | 40 | | 42 | 38 | 35 | | 34 | 31 | 29 | 25 |
| 5 | 68 | 56 | 48 | 42 | 63 | 52 | 45 | 40 | 45 | 39 | 35 | | 38 | 33 | 30 | | 31 | 28 | 25 | 22 |
| 6 | 63 | 51 | 42 | 37 | 58 | 47 | 40 | 35 | 40 | 35 | 30 | | 34 | 30 | 26 | | 28 | 25 | 22 | 19 |
| 7 | 58 | 46 | 38 | 32 | 53 | 43 | 35 | 30 | 37 | 31 | 27 | | 31 | 27 | 23 | | 26 | 22 | 20 | 17 |
| 8 | 54 | 41 | 34 | 28 | 50 | 39 | 32 | 27 | 33 | 28 | 24 | | 28 | 24 | 21 | | 24 | 20 | 18 | 15 |
| 9 | 50 | 38 | 30 | 25 | 46 | 35 | 29 | 24 | 31 | 25 | 21 | | 26 | 22 | 19 | | 22 | 18 | 16 | 14 |
| 10 | 47 | 35 | 27 | 23 | 43 | 32 | 26 | 21 | 28 | 23 | 19 | | 24 | 20 | 17 | | 20 | 17 | 15 | 13 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 17546 | 17546 | 17546 |
| 5° | 17629 | 17386 | 17507 |
| 10° | 17511 | 17235 | 17343 |
| 15° | 17307 | 17041 | 17072 |
| 20° | 17068 | 16763 | 16778 |
| 25° | 16747 | 16431 | 16397 |
| 30° | 16394 | 16063 | 15940 |
| 35° | 16025 | 15674 | 15471 |
| 40° | 15638 | 15244 | 15008 |
| 45° | 15213 | 14850 | 14487 |
| 50° | 14788 | 14364 | 13966 |
| 55° | 14230 | 13863 | 13440 |
| 60° | 13670 | 13276 | 12854 |
| 65° | 13173 | 12638 | 12246 |
| 70° | 12441 | 11909 | 11383 |
| 75° | 11366 | 10959 | 10493 |
| 80° | 10253 | 9819 | 9732 |
| 85° | 9003 | 8657 | 8312 |



TEST NUMBER: P332087-940

CATALOG NUMBER: S123DIP-S1165D1195U940-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 153.6 | 1.8 |
| 10°-20° | 433.6 | 5.1 |
| 20°-30° | 640.5 | 7.5 |
| 30°-40° | 748.2 | 8.8 |
| 40°-50° | 752.2 | 8.9 |
| 50°-60° | 660.7 | 7.8 |
| 60°-70° | 492.2 | 5.8 |
| 70°-80° | 280.4 | 3.3 |
| 80°-90° | 84.4 | 1.0 |
| 90°-100° | 50.7 | 0.6 |
| 100°-110° | 241.6 | 2.8 |
| 110°-120° | 580.4 | 6.8 |
| 120°-130° | 739.1 | 8.7 |
| 130°-140° | 789.7 | 9.3 |
| 140°-150° | 738.4 | 8.7 |
| 150°-160° | 595.6 | 7.0 |
| 160°-170° | 384.4 | 4.5 |
| 170°-180° | 132.5 | 1.6 |
| 0°-30° | 1227.6 | 14.4 |
| 0°-40° | 1975.8 | 23.2 |
| 0°-60° | 3388.7 | 39.9 |
| 0°-90° | 4245.7 | 50.0 |
| 90°-120° | 872.7 | 10.3 |
| 90°-150° | 3139.9 | 36.9 |
| 90°-180° | 4252.0 | 50.0 |
| 0°-180° | 8498.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1630 | 1630 | 1630 | 1630 | 1630 | |
| 5° | 1632 | 1624 | 1609 | 1622 | 1620 | 155 |
| 15° | 1553 | 1547 | 1529 | 1539 | 1532 | 438 |
| 25° | 1410 | 1401 | 1384 | 1385 | 1381 | 649 |
| 35° | 1220 | 1211 | 1193 | 1185 | 1177 | 763 |
| 45° | 999 | 993 | 976 | 959 | 952 | 771 |
| 55° | 758 | 756 | 739 | 724 | 716 | 679 |
| 65° | 517 | 510 | 496 | 485 | 481 | 510 |
| 75° | 273 | 268 | 264 | 257 | 252 | 292 |
| 85° | 73 | 70 | 70 | 67 | 67 | 80 |
| 90° | 1 | 12 | 25 | 29 | 31 | 7 |
| 95° | 63 | 24 | 32 | 39 | 39 | 78 |
| 105° | 309 | 314 | 227 | 54 | 46 | 327 |
| 115° | 579 | 586 | 595 | 605 | 609 | 571 |
| 125° | 816 | 824 | 829 | 831 | 833 | 729 |
| 135° | 1016 | 1022 | 1027 | 1030 | 1027 | 782 |
| 145° | 1173 | 1180 | 1182 | 1184 | 1184 | 734 |
| 155° | 1292 | 1290 | 1291 | 1295 | 1290 | 595 |
| 165° | 1362 | 1359 | 1358 | 1366 | 1359 | 385 |
| 175° | 1394 | 1390 | 1390 | 1397 | 1389 | 133 |
| 180° | 1394 | 1394 | 1394 | 1394 | 1394 | |



TEST NUMBER: P332087-940

CATALOG NUMBER: S123DIP-S1165D1195U940-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1630.1 | 1630.1 | 1630.1 | 1630.1 | 1630.1 | 1630.1 | 1630.1 | 1630.1 | 1630.1 | 1630.1 | 1630.1 |
| 2.5° | 1635.8 | 1634.8 | 1633.8 | 1632.8 | 1631.7 | 1629.9 | 1627.2 | 1624.4 | 1621.7 | 1618.9 | 1621.4 |
| 5° | 1631.6 | 1630.0 | 1628.4 | 1626.9 | 1625.3 | 1622.8 | 1619.4 | 1616.0 | 1612.6 | 1609.1 | 1612.2 |
| 7.5° | 1615.6 | 1614.0 | 1612.5 | 1610.9 | 1609.4 | 1606.8 | 1603.2 | 1599.7 | 1596.2 | 1592.6 | 1595.4 |
| 10° | 1602.1 | 1600.5 | 1599.0 | 1597.4 | 1595.9 | 1593.1 | 1589.0 | 1585.0 | 1580.9 | 1576.9 | 1579.7 |
| 12.5° | 1584.2 | 1582.9 | 1581.5 | 1580.3 | 1579.0 | 1576.4 | 1572.6 | 1568.8 | 1565.0 | 1561.2 | 1563.3 |
| 15° | 1553.1 | 1551.8 | 1550.6 | 1549.3 | 1548.1 | 1545.4 | 1541.4 | 1537.3 | 1533.3 | 1529.2 | 1531.7 |
| 17.5° | 1516.9 | 1515.3 | 1513.7 | 1512.1 | 1510.4 | 1507.6 | 1503.5 | 1499.5 | 1495.4 | 1491.4 | 1493.2 |
| 20° | 1490.0 | 1488.1 | 1486.2 | 1484.3 | 1482.6 | 1479.5 | 1475.5 | 1471.5 | 1467.4 | 1463.4 | 1464.6 |
| 22.5° | 1459.7 | 1457.9 | 1456.0 | 1454.1 | 1452.2 | 1449.3 | 1445.2 | 1441.2 | 1437.2 | 1433.1 | 1434.0 |
| 25° | 1410.1 | 1408.2 | 1406.3 | 1404.4 | 1402.7 | 1399.6 | 1395.6 | 1391.6 | 1387.5 | 1383.5 | 1383.8 |
| 27.5° | 1357.1 | 1355.3 | 1353.5 | 1351.7 | 1349.9 | 1346.8 | 1342.5 | 1338.1 | 1333.7 | 1329.4 | 1329.6 |
| 30° | 1319.0 | 1317.4 | 1315.9 | 1314.3 | 1312.8 | 1309.8 | 1305.5 | 1301.1 | 1296.7 | 1292.4 | 1292.4 |
| 32.5° | 1280.9 | 1278.8 | 1276.8 | 1274.7 | 1272.6 | 1269.9 | 1266.6 | 1263.2 | 1259.8 | 1256.5 | 1254.7 |
| 35° | 1219.5 | 1217.6 | 1215.8 | 1213.9 | 1212.0 | 1209.1 | 1205.0 | 1201.0 | 1196.9 | 1192.8 | 1191.0 |
| 37.5° | 1156.6 | 1154.3 | 1151.9 | 1149.6 | 1147.2 | 1144.0 | 1139.9 | 1135.8 | 1131.7 | 1127.5 | 1125.2 |
| 40° | 1112.9 | 1111.1 | 1109.2 | 1107.3 | 1105.5 | 1102.3 | 1098.0 | 1093.6 | 1089.2 | 1084.9 | 1082.4 |
| 42.5° | 1069.2 | 1067.1 | 1065.0 | 1062.8 | 1060.7 | 1057.5 | 1053.1 | 1048.7 | 1044.4 | 1040.1 | 1037.6 |
| 45° | 999.4 | 998.2 | 996.9 | 995.7 | 994.4 | 991.8 | 987.7 | 983.6 | 979.6 | 975.5 | 971.9 |
| 47.5° | 930.1 | 928.4 | 926.6 | 924.7 | 922.9 | 920.2 | 916.3 | 912.5 | 908.7 | 904.9 | 901.3 |
| 50° | 883.1 | 881.5 | 879.9 | 878.4 | 876.8 | 874.1 | 870.0 | 865.9 | 861.8 | 857.8 | 854.4 |
| 52.5° | 833.7 | 832.7 | 831.6 | 830.5 | 829.5 | 826.8 | 822.5 | 818.2 | 814.0 | 809.6 | 806.6 |
| 55° | 758.3 | 758.0 | 757.7 | 757.4 | 757.1 | 754.9 | 750.8 | 746.8 | 742.7 | 738.7 | 735.3 |
| 57.5° | 686.5 | 685.5 | 684.4 | 683.4 | 682.3 | 680.2 | 676.9 | 673.7 | 670.5 | 667.2 | 664.1 |
| 60° | 635.0 | 634.6 | 634.4 | 634.0 | 633.7 | 631.7 | 627.9 | 624.2 | 620.5 | 616.7 | 613.9 |
| 62.5° | 589.0 | 588.2 | 587.4 | 586.6 | 585.8 | 583.4 | 579.7 | 576.0 | 572.3 | 568.6 | 565.7 |
| 65° | 517.2 | 515.7 | 514.1 | 512.6 | 511.0 | 508.6 | 505.5 | 502.4 | 499.3 | 496.2 | 493.7 |
| 67.5° | 441.2 | 439.9 | 438.5 | 437.1 | 435.8 | 433.9 | 431.5 | 429.2 | 426.8 | 424.5 | 422.2 |
| 70° | 395.3 | 393.4 | 391.6 | 389.7 | 387.8 | 385.9 | 384.1 | 382.2 | 380.3 | 378.4 | 376.3 |
| 72.5° | 347.1 | 345.7 | 344.3 | 343.0 | 341.6 | 339.8 | 337.7 | 335.6 | 333.5 | 331.4 | 329.4 |
| 75° | 273.3 | 272.1 | 270.8 | 269.6 | 268.3 | 267.2 | 266.4 | 265.4 | 264.5 | 263.5 | 262.0 |
| 77.5° | 208.0 | 207.3 | 206.6 | 206.0 | 205.3 | 204.4 | 203.2 | 202.2 | 201.0 | 199.9 | 198.9 |
| 80° | 165.4 | 164.4 | 163.5 | 162.6 | 161.7 | 160.9 | 160.2 | 159.6 | 159.0 | 158.4 | 158.1 |
| 82.5° | 123.9 | 123.7 | 123.5 | 123.3 | 123.1 | 123.0 | 122.9 | 122.8 | 122.6 | 122.5 | 122.0 |
| 85° | 72.9 | 72.2 | 71.6 | 71.0 | 70.4 | 70.1 | 70.1 | 70.1 | 70.1 | 70.1 | 69.5 |
| 87.5° | 29.3 | 29.1 | 28.8 | 28.5 | 28.2 | 28.3 | 28.6 | 29.0 | 29.3 | 29.6 | 29.6 |
| 90° | 1.1 | 3.3 | 5.6 | 7.9 | 10.3 | 12.9 | 15.9 | 18.9 | 21.8 | 24.9 | 25.8 |
| 92.5° | 19.3 | 18.6 | 18.0 | 17.3 | 16.7 | 17.5 | 19.8 | 22.0 | 24.3 | 26.5 | 28.0 |
| 95° | 63.2 | 53.8 | 44.3 | 34.9 | 25.4 | 22.0 | 24.5 | 27.0 | 29.6 | 32.1 | 33.7 |
| 97.5° | 127.0 | 122.8 | 118.5 | 114.3 | 110.0 | 99.7 | 83.1 | 66.5 | 49.9 | 33.3 | 35.2 |
| 100° | 175.0 | 179.7 | 184.3 | 188.9 | 193.5 | 177.8 | 142.0 | 106.0 | 70.1 | 34.2 | 36.0 |
| 102.5° | 229.8 | 233.1 | 236.4 | 239.7 | 243.1 | 225.1 | 185.8 | 146.6 | 107.4 | 68.1 | 62.4 |
| 105° | 308.7 | 311.3 | 313.8 | 316.3 | 318.9 | 309.8 | 289.0 | 268.3 | 247.6 | 226.9 | 186.1 |
| 107.5° | 392.0 | 394.0 | 396.1 | 398.1 | 400.1 | 402.8 | 406.1 | 409.3 | 412.6 | 415.9 | 385.9 |
| 110° | 447.5 | 449.4 | 451.2 | 453.1 | 455.0 | 457.1 | 459.7 | 462.2 | 464.7 | 467.3 | 459.7 |



TEST NUMBER: P332087-940

CATALOG NUMBER: S123DIP-S1165D1195U940-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 500.6 | 502.2 | 503.9 | 505.6 | 507.2 | 509.3 | 511.8 | 514.4 | 516.9 | 519.4 | 519.6 |
| 115° | 579.2 | 580.5 | 581.8 | 583.3 | 584.6 | 586.4 | 588.4 | 590.5 | 592.6 | 594.7 | 597.0 |
| 117.5° | 655.1 | 656.8 | 658.5 | 660.3 | 662.0 | 663.3 | 664.4 | 665.5 | 666.6 | 667.6 | 669.4 |
| 120° | 702.4 | 704.5 | 706.6 | 708.6 | 710.7 | 712.1 | 712.7 | 713.5 | 714.2 | 714.8 | 716.7 |
| 122.5° | 750.5 | 752.2 | 753.9 | 755.5 | 757.3 | 758.6 | 759.5 | 760.4 | 761.2 | 762.1 | 763.4 |
| 125° | 816.4 | 818.2 | 820.0 | 821.9 | 823.8 | 825.1 | 826.0 | 827.0 | 827.9 | 828.8 | 829.3 |
| 127.5° | 880.2 | 882.0 | 883.9 | 885.7 | 887.5 | 889.0 | 890.1 | 891.3 | 892.3 | 893.4 | 894.2 |
| 130° | 920.0 | 921.9 | 923.6 | 925.5 | 927.3 | 928.7 | 929.6 | 930.6 | 931.5 | 932.4 | 933.4 |
| 132.5° | 958.1 | 959.9 | 961.8 | 963.6 | 965.5 | 966.7 | 967.5 | 968.2 | 968.9 | 969.7 | 970.6 |
| 135° | 1016.3 | 1017.7 | 1019.0 | 1020.5 | 1021.8 | 1023.0 | 1024.0 | 1024.8 | 1025.7 | 1026.7 | 1027.3 |
| 137.5° | 1066.0 | 1067.8 | 1069.5 | 1071.3 | 1073.1 | 1074.2 | 1074.7 | 1075.2 | 1075.7 | 1076.2 | 1077.3 |
| 140° | 1099.2 | 1100.5 | 1102.0 | 1103.3 | 1104.7 | 1105.7 | 1106.4 | 1107.1 | 1107.9 | 1108.5 | 1109.5 |
| 142.5° | 1129.9 | 1131.2 | 1132.7 | 1134.0 | 1135.4 | 1136.4 | 1137.1 | 1137.8 | 1138.5 | 1139.2 | 1140.0 |
| 145° | 1172.8 | 1174.4 | 1176.0 | 1177.6 | 1179.2 | 1180.3 | 1180.7 | 1181.2 | 1181.6 | 1182.1 | 1182.5 |
| 147.5° | 1213.2 | 1214.2 | 1215.3 | 1216.3 | 1217.4 | 1218.2 | 1218.6 | 1219.1 | 1219.5 | 1219.9 | 1220.5 |
| 150° | 1238.1 | 1238.7 | 1239.4 | 1240.1 | 1240.8 | 1241.4 | 1241.8 | 1242.2 | 1242.8 | 1243.2 | 1243.7 |
| 152.5° | 1260.4 | 1260.7 | 1261.1 | 1261.3 | 1261.7 | 1261.9 | 1262.2 | 1262.6 | 1262.8 | 1263.1 | 1263.9 |
| 155° | 1291.9 | 1291.5 | 1290.9 | 1290.5 | 1290.0 | 1289.9 | 1290.1 | 1290.4 | 1290.7 | 1290.8 | 1292.0 |
| 157.5° | 1316.3 | 1316.3 | 1316.3 | 1316.2 | 1316.2 | 1316.0 | 1315.8 | 1315.5 | 1315.4 | 1315.1 | 1316.5 |
| 160° | 1331.2 | 1331.1 | 1330.8 | 1330.6 | 1330.3 | 1330.1 | 1329.9 | 1329.6 | 1329.5 | 1329.2 | 1330.6 |
| 162.5° | 1345.3 | 1344.8 | 1344.2 | 1343.5 | 1342.9 | 1342.6 | 1342.3 | 1342.1 | 1341.8 | 1341.6 | 1343.2 |
| 165° | 1362.4 | 1361.6 | 1360.9 | 1360.3 | 1359.6 | 1359.1 | 1358.9 | 1358.6 | 1358.4 | 1358.2 | 1360.0 |
| 167.5° | 1375.6 | 1374.7 | 1373.8 | 1372.9 | 1371.9 | 1371.5 | 1371.5 | 1371.5 | 1371.5 | 1371.5 | 1373.3 |
| 170° | 1383.0 | 1382.2 | 1381.3 | 1380.3 | 1379.4 | 1378.9 | 1378.9 | 1378.9 | 1378.9 | 1378.9 | 1380.7 |
| 172.5° | 1388.0 | 1387.0 | 1385.8 | 1384.7 | 1383.6 | 1383.1 | 1383.3 | 1383.5 | 1383.7 | 1383.8 | 1385.7 |
| 175° | 1394.5 | 1393.3 | 1392.1 | 1391.0 | 1389.8 | 1389.4 | 1389.6 | 1389.8 | 1390.1 | 1390.3 | 1392.0 |
| 177.5° | 1396.2 | 1395.2 | 1394.3 | 1393.4 | 1392.4 | 1392.0 | 1392.2 | 1392.4 | 1392.6 | 1392.8 | 1394.3 |
| 180° | 1394.5 | 1394.5 | 1394.5 | 1394.5 | 1394.5 | 1394.5 | 1394.5 | 1394.5 | 1394.5 | 1394.5 | 1394.5 |



TEST NUMBER: P332087-940

CATALOG NUMBER: S123DIP-S1165D1195U940-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1630.1 | 1630.1 | 1630.1 | 1630.1 | 1630.1 | 1630.1 | 1630.1 | 1630.1 |
| 2.5° | 1623.9 | 1626.4 | 1628.9 | 1630.0 | 1629.8 | 1629.5 | 1629.2 | 1629.1 |
| 5° | 1615.3 | 1618.5 | 1621.6 | 1622.8 | 1622.2 | 1621.6 | 1621.0 | 1620.3 |
| 7.5° | 1598.2 | 1601.0 | 1603.8 | 1605.0 | 1604.6 | 1604.3 | 1603.9 | 1603.6 |
| 10° | 1582.5 | 1585.3 | 1588.1 | 1589.2 | 1588.6 | 1588.0 | 1587.3 | 1586.7 |
| 12.5° | 1565.3 | 1567.4 | 1569.4 | 1570.3 | 1569.9 | 1569.5 | 1569.1 | 1568.8 |
| 15° | 1534.2 | 1536.7 | 1539.2 | 1539.5 | 1537.7 | 1535.8 | 1533.9 | 1532.0 |
| 17.5° | 1494.9 | 1496.6 | 1498.3 | 1498.9 | 1498.3 | 1497.5 | 1496.8 | 1496.2 |
| 20° | 1465.9 | 1467.1 | 1468.4 | 1468.5 | 1467.6 | 1466.6 | 1465.7 | 1464.7 |
| 22.5° | 1435.1 | 1436.1 | 1437.1 | 1437.0 | 1435.8 | 1434.6 | 1433.4 | 1432.3 |
| 25° | 1384.1 | 1384.4 | 1384.7 | 1384.4 | 1383.5 | 1382.5 | 1381.6 | 1380.6 |
| 27.5° | 1329.9 | 1330.1 | 1330.3 | 1329.9 | 1328.7 | 1327.5 | 1326.3 | 1325.2 |
| 30° | 1292.4 | 1292.4 | 1292.4 | 1291.3 | 1289.1 | 1286.9 | 1284.7 | 1282.5 |
| 32.5° | 1252.9 | 1251.2 | 1249.5 | 1248.0 | 1246.9 | 1245.6 | 1244.5 | 1243.3 |
| 35° | 1189.1 | 1187.2 | 1185.4 | 1183.7 | 1182.1 | 1180.5 | 1178.9 | 1177.4 |
| 37.5° | 1123.0 | 1120.8 | 1118.6 | 1117.0 | 1115.9 | 1114.9 | 1113.9 | 1112.9 |
| 40° | 1080.0 | 1077.5 | 1075.0 | 1073.1 | 1071.8 | 1070.6 | 1069.3 | 1068.1 |
| 42.5° | 1035.1 | 1032.6 | 1030.1 | 1028.2 | 1027.0 | 1025.7 | 1024.5 | 1023.2 |
| 45° | 968.1 | 964.4 | 960.6 | 958.0 | 956.4 | 954.8 | 953.3 | 951.7 |
| 47.5° | 897.6 | 893.9 | 890.2 | 887.7 | 886.4 | 884.9 | 883.6 | 882.3 |
| 50° | 851.0 | 847.6 | 844.1 | 841.5 | 839.6 | 837.8 | 835.9 | 834.0 |
| 52.5° | 803.8 | 800.8 | 797.9 | 795.5 | 793.6 | 791.8 | 789.9 | 788.0 |
| 55° | 731.8 | 728.4 | 725.0 | 722.5 | 720.9 | 719.3 | 717.8 | 716.2 |
| 57.5° | 661.1 | 658.1 | 655.0 | 652.6 | 650.8 | 649.0 | 647.1 | 645.3 |
| 60° | 611.2 | 608.3 | 605.6 | 603.3 | 601.8 | 600.2 | 598.7 | 597.1 |
| 62.5° | 562.9 | 560.1 | 557.3 | 555.4 | 554.3 | 553.2 | 552.2 | 551.2 |
| 65° | 491.2 | 488.7 | 486.2 | 484.6 | 483.6 | 482.7 | 481.7 | 480.8 |
| 67.5° | 420.1 | 417.9 | 415.7 | 413.9 | 412.7 | 411.3 | 410.0 | 408.8 |
| 70° | 374.1 | 371.9 | 369.7 | 367.8 | 366.3 | 364.7 | 363.2 | 361.7 |
| 72.5° | 327.5 | 325.6 | 323.6 | 322.3 | 321.5 | 320.7 | 319.9 | 319.1 |
| 75° | 260.4 | 258.9 | 257.3 | 256.0 | 255.1 | 254.1 | 253.2 | 252.3 |
| 77.5° | 197.8 | 196.7 | 195.6 | 195.1 | 195.1 | 195.1 | 195.1 | 195.1 |
| 80° | 157.7 | 157.5 | 157.1 | 157.0 | 157.0 | 157.0 | 157.0 | 157.0 |
| 82.5° | 121.4 | 120.8 | 120.3 | 119.8 | 119.6 | 119.4 | 119.1 | 118.9 |
| 85° | 68.8 | 68.2 | 67.6 | 67.3 | 67.3 | 67.3 | 67.3 | 67.3 |
| 87.5° | 29.5 | 29.4 | 29.4 | 29.4 | 29.5 | 29.6 | 29.7 | 29.8 |
| 90° | 26.7 | 27.6 | 28.5 | 29.2 | 29.7 | 30.1 | 30.6 | 31.1 |
| 92.5° | 29.4 | 30.9 | 32.5 | 33.3 | 33.5 | 33.9 | 34.2 | 34.4 |
| 95° | 35.3 | 36.9 | 38.5 | 39.3 | 39.3 | 39.3 | 39.3 | 39.3 |
| 97.5° | 37.0 | 38.9 | 40.8 | 41.7 | 42.0 | 42.3 | 42.4 | 42.7 |
| 100° | 37.9 | 39.7 | 41.6 | 42.6 | 42.8 | 43.1 | 43.2 | 43.5 |
| 102.5° | 56.7 | 51.0 | 45.3 | 42.7 | 43.1 | 43.5 | 44.0 | 44.3 |
| 105° | 145.3 | 104.6 | 63.8 | 43.8 | 44.2 | 44.7 | 45.1 | 45.6 |
| 107.5° | 356.1 | 326.2 | 296.3 | 266.0 | 235.3 | 204.6 | 173.9 | 143.2 |
| 110° | 452.0 | 444.4 | 436.8 | 416.6 | 383.7 | 350.7 | 317.8 | 284.9 |



TEST NUMBER: P332087-940

CATALOG NUMBER: S123DIP-S1165D1195U940-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 519.7 | 519.9 | 520.0 | 516.6 | 509.6 | 502.7 | 495.7 | 488.7 |
| 115° | 599.2 | 601.5 | 603.9 | 605.5 | 606.4 | 607.3 | 608.2 | 609.1 |
| 117.5° | 671.3 | 673.2 | 674.9 | 676.0 | 676.2 | 676.4 | 676.5 | 676.7 |
| 120° | 718.5 | 720.3 | 722.2 | 723.1 | 723.1 | 723.1 | 723.1 | 723.1 |
| 122.5° | 764.6 | 766.0 | 767.2 | 767.9 | 768.1 | 768.3 | 768.6 | 768.7 |
| 125° | 829.7 | 830.2 | 830.6 | 831.1 | 831.5 | 832.1 | 832.5 | 832.9 |
| 127.5° | 894.9 | 895.6 | 896.3 | 896.5 | 896.1 | 895.6 | 895.2 | 894.7 |
| 130° | 934.2 | 935.1 | 936.1 | 936.3 | 935.9 | 935.4 | 935.0 | 934.5 |
| 132.5° | 971.5 | 972.5 | 973.4 | 973.5 | 972.9 | 972.2 | 971.6 | 970.9 |
| 135° | 1028.1 | 1028.8 | 1029.5 | 1029.5 | 1028.8 | 1028.1 | 1027.3 | 1026.7 |
| 137.5° | 1078.4 | 1079.5 | 1080.6 | 1080.9 | 1080.5 | 1080.0 | 1079.6 | 1079.1 |
| 140° | 1110.4 | 1111.3 | 1112.2 | 1112.4 | 1112.0 | 1111.5 | 1111.1 | 1110.6 |
| 142.5° | 1140.7 | 1141.4 | 1142.1 | 1142.2 | 1141.6 | 1140.9 | 1140.2 | 1139.6 |
| 145° | 1183.0 | 1183.5 | 1183.9 | 1184.1 | 1184.1 | 1184.1 | 1184.1 | 1184.1 |
| 147.5° | 1220.9 | 1221.4 | 1221.8 | 1221.6 | 1220.5 | 1219.4 | 1218.3 | 1217.3 |
| 150° | 1244.1 | 1244.6 | 1245.0 | 1244.9 | 1244.2 | 1243.6 | 1242.9 | 1242.2 |
| 152.5° | 1264.7 | 1265.6 | 1266.4 | 1266.3 | 1265.2 | 1264.2 | 1263.1 | 1262.0 |
| 155° | 1293.2 | 1294.3 | 1295.5 | 1295.3 | 1294.0 | 1292.6 | 1291.2 | 1289.9 |
| 157.5° | 1317.9 | 1319.2 | 1320.6 | 1320.4 | 1318.7 | 1316.8 | 1315.0 | 1313.2 |
| 160° | 1331.9 | 1333.3 | 1334.7 | 1334.6 | 1333.0 | 1331.4 | 1329.7 | 1328.1 |
| 162.5° | 1344.8 | 1346.3 | 1347.9 | 1347.9 | 1346.5 | 1345.1 | 1343.6 | 1342.2 |
| 165° | 1361.9 | 1363.7 | 1365.6 | 1365.7 | 1364.1 | 1362.4 | 1360.8 | 1359.2 |
| 167.5° | 1375.1 | 1377.0 | 1378.9 | 1378.9 | 1377.0 | 1375.1 | 1373.3 | 1371.5 |
| 170° | 1382.6 | 1384.5 | 1386.3 | 1386.3 | 1384.5 | 1382.6 | 1380.7 | 1378.9 |
| 172.5° | 1387.6 | 1389.4 | 1391.2 | 1391.2 | 1389.1 | 1387.1 | 1385.1 | 1383.0 |
| 175° | 1393.6 | 1395.2 | 1396.8 | 1396.6 | 1394.8 | 1392.9 | 1391.2 | 1389.3 |
| 177.5° | 1395.7 | 1397.2 | 1398.6 | 1398.5 | 1396.7 | 1394.8 | 1392.9 | 1391.2 |
| 180° | 1394.5 | 1394.5 | 1394.5 | 1394.5 | 1394.5 | 1394.5 | 1394.5 | 1394.5 |

(END OF REPORT)