

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: P332016

Luminaire Tested: **S123DIP-S1000D585U835-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332016
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S1000D585U835-4F0-1E-UDD-F1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 585 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6132.7 lumens
Efficiency: N/A
Efficacy: 125.7 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: Semi-Direct

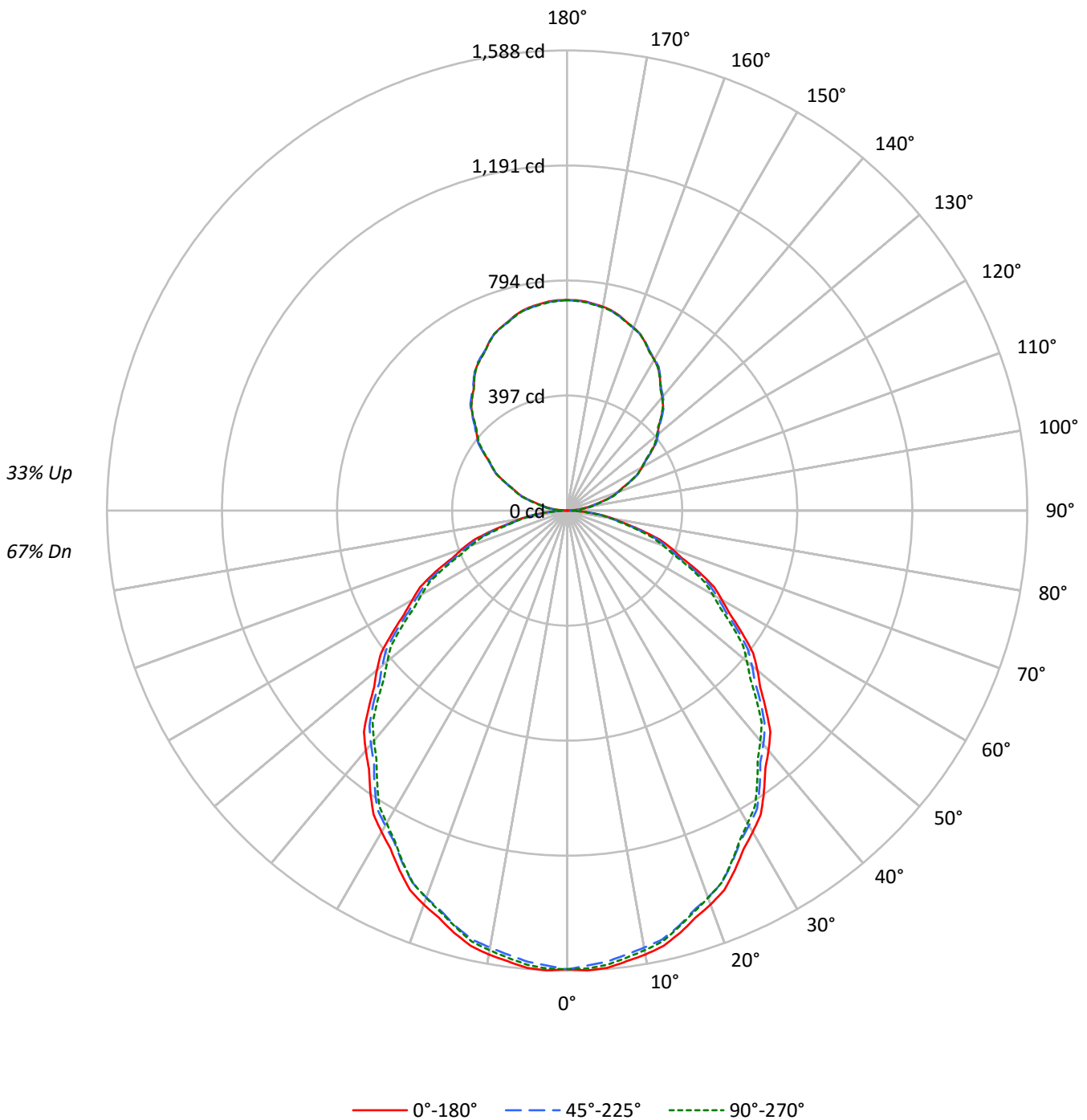
Input Watts (W): 48.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332016

CATALOG NUMBER: S123DIP-S1000D585U835-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P332016

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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 | 111 | 111 | 111 | 111 | 105 | 105 | 105 | 105 | 93 | 93 | 93 | 82 | 82 | 82 | 72 | 72 | 72 | 67 |
| 1 | 102 | 97 | 93 | 89 | 96 | 92 | 88 | 85 | 81 | 79 | 76 | 72 | 70 | 68 | 63 | 62 | 61 | 56 |
| 2 | 92 | 85 | 78 | 73 | 87 | 80 | 74 | 70 | 71 | 67 | 63 | 63 | 60 | 57 | 56 | 53 | 51 | 47 |
| 3 | 84 | 75 | 67 | 61 | 79 | 70 | 64 | 58 | 63 | 58 | 53 | 56 | 52 | 48 | 49 | 46 | 43 | 40 |
| 4 | 77 | 66 | 58 | 52 | 72 | 63 | 55 | 49 | 56 | 50 | 45 | 50 | 45 | 41 | 44 | 40 | 37 | 34 |
| 5 | 71 | 59 | 50 | 44 | 67 | 56 | 48 | 43 | 50 | 44 | 39 | 45 | 40 | 36 | 40 | 36 | 33 | 30 |
| 6 | 65 | 53 | 45 | 39 | 61 | 50 | 43 | 37 | 45 | 39 | 34 | 41 | 35 | 31 | 36 | 32 | 29 | 26 |
| 7 | 61 | 48 | 40 | 34 | 57 | 46 | 38 | 33 | 41 | 35 | 30 | 37 | 32 | 28 | 33 | 29 | 26 | 23 |
| 8 | 56 | 44 | 36 | 30 | 53 | 42 | 34 | 29 | 38 | 31 | 27 | 34 | 29 | 25 | 30 | 26 | 23 | 21 |
| 9 | 53 | 40 | 32 | 27 | 49 | 38 | 31 | 26 | 34 | 28 | 24 | 31 | 26 | 22 | 28 | 24 | 21 | 19 |
| 10 | 49 | 37 | 29 | 24 | 46 | 35 | 28 | 23 | 32 | 26 | 22 | 29 | 24 | 20 | 26 | 22 | 19 | 17 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 17038 | 17038 | 17038 |
| 5° | 17117 | 16883 | 17001 |
| 10° | 17004 | 16736 | 16840 |
| 15° | 16805 | 16547 | 16577 |
| 20° | 16573 | 16276 | 16292 |
| 25° | 16262 | 15954 | 15922 |
| 30° | 15918 | 15597 | 15478 |
| 35° | 15559 | 15219 | 15023 |
| 40° | 15185 | 14802 | 14573 |
| 45° | 14772 | 14420 | 14067 |
| 50° | 14359 | 13949 | 13561 |
| 55° | 13818 | 13461 | 13052 |
| 60° | 13272 | 12893 | 12482 |
| 65° | 12791 | 12271 | 11889 |
| 70° | 12079 | 11566 | 11050 |
| 75° | 11038 | 10643 | 10189 |
| 80° | 9955 | 9534 | 9447 |
| 85° | 8744 | 8410 | 8065 |



TEST NUMBER: P332016

CATALOG NUMBER: S123DIP-S1000D585U835-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 149.1 | 2.4 |
| 10°-20° | 421.0 | 6.9 |
| 20°-30° | 621.9 | 10.1 |
| 30°-40° | 726.5 | 11.8 |
| 40°-50° | 730.4 | 11.9 |
| 50°-60° | 641.5 | 10.5 |
| 60°-70° | 478.0 | 7.8 |
| 70°-80° | 272.3 | 4.4 |
| 80°-90° | 80.3 | 1.3 |
| 90°-100° | 47.3 | 0.8 |
| 100°-110° | 141.6 | 2.3 |
| 110°-120° | 240.8 | 3.9 |
| 120°-130° | 316.7 | 5.2 |
| 130°-140° | 356.0 | 5.8 |
| 140°-150° | 349.9 | 5.7 |
| 150°-160° | 294.6 | 4.8 |
| 160°-170° | 196.1 | 3.2 |
| 170°-180° | 68.7 | 1.1 |
| 0°-30° | 1192.0 | 19.4 |
| 0°-40° | 1918.5 | 31.3 |
| 0°-60° | 3290.4 | 53.7 |
| 0°-90° | 4121.0 | 67.2 |
| 90°-120° | 429.7 | 7.0 |
| 90°-150° | 1452.4 | 23.7 |
| 90°-180° | 2012.0 | 32.8 |
| 0°-180° | 6132.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1583 | 1583 | 1583 | 1583 | 1583 | |
| 5° | 1584 | 1577 | 1562 | 1575 | 1573 | 150 |
| 15° | 1508 | 1502 | 1485 | 1495 | 1488 | 425 |
| 25° | 1369 | 1360 | 1343 | 1344 | 1341 | 630 |
| 35° | 1184 | 1175 | 1158 | 1150 | 1143 | 740 |
| 45° | 970 | 964 | 947 | 932 | 924 | 749 |
| 55° | 736 | 734 | 717 | 703 | 696 | 659 |
| 65° | 502 | 495 | 482 | 471 | 467 | 495 |
| 75° | 265 | 260 | 256 | 249 | 245 | 284 |
| 85° | 71 | 68 | 68 | 65 | 65 | 78 |
| 90° | 1 | 6 | 14 | 16 | 17 | 6 |
| 95° | 34 | 38 | 42 | 44 | 44 | 38 |
| 105° | 128 | 130 | 135 | 135 | 136 | 137 |
| 115° | 242 | 244 | 243 | 244 | 243 | 240 |
| 125° | 355 | 356 | 355 | 353 | 351 | 316 |
| 135° | 460 | 464 | 463 | 461 | 460 | 355 |
| 145° | 558 | 560 | 561 | 561 | 558 | 349 |
| 155° | 639 | 639 | 640 | 642 | 638 | 294 |
| 165° | 696 | 695 | 695 | 698 | 694 | 196 |
| 175° | 724 | 722 | 722 | 725 | 722 | 69 |
| 180° | 726 | 726 | 726 | 726 | 726 | |



TEST NUMBER: P332016

CATALOG NUMBER: S123DIP-S1000D585U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1582.9 | 1582.9 | 1582.9 | 1582.9 | 1582.9 | 1582.9 | 1582.9 | 1582.9 | 1582.9 | 1582.9 | 1582.9 |
| 2.5° | 1588.3 | 1587.4 | 1586.4 | 1585.4 | 1584.5 | 1582.6 | 1580.0 | 1577.3 | 1574.7 | 1572.0 | 1574.4 |
| 5° | 1584.2 | 1582.7 | 1581.2 | 1579.7 | 1578.2 | 1575.8 | 1572.5 | 1569.1 | 1565.8 | 1562.5 | 1565.5 |
| 7.5° | 1568.7 | 1567.2 | 1565.7 | 1564.2 | 1562.7 | 1560.2 | 1556.8 | 1553.3 | 1549.9 | 1546.4 | 1549.1 |
| 10° | 1555.7 | 1554.2 | 1552.6 | 1551.1 | 1549.6 | 1546.9 | 1543.0 | 1539.0 | 1535.1 | 1531.2 | 1533.9 |
| 12.5° | 1538.2 | 1537.0 | 1535.7 | 1534.4 | 1533.2 | 1530.7 | 1527.0 | 1523.3 | 1519.6 | 1515.9 | 1517.9 |
| 15° | 1508.0 | 1506.8 | 1505.6 | 1504.4 | 1503.2 | 1500.6 | 1496.7 | 1492.8 | 1488.8 | 1484.9 | 1487.3 |
| 17.5° | 1472.9 | 1471.3 | 1469.8 | 1468.2 | 1466.6 | 1463.9 | 1459.9 | 1456.0 | 1452.1 | 1448.1 | 1449.8 |
| 20° | 1446.8 | 1445.0 | 1443.2 | 1441.3 | 1439.5 | 1436.6 | 1432.7 | 1428.8 | 1424.9 | 1420.9 | 1422.1 |
| 22.5° | 1417.4 | 1415.6 | 1413.8 | 1411.9 | 1410.1 | 1407.3 | 1403.3 | 1399.4 | 1395.5 | 1391.5 | 1392.5 |
| 25° | 1369.2 | 1367.4 | 1365.6 | 1363.8 | 1361.9 | 1359.1 | 1355.1 | 1351.2 | 1347.3 | 1343.3 | 1343.6 |
| 27.5° | 1317.8 | 1316.0 | 1314.2 | 1312.5 | 1310.7 | 1307.7 | 1303.5 | 1299.3 | 1295.0 | 1290.8 | 1291.0 |
| 30° | 1280.7 | 1279.2 | 1277.7 | 1276.2 | 1274.7 | 1271.8 | 1267.6 | 1263.3 | 1259.1 | 1254.9 | 1254.9 |
| 32.5° | 1243.7 | 1241.7 | 1239.7 | 1237.7 | 1235.7 | 1233.1 | 1229.8 | 1226.6 | 1223.3 | 1220.0 | 1218.3 |
| 35° | 1184.1 | 1182.3 | 1180.5 | 1178.7 | 1176.8 | 1174.0 | 1170.0 | 1166.1 | 1162.2 | 1158.2 | 1156.4 |
| 37.5° | 1123.1 | 1120.8 | 1118.5 | 1116.2 | 1113.9 | 1110.8 | 1106.8 | 1102.8 | 1098.8 | 1094.8 | 1092.6 |
| 40° | 1080.7 | 1078.8 | 1077.0 | 1075.2 | 1073.4 | 1070.4 | 1066.1 | 1061.9 | 1057.7 | 1053.4 | 1051.0 |
| 42.5° | 1038.2 | 1036.1 | 1034.1 | 1032.0 | 1030.0 | 1026.8 | 1022.6 | 1018.4 | 1014.1 | 1009.9 | 1007.5 |
| 45° | 970.4 | 969.2 | 968.0 | 966.8 | 965.6 | 963.0 | 959.1 | 955.1 | 951.2 | 947.3 | 943.7 |
| 47.5° | 903.2 | 901.4 | 899.7 | 897.9 | 896.2 | 893.4 | 889.8 | 886.1 | 882.4 | 878.7 | 875.1 |
| 50° | 857.5 | 855.9 | 854.4 | 852.9 | 851.4 | 848.7 | 844.7 | 840.8 | 836.9 | 833.0 | 829.6 |
| 52.5° | 809.5 | 808.5 | 807.5 | 806.5 | 805.4 | 802.8 | 798.7 | 794.5 | 790.3 | 786.1 | 783.3 |
| 55° | 736.3 | 736.0 | 735.7 | 735.4 | 735.1 | 733.0 | 729.1 | 725.1 | 721.2 | 717.3 | 713.9 |
| 57.5° | 666.6 | 665.6 | 664.6 | 663.6 | 662.5 | 660.4 | 657.3 | 654.1 | 651.0 | 647.9 | 644.9 |
| 60° | 616.5 | 616.2 | 615.9 | 615.6 | 615.3 | 613.4 | 609.7 | 606.1 | 602.5 | 598.9 | 596.1 |
| 62.5° | 571.9 | 571.1 | 570.3 | 569.5 | 568.8 | 566.6 | 562.9 | 559.3 | 555.7 | 552.0 | 549.3 |
| 65° | 502.2 | 500.7 | 499.2 | 497.7 | 496.2 | 493.9 | 490.9 | 487.9 | 484.8 | 481.8 | 479.4 |
| 67.5° | 428.5 | 427.1 | 425.8 | 424.5 | 423.1 | 421.3 | 419.0 | 416.7 | 414.4 | 412.1 | 410.0 |
| 70° | 383.8 | 382.0 | 380.2 | 378.4 | 376.6 | 374.7 | 372.9 | 371.1 | 369.3 | 367.5 | 365.4 |
| 72.5° | 337.0 | 335.7 | 334.3 | 333.0 | 331.7 | 330.0 | 327.9 | 325.9 | 323.8 | 321.7 | 319.9 |
| 75° | 265.4 | 264.2 | 263.0 | 261.8 | 260.6 | 259.5 | 258.6 | 257.7 | 256.8 | 255.9 | 254.4 |
| 77.5° | 202.0 | 201.3 | 200.6 | 200.0 | 199.3 | 198.4 | 197.4 | 196.3 | 195.2 | 194.1 | 193.1 |
| 80° | 160.6 | 159.7 | 158.8 | 157.9 | 157.0 | 156.2 | 155.6 | 155.0 | 154.4 | 153.8 | 153.5 |
| 82.5° | 120.3 | 120.1 | 120.0 | 119.8 | 119.6 | 119.4 | 119.3 | 119.2 | 119.1 | 119.0 | 118.4 |
| 85° | 70.8 | 70.2 | 69.6 | 69.0 | 68.4 | 68.1 | 68.1 | 68.1 | 68.1 | 68.1 | 67.4 |
| 87.5° | 28.4 | 28.0 | 27.5 | 27.0 | 26.5 | 26.3 | 26.4 | 26.5 | 26.6 | 26.7 | 26.6 |
| 90° | 0.6 | 1.8 | 3.1 | 4.4 | 5.6 | 7.1 | 8.7 | 10.4 | 12.0 | 13.7 | 14.2 |
| 92.5° | 13.8 | 14.7 | 15.5 | 16.4 | 17.3 | 18.2 | 19.1 | 20.0 | 21.0 | 21.9 | 22.3 |
| 95° | 33.7 | 34.5 | 35.4 | 36.3 | 37.2 | 38.2 | 39.2 | 40.2 | 41.2 | 42.2 | 42.7 |
| 97.5° | 59.8 | 60.4 | 61.1 | 61.8 | 62.4 | 63.1 | 63.8 | 64.6 | 65.3 | 66.1 | 66.6 |
| 100° | 77.6 | 78.3 | 79.1 | 79.9 | 80.6 | 81.3 | 81.9 | 82.6 | 83.2 | 83.8 | 84.2 |
| 102.5° | 98.1 | 98.6 | 99.0 | 99.5 | 99.9 | 100.6 | 101.4 | 102.3 | 103.1 | 103.9 | 104.3 |
| 105° | 128.3 | 128.6 | 128.8 | 129.1 | 129.4 | 130.0 | 131.2 | 132.3 | 133.5 | 134.6 | 134.6 |
| 107.5° | 163.5 | 163.6 | 163.8 | 163.9 | 164.1 | 164.4 | 164.8 | 165.3 | 165.8 | 166.2 | 166.6 |
| 110° | 185.4 | 185.6 | 185.9 | 186.1 | 186.4 | 186.6 | 186.9 | 187.2 | 187.4 | 187.7 | 188.2 |



TEST NUMBER: P332016

CATALOG NUMBER: S123DIP-S1000D585U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 208.2 | 208.3 | 208.5 | 208.6 | 208.8 | 208.9 | 209.0 | 209.0 | 209.1 | 209.1 | 209.7 |
| 115° | 242.4 | 242.8 | 243.2 | 243.6 | 243.9 | 244.0 | 243.7 | 243.5 | 243.2 | 243.0 | 243.1 |
| 117.5° | 276.9 | 277.1 | 277.4 | 277.6 | 277.9 | 277.8 | 277.5 | 277.2 | 276.9 | 276.5 | 276.5 |
| 120° | 298.3 | 299.1 | 299.8 | 300.6 | 301.4 | 301.4 | 300.8 | 300.2 | 299.5 | 298.9 | 298.8 |
| 122.5° | 320.7 | 321.2 | 321.8 | 322.3 | 322.9 | 323.0 | 322.7 | 322.4 | 322.0 | 321.7 | 321.4 |
| 125° | 354.8 | 355.2 | 355.5 | 355.9 | 356.3 | 356.4 | 356.1 | 355.9 | 355.6 | 355.4 | 354.8 |
| 127.5° | 386.3 | 387.1 | 387.9 | 388.7 | 389.5 | 389.8 | 389.5 | 389.2 | 388.9 | 388.7 | 388.0 |
| 130° | 407.3 | 408.3 | 409.3 | 410.3 | 411.3 | 411.6 | 411.3 | 410.9 | 410.5 | 410.1 | 409.6 |
| 132.5° | 428.2 | 429.3 | 430.3 | 431.3 | 432.3 | 432.7 | 432.4 | 432.1 | 431.8 | 431.6 | 430.9 |
| 135° | 460.3 | 461.1 | 461.8 | 462.6 | 463.3 | 463.7 | 463.5 | 463.4 | 463.3 | 463.2 | 462.7 |
| 137.5° | 490.0 | 490.6 | 491.2 | 491.9 | 492.5 | 493.0 | 493.3 | 493.6 | 494.0 | 494.3 | 493.8 |
| 140° | 510.5 | 511.1 | 511.8 | 512.4 | 513.0 | 513.4 | 513.5 | 513.7 | 513.8 | 513.9 | 513.8 |
| 142.5° | 529.2 | 529.8 | 530.5 | 531.1 | 531.7 | 532.2 | 532.4 | 532.6 | 532.9 | 533.1 | 533.0 |
| 145° | 558.4 | 558.7 | 558.9 | 559.2 | 559.4 | 559.7 | 560.1 | 560.5 | 560.9 | 561.3 | 561.1 |
| 147.5° | 584.0 | 584.4 | 584.9 | 585.3 | 585.8 | 586.2 | 586.6 | 586.9 | 587.3 | 587.6 | 587.6 |
| 150° | 601.8 | 602.0 | 602.3 | 602.5 | 602.8 | 603.0 | 603.3 | 603.5 | 603.8 | 604.0 | 604.0 |
| 152.5° | 616.4 | 616.7 | 617.1 | 617.4 | 617.8 | 618.0 | 618.2 | 618.3 | 618.5 | 618.6 | 618.8 |
| 155° | 639.4 | 639.4 | 639.4 | 639.4 | 639.4 | 639.5 | 639.6 | 639.7 | 639.9 | 640.0 | 640.5 |
| 157.5° | 659.0 | 658.9 | 658.7 | 658.6 | 658.4 | 658.4 | 658.5 | 658.6 | 658.7 | 658.8 | 659.3 |
| 160° | 671.3 | 671.1 | 670.8 | 670.6 | 670.3 | 670.2 | 670.2 | 670.2 | 670.2 | 670.2 | 670.8 |
| 162.5° | 682.3 | 681.9 | 681.6 | 681.2 | 680.9 | 680.8 | 680.9 | 681.0 | 681.1 | 681.2 | 681.8 |
| 165° | 696.4 | 696.1 | 695.7 | 695.3 | 694.9 | 694.7 | 694.7 | 694.7 | 694.7 | 694.7 | 695.5 |
| 167.5° | 707.7 | 707.2 | 706.7 | 706.2 | 705.7 | 705.5 | 705.6 | 705.7 | 705.8 | 705.9 | 706.7 |
| 170° | 714.1 | 713.6 | 713.1 | 712.6 | 712.1 | 711.8 | 711.8 | 711.8 | 711.8 | 711.8 | 712.7 |
| 172.5° | 719.1 | 718.6 | 718.1 | 717.6 | 717.1 | 716.9 | 716.9 | 716.9 | 716.9 | 716.9 | 717.7 |
| 175° | 724.4 | 723.9 | 723.4 | 722.9 | 722.4 | 722.1 | 722.1 | 722.1 | 722.1 | 722.1 | 722.9 |
| 177.5° | 726.6 | 726.2 | 725.8 | 725.3 | 724.9 | 724.7 | 724.7 | 724.7 | 724.7 | 724.7 | 725.3 |
| 180° | 726.1 | 726.1 | 726.1 | 726.1 | 726.1 | 726.1 | 726.1 | 726.1 | 726.1 | 726.1 | 726.1 |



TEST NUMBER: P332016

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CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1582.9 | 1582.9 | 1582.9 | 1582.9 | 1582.9 | 1582.9 | 1582.9 | 1582.9 |
| 2.5° | 1576.8 | 1579.3 | 1581.7 | 1582.8 | 1582.5 | 1582.3 | 1582.0 | 1581.8 |
| 5° | 1568.5 | 1571.5 | 1574.6 | 1575.8 | 1575.2 | 1574.6 | 1574.0 | 1573.4 |
| 7.5° | 1551.9 | 1554.6 | 1557.3 | 1558.5 | 1558.1 | 1557.8 | 1557.4 | 1557.0 |
| 10° | 1536.6 | 1539.3 | 1542.1 | 1543.1 | 1542.5 | 1541.9 | 1541.3 | 1540.7 |
| 12.5° | 1519.9 | 1521.9 | 1523.9 | 1524.7 | 1524.4 | 1524.0 | 1523.6 | 1523.3 |
| 15° | 1489.7 | 1492.1 | 1494.6 | 1494.9 | 1493.1 | 1491.2 | 1489.4 | 1487.6 |
| 17.5° | 1451.5 | 1453.2 | 1454.9 | 1455.4 | 1454.8 | 1454.1 | 1453.4 | 1452.8 |
| 20° | 1423.3 | 1424.6 | 1425.8 | 1425.9 | 1425.0 | 1424.1 | 1423.2 | 1422.3 |
| 22.5° | 1393.5 | 1394.4 | 1395.4 | 1395.3 | 1394.2 | 1393.0 | 1391.9 | 1390.7 |
| 25° | 1343.9 | 1344.3 | 1344.6 | 1344.3 | 1343.3 | 1342.4 | 1341.5 | 1340.6 |
| 27.5° | 1291.3 | 1291.5 | 1291.8 | 1291.3 | 1290.2 | 1289.0 | 1287.9 | 1286.7 |
| 30° | 1254.9 | 1254.9 | 1254.9 | 1253.8 | 1251.7 | 1249.6 | 1247.5 | 1245.3 |
| 32.5° | 1216.6 | 1215.0 | 1213.3 | 1211.8 | 1210.7 | 1209.5 | 1208.4 | 1207.2 |
| 35° | 1154.6 | 1152.8 | 1151.0 | 1149.3 | 1147.8 | 1146.3 | 1144.8 | 1143.3 |
| 37.5° | 1090.5 | 1088.3 | 1086.1 | 1084.5 | 1083.6 | 1082.6 | 1081.6 | 1080.7 |
| 40° | 1048.6 | 1046.2 | 1043.8 | 1041.9 | 1040.7 | 1039.5 | 1038.3 | 1037.1 |
| 42.5° | 1005.0 | 1002.6 | 1000.2 | 998.4 | 997.2 | 996.0 | 994.8 | 993.6 |
| 45° | 940.0 | 936.4 | 932.8 | 930.2 | 928.7 | 927.2 | 925.7 | 924.1 |
| 47.5° | 871.5 | 868.0 | 864.4 | 862.0 | 860.6 | 859.3 | 858.0 | 856.6 |
| 50° | 826.3 | 823.0 | 819.6 | 817.1 | 815.3 | 813.4 | 811.6 | 809.8 |
| 52.5° | 780.4 | 777.6 | 774.8 | 772.4 | 770.6 | 768.8 | 767.0 | 765.2 |
| 55° | 710.6 | 707.3 | 704.0 | 701.5 | 700.0 | 698.5 | 697.0 | 695.5 |
| 57.5° | 641.9 | 639.0 | 636.0 | 633.6 | 631.9 | 630.1 | 628.4 | 626.6 |
| 60° | 593.4 | 590.7 | 588.0 | 585.9 | 584.3 | 582.8 | 581.3 | 579.8 |
| 62.5° | 546.6 | 543.9 | 541.1 | 539.3 | 538.2 | 537.2 | 536.2 | 535.2 |
| 65° | 477.0 | 474.5 | 472.1 | 470.5 | 469.6 | 468.7 | 467.7 | 466.8 |
| 67.5° | 407.9 | 405.8 | 403.7 | 402.0 | 400.7 | 399.4 | 398.1 | 396.9 |
| 70° | 363.2 | 361.1 | 359.0 | 357.2 | 355.7 | 354.2 | 352.7 | 351.1 |
| 72.5° | 318.0 | 316.1 | 314.2 | 312.9 | 312.1 | 311.3 | 310.6 | 309.8 |
| 75° | 252.9 | 251.3 | 249.8 | 248.6 | 247.7 | 246.8 | 245.9 | 245.0 |
| 77.5° | 192.0 | 191.0 | 190.0 | 189.5 | 189.5 | 189.5 | 189.5 | 189.5 |
| 80° | 153.2 | 152.9 | 152.6 | 152.4 | 152.4 | 152.4 | 152.4 | 152.4 |
| 82.5° | 117.9 | 117.3 | 116.8 | 116.4 | 116.1 | 115.9 | 115.7 | 115.4 |
| 85° | 66.8 | 66.2 | 65.6 | 65.3 | 65.3 | 65.3 | 65.3 | 65.3 |
| 87.5° | 26.4 | 26.3 | 26.1 | 26.1 | 26.1 | 26.2 | 26.2 | 26.3 |
| 90° | 14.7 | 15.2 | 15.7 | 16.1 | 16.4 | 16.6 | 16.9 | 17.1 |
| 92.5° | 22.7 | 23.1 | 23.5 | 23.7 | 23.5 | 23.3 | 23.2 | 23.0 |
| 95° | 43.2 | 43.7 | 44.2 | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 |
| 97.5° | 67.2 | 67.8 | 68.4 | 68.6 | 68.6 | 68.5 | 68.5 | 68.4 |
| 100° | 84.6 | 85.0 | 85.4 | 85.7 | 85.9 | 86.2 | 86.4 | 86.7 |
| 102.5° | 104.7 | 105.1 | 105.4 | 105.6 | 105.6 | 105.5 | 105.5 | 105.4 |
| 105° | 134.6 | 134.6 | 134.6 | 134.7 | 135.0 | 135.2 | 135.5 | 135.8 |
| 107.5° | 167.0 | 167.4 | 167.8 | 168.0 | 167.8 | 167.7 | 167.5 | 167.4 |
| 110° | 188.7 | 189.2 | 189.7 | 189.8 | 189.6 | 189.3 | 189.1 | 188.8 |



TEST NUMBER: P332016

CATALOG NUMBER: S123DIP-S1000D585U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 210.3 | 210.9 | 211.5 | 211.8 | 211.8 | 211.7 | 211.7 | 211.6 |
| 115° | 243.2 | 243.4 | 243.5 | 243.5 | 243.4 | 243.2 | 243.1 | 243.0 |
| 117.5° | 276.5 | 276.4 | 276.4 | 276.2 | 275.9 | 275.5 | 275.2 | 274.8 |
| 120° | 298.6 | 298.5 | 298.4 | 298.2 | 297.9 | 297.7 | 297.4 | 297.2 |
| 122.5° | 321.0 | 320.7 | 320.4 | 320.0 | 319.7 | 319.3 | 319.0 | 318.6 |
| 125° | 354.3 | 353.8 | 353.3 | 352.8 | 352.3 | 351.8 | 351.3 | 350.8 |
| 127.5° | 387.2 | 386.5 | 385.8 | 385.2 | 384.6 | 384.0 | 383.4 | 382.8 |
| 130° | 409.1 | 408.6 | 408.1 | 407.4 | 406.5 | 405.6 | 404.7 | 403.8 |
| 132.5° | 430.3 | 429.7 | 429.1 | 428.5 | 427.8 | 427.1 | 426.4 | 425.7 |
| 135° | 462.1 | 461.6 | 461.1 | 460.7 | 460.5 | 460.2 | 460.0 | 459.7 |
| 137.5° | 493.2 | 492.7 | 492.2 | 491.7 | 491.2 | 490.7 | 490.2 | 489.7 |
| 140° | 513.7 | 513.5 | 513.4 | 512.9 | 512.0 | 511.1 | 510.2 | 509.4 |
| 142.5° | 532.8 | 532.7 | 532.6 | 532.2 | 531.5 | 530.8 | 530.1 | 529.4 |
| 145° | 561.0 | 560.9 | 560.8 | 560.4 | 559.9 | 559.4 | 558.9 | 558.4 |
| 147.5° | 587.6 | 587.6 | 587.6 | 587.2 | 586.5 | 585.7 | 585.0 | 584.2 |
| 150° | 604.0 | 604.0 | 604.0 | 603.7 | 602.9 | 602.1 | 601.4 | 600.6 |
| 152.5° | 619.1 | 619.3 | 619.5 | 619.2 | 618.6 | 617.9 | 617.3 | 616.6 |
| 155° | 641.0 | 641.5 | 642.0 | 641.8 | 640.9 | 640.0 | 639.2 | 638.3 |
| 157.5° | 659.9 | 660.4 | 660.9 | 660.8 | 660.1 | 659.4 | 658.7 | 658.0 |
| 160° | 671.5 | 672.1 | 672.7 | 672.8 | 672.3 | 671.8 | 671.3 | 670.8 |
| 162.5° | 682.4 | 683.1 | 683.7 | 683.6 | 682.8 | 682.0 | 681.2 | 680.4 |
| 165° | 696.3 | 697.0 | 697.8 | 697.7 | 696.8 | 695.9 | 695.1 | 694.2 |
| 167.5° | 707.5 | 708.3 | 709.1 | 709.1 | 708.3 | 707.5 | 706.7 | 705.9 |
| 170° | 713.6 | 714.5 | 715.4 | 715.4 | 714.5 | 713.6 | 712.7 | 711.8 |
| 172.5° | 718.4 | 719.2 | 720.0 | 720.0 | 719.1 | 718.2 | 717.3 | 716.4 |
| 175° | 723.6 | 724.4 | 725.2 | 725.1 | 724.2 | 723.3 | 722.4 | 721.5 |
| 177.5° | 726.0 | 726.6 | 727.2 | 727.1 | 726.4 | 725.7 | 725.0 | 724.3 |
| 180° | 726.1 | 726.1 | 726.1 | 726.1 | 726.1 | 726.1 | 726.1 | 726.1 |

(END OF REPORT)