

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: P332197-840

Luminaire Tested: **S123DIW-S1000D1030U840-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332197-840  
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: S123DIW-S1000D1030U840-4F0-1E-UDD-F1  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
UPLIGHT 1030 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7771.9 lumens  
Efficiency: N/A  
Efficacy: 127.0 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

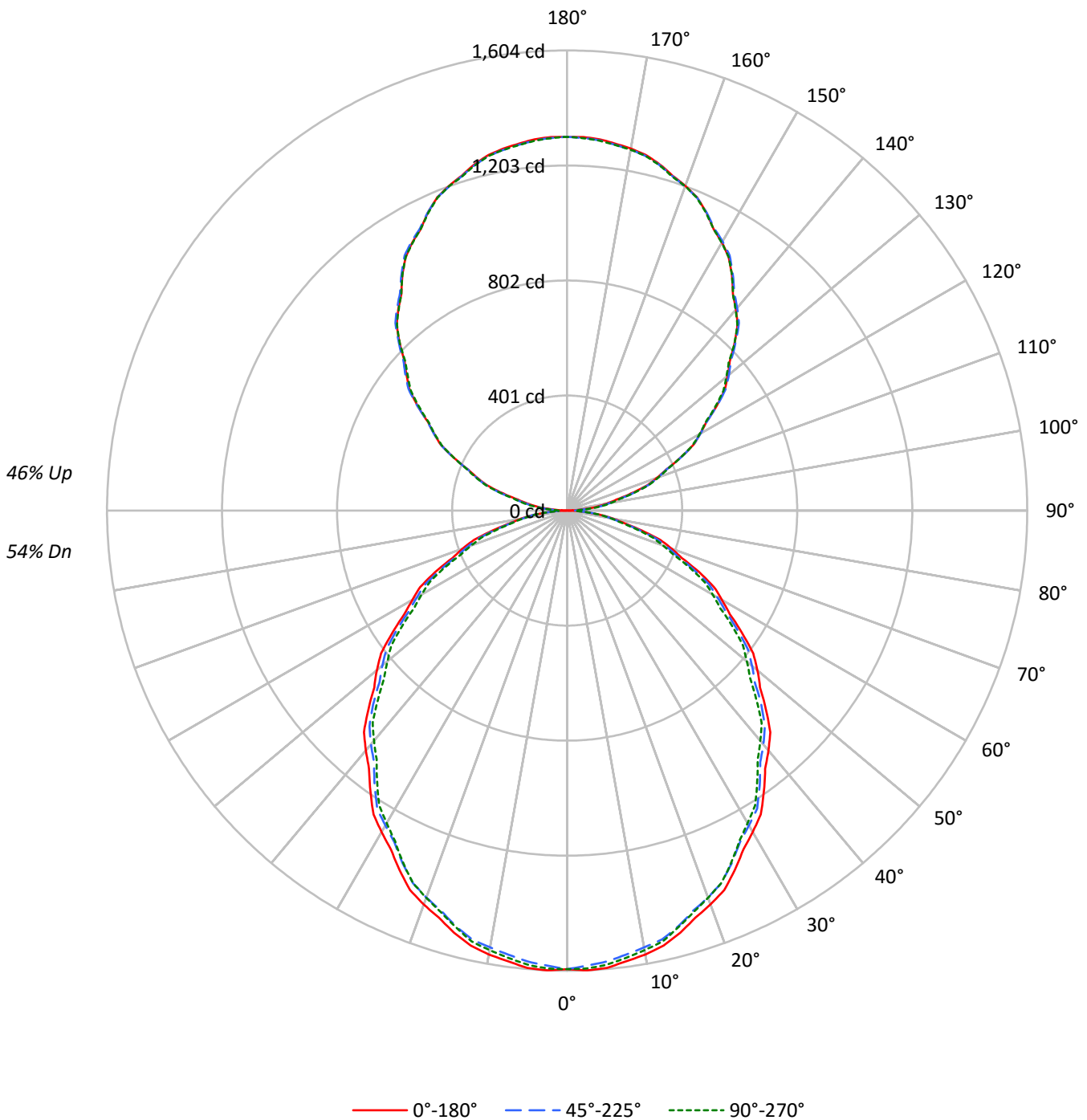
Input Watts (W): 61.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332197-840

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### Luminous Intensity Polar Plot





TEST NUMBER: P332197-840

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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 | 50 | 30 | 10 | 0  |   |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |   |
| 0   | 108 | 108 | 108 | 108 | 100 | 100 | 100 | 100 | 85 | 85 | 85 | 72 | 72 | 72 | 59 | 59 | 59 | 54 |    |    |    |   |
| 1   | 99  | 94  | 90  | 87  | 91  | 87  | 84  | 81  | 75 | 72 | 70 | 63 | 61 | 60 | 52 | 51 | 50 | 45 |    |    |    |   |
| 2   | 90  | 82  | 76  | 71  | 83  | 76  | 71  | 66  | 65 | 61 | 58 | 55 | 52 | 50 | 46 | 44 | 42 | 38 |    |    |    |   |
| 3   | 82  | 72  | 65  | 59  | 75  | 67  | 61  | 55  | 58 | 53 | 49 | 49 | 45 | 42 | 41 | 38 | 36 | 32 |    |    |    |   |
| 4   | 75  | 64  | 56  | 50  | 69  | 60  | 52  | 47  | 51 | 46 | 41 | 44 | 39 | 36 | 36 | 33 | 31 | 27 |    |    |    |   |
| 5   | 69  | 57  | 49  | 43  | 63  | 53  | 46  | 40  | 46 | 40 | 36 | 39 | 35 | 31 | 33 | 30 | 27 | 24 |    |    |    |   |
| 6   | 63  | 51  | 43  | 37  | 58  | 48  | 40  | 35  | 41 | 36 | 31 | 35 | 31 | 27 | 30 | 26 | 24 | 21 |    |    |    |   |
| 7   | 59  | 46  | 38  | 32  | 54  | 43  | 36  | 31  | 37 | 32 | 27 | 32 | 28 | 24 | 27 | 24 | 21 | 18 |    |    |    |   |
| 8   | 54  | 42  | 34  | 29  | 50  | 39  | 32  | 27  | 34 | 28 | 24 | 29 | 25 | 22 | 25 | 21 | 19 | 16 |    |    |    |   |
| 9   | 51  | 38  | 31  | 26  | 47  | 36  | 29  | 24  | 31 | 26 | 22 | 27 | 23 | 19 | 23 | 20 | 17 | 15 |    |    |    |   |
| 10  | 47  | 35  | 28  | 23  | 44  | 33  | 26  | 22  | 29 | 23 | 20 | 25 | 21 | 18 | 21 | 18 | 15 | 13 |    |    |    |   |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 17206 | 17206 | 17206 |
| 5°  | 17286 | 17049 | 17168 |
| 10° | 17171 | 16901 | 17006 |
| 15° | 16971 | 16710 | 16741 |
| 20° | 16736 | 16436 | 16452 |
| 25° | 16422 | 16112 | 16079 |
| 30° | 16075 | 15751 | 15631 |
| 35° | 15713 | 15369 | 15172 |
| 40° | 15336 | 14948 | 14716 |
| 45° | 14918 | 14562 | 14206 |
| 50° | 14502 | 14086 | 13695 |
| 55° | 13955 | 13594 | 13181 |
| 60° | 13403 | 13020 | 12605 |
| 65° | 12918 | 12394 | 12006 |
| 70° | 12198 | 11679 | 11160 |
| 75° | 11146 | 10746 | 10289 |
| 80° | 10054 | 9627  | 9540  |
| 85° | 8830  | 8497  | 8139  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 150.6  | 1.9       |
| 10°-20°   | 425.2  | 5.5       |
| 20°-30°   | 628.0  | 8.1       |
| 30°-40°   | 733.6  | 9.4       |
| 40°-50°   | 737.6  | 9.5       |
| 50°-60°   | 647.9  | 8.3       |
| 60°-70°   | 482.7  | 6.2       |
| 70°-80°   | 275.0  | 3.5       |
| 80°-90°   | 82.8   | 1.1       |
| 90°-100°  | 84.9   | 1.1       |
| 100°-110° | 254.0  | 3.3       |
| 110°-120° | 431.9  | 5.6       |
| 120°-130° | 568.1  | 7.3       |
| 130°-140° | 638.6  | 8.2       |
| 140°-150° | 627.7  | 8.1       |
| 150°-160° | 528.4  | 6.8       |
| 160°-170° | 351.8  | 4.5       |
| 170°-180° | 123.2  | 1.6       |
| 0°-30°    | 1203.8 | 15.5      |
| 0°-40°    | 1937.4 | 24.9      |
| 0°-60°    | 3322.8 | 42.8      |
| 0°-90°    | 4163.3 | 53.6      |
| 90°-120°  | 770.8  | 9.9       |
| 90°-150°  | 2605.2 | 33.5      |
| 90°-180°  | 3609.0 | 46.4      |
| 0°-180°   | 7771.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1598 | 1598  | 1598 | 1598  | 1598 |      |
| 5°   | 1600 | 1593  | 1578 | 1591  | 1589 | 152  |
| 15°  | 1523 | 1517  | 1500 | 1509  | 1502 | 429  |
| 25°  | 1383 | 1374  | 1357 | 1358  | 1354 | 637  |
| 35°  | 1196 | 1187  | 1170 | 1162  | 1155 | 748  |
| 45°  | 980  | 974   | 957  | 941   | 933  | 756  |
| 55°  | 744  | 741   | 724  | 710   | 702  | 666  |
| 65°  | 507  | 500   | 487  | 476   | 471  | 500  |
| 75°  | 268  | 263   | 258  | 252   | 247  | 287  |
| 85°  | 72   | 69    | 69   | 66    | 66   | 78   |
| 90°  | 1    | 11    | 24   | 29    | 31   | 8    |
| 95°  | 60   | 68    | 76   | 80    | 80   | 68   |
| 105° | 230  | 233   | 242  | 242   | 244  | 247  |
| 115° | 435  | 438   | 436  | 437   | 436  | 430  |
| 125° | 636  | 639   | 637  | 633   | 629  | 567  |
| 135° | 826  | 831   | 831  | 827   | 825  | 636  |
| 145° | 1002 | 1004  | 1007 | 1006  | 1002 | 625  |
| 155° | 1147 | 1147  | 1148 | 1151  | 1145 | 528  |
| 165° | 1249 | 1246  | 1246 | 1252  | 1245 | 352  |
| 175° | 1299 | 1296  | 1295 | 1301  | 1294 | 123  |
| 180° | 1302 | 1302  | 1302 | 1302  | 1302 |      |



TEST NUMBER: P332197-840

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1598.5 | 1598.5 | 1598.5 | 1598.5 | 1598.5 | 1598.5 | 1598.5 | 1598.5 | 1598.5 | 1598.5 | 1598.5 |
| 2.5°   | 1604.0 | 1603.1 | 1602.0 | 1601.0 | 1600.1 | 1598.2 | 1595.6 | 1592.9 | 1590.2 | 1587.5 | 1589.9 |
| 5°     | 1599.8 | 1598.3 | 1596.8 | 1595.3 | 1593.8 | 1591.3 | 1588.0 | 1584.6 | 1581.2 | 1577.9 | 1580.9 |
| 7.5°   | 1584.2 | 1582.7 | 1581.1 | 1579.6 | 1578.1 | 1575.6 | 1572.2 | 1568.6 | 1565.2 | 1561.7 | 1564.4 |
| 10°    | 1571.0 | 1569.5 | 1567.9 | 1566.4 | 1564.9 | 1562.2 | 1558.2 | 1554.2 | 1550.2 | 1546.3 | 1549.0 |
| 12.5°  | 1553.4 | 1552.2 | 1550.8 | 1549.5 | 1548.3 | 1545.8 | 1542.1 | 1538.3 | 1534.6 | 1530.9 | 1532.9 |
| 15°    | 1522.9 | 1521.7 | 1520.5 | 1519.2 | 1518.0 | 1515.4 | 1511.5 | 1507.5 | 1503.5 | 1499.5 | 1502.0 |
| 17.5°  | 1487.4 | 1485.8 | 1484.3 | 1482.7 | 1481.1 | 1478.3 | 1474.3 | 1470.4 | 1466.4 | 1462.4 | 1464.1 |
| 20°    | 1461.1 | 1459.3 | 1457.4 | 1455.5 | 1453.7 | 1450.8 | 1446.8 | 1442.9 | 1439.0 | 1434.9 | 1436.1 |
| 22.5°  | 1431.4 | 1429.6 | 1427.7 | 1425.8 | 1424.0 | 1421.2 | 1417.1 | 1413.2 | 1409.3 | 1405.2 | 1406.2 |
| 25°    | 1382.7 | 1380.9 | 1379.1 | 1377.3 | 1375.3 | 1372.5 | 1368.5 | 1364.5 | 1360.6 | 1356.6 | 1356.9 |
| 27.5°  | 1330.8 | 1329.0 | 1327.2 | 1325.4 | 1323.6 | 1320.6 | 1316.4 | 1312.1 | 1307.8 | 1303.5 | 1303.7 |
| 30°    | 1293.3 | 1291.8 | 1290.3 | 1288.8 | 1287.3 | 1284.3 | 1280.1 | 1275.8 | 1271.5 | 1267.3 | 1267.3 |
| 32.5°  | 1256.0 | 1253.9 | 1251.9 | 1249.9 | 1247.9 | 1245.3 | 1241.9 | 1238.7 | 1235.4 | 1232.0 | 1230.3 |
| 35°    | 1195.8 | 1194.0 | 1192.1 | 1190.3 | 1188.4 | 1185.6 | 1181.5 | 1177.6 | 1173.7 | 1169.6 | 1167.8 |
| 37.5°  | 1134.2 | 1131.9 | 1129.5 | 1127.2 | 1124.9 | 1121.8 | 1117.7 | 1113.7 | 1109.6 | 1105.6 | 1103.4 |
| 40°    | 1091.4 | 1089.4 | 1087.6 | 1085.8 | 1084.0 | 1081.0 | 1076.6 | 1072.4 | 1068.1 | 1063.8 | 1061.4 |
| 42.5°  | 1048.4 | 1046.3 | 1044.3 | 1042.2 | 1040.2 | 1036.9 | 1032.7 | 1028.4 | 1024.1 | 1019.9 | 1017.4 |
| 45°    | 980.0  | 978.8  | 977.5  | 976.3  | 975.1  | 972.5  | 968.6  | 964.5  | 960.6  | 956.6  | 953.0  |
| 47.5°  | 912.1  | 910.3  | 908.6  | 906.8  | 905.0  | 902.2  | 898.6  | 894.8  | 891.1  | 887.4  | 883.7  |
| 50°    | 866.0  | 864.3  | 862.8  | 861.3  | 859.8  | 857.1  | 853.0  | 849.1  | 845.2  | 841.2  | 837.8  |
| 52.5°  | 817.5  | 816.5  | 815.5  | 814.5  | 813.3  | 810.7  | 806.6  | 802.3  | 798.1  | 793.9  | 791.0  |
| 55°    | 743.6  | 743.3  | 743.0  | 742.7  | 742.4  | 740.2  | 736.3  | 732.3  | 728.3  | 724.4  | 720.9  |
| 57.5°  | 673.2  | 672.2  | 671.2  | 670.1  | 669.0  | 666.9  | 663.8  | 660.6  | 657.4  | 654.3  | 651.3  |
| 60°    | 622.6  | 622.3  | 622.0  | 621.7  | 621.4  | 619.5  | 615.7  | 612.1  | 608.4  | 604.8  | 602.0  |
| 62.5°  | 577.5  | 576.7  | 575.9  | 575.1  | 574.4  | 572.2  | 568.5  | 564.8  | 561.2  | 557.4  | 554.7  |
| 65°    | 507.2  | 505.6  | 504.1  | 502.6  | 501.1  | 498.8  | 495.7  | 492.7  | 489.6  | 486.6  | 484.1  |
| 67.5°  | 432.7  | 431.3  | 430.0  | 428.7  | 427.3  | 425.5  | 423.1  | 420.8  | 418.5  | 416.2  | 414.0  |
| 70°    | 387.6  | 385.8  | 384.0  | 382.1  | 380.3  | 378.4  | 376.6  | 374.8  | 372.9  | 371.1  | 369.0  |
| 72.5°  | 340.3  | 339.0  | 337.6  | 336.3  | 335.0  | 333.3  | 331.1  | 329.1  | 327.0  | 324.9  | 323.1  |
| 75°    | 268.0  | 266.8  | 265.6  | 264.4  | 263.2  | 262.1  | 261.2  | 260.2  | 259.3  | 258.4  | 256.9  |
| 77.5°  | 204.0  | 203.3  | 202.6  | 202.0  | 201.3  | 200.4  | 199.3  | 198.2  | 197.1  | 196.0  | 195.0  |
| 80°    | 162.2  | 161.3  | 160.4  | 159.5  | 158.5  | 157.7  | 157.1  | 156.5  | 155.9  | 155.3  | 155.0  |
| 82.5°  | 121.5  | 121.3  | 121.2  | 121.0  | 120.8  | 120.6  | 120.5  | 120.4  | 120.3  | 120.2  | 119.6  |
| 85°    | 71.5   | 70.9   | 70.3   | 69.7   | 69.1   | 68.8   | 68.8   | 68.8   | 68.8   | 68.8   | 68.1   |
| 87.5°  | 28.8   | 28.5   | 28.3   | 28.0   | 27.7   | 27.7   | 28.1   | 28.4   | 28.8   | 29.1   | 29.1   |
| 90°    | 1.0    | 3.3    | 5.6    | 7.9    | 10.1   | 12.7   | 15.7   | 18.7   | 21.6   | 24.5   | 25.4   |
| 92.5°  | 24.7   | 26.3   | 27.9   | 29.4   | 30.9   | 32.5   | 34.2   | 36.0   | 37.6   | 39.3   | 40.0   |
| 95°    | 60.4   | 61.9   | 63.5   | 65.1   | 66.8   | 68.5   | 70.3   | 72.1   | 73.9   | 75.7   | 76.6   |
| 97.5°  | 107.2  | 108.4  | 109.6  | 110.8  | 112.0  | 113.2  | 114.5  | 115.8  | 117.1  | 118.5  | 119.6  |
| 100°   | 139.2  | 140.5  | 141.9  | 143.2  | 144.6  | 145.8  | 147.0  | 148.1  | 149.3  | 150.4  | 151.1  |
| 102.5° | 176.0  | 176.8  | 177.6  | 178.4  | 179.3  | 180.4  | 181.9  | 183.4  | 184.9  | 186.4  | 187.1  |
| 105°   | 230.2  | 230.7  | 231.2  | 231.6  | 232.1  | 233.3  | 235.3  | 237.3  | 239.4  | 241.5  | 241.5  |
| 107.5° | 293.3  | 293.5  | 293.8  | 294.1  | 294.3  | 294.9  | 295.7  | 296.5  | 297.3  | 298.1  | 298.8  |
| 110°   | 332.5  | 333.0  | 333.5  | 333.9  | 334.4  | 334.8  | 335.3  | 335.7  | 336.2  | 336.6  | 337.5  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 373.4  | 373.8  | 374.0  | 374.3  | 374.6  | 374.7  | 374.8  | 374.9  | 375.0  | 375.1  | 376.2  |
| 115°   | 434.8  | 435.5  | 436.2  | 436.9  | 437.6  | 437.7  | 437.2  | 436.8  | 436.3  | 435.9  | 436.1  |
| 117.5° | 496.7  | 497.1  | 497.6  | 498.0  | 498.5  | 498.4  | 497.8  | 497.2  | 496.6  | 496.0  | 495.9  |
| 120°   | 535.1  | 536.4  | 537.9  | 539.2  | 540.6  | 540.7  | 539.5  | 538.4  | 537.2  | 536.1  | 535.8  |
| 122.5° | 575.2  | 576.2  | 577.2  | 578.1  | 579.2  | 579.4  | 578.9  | 578.2  | 577.6  | 577.0  | 576.4  |
| 125°   | 636.4  | 637.0  | 637.7  | 638.4  | 639.1  | 639.2  | 638.7  | 638.3  | 637.8  | 637.4  | 636.5  |
| 127.5° | 692.9  | 694.3  | 695.8  | 697.2  | 698.6  | 699.1  | 698.6  | 698.1  | 697.6  | 697.1  | 695.9  |
| 130°   | 730.5  | 732.4  | 734.2  | 736.0  | 737.8  | 738.3  | 737.7  | 737.0  | 736.3  | 735.6  | 734.7  |
| 132.5° | 768.1  | 769.9  | 771.7  | 773.7  | 775.5  | 776.1  | 775.6  | 775.1  | 774.6  | 774.1  | 773.0  |
| 135°   | 825.7  | 827.0  | 828.4  | 829.7  | 831.1  | 831.6  | 831.4  | 831.2  | 831.0  | 830.7  | 829.8  |
| 137.5° | 878.9  | 880.0  | 881.1  | 882.2  | 883.4  | 884.2  | 884.8  | 885.4  | 886.1  | 886.7  | 885.7  |
| 140°   | 915.6  | 916.9  | 918.0  | 919.1  | 920.2  | 920.9  | 921.1  | 921.4  | 921.6  | 921.8  | 921.6  |
| 142.5° | 949.3  | 950.4  | 951.5  | 952.6  | 953.8  | 954.5  | 954.9  | 955.3  | 955.8  | 956.2  | 955.9  |
| 145°   | 1001.6 | 1002.1 | 1002.5 | 1003.0 | 1003.4 | 1004.0 | 1004.7 | 1005.4 | 1006.0 | 1006.7 | 1006.5 |
| 147.5° | 1047.4 | 1048.2 | 1049.0 | 1050.0 | 1050.8 | 1051.5 | 1052.1 | 1052.8 | 1053.4 | 1054.0 | 1054.0 |
| 150°   | 1079.3 | 1079.8 | 1080.3 | 1080.8 | 1081.2 | 1081.7 | 1082.1 | 1082.6 | 1083.0 | 1083.5 | 1083.5 |
| 152.5° | 1105.6 | 1106.2 | 1106.8 | 1107.5 | 1108.1 | 1108.5 | 1108.8 | 1109.1 | 1109.4 | 1109.6 | 1110.0 |
| 155°   | 1146.9 | 1146.9 | 1146.9 | 1146.9 | 1146.9 | 1147.0 | 1147.2 | 1147.5 | 1147.7 | 1147.9 | 1148.8 |
| 157.5° | 1182.1 | 1181.8 | 1181.5 | 1181.2 | 1181.0 | 1180.9 | 1181.1 | 1181.3 | 1181.5 | 1181.6 | 1182.7 |
| 160°   | 1204.2 | 1203.8 | 1203.3 | 1202.9 | 1202.3 | 1202.1 | 1202.1 | 1202.1 | 1202.1 | 1202.1 | 1203.3 |
| 162.5° | 1223.9 | 1223.2 | 1222.5 | 1221.9 | 1221.3 | 1221.0 | 1221.2 | 1221.4 | 1221.6 | 1221.8 | 1222.9 |
| 165°   | 1249.2 | 1248.5 | 1247.9 | 1247.2 | 1246.5 | 1246.2 | 1246.2 | 1246.2 | 1246.2 | 1246.2 | 1247.5 |
| 167.5° | 1269.5 | 1268.6 | 1267.7 | 1266.8 | 1265.9 | 1265.5 | 1265.7 | 1265.9 | 1266.1 | 1266.2 | 1267.6 |
| 170°   | 1280.9 | 1280.0 | 1279.1 | 1278.2 | 1277.3 | 1276.9 | 1276.9 | 1276.9 | 1276.9 | 1276.9 | 1278.4 |
| 172.5° | 1289.9 | 1289.0 | 1288.1 | 1287.2 | 1286.3 | 1285.9 | 1285.9 | 1285.9 | 1285.9 | 1285.9 | 1287.3 |
| 175°   | 1299.4 | 1298.5 | 1297.6 | 1296.7 | 1295.8 | 1295.3 | 1295.3 | 1295.3 | 1295.3 | 1295.3 | 1296.7 |
| 177.5° | 1303.2 | 1302.5 | 1301.8 | 1301.0 | 1300.3 | 1300.0 | 1300.0 | 1300.0 | 1300.0 | 1300.0 | 1301.0 |
| 180°   | 1302.4 | 1302.4 | 1302.4 | 1302.4 | 1302.4 | 1302.4 | 1302.4 | 1302.4 | 1302.4 | 1302.4 | 1302.4 |



TEST NUMBER: P332197-840

CATALOG NUMBER: S123DIW-S1000D1030U840-4F0-1E-UDD-F1

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1598.5 | 1598.5 | 1598.5 | 1598.5 | 1598.5 | 1598.5 | 1598.5 | 1598.5 |
| 2.5°   | 1592.4 | 1594.9 | 1597.3 | 1598.4 | 1598.1 | 1597.9 | 1597.6 | 1597.4 |
| 5°     | 1584.0 | 1587.0 | 1590.1 | 1591.3 | 1590.7 | 1590.1 | 1589.5 | 1588.9 |
| 7.5°   | 1567.2 | 1569.9 | 1572.7 | 1573.9 | 1573.5 | 1573.2 | 1572.8 | 1572.4 |
| 10°    | 1551.8 | 1554.5 | 1557.3 | 1558.3 | 1557.7 | 1557.1 | 1556.5 | 1555.9 |
| 12.5°  | 1534.9 | 1536.9 | 1538.9 | 1539.7 | 1539.4 | 1539.0 | 1538.6 | 1538.3 |
| 15°    | 1504.4 | 1506.8 | 1509.3 | 1509.6 | 1507.8 | 1505.9 | 1504.1 | 1502.3 |
| 17.5°  | 1465.8 | 1467.5 | 1469.3 | 1469.8 | 1469.2 | 1468.4 | 1467.7 | 1467.1 |
| 20°    | 1437.3 | 1438.7 | 1439.9 | 1440.0 | 1439.1 | 1438.1 | 1437.2 | 1436.3 |
| 22.5°  | 1407.2 | 1408.2 | 1409.2 | 1409.1 | 1408.0 | 1406.7 | 1405.6 | 1404.4 |
| 25°    | 1357.2 | 1357.6 | 1357.9 | 1357.6 | 1356.6 | 1355.6 | 1354.7 | 1353.8 |
| 27.5°  | 1304.0 | 1304.2 | 1304.5 | 1304.0 | 1302.9 | 1301.7 | 1300.6 | 1299.4 |
| 30°    | 1267.3 | 1267.3 | 1267.3 | 1266.2 | 1264.0 | 1261.9 | 1259.8 | 1257.6 |
| 32.5°  | 1228.6 | 1227.0 | 1225.3 | 1223.8 | 1222.6 | 1221.4 | 1220.3 | 1219.1 |
| 35°    | 1166.0 | 1164.2 | 1162.4 | 1160.6 | 1159.1 | 1157.6 | 1156.1 | 1154.6 |
| 37.5°  | 1101.3 | 1099.0 | 1096.8 | 1095.2 | 1094.3 | 1093.3 | 1092.3 | 1091.4 |
| 40°    | 1058.9 | 1056.5 | 1054.1 | 1052.2 | 1051.0 | 1049.8 | 1048.5 | 1047.3 |
| 42.5°  | 1014.9 | 1012.5 | 1010.1 | 1008.2 | 1007.0 | 1005.8 | 1004.6 | 1003.4 |
| 45°    | 949.3  | 945.6  | 942.0  | 939.4  | 937.9  | 936.3  | 934.8  | 933.2  |
| 47.5°  | 880.1  | 876.6  | 872.9  | 870.5  | 869.1  | 867.8  | 866.5  | 865.1  |
| 50°    | 834.5  | 831.1  | 827.7  | 825.2  | 823.3  | 821.4  | 819.6  | 817.8  |
| 52.5°  | 788.1  | 785.3  | 782.4  | 780.0  | 778.2  | 776.4  | 774.6  | 772.7  |
| 55°    | 717.6  | 714.3  | 710.9  | 708.4  | 706.9  | 705.4  | 703.9  | 702.4  |
| 57.5°  | 648.2  | 645.3  | 642.3  | 639.9  | 638.1  | 636.3  | 634.6  | 632.8  |
| 60°    | 599.3  | 596.5  | 593.8  | 591.7  | 590.1  | 588.5  | 587.0  | 585.5  |
| 62.5°  | 552.0  | 549.3  | 546.4  | 544.6  | 543.5  | 542.5  | 541.5  | 540.5  |
| 65°    | 481.7  | 479.2  | 476.8  | 475.1  | 474.2  | 473.3  | 472.3  | 471.4  |
| 67.5°  | 411.9  | 409.8  | 407.7  | 406.0  | 404.7  | 403.3  | 402.0  | 400.8  |
| 70°    | 366.8  | 364.7  | 362.5  | 360.7  | 359.2  | 357.7  | 356.2  | 354.6  |
| 72.5°  | 321.1  | 319.2  | 317.3  | 316.0  | 315.2  | 314.4  | 313.7  | 312.9  |
| 75°    | 255.4  | 253.8  | 252.3  | 251.1  | 250.1  | 249.2  | 248.3  | 247.4  |
| 77.5°  | 193.9  | 192.9  | 191.9  | 191.4  | 191.4  | 191.4  | 191.4  | 191.4  |
| 80°    | 154.7  | 154.4  | 154.1  | 153.9  | 153.9  | 153.9  | 153.9  | 153.9  |
| 82.5°  | 119.1  | 118.5  | 118.0  | 117.5  | 117.2  | 117.0  | 116.8  | 116.5  |
| 85°    | 67.5   | 66.9   | 66.2   | 65.9   | 65.9   | 65.9   | 65.9   | 65.9   |
| 87.5°  | 29.0   | 28.9   | 28.9   | 28.9   | 29.0   | 29.1   | 29.2   | 29.2   |
| 90°    | 26.4   | 27.3   | 28.2   | 28.9   | 29.3   | 29.8   | 30.2   | 30.7   |
| 92.5°  | 40.7   | 41.5   | 42.2   | 42.4   | 42.1   | 41.9   | 41.6   | 41.3   |
| 95°    | 77.6   | 78.5   | 79.4   | 79.8   | 79.8   | 79.8   | 79.8   | 79.8   |
| 97.5°  | 120.6  | 121.6  | 122.7  | 123.1  | 123.0  | 123.0  | 122.9  | 122.8  |
| 100°   | 151.8  | 152.5  | 153.1  | 153.7  | 154.1  | 154.6  | 155.0  | 155.5  |
| 102.5° | 187.7  | 188.4  | 189.1  | 189.5  | 189.3  | 189.2  | 189.1  | 189.0  |
| 105°   | 241.5  | 241.5  | 241.5  | 241.7  | 242.2  | 242.6  | 243.1  | 243.5  |
| 107.5° | 299.6  | 300.3  | 301.0  | 301.2  | 301.0  | 300.7  | 300.4  | 300.1  |
| 110°   | 338.4  | 339.3  | 340.2  | 340.4  | 340.0  | 339.5  | 339.1  | 338.6  |





TEST NUMBER: P332197-840

CATALOG NUMBER: S123DIW-S1000D1030U840-4F0-1E-UDD-F1

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 377.3  | 378.3  | 379.4  | 379.9  | 379.8  | 379.7  | 379.7  | 379.6  |
| 115°   | 436.3  | 436.6  | 436.8  | 436.8  | 436.6  | 436.3  | 436.1  | 435.9  |
| 117.5° | 495.9  | 495.8  | 495.8  | 495.4  | 494.8  | 494.2  | 493.5  | 492.9  |
| 120°   | 535.6  | 535.4  | 535.2  | 534.8  | 534.4  | 533.9  | 533.5  | 533.0  |
| 122.5° | 575.8  | 575.2  | 574.7  | 574.0  | 573.4  | 572.8  | 572.2  | 571.5  |
| 125°   | 635.6  | 634.7  | 633.8  | 632.9  | 632.0  | 631.1  | 630.2  | 629.2  |
| 127.5° | 694.6  | 693.4  | 692.1  | 690.8  | 689.8  | 688.8  | 687.7  | 686.7  |
| 130°   | 733.8  | 732.9  | 732.0  | 730.7  | 729.1  | 727.5  | 726.0  | 724.4  |
| 132.5° | 771.9  | 770.8  | 769.7  | 768.6  | 767.3  | 766.1  | 764.9  | 763.7  |
| 135°   | 828.9  | 828.0  | 827.1  | 826.5  | 826.0  | 825.6  | 825.1  | 824.7  |
| 137.5° | 884.7  | 883.7  | 882.8  | 881.9  | 881.0  | 880.2  | 879.3  | 878.5  |
| 140°   | 921.4  | 921.1  | 920.9  | 920.0  | 918.4  | 916.9  | 915.2  | 913.6  |
| 142.5° | 955.7  | 955.5  | 955.3  | 954.5  | 953.3  | 952.1  | 950.9  | 949.7  |
| 145°   | 1006.3 | 1006.0 | 1005.8 | 1005.2 | 1004.3 | 1003.4 | 1002.5 | 1001.6 |
| 147.5° | 1054.0 | 1054.0 | 1054.0 | 1053.3 | 1052.0 | 1050.6 | 1049.2 | 1047.8 |
| 150°   | 1083.5 | 1083.5 | 1083.5 | 1082.8 | 1081.5 | 1080.1 | 1078.7 | 1077.3 |
| 152.5° | 1110.3 | 1110.8 | 1111.2 | 1110.8 | 1109.5 | 1108.3 | 1107.1 | 1106.0 |
| 155°   | 1149.7 | 1150.6 | 1151.5 | 1151.2 | 1149.6 | 1148.0 | 1146.5 | 1144.9 |
| 157.5° | 1183.6 | 1184.6 | 1185.5 | 1185.4 | 1184.1 | 1182.9 | 1181.5 | 1180.2 |
| 160°   | 1204.5 | 1205.6 | 1206.7 | 1206.8 | 1205.9 | 1205.0 | 1204.1 | 1203.2 |
| 162.5° | 1224.1 | 1225.2 | 1226.4 | 1226.2 | 1224.8 | 1223.2 | 1221.8 | 1220.3 |
| 165°   | 1248.9 | 1250.2 | 1251.6 | 1251.5 | 1249.9 | 1248.3 | 1246.7 | 1245.2 |
| 167.5° | 1269.0 | 1270.4 | 1271.8 | 1271.8 | 1270.4 | 1269.0 | 1267.6 | 1266.2 |
| 170°   | 1280.0 | 1281.6 | 1283.2 | 1283.2 | 1281.6 | 1280.0 | 1278.4 | 1276.9 |
| 172.5° | 1288.7 | 1290.1 | 1291.5 | 1291.4 | 1289.8 | 1288.2 | 1286.6 | 1285.1 |
| 175°   | 1298.0 | 1299.4 | 1300.7 | 1300.6 | 1299.0 | 1297.4 | 1295.9 | 1294.2 |
| 177.5° | 1302.1 | 1303.2 | 1304.3 | 1304.2 | 1302.9 | 1301.7 | 1300.4 | 1299.2 |
| 180°   | 1302.4 | 1302.4 | 1302.4 | 1302.4 | 1302.4 | 1302.4 | 1302.4 | 1302.4 |

(END OF REPORT)