

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: P332976-927

Luminaire Tested: **SA4XXRDIP-C1020D1035U927-4F0-1E-UDD-F**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332976-927  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA4XXRDIP-C1020D1035U927-4F0-1E-UDD-F  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1020 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED  
HOUSING  
UPLIGHT 1035 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6578.5 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: General Diffuse

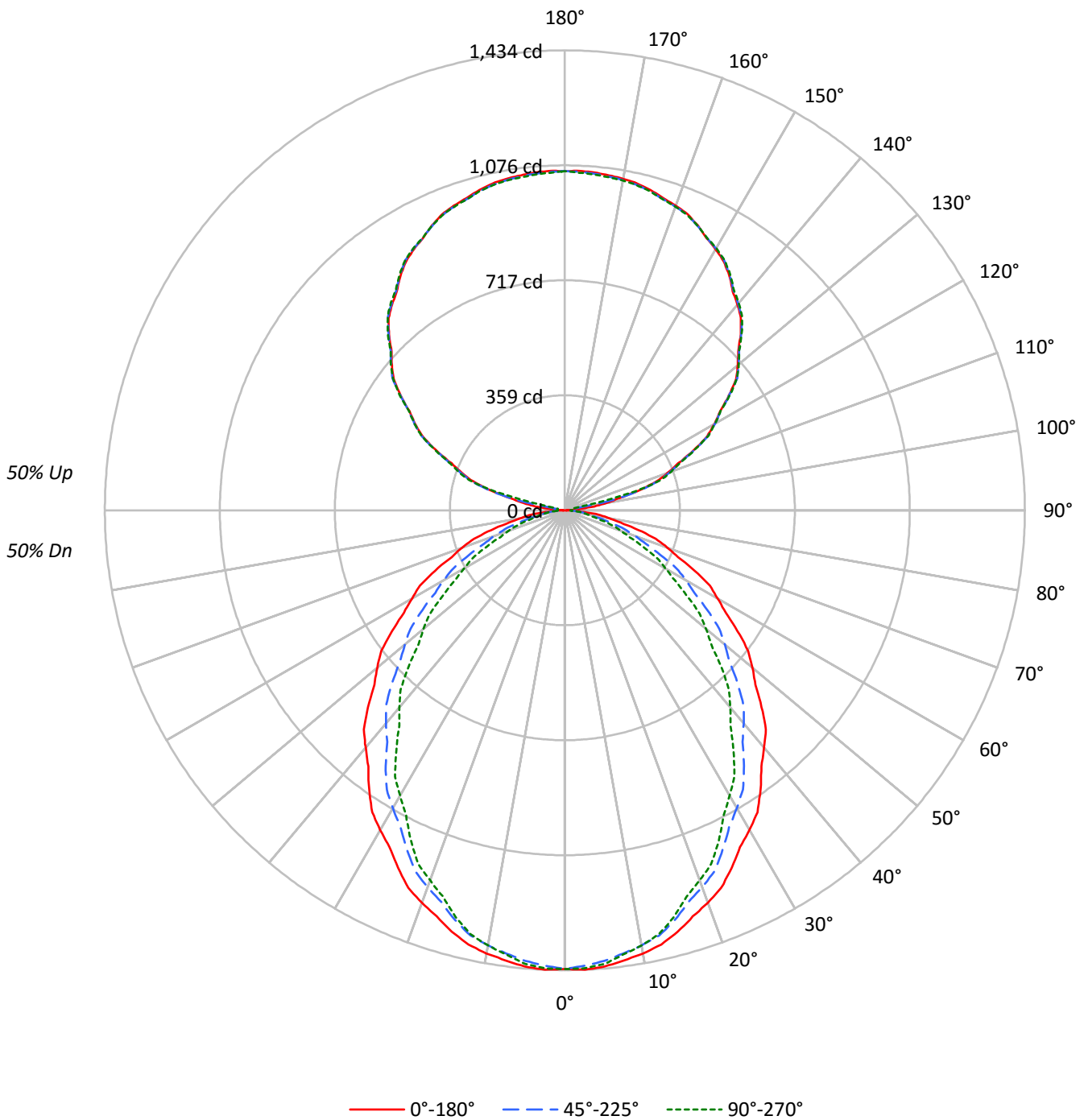
Input Watts (W): 60.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332976-927

CATALOG NUMBER: SA4XXRDIP-C1020D1035U927-4F0-1E-UDD-F

### Luminous Intensity Polar Plot





TEST NUMBER: P332976-927

CATALOG NUMBER: SA4XXRDIP-C1020D1035U927-4F0-1E-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 | 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  | 94  | 90  | 87  | 90 | 87 | 84 | 81 | 74 | 71 | 69 | 61 | 60 | 58 | 50 | 49 | 48 | 43 |    |    |    |   |
| 2   | 90  | 82  | 76  | 71  | 82 | 76 | 71 | 67 | 65 | 61 | 58 | 54 | 52 | 49 | 45 | 43 | 41 | 36 |    |    |    |   |
| 3   | 82  | 73  | 65  | 60  | 75 | 67 | 61 | 56 | 57 | 53 | 49 | 48 | 45 | 42 | 40 | 37 | 35 | 31 |    |    |    |   |
| 4   | 75  | 64  | 57  | 51  | 69 | 60 | 53 | 48 | 51 | 46 | 42 | 43 | 39 | 36 | 36 | 33 | 30 | 27 |    |    |    |   |
| 5   | 69  | 57  | 49  | 44  | 63 | 53 | 46 | 41 | 46 | 40 | 36 | 39 | 35 | 31 | 32 | 29 | 27 | 23 |    |    |    |   |
| 6   | 64  | 52  | 44  | 38  | 59 | 48 | 41 | 36 | 41 | 36 | 32 | 35 | 31 | 28 | 29 | 26 | 24 | 21 |    |    |    |   |
| 7   | 59  | 47  | 39  | 33  | 54 | 44 | 36 | 31 | 38 | 32 | 28 | 32 | 28 | 24 | 27 | 24 | 21 | 18 |    |    |    |   |
| 8   | 55  | 42  | 35  | 29  | 50 | 40 | 33 | 28 | 34 | 29 | 25 | 29 | 25 | 22 | 25 | 21 | 19 | 17 |    |    |    |   |
| 9   | 51  | 39  | 31  | 26  | 47 | 36 | 30 | 25 | 32 | 26 | 22 | 27 | 23 | 20 | 23 | 20 | 17 | 15 |    |    |    |   |
| 10  | 48  | 36  | 28  | 24  | 44 | 33 | 27 | 23 | 29 | 24 | 20 | 25 | 21 | 18 | 21 | 18 | 16 | 14 |    |    |    |   |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 11548 | 11548 | 11548 |
| 5°  | 11574 | 11432 | 11503 |
| 10° | 11501 | 11294 | 11294 |
| 15° | 11369 | 11058 | 10975 |
| 20° | 11188 | 10746 | 10548 |
| 25° | 10956 | 10381 | 10117 |
| 30° | 10730 | 9996  | 9577  |
| 35° | 10481 | 9596  | 9034  |
| 40° | 10181 | 9141  | 8450  |
| 45° | 9903  | 8691  | 7854  |
| 50° | 9588  | 8171  | 7222  |
| 55° | 9250  | 7631  | 6536  |
| 60° | 8879  | 7038  | 5837  |
| 65° | 8537  | 6298  | 5146  |
| 70° | 8039  | 5481  | 4369  |
| 75° | 7414  | 4545  | 3553  |
| 80° | 6467  | 3464  | 3259  |
| 85° | 5483  | 3149  | 2946  |



TEST NUMBER: P332976-927

CATALOG NUMBER: SA4XXRDIP-C1020D1035U927-4F0-1E-UDD-F

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 134.4  | 2.0       |
| 10°-20°   | 374.7  | 5.7       |
| 20°-30°   | 541.1  | 8.2       |
| 30°-40°   | 613.3  | 9.3       |
| 40°-50°   | 592.3  | 9.0       |
| 50°-60°   | 492.5  | 7.5       |
| 60°-70°   | 340.1  | 5.2       |
| 70°-80°   | 172.4  | 2.6       |
| 80°-90°   | 47.3   | 0.7       |
| 90°-100°  | 36.2   | 0.5       |
| 100°-110° | 230.6  | 3.5       |
| 110°-120° | 441.1  | 6.7       |
| 120°-130° | 559.9  | 8.5       |
| 130°-140° | 599.1  | 9.1       |
| 140°-150° | 560.2  | 8.5       |
| 150°-160° | 451.8  | 6.9       |
| 160°-170° | 291.4  | 4.4       |
| 170°-180° | 100.4  | 1.5       |
| 0°-30°    | 1050.1 | 16.0      |
| 0°-40°    | 1663.5 | 25.3      |
| 0°-60°    | 2748.2 | 41.8      |
| 0°-90°    | 3307.9 | 50.3      |
| 90°-120°  | 707.8  | 10.8      |
| 90°-150°  | 2427.0 | 36.9      |
| 90°-180°  | 3271.0 | 49.7      |
| 0°-180°   | 6578.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1430 | 1430  | 1430 | 1430  | 1430 |      |
| 5°   | 1428 | 1423  | 1411 | 1421  | 1420 | 135  |
| 15°  | 1360 | 1349  | 1323 | 1321  | 1313 | 383  |
| 25°  | 1230 | 1209  | 1165 | 1147  | 1136 | 566  |
| 35°  | 1064 | 1027  | 974  | 937   | 917  | 664  |
| 45°  | 867  | 826   | 761  | 709   | 688  | 669  |
| 55°  | 657  | 612   | 542  | 487   | 464  | 588  |
| 65°  | 447  | 398   | 330  | 284   | 269  | 441  |
| 75°  | 238  | 197   | 146  | 122   | 114  | 251  |
| 85°  | 59   | 38    | 34   | 32    | 32   | 67   |
| 90°  | 2    | 11    | 17   | 22    | 24   | 5    |
| 95°  | 44   | 18    | 17   | 22    | 23   | 56   |
| 105° | 238  | 243   | 247  | 252   | 225  | 249  |
| 115° | 444  | 447   | 446  | 448   | 448  | 437  |
| 125° | 625  | 628   | 626  | 629   | 630  | 558  |
| 135° | 775  | 774   | 777  | 779   | 780  | 597  |
| 145° | 894  | 896   | 896  | 897   | 898  | 558  |
| 155° | 980  | 980   | 978  | 981   | 979  | 452  |
| 165° | 1034 | 1030  | 1030 | 1035  | 1029 | 292  |
| 175° | 1057 | 1053  | 1053 | 1060  | 1051 | 101  |
| 180° | 1057 | 1057  | 1057 | 1057  | 1057 |      |



TEST NUMBER: P332976-927

CATALOG NUMBER: SA4XXRDIP-C1020D1035U927-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1430.4 | 1430.4 | 1430.4 | 1430.4 | 1430.4 | 1430.4 | 1430.4 | 1430.4 | 1430.4 | 1430.4 | 1430.4 |
| 2.5°   | 1433.9 | 1433.1 | 1432.3 | 1431.6 | 1430.8 | 1429.3 | 1427.2 | 1425.1 | 1422.9 | 1420.8 | 1422.9 |
| 5°     | 1428.2 | 1427.3 | 1426.3 | 1425.3 | 1424.3 | 1422.4 | 1419.5 | 1416.6 | 1413.6 | 1410.7 | 1413.2 |
| 7.5°   | 1415.3 | 1414.3 | 1413.3 | 1412.2 | 1411.2 | 1408.8 | 1405.0 | 1401.2 | 1397.4 | 1393.6 | 1395.2 |
| 10°    | 1403.0 | 1401.8 | 1400.6 | 1399.4 | 1398.2 | 1395.3 | 1391.0 | 1386.6 | 1382.2 | 1377.8 | 1378.8 |
| 12.5°  | 1387.3 | 1385.8 | 1384.4 | 1383.1 | 1381.6 | 1378.3 | 1373.2 | 1368.0 | 1362.9 | 1357.7 | 1358.3 |
| 15°    | 1360.3 | 1358.1 | 1356.0 | 1353.8 | 1351.5 | 1347.4 | 1341.3 | 1335.2 | 1329.2 | 1323.1 | 1322.6 |
| 17.5°  | 1327.7 | 1324.5 | 1321.4 | 1318.2 | 1315.0 | 1309.8 | 1302.5 | 1295.2 | 1287.9 | 1280.6 | 1279.2 |
| 20°    | 1302.3 | 1299.1 | 1295.9 | 1292.8 | 1289.6 | 1283.9 | 1275.7 | 1267.3 | 1259.1 | 1250.8 | 1248.9 |
| 22.5°  | 1274.2 | 1270.7 | 1267.1 | 1263.6 | 1260.0 | 1253.8 | 1245.0 | 1236.1 | 1227.2 | 1218.4 | 1215.4 |
| 25°    | 1230.0 | 1225.6 | 1221.2 | 1216.9 | 1212.4 | 1205.3 | 1195.3 | 1185.3 | 1175.4 | 1165.4 | 1161.3 |
| 27.5°  | 1183.5 | 1178.1 | 1172.6 | 1167.0 | 1161.6 | 1153.5 | 1142.8 | 1132.2 | 1121.5 | 1110.8 | 1105.7 |
| 30°    | 1151.1 | 1145.0 | 1139.0 | 1132.9 | 1126.8 | 1118.0 | 1106.6 | 1095.1 | 1083.7 | 1072.3 | 1066.2 |
| 32.5°  | 1117.0 | 1110.1 | 1103.2 | 1096.4 | 1089.5 | 1080.1 | 1068.3 | 1056.5 | 1044.7 | 1032.8 | 1025.8 |
| 35°    | 1063.5 | 1055.7 | 1047.9 | 1040.1 | 1032.4 | 1022.4 | 1010.2 | 998.1  | 985.9  | 973.7  | 965.4  |
| 37.5°  | 1006.3 | 998.3  | 990.3  | 982.2  | 974.2  | 963.5  | 950.0  | 936.5  | 923.0  | 909.5  | 900.2  |
| 40°    | 966.1  | 958.0  | 950.0  | 941.9  | 933.9  | 923.0  | 909.1  | 895.2  | 881.3  | 867.4  | 857.2  |
| 42.5°  | 927.5  | 919.1  | 910.6  | 902.2  | 893.8  | 882.3  | 867.9  | 853.4  | 839.0  | 824.5  | 814.1  |
| 45°    | 867.4  | 858.5  | 849.5  | 840.4  | 831.4  | 819.6  | 805.0  | 790.4  | 775.8  | 761.2  | 749.3  |
| 47.5°  | 805.5  | 796.1  | 786.9  | 777.6  | 768.3  | 756.1  | 740.8  | 725.6  | 710.4  | 695.3  | 682.9  |
| 50°    | 763.4  | 753.9  | 744.4  | 734.9  | 725.4  | 712.9  | 697.4  | 681.8  | 666.1  | 650.6  | 638.4  |
| 52.5°  | 720.5  | 711.1  | 701.9  | 692.6  | 683.3  | 670.7  | 654.7  | 638.7  | 622.7  | 606.8  | 594.5  |
| 55°    | 657.2  | 647.5  | 637.7  | 628.0  | 618.2  | 605.5  | 589.6  | 573.8  | 558.0  | 542.2  | 529.5  |
| 57.5°  | 594.5  | 584.4  | 574.3  | 564.1  | 554.1  | 541.1  | 525.6  | 510.0  | 494.4  | 478.9  | 466.0  |
| 60°    | 549.9  | 540.1  | 530.4  | 520.6  | 510.9  | 498.2  | 482.7  | 467.1  | 451.5  | 435.9  | 423.3  |
| 62.5°  | 509.5  | 499.4  | 489.3  | 479.1  | 469.1  | 456.0  | 440.0  | 424.1  | 408.1  | 392.1  | 380.4  |
| 65°    | 446.9  | 436.4  | 426.0  | 415.5  | 405.0  | 392.0  | 376.4  | 360.8  | 345.2  | 329.7  | 319.2  |
| 67.5°  | 381.8  | 371.8  | 361.8  | 351.7  | 341.7  | 329.5  | 315.0  | 300.6  | 286.1  | 271.6  | 262.6  |
| 70°    | 340.6  | 330.4  | 320.2  | 310.0  | 299.8  | 287.7  | 273.9  | 259.9  | 246.1  | 232.2  | 224.2  |
| 72.5°  | 296.8  | 287.6  | 278.3  | 269.1  | 259.8  | 248.7  | 235.6  | 222.4  | 209.4  | 196.3  | 189.4  |
| 75°    | 237.7  | 228.7  | 219.7  | 210.6  | 201.7  | 191.4  | 180.0  | 168.6  | 157.1  | 145.7  | 140.1  |
| 77.5°  | 177.7  | 170.0  | 162.4  | 154.7  | 147.1  | 138.6  | 129.4  | 120.2  | 110.9  | 101.6  | 98.4   |
| 80°    | 139.1  | 132.1  | 125.0  | 118.0  | 110.9  | 103.7  | 96.4   | 89.1   | 81.8   | 74.5   | 73.8   |
| 82.5°  | 105.8  | 99.3   | 92.8   | 86.3   | 79.9   | 74.5   | 70.4   | 66.2   | 62.0   | 57.8   | 57.3   |
| 85°    | 59.2   | 54.3   | 49.4   | 44.5   | 39.7   | 36.8   | 36.1   | 35.4   | 34.7   | 34.0   | 33.4   |
| 87.5°  | 20.6   | 19.5   | 18.3   | 17.1   | 15.9   | 15.4   | 15.5   | 15.6   | 15.7   | 15.8   | 15.8   |
| 90°    | 2.4    | 4.3    | 6.3    | 8.2    | 10.1   | 11.8   | 13.2   | 14.6   | 16.0   | 17.4   | 18.5   |
| 92.5°  | 10.0   | 10.1   | 10.1   | 10.3   | 10.4   | 11.2   | 12.5   | 13.9   | 15.4   | 16.8   | 17.8   |
| 95°    | 43.5   | 37.5   | 31.5   | 25.6   | 19.6   | 16.7   | 16.9   | 17.0   | 17.2   | 17.4   | 18.5   |
| 97.5°  | 92.4   | 96.1   | 99.8   | 103.5  | 107.3  | 99.3   | 79.7   | 60.1   | 40.5   | 20.9   | 21.0   |
| 100°   | 129.7  | 132.8  | 136.0  | 139.2  | 142.4  | 131.8  | 107.6  | 83.3   | 59.0   | 34.8   | 31.8   |
| 102.5° | 171.4  | 173.8  | 176.1  | 178.4  | 180.7  | 180.3  | 177.1  | 174.0  | 170.8  | 167.6  | 135.4  |
| 105°   | 238.1  | 239.1  | 240.1  | 241.2  | 242.2  | 243.2  | 244.1  | 244.9  | 245.9  | 246.8  | 248.3  |
| 107.5° | 299.8  | 300.4  | 301.0  | 301.4  | 302.0  | 302.9  | 304.0  | 305.2  | 306.4  | 307.6  | 308.4  |
| 110°   | 341.7  | 342.1  | 342.7  | 343.2  | 343.7  | 344.5  | 345.5  | 346.7  | 347.7  | 348.7  | 349.1  |



TEST NUMBER: P332976-927

CATALOG NUMBER: SA4XXRDIP-C1020D1035U927-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 382.1  | 383.1  | 384.0  | 385.0  | 386.0  | 386.7  | 387.1  | 387.6  | 388.1  | 388.6  | 388.6  |
| 115°   | 444.4  | 445.0  | 445.5  | 446.0  | 446.6  | 446.7  | 446.6  | 446.4  | 446.2  | 446.0  | 446.4  |
| 117.5° | 500.6  | 501.3  | 502.0  | 502.7  | 503.4  | 503.9  | 504.3  | 504.7  | 505.1  | 505.5  | 505.4  |
| 120°   | 538.5  | 539.2  | 540.0  | 540.7  | 541.4  | 541.6  | 541.5  | 541.3  | 541.1  | 540.9  | 541.3  |
| 122.5° | 573.9  | 574.4  | 574.8  | 575.2  | 575.7  | 576.0  | 576.2  | 576.5  | 576.7  | 576.9  | 577.2  |
| 125°   | 624.7  | 625.4  | 626.1  | 626.9  | 627.6  | 627.7  | 627.4  | 627.0  | 626.7  | 626.3  | 626.9  |
| 127.5° | 672.8  | 673.0  | 673.2  | 673.4  | 673.5  | 674.0  | 674.9  | 675.7  | 676.4  | 677.2  | 677.2  |
| 130°   | 703.9  | 704.0  | 704.2  | 704.3  | 704.5  | 704.9  | 705.4  | 705.9  | 706.5  | 707.0  | 707.2  |
| 132.5° | 732.3  | 732.6  | 732.9  | 733.2  | 733.6  | 734.0  | 734.7  | 735.4  | 736.0  | 736.7  | 736.9  |
| 135°   | 775.0  | 774.8  | 774.7  | 774.4  | 774.3  | 774.5  | 775.2  | 775.9  | 776.7  | 777.4  | 777.7  |
| 137.5° | 812.8  | 812.9  | 812.9  | 813.0  | 813.1  | 813.5  | 814.3  | 815.1  | 815.8  | 816.6  | 817.0  |
| 140°   | 837.5  | 837.8  | 838.2  | 838.5  | 838.8  | 839.2  | 839.6  | 840.0  | 840.3  | 840.7  | 841.1  |
| 142.5° | 859.6  | 860.2  | 860.9  | 861.5  | 862.1  | 862.5  | 862.8  | 863.0  | 863.2  | 863.4  | 863.8  |
| 145°   | 893.6  | 894.1  | 894.7  | 895.2  | 895.7  | 896.0  | 896.0  | 896.0  | 896.0  | 896.0  | 896.2  |
| 147.5° | 920.7  | 921.6  | 922.7  | 923.6  | 924.6  | 925.0  | 924.8  | 924.6  | 924.5  | 924.3  | 924.5  |
| 150°   | 940.2  | 941.0  | 941.7  | 942.4  | 943.1  | 943.3  | 943.2  | 943.0  | 942.9  | 942.6  | 942.6  |
| 152.5° | 956.7  | 957.3  | 957.8  | 958.4  | 958.9  | 959.1  | 958.8  | 958.5  | 958.1  | 957.8  | 958.1  |
| 155°   | 979.9  | 980.0  | 980.2  | 980.3  | 980.5  | 980.3  | 979.9  | 979.3  | 978.7  | 978.3  | 978.9  |
| 157.5° | 999.3  | 999.2  | 999.0  | 998.9  | 998.9  | 998.5  | 997.9  | 997.3  | 996.7  | 996.1  | 997.0  |
| 160°   | 1010.7 | 1010.1 | 1009.6 | 1009.1 | 1008.5 | 1008.2 | 1008.1 | 1007.8 | 1007.7 | 1007.5 | 1008.5 |
| 162.5° | 1020.8 | 1020.1 | 1019.5 | 1018.7 | 1018.1 | 1017.7 | 1017.5 | 1017.3 | 1017.2 | 1017.0 | 1018.0 |
| 165°   | 1033.6 | 1032.7 | 1031.8 | 1030.9 | 1030.1 | 1029.6 | 1029.6 | 1029.6 | 1029.6 | 1029.6 | 1031.0 |
| 167.5° | 1043.7 | 1042.8 | 1041.9 | 1041.0 | 1040.1 | 1039.6 | 1039.4 | 1039.3 | 1039.3 | 1039.1 | 1040.7 |
| 170°   | 1049.4 | 1048.4 | 1047.3 | 1046.2 | 1045.2 | 1044.7 | 1044.9 | 1045.1 | 1045.3 | 1045.4 | 1046.9 |
| 172.5° | 1053.2 | 1052.2 | 1051.1 | 1050.0 | 1049.0 | 1048.5 | 1048.7 | 1048.9 | 1049.1 | 1049.2 | 1050.7 |
| 175°   | 1057.3 | 1056.3 | 1055.2 | 1054.2 | 1053.1 | 1052.7 | 1052.8 | 1053.0 | 1053.2 | 1053.4 | 1054.9 |
| 177.5° | 1059.2 | 1058.2 | 1057.2 | 1056.3 | 1055.3 | 1054.9 | 1055.2 | 1055.5 | 1055.7 | 1056.1 | 1057.2 |
| 180°   | 1057.3 | 1057.3 | 1057.3 | 1057.3 | 1057.3 | 1057.3 | 1057.3 | 1057.3 | 1057.3 | 1057.3 | 1057.3 |



TEST NUMBER: P332976-927

CATALOG NUMBER: SA4XXRDIP-C1020D1035U927-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1430.4 | 1430.4 | 1430.4 | 1430.4 | 1430.4 | 1430.4 | 1430.4 | 1430.4 |
| 2.5°   | 1425.1 | 1427.2 | 1429.3 | 1430.4 | 1430.1 | 1430.0 | 1429.7 | 1429.6 |
| 5°     | 1415.6 | 1418.0 | 1420.5 | 1421.4 | 1420.9 | 1420.5 | 1420.0 | 1419.5 |
| 7.5°   | 1396.8 | 1398.3 | 1399.9 | 1400.3 | 1399.5 | 1398.7 | 1397.9 | 1397.1 |
| 10°    | 1379.8 | 1380.8 | 1381.7 | 1381.7 | 1380.8 | 1379.8 | 1378.8 | 1377.8 |
| 12.5°  | 1358.8 | 1359.5 | 1360.0 | 1359.6 | 1358.3 | 1356.9 | 1355.6 | 1354.2 |
| 15°    | 1322.2 | 1321.6 | 1321.1 | 1320.0 | 1318.3 | 1316.6 | 1314.9 | 1313.2 |
| 17.5°  | 1277.9 | 1276.5 | 1275.2 | 1273.2 | 1270.6 | 1268.0 | 1265.4 | 1262.8 |
| 20°    | 1246.9 | 1245.0 | 1243.0 | 1240.5 | 1237.3 | 1234.1 | 1231.0 | 1227.8 |
| 22.5°  | 1212.5 | 1209.6 | 1206.7 | 1204.0 | 1201.3 | 1198.8 | 1196.2 | 1193.7 |
| 25°    | 1157.1 | 1152.9 | 1148.8 | 1145.5 | 1143.1 | 1140.7 | 1138.2 | 1135.8 |
| 27.5°  | 1100.6 | 1095.5 | 1090.4 | 1086.1 | 1082.6 | 1079.0 | 1075.5 | 1072.1 |
| 30°    | 1060.1 | 1054.0 | 1047.9 | 1042.9 | 1039.0 | 1035.1 | 1031.3 | 1027.4 |
| 32.5°  | 1018.7 | 1011.7 | 1004.6 | 999.3  | 995.5  | 991.8  | 988.2  | 984.4  |
| 35°    | 957.1  | 948.9  | 940.6  | 934.3  | 929.9  | 925.5  | 921.1  | 916.7  |
| 37.5°  | 891.0  | 881.8  | 872.5  | 865.7  | 861.3  | 856.9  | 852.5  | 848.2  |
| 40°    | 847.0  | 836.8  | 826.6  | 819.3  | 814.9  | 810.5  | 806.1  | 801.8  |
| 42.5°  | 803.7  | 793.3  | 782.8  | 775.4  | 770.8  | 766.2  | 761.6  | 757.1  |
| 45°    | 737.4  | 725.4  | 713.5  | 705.4  | 701.0  | 696.6  | 692.2  | 687.9  |
| 47.5°  | 670.6  | 658.2  | 645.8  | 637.2  | 632.4  | 627.6  | 622.7  | 618.0  |
| 50°    | 626.2  | 614.1  | 601.9  | 593.5  | 588.9  | 584.2  | 579.6  | 575.0  |
| 52.5°  | 582.0  | 569.7  | 557.3  | 548.7  | 543.9  | 539.1  | 534.2  | 529.5  |
| 55°    | 516.8  | 504.2  | 491.5  | 482.9  | 478.2  | 473.6  | 469.1  | 464.4  |
| 57.5°  | 453.1  | 440.3  | 427.5  | 419.3  | 415.7  | 412.3  | 408.8  | 405.3  |
| 60°    | 410.6  | 397.9  | 385.3  | 377.0  | 373.1  | 369.2  | 365.4  | 361.5  |
| 62.5°  | 368.8  | 357.0  | 345.4  | 337.9  | 334.9  | 331.8  | 328.6  | 325.5  |
| 65°    | 308.7  | 298.3  | 287.8  | 281.1  | 278.2  | 275.3  | 272.4  | 269.4  |
| 67.5°  | 253.6  | 244.6  | 235.6  | 229.5  | 226.2  | 223.1  | 219.8  | 216.7  |
| 70°    | 216.1  | 208.1  | 200.1  | 194.8  | 192.4  | 190.0  | 187.5  | 185.1  |
| 72.5°  | 182.5  | 175.7  | 168.8  | 164.3  | 162.0  | 159.8  | 157.6  | 155.3  |
| 75°    | 134.5  | 128.9  | 123.3  | 119.8  | 118.3  | 116.8  | 115.3  | 113.9  |
| 77.5°  | 95.1   | 91.9   | 88.6   | 86.7   | 86.3   | 85.9   | 85.4   | 85.0   |
| 80°    | 73.0   | 72.3   | 71.5   | 71.1   | 70.8   | 70.6   | 70.3   | 70.1   |
| 82.5°  | 56.7   | 56.2   | 55.7   | 55.3   | 55.1   | 54.8   | 54.6   | 54.3   |
| 85°    | 33.0   | 32.5   | 32.0   | 31.8   | 31.8   | 31.8   | 31.8   | 31.8   |
| 87.5°  | 15.8   | 15.8   | 15.8   | 15.9   | 16.2   | 16.5   | 16.7   | 17.0   |
| 90°    | 19.5   | 20.6   | 21.6   | 22.3   | 22.7   | 23.1   | 23.4   | 23.7   |
| 92.5°  | 18.9   | 20.0   | 21.0   | 21.5   | 21.6   | 21.7   | 21.8   | 21.9   |
| 95°    | 19.5   | 20.6   | 21.6   | 22.3   | 22.4   | 22.6   | 22.7   | 22.9   |
| 97.5°  | 21.1   | 21.2   | 21.3   | 21.5   | 21.6   | 21.8   | 21.9   | 22.2   |
| 100°   | 28.8   | 25.8   | 22.8   | 21.5   | 21.6   | 21.8   | 21.9   | 22.2   |
| 102.5° | 103.2  | 71.0   | 38.7   | 22.7   | 22.7   | 22.7   | 22.7   | 22.8   |
| 105°   | 249.9  | 251.4  | 253.0  | 250.7  | 244.4  | 238.1  | 231.7  | 225.4  |
| 107.5° | 309.2  | 310.0  | 310.7  | 311.4  | 312.1  | 312.8  | 313.5  | 314.1  |
| 110°   | 349.4  | 349.8  | 350.1  | 350.6  | 351.1  | 351.6  | 352.2  | 352.7  |





TEST NUMBER: P332976-927

CATALOG NUMBER: SA4XXRDIP-C1020D1035U927-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 388.5  | 388.4  | 388.3  | 388.6  | 389.3  | 390.0  | 390.6  | 391.3  |
| 115°   | 446.7  | 447.1  | 447.4  | 447.6  | 447.6  | 447.6  | 447.6  | 447.6  |
| 117.5° | 505.3  | 505.3  | 505.2  | 505.2  | 505.1  | 505.0  | 504.9  | 504.9  |
| 120°   | 541.6  | 541.9  | 542.3  | 542.3  | 541.9  | 541.6  | 541.3  | 540.9  |
| 122.5° | 577.4  | 577.6  | 577.8  | 577.7  | 577.4  | 577.0  | 576.7  | 576.3  |
| 125°   | 627.4  | 627.9  | 628.4  | 628.8  | 629.0  | 629.2  | 629.3  | 629.5  |
| 127.5° | 677.1  | 676.9  | 676.8  | 676.7  | 676.6  | 676.4  | 676.3  | 676.1  |
| 130°   | 707.3  | 707.5  | 707.7  | 707.8  | 707.8  | 707.8  | 707.8  | 707.8  |
| 132.5° | 737.0  | 737.3  | 737.4  | 737.4  | 737.3  | 737.1  | 737.0  | 736.9  |
| 135°   | 778.1  | 778.4  | 778.8  | 779.1  | 779.5  | 779.8  | 780.1  | 780.5  |
| 137.5° | 817.4  | 817.8  | 818.2  | 818.2  | 818.2  | 818.1  | 817.9  | 817.8  |
| 140°   | 841.7  | 842.2  | 842.7  | 843.1  | 843.3  | 843.4  | 843.6  | 843.8  |
| 142.5° | 864.2  | 864.6  | 865.0  | 865.1  | 865.2  | 865.2  | 865.3  | 865.3  |
| 145°   | 896.4  | 896.5  | 896.7  | 897.0  | 897.3  | 897.6  | 898.0  | 898.3  |
| 147.5° | 924.6  | 924.7  | 924.9  | 925.0  | 925.2  | 925.3  | 925.6  | 925.7  |
| 150°   | 942.6  | 942.6  | 942.6  | 942.7  | 942.9  | 943.1  | 943.3  | 943.4  |
| 152.5° | 958.4  | 958.7  | 958.9  | 959.0  | 958.9  | 958.9  | 958.7  | 958.6  |
| 155°   | 979.6  | 980.3  | 981.0  | 981.1  | 980.6  | 980.1  | 979.5  | 979.1  |
| 157.5° | 997.9  | 998.9  | 999.7  | 999.7  | 998.9  | 997.9  | 997.0  | 996.1  |
| 160°   | 1009.6 | 1010.7 | 1011.7 | 1011.7 | 1010.7 | 1009.6 | 1008.5 | 1007.5 |
| 162.5° | 1019.1 | 1020.2 | 1021.2 | 1021.1 | 1019.9 | 1018.7 | 1017.6 | 1016.4 |
| 165°   | 1032.5 | 1033.9 | 1035.2 | 1035.1 | 1033.6 | 1032.0 | 1030.4 | 1028.8 |
| 167.5° | 1042.2 | 1043.8 | 1045.3 | 1045.2 | 1043.5 | 1041.7 | 1039.9 | 1038.2 |
| 170°   | 1048.3 | 1049.6 | 1051.1 | 1050.9 | 1049.2 | 1047.4 | 1045.6 | 1043.9 |
| 172.5° | 1052.1 | 1053.4 | 1054.9 | 1054.6 | 1052.7 | 1050.8 | 1048.9 | 1047.0 |
| 175°   | 1056.5 | 1058.1 | 1059.7 | 1059.4 | 1057.3 | 1055.2 | 1053.1 | 1051.0 |
| 177.5° | 1058.3 | 1059.4 | 1060.6 | 1060.3 | 1058.6 | 1056.9 | 1055.2 | 1053.5 |
| 180°   | 1057.3 | 1057.3 | 1057.3 | 1057.3 | 1057.3 | 1057.3 | 1057.3 | 1057.3 |

(END OF REPORT)