

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: P332667-935

Luminaire Tested: **SA4XXDIP-C1020D1205U935-4F0-1E-UDD-F**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332667-935  
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: SA4XXDIP-C1020D1205U935-4F0-1E-UDD-F  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1020 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
UPLIGHT 1205 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

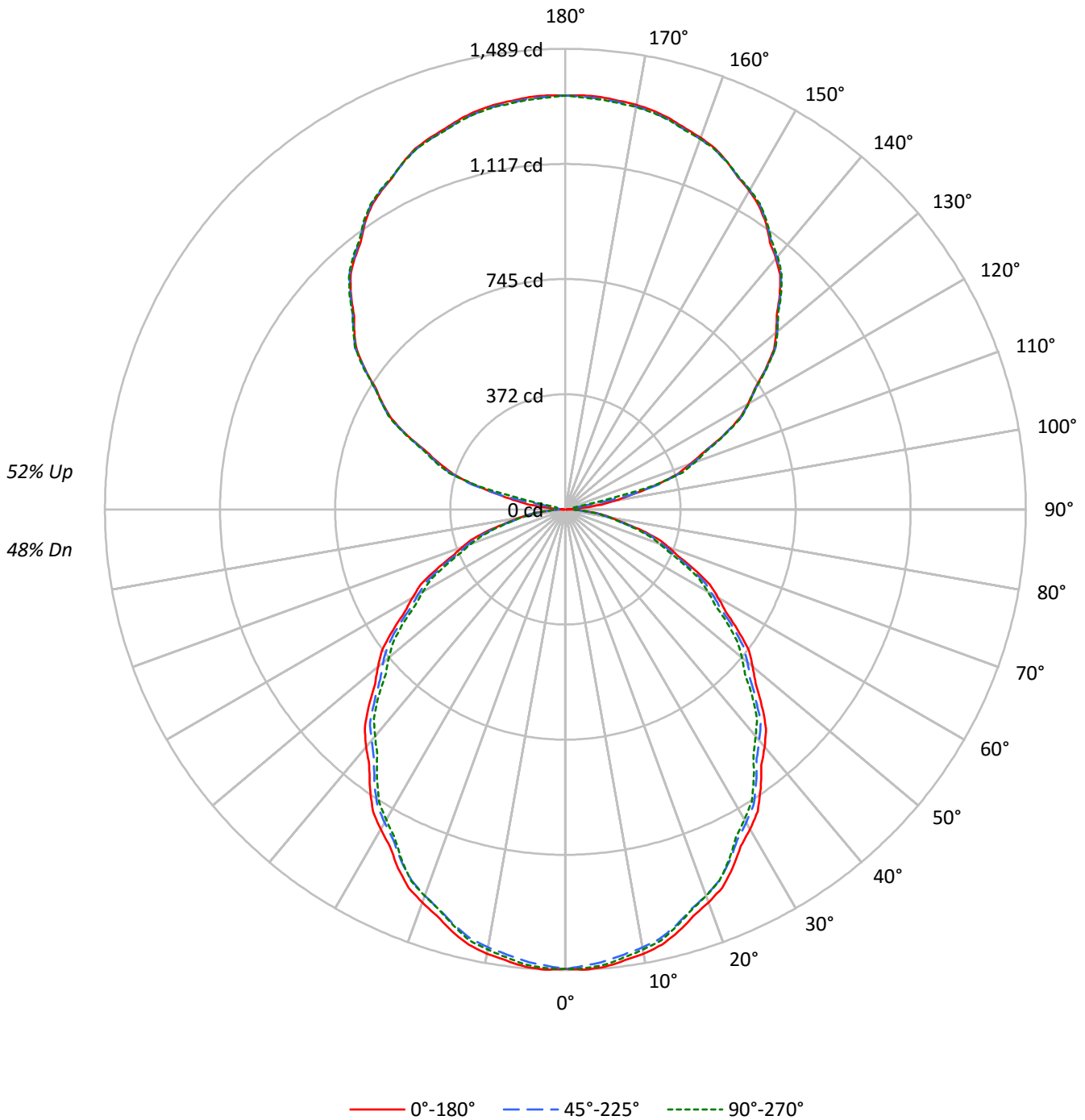
Lumens per Lamp: N/A  
Luminaire Lumens: 7953.8 lumens  
Efficiency: N/A  
Efficacy: 121.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 65.4  
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



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### Luminous Intensity Polar Plot





TEST NUMBER: P332667-935

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|----|--|--|--|--|--|--|--|--|----|---|
| RF  | 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 | 50 | 30 | 10 | 0  |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 0   | 107 | 107 | 107 | 107 | 98 | 98 | 98 | 98 | 82 | 82 | 82 | 68 | 68 | 68 | 54 | 54 | 54 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 1   | 97  | 93  | 89  | 86  | 89 | 86 | 82 | 79 | 72 | 70 | 67 | 59 | 58 | 56 | 48 | 47 | 46 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 2   | 89  | 81  | 75  | 70  | 81 | 75 | 70 | 65 | 63 | 59 | 56 | 52 | 49 | 47 | 42 | 40 | 38 | 34 | 34 | 34 | 34 | 34 | 34 | 34 |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 3   | 81  | 71  | 64  | 58  | 74 | 66 | 59 | 54 | 56 | 51 | 47 | 46 | 43 | 40 | 37 | 35 | 33 | 29 | 29 | 29 | 29 | 29 | 29 | 29 |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 4   | 74  | 63  | 55  | 49  | 68 | 58 | 51 | 46 | 49 | 44 | 40 | 41 | 37 | 34 | 33 | 31 | 28 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 5   | 68  | 56  | 48  | 42  | 62 | 52 | 45 | 40 | 44 | 39 | 34 | 37 | 33 | 29 | 30 | 27 | 25 | 21 | 21 | 21 | 21 | 21 | 21 | 21 |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 6   | 62  | 50  | 42  | 36  | 57 | 47 | 40 | 34 | 40 | 34 | 30 | 33 | 29 | 26 | 27 | 24 | 22 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 7   | 58  | 45  | 38  | 32  | 53 | 42 | 35 | 30 | 36 | 30 | 26 | 30 | 26 | 23 | 25 | 22 | 19 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 8   | 54  | 41  | 34  | 28  | 49 | 38 | 31 | 27 | 33 | 27 | 23 | 28 | 23 | 20 | 23 | 20 | 17 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 9   | 50  | 38  | 30  | 25  | 46 | 35 | 28 | 24 | 30 | 25 | 21 | 25 | 21 | 18 | 21 | 18 | 16 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |  |  |  |    |  |  |  |  |  |  |  |  |    |   |
| 10  | 47  | 35  | 27  | 23  | 43 | 32 | 26 | 21 | 28 | 23 | 19 | 24 | 19 | 17 | 20 | 16 | 14 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |  |  |  |    |  |  |  |  |  |  |  |  |    |   |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 11994 | 11994 | 11994 |
| 5°  | 12030 | 11885 | 11972 |
| 10° | 11954 | 11788 | 11847 |
| 15° | 11810 | 11621 | 11651 |
| 20° | 11618 | 11413 | 11424 |
| 25° | 11399 | 11176 | 11144 |
| 30° | 11130 | 10897 | 10797 |
| 35° | 10852 | 10606 | 10465 |
| 40° | 10564 | 10275 | 10086 |
| 45° | 10261 | 9949  | 9758  |
| 50° | 9928  | 9658  | 9359  |
| 55° | 9568  | 9282  | 8981  |
| 60° | 9206  | 8861  | 8591  |
| 65° | 8800  | 8458  | 8118  |
| 70° | 8344  | 7924  | 7615  |
| 75° | 7648  | 7277  | 7093  |
| 80° | 6811  | 6527  | 6365  |
| 85° | 5956  | 5734  | 5622  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 139.9  | 1.8       |
| 10°-20°   | 394.2  | 5.0       |
| 20°-30°   | 580.2  | 7.3       |
| 30°-40°   | 674.5  | 8.5       |
| 40°-50°   | 674.5  | 8.5       |
| 50°-60°   | 590.0  | 7.4       |
| 60°-70°   | 438.2  | 5.5       |
| 70°-80°   | 248.9  | 3.1       |
| 80°-90°   | 75.7   | 1.0       |
| 90°-100°  | 45.8   | 0.6       |
| 100°-110° | 291.7  | 3.7       |
| 110°-120° | 558.0  | 7.0       |
| 120°-130° | 708.4  | 8.9       |
| 130°-140° | 757.9  | 9.5       |
| 140°-150° | 708.7  | 8.9       |
| 150°-160° | 571.5  | 7.2       |
| 160°-170° | 368.6  | 4.6       |
| 170°-180° | 127.0  | 1.6       |
| 0°-30°    | 1114.3 | 14.0      |
| 0°-40°    | 1788.8 | 22.5      |
| 0°-60°    | 3053.4 | 38.4      |
| 0°-90°    | 3816.3 | 48.0      |
| 90°-120°  | 895.4  | 11.3      |
| 90°-150°  | 3070.4 | 38.6      |
| 90°-180°  | 4138.0 | 52.0      |
| 0°-180°   | 7953.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1486 | 1486  | 1486 | 1486  | 1486 |      |
| 5°   | 1484 | 1479  | 1467 | 1479  | 1477 | 141  |
| 15°  | 1413 | 1408  | 1390 | 1397  | 1394 | 398  |
| 25°  | 1280 | 1271  | 1255 | 1256  | 1251 | 588  |
| 35°  | 1101 | 1092  | 1076 | 1068  | 1062 | 688  |
| 45°  | 899  | 890   | 871  | 859   | 855  | 693  |
| 55°  | 680  | 675   | 660  | 646   | 638  | 609  |
| 65°  | 461  | 454   | 443  | 431   | 425  | 456  |
| 75°  | 245  | 239   | 233  | 229   | 227  | 261  |
| 85°  | 64   | 64    | 62   | 62    | 61   | 71   |
| 90°  | 3    | 14    | 22   | 28    | 30   | 6    |
| 95°  | 55   | 23    | 22   | 28    | 29   | 71   |
| 105° | 301  | 307   | 312  | 319   | 285  | 315  |
| 115° | 562  | 565   | 564  | 566   | 566  | 553  |
| 125° | 790  | 794   | 792  | 795   | 796  | 705  |
| 135° | 980  | 980   | 983  | 985   | 987  | 755  |
| 145° | 1130 | 1133  | 1134 | 1135  | 1136 | 706  |
| 155° | 1240 | 1240  | 1238 | 1241  | 1238 | 571  |
| 165° | 1308 | 1303  | 1303 | 1310  | 1302 | 369  |
| 175° | 1338 | 1332  | 1333 | 1340  | 1330 | 127  |
| 180° | 1338 | 1338  | 1338 | 1338  | 1338 |      |



TEST NUMBER: P332667-935

CATALOG NUMBER: SA4XXDIP-C1020D1205U935-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1485.7 | 1485.7 | 1485.7 | 1485.7 | 1485.7 | 1485.7 | 1485.7 | 1485.7 | 1485.7 | 1485.7 | 1485.7 |
| 2.5°   | 1489.4 | 1488.8 | 1488.2 | 1487.5 | 1486.9 | 1485.4 | 1483.1 | 1480.7 | 1478.4 | 1476.1 | 1478.3 |
| 5°     | 1484.5 | 1483.4 | 1482.4 | 1481.3 | 1480.2 | 1478.3 | 1475.3 | 1472.4 | 1469.6 | 1466.6 | 1469.6 |
| 7.5°   | 1470.7 | 1469.6 | 1468.5 | 1467.5 | 1466.5 | 1464.3 | 1461.0 | 1457.8 | 1454.6 | 1451.4 | 1453.7 |
| 10°    | 1458.3 | 1457.2 | 1456.1 | 1455.1 | 1454.1 | 1451.8 | 1448.4 | 1444.9 | 1441.5 | 1438.0 | 1440.1 |
| 12.5°  | 1442.1 | 1441.1 | 1439.9 | 1438.9 | 1437.9 | 1435.5 | 1431.8 | 1428.2 | 1424.5 | 1420.9 | 1423.2 |
| 15°    | 1413.1 | 1412.0 | 1410.9 | 1409.9 | 1408.8 | 1406.3 | 1402.3 | 1398.4 | 1394.4 | 1390.4 | 1392.0 |
| 17.5°  | 1378.0 | 1376.7 | 1375.4 | 1374.1 | 1372.8 | 1370.2 | 1366.4 | 1362.7 | 1358.9 | 1355.2 | 1356.2 |
| 20°    | 1352.3 | 1351.0 | 1349.7 | 1348.3 | 1347.0 | 1344.4 | 1340.4 | 1336.4 | 1332.5 | 1328.5 | 1329.3 |
| 22.5°  | 1324.7 | 1322.9 | 1321.2 | 1319.5 | 1317.8 | 1314.8 | 1310.9 | 1306.9 | 1303.0 | 1299.0 | 1300.5 |
| 25°    | 1279.7 | 1277.9 | 1276.0 | 1274.1 | 1272.3 | 1269.5 | 1265.8 | 1262.1 | 1258.4 | 1254.7 | 1255.0 |
| 27.5°  | 1228.3 | 1226.4 | 1224.4 | 1222.5 | 1220.6 | 1218.0 | 1214.5 | 1211.1 | 1207.6 | 1204.2 | 1203.6 |
| 30°    | 1194.0 | 1191.9 | 1189.7 | 1187.7 | 1185.5 | 1182.8 | 1179.3 | 1175.9 | 1172.4 | 1169.0 | 1167.9 |
| 32.5°  | 1157.8 | 1155.9 | 1154.0 | 1152.1 | 1150.2 | 1147.4 | 1143.8 | 1140.1 | 1136.4 | 1132.8 | 1131.5 |
| 35°    | 1101.1 | 1099.3 | 1097.4 | 1095.6 | 1093.7 | 1091.0 | 1087.3 | 1083.6 | 1079.9 | 1076.2 | 1074.3 |
| 37.5°  | 1041.4 | 1039.7 | 1038.0 | 1036.3 | 1034.6 | 1031.8 | 1027.8 | 1023.8 | 1019.9 | 1015.9 | 1013.9 |
| 40°    | 1002.4 | 1000.2 | 998.1  | 996.0  | 993.9  | 990.8  | 986.9  | 982.9  | 979.0  | 975.0  | 972.3  |
| 42.5°  | 960.4  | 959.2  | 957.9  | 956.7  | 955.4  | 952.5  | 948.1  | 943.7  | 939.4  | 935.0  | 931.9  |
| 45°    | 898.8  | 896.9  | 895.1  | 893.2  | 891.4  | 888.3  | 884.1  | 879.9  | 875.6  | 871.4  | 868.5  |
| 47.5°  | 834.2  | 833.0  | 831.7  | 830.4  | 829.1  | 826.6  | 822.7  | 818.7  | 814.9  | 810.9  | 807.6  |
| 50°    | 790.5  | 789.4  | 788.3  | 787.3  | 786.2  | 783.9  | 780.2  | 776.4  | 772.7  | 769.0  | 765.3  |
| 52.5°  | 747.6  | 746.3  | 745.0  | 743.8  | 742.5  | 739.9  | 736.0  | 732.1  | 728.1  | 724.3  | 721.0  |
| 55°    | 679.8  | 678.9  | 678.1  | 677.3  | 676.6  | 674.3  | 670.6  | 666.9  | 663.2  | 659.5  | 656.3  |
| 57.5°  | 615.0  | 614.1  | 613.2  | 612.3  | 611.4  | 609.1  | 605.5  | 601.8  | 598.1  | 594.5  | 591.5  |
| 60°    | 570.2  | 568.9  | 567.6  | 566.3  | 564.9  | 562.6  | 559.1  | 555.7  | 552.2  | 548.8  | 546.4  |
| 62.5°  | 526.4  | 525.3  | 524.2  | 523.1  | 521.9  | 519.6  | 515.9  | 512.3  | 508.6  | 505.0  | 502.8  |
| 65°    | 460.7  | 459.3  | 458.1  | 456.8  | 455.4  | 453.4  | 450.7  | 448.2  | 445.5  | 442.8  | 440.2  |
| 67.5°  | 394.5  | 393.3  | 392.1  | 390.9  | 389.6  | 387.8  | 385.2  | 382.7  | 380.1  | 377.6  | 375.1  |
| 70°    | 353.5  | 351.7  | 349.8  | 348.0  | 346.1  | 344.1  | 342.1  | 339.9  | 337.9  | 335.7  | 333.6  |
| 72.5°  | 309.8  | 307.9  | 306.1  | 304.2  | 302.4  | 300.6  | 298.9  | 297.2  | 295.5  | 293.8  | 292.1  |
| 75°    | 245.2  | 243.9  | 242.5  | 241.3  | 240.0  | 238.6  | 237.3  | 236.0  | 234.6  | 233.3  | 232.3  |
| 77.5°  | 183.6  | 183.0  | 182.4  | 181.8  | 181.2  | 180.4  | 179.2  | 178.1  | 176.8  | 175.7  | 175.4  |
| 80°    | 146.5  | 145.6  | 144.8  | 144.0  | 143.3  | 142.6  | 142.1  | 141.5  | 141.0  | 140.4  | 139.9  |
| 82.5°  | 110.2  | 109.9  | 109.5  | 109.1  | 108.7  | 108.5  | 108.4  | 108.3  | 108.2  | 108.1  | 107.8  |
| 85°    | 64.3   | 64.3   | 64.3   | 64.3   | 64.3   | 64.1   | 63.5   | 62.9   | 62.4   | 61.9   | 61.9   |
| 87.5°  | 25.4   | 25.7   | 25.9   | 26.2   | 26.4   | 26.7   | 26.9   | 26.9   | 27.1   | 27.3   | 27.6   |
| 90°    | 3.0    | 5.4    | 7.9    | 10.3   | 12.7   | 14.9   | 16.7   | 18.4   | 20.2   | 22.0   | 23.3   |
| 92.5°  | 12.6   | 12.7   | 12.9   | 13.0   | 13.2   | 14.1   | 15.8   | 17.7   | 19.5   | 21.2   | 22.6   |
| 95°    | 55.0   | 47.4   | 39.9   | 32.4   | 24.8   | 21.1   | 21.4   | 21.5   | 21.8   | 22.0   | 23.3   |
| 97.5°  | 116.8  | 121.6  | 126.3  | 131.0  | 135.7  | 125.6  | 100.8  | 76.0   | 51.2   | 26.4   | 26.5   |
| 100°   | 164.1  | 168.1  | 172.1  | 176.1  | 180.1  | 166.8  | 136.0  | 105.4  | 74.7   | 44.0   | 40.2   |
| 102.5° | 216.9  | 219.8  | 222.7  | 225.7  | 228.6  | 228.1  | 224.1  | 220.1  | 216.1  | 212.1  | 171.3  |
| 105°   | 301.1  | 302.5  | 303.8  | 305.1  | 306.4  | 307.7  | 308.8  | 309.9  | 311.0  | 312.1  | 314.2  |
| 107.5° | 379.4  | 380.0  | 380.7  | 381.3  | 382.0  | 383.1  | 384.6  | 386.2  | 387.6  | 389.2  | 390.1  |
| 110°   | 432.2  | 432.8  | 433.5  | 434.2  | 434.9  | 435.8  | 437.2  | 438.5  | 439.9  | 441.2  | 441.6  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 483.5  | 484.7  | 485.8  | 487.0  | 488.2  | 489.1  | 489.7  | 490.3  | 491.0  | 491.6  | 491.5  |
| 115°   | 562.2  | 562.9  | 563.6  | 564.2  | 564.9  | 565.2  | 564.9  | 564.7  | 564.5  | 564.2  | 564.7  |
| 117.5° | 633.3  | 634.1  | 635.1  | 635.9  | 636.8  | 637.5  | 638.0  | 638.5  | 639.0  | 639.5  | 639.4  |
| 120°   | 681.3  | 682.2  | 683.1  | 684.0  | 684.8  | 685.2  | 685.0  | 684.8  | 684.5  | 684.3  | 684.8  |
| 122.5° | 726.1  | 726.7  | 727.2  | 727.7  | 728.2  | 728.7  | 729.0  | 729.3  | 729.6  | 730.0  | 730.2  |
| 125°   | 790.3  | 791.3  | 792.1  | 793.0  | 793.9  | 794.1  | 793.7  | 793.2  | 792.8  | 792.4  | 793.0  |
| 127.5° | 851.2  | 851.4  | 851.6  | 851.9  | 852.0  | 852.6  | 853.7  | 854.7  | 855.7  | 856.8  | 856.6  |
| 130°   | 890.4  | 890.6  | 890.9  | 891.0  | 891.3  | 891.7  | 892.4  | 893.0  | 893.7  | 894.4  | 894.6  |
| 132.5° | 926.4  | 926.8  | 927.2  | 927.6  | 928.0  | 928.7  | 929.4  | 930.3  | 931.2  | 932.0  | 932.2  |
| 135°   | 980.4  | 980.2  | 980.0  | 979.7  | 979.6  | 979.9  | 980.8  | 981.6  | 982.6  | 983.4  | 983.9  |
| 137.5° | 1028.3 | 1028.4 | 1028.5 | 1028.6 | 1028.6 | 1029.2 | 1030.1 | 1031.1 | 1032.1 | 1033.0 | 1033.5 |
| 140°   | 1059.5 | 1059.9 | 1060.3 | 1060.8 | 1061.3 | 1061.7 | 1062.1 | 1062.6 | 1063.0 | 1063.5 | 1064.1 |
| 142.5° | 1087.4 | 1088.3 | 1089.1 | 1089.9 | 1090.7 | 1091.2 | 1091.5 | 1091.7 | 1092.0 | 1092.3 | 1092.8 |
| 145°   | 1130.5 | 1131.2 | 1131.9 | 1132.5 | 1133.2 | 1133.5 | 1133.5 | 1133.5 | 1133.5 | 1133.5 | 1133.8 |
| 147.5° | 1164.7 | 1166.0 | 1167.2 | 1168.5 | 1169.7 | 1170.2 | 1170.0 | 1169.8 | 1169.5 | 1169.3 | 1169.5 |
| 150°   | 1189.6 | 1190.4 | 1191.3 | 1192.2 | 1193.1 | 1193.4 | 1193.2 | 1193.0 | 1192.7 | 1192.5 | 1192.5 |
| 152.5° | 1210.3 | 1211.1 | 1211.8 | 1212.5 | 1213.1 | 1213.3 | 1213.0 | 1212.5 | 1212.1 | 1211.8 | 1212.1 |
| 155°   | 1239.6 | 1239.8 | 1240.0 | 1240.2 | 1240.4 | 1240.2 | 1239.6 | 1238.9 | 1238.2 | 1237.5 | 1238.5 |
| 157.5° | 1264.1 | 1264.0 | 1263.9 | 1263.8 | 1263.6 | 1263.2 | 1262.4 | 1261.7 | 1260.9 | 1260.2 | 1261.3 |
| 160°   | 1278.6 | 1277.9 | 1277.2 | 1276.6 | 1275.9 | 1275.5 | 1275.2 | 1275.0 | 1274.8 | 1274.5 | 1275.9 |
| 162.5° | 1291.3 | 1290.6 | 1289.7 | 1288.8 | 1288.0 | 1287.5 | 1287.2 | 1287.0 | 1286.8 | 1286.6 | 1287.9 |
| 165°   | 1307.6 | 1306.5 | 1305.4 | 1304.2 | 1303.1 | 1302.6 | 1302.6 | 1302.6 | 1302.6 | 1302.6 | 1304.3 |
| 167.5° | 1320.3 | 1319.2 | 1318.1 | 1316.9 | 1315.8 | 1315.1 | 1315.0 | 1314.8 | 1314.7 | 1314.6 | 1316.6 |
| 170°   | 1327.6 | 1326.3 | 1324.9 | 1323.6 | 1322.2 | 1321.7 | 1321.9 | 1322.2 | 1322.3 | 1322.6 | 1324.4 |
| 172.5° | 1332.4 | 1331.0 | 1329.7 | 1328.4 | 1327.1 | 1326.5 | 1326.7 | 1327.0 | 1327.1 | 1327.4 | 1329.1 |
| 175°   | 1337.6 | 1336.3 | 1334.9 | 1333.6 | 1332.2 | 1331.7 | 1331.9 | 1332.1 | 1332.4 | 1332.6 | 1334.6 |
| 177.5° | 1340.0 | 1338.8 | 1337.5 | 1336.3 | 1335.0 | 1334.6 | 1334.9 | 1335.2 | 1335.7 | 1336.0 | 1337.4 |
| 180°   | 1337.6 | 1337.6 | 1337.6 | 1337.6 | 1337.6 | 1337.6 | 1337.6 | 1337.6 | 1337.6 | 1337.6 | 1337.6 |



TEST NUMBER: P332667-935

CATALOG NUMBER: SA4XXDIP-C1020D1205U935-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1485.7 | 1485.7 | 1485.7 | 1485.7 | 1485.7 | 1485.7 | 1485.7 | 1485.7 |
| 2.5°   | 1480.3 | 1482.5 | 1484.6 | 1485.6 | 1485.3 | 1485.1 | 1484.9 | 1484.7 |
| 5°     | 1472.4 | 1475.3 | 1478.3 | 1479.5 | 1478.9 | 1478.3 | 1477.8 | 1477.3 |
| 7.5°   | 1456.0 | 1458.4 | 1460.7 | 1461.7 | 1461.4 | 1461.0 | 1460.7 | 1460.4 |
| 10°    | 1442.3 | 1444.4 | 1446.5 | 1447.3 | 1446.7 | 1446.2 | 1445.7 | 1445.2 |
| 12.5°  | 1425.6 | 1427.9 | 1430.2 | 1431.0 | 1430.3 | 1429.5 | 1428.7 | 1428.1 |
| 15°    | 1393.6 | 1395.2 | 1396.8 | 1397.1 | 1396.4 | 1395.6 | 1394.8 | 1394.0 |
| 17.5°  | 1357.2 | 1358.2 | 1359.2 | 1359.4 | 1358.9 | 1358.4 | 1357.9 | 1357.3 |
| 20°    | 1330.1 | 1330.9 | 1331.7 | 1331.8 | 1331.3 | 1330.8 | 1330.2 | 1329.7 |
| 22.5°  | 1301.8 | 1303.3 | 1304.7 | 1304.9 | 1304.0 | 1303.0 | 1302.1 | 1301.1 |
| 25°    | 1255.3 | 1255.5 | 1255.8 | 1255.3 | 1254.3 | 1253.3 | 1252.2 | 1251.1 |
| 27.5°  | 1203.0 | 1202.3 | 1201.7 | 1200.8 | 1199.4 | 1198.1 | 1196.7 | 1195.4 |
| 30°    | 1166.9 | 1165.8 | 1164.8 | 1163.6 | 1162.3 | 1160.9 | 1159.6 | 1158.3 |
| 32.5°  | 1130.2 | 1129.0 | 1127.7 | 1126.4 | 1125.1 | 1123.8 | 1122.5 | 1121.1 |
| 35°    | 1072.5 | 1070.6 | 1068.8 | 1067.1 | 1065.8 | 1064.5 | 1063.2 | 1061.9 |
| 37.5°  | 1011.8 | 1009.9 | 1007.9 | 1006.0 | 1004.3 | 1002.5 | 1000.7 | 999.0  |
| 40°    | 969.7  | 967.0  | 964.4  | 962.4  | 961.0  | 959.8  | 958.5  | 957.1  |
| 42.5°  | 928.8  | 925.7  | 922.6  | 920.7  | 919.8  | 918.9  | 918.0  | 917.1  |
| 45°    | 865.6  | 862.6  | 859.7  | 857.9  | 857.1  | 856.4  | 855.5  | 854.7  |
| 47.5°  | 804.3  | 801.1  | 797.8  | 795.1  | 793.2  | 791.1  | 789.1  | 787.1  |
| 50°    | 761.6  | 757.9  | 754.2  | 751.6  | 749.9  | 748.4  | 746.8  | 745.2  |
| 52.5°  | 717.7  | 714.4  | 711.1  | 708.5  | 706.5  | 704.5  | 702.5  | 700.4  |
| 55°    | 653.2  | 650.0  | 646.8  | 644.5  | 642.8  | 641.3  | 639.6  | 638.1  |
| 57.5°  | 588.5  | 585.5  | 582.5  | 580.1  | 578.6  | 577.1  | 575.6  | 574.0  |
| 60°    | 544.1  | 541.7  | 539.2  | 537.4  | 536.1  | 534.8  | 533.5  | 532.1  |
| 62.5°  | 500.7  | 498.4  | 496.3  | 494.6  | 493.3  | 491.9  | 490.6  | 489.3  |
| 65°    | 437.6  | 434.9  | 432.2  | 430.2  | 429.0  | 427.7  | 426.3  | 425.0  |
| 67.5°  | 372.6  | 370.0  | 367.5  | 366.0  | 365.6  | 365.2  | 364.9  | 364.5  |
| 70°    | 331.5  | 329.3  | 327.3  | 325.8  | 325.0  | 324.2  | 323.4  | 322.6  |
| 72.5°  | 290.4  | 288.7  | 287.1  | 285.8  | 285.0  | 284.2  | 283.4  | 282.6  |
| 75°    | 231.2  | 230.1  | 229.1  | 228.4  | 228.2  | 227.9  | 227.6  | 227.4  |
| 77.5°  | 175.0  | 174.8  | 174.4  | 173.9  | 173.2  | 172.5  | 171.9  | 171.2  |
| 80°    | 139.4  | 138.9  | 138.4  | 137.9  | 137.7  | 137.4  | 137.2  | 136.9  |
| 82.5°  | 107.5  | 107.1  | 106.9  | 106.5  | 106.2  | 106.0  | 105.7  | 105.5  |
| 85°    | 61.9   | 61.9   | 61.9   | 61.7   | 61.5   | 61.2   | 61.0   | 60.7   |
| 87.5°  | 27.8   | 28.1   | 28.3   | 28.5   | 28.6   | 28.7   | 28.8   | 28.8   |
| 90°    | 24.7   | 26.0   | 27.4   | 28.2   | 28.7   | 29.1   | 29.5   | 30.0   |
| 92.5°  | 23.8   | 25.2   | 26.5   | 27.3   | 27.4   | 27.5   | 27.6   | 27.6   |
| 95°    | 24.7   | 26.0   | 27.4   | 28.2   | 28.3   | 28.6   | 28.8   | 29.0   |
| 97.5°  | 26.7   | 26.8   | 26.9   | 27.1   | 27.4   | 27.6   | 27.8   | 28.0   |
| 100°   | 36.4   | 32.7   | 28.9   | 27.1   | 27.4   | 27.6   | 27.8   | 28.0   |
| 102.5° | 130.5  | 89.8   | 49.0   | 28.7   | 28.7   | 28.8   | 28.8   | 28.8   |
| 105°   | 316.2  | 318.1  | 320.1  | 317.1  | 309.1  | 301.1  | 293.2  | 285.2  |
| 107.5° | 391.2  | 392.1  | 393.0  | 394.0  | 394.9  | 395.7  | 396.5  | 397.4  |
| 110°   | 442.1  | 442.6  | 443.0  | 443.5  | 444.2  | 444.9  | 445.6  | 446.2  |





TEST NUMBER: P332667-935

CATALOG NUMBER: SA4XXDIP-C1020D1205U935-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 491.5  | 491.4  | 491.3  | 491.6  | 492.5  | 493.4  | 494.2  | 495.0  |
| 115°   | 565.2  | 565.6  | 566.0  | 566.3  | 566.3  | 566.3  | 566.3  | 566.3  |
| 117.5° | 639.3  | 639.2  | 639.1  | 639.0  | 638.9  | 638.9  | 638.8  | 638.7  |
| 120°   | 685.2  | 685.6  | 686.0  | 686.0  | 685.6  | 685.2  | 684.8  | 684.3  |
| 122.5° | 730.5  | 730.7  | 731.0  | 730.9  | 730.5  | 730.0  | 729.5  | 729.1  |
| 125°   | 793.7  | 794.4  | 795.0  | 795.5  | 795.7  | 795.9  | 796.2  | 796.3  |
| 127.5° | 856.5  | 856.4  | 856.3  | 856.1  | 855.9  | 855.7  | 855.6  | 855.4  |
| 130°   | 894.8  | 895.1  | 895.3  | 895.4  | 895.4  | 895.4  | 895.4  | 895.4  |
| 132.5° | 932.5  | 932.7  | 932.9  | 932.9  | 932.7  | 932.5  | 932.4  | 932.2  |
| 135°   | 984.3  | 984.7  | 985.2  | 985.7  | 986.1  | 986.5  | 987.0  | 987.4  |
| 137.5° | 1034.1 | 1034.5 | 1035.0 | 1035.2 | 1035.1 | 1034.9 | 1034.7 | 1034.7 |
| 140°   | 1064.8 | 1065.5 | 1066.2 | 1066.6 | 1066.8 | 1067.0 | 1067.2 | 1067.5 |
| 142.5° | 1093.3 | 1093.7 | 1094.2 | 1094.5 | 1094.6 | 1094.6 | 1094.7 | 1094.7 |
| 145°   | 1133.9 | 1134.2 | 1134.4 | 1134.7 | 1135.1 | 1135.6 | 1136.1 | 1136.5 |
| 147.5° | 1169.7 | 1169.8 | 1170.0 | 1170.2 | 1170.4 | 1170.7 | 1170.9 | 1171.1 |
| 150°   | 1192.5 | 1192.5 | 1192.5 | 1192.7 | 1192.8 | 1193.1 | 1193.3 | 1193.5 |
| 152.5° | 1212.5 | 1212.8 | 1213.1 | 1213.2 | 1213.1 | 1213.0 | 1212.9 | 1212.7 |
| 155°   | 1239.3 | 1240.2 | 1241.1 | 1241.2 | 1240.5 | 1239.8 | 1239.2 | 1238.5 |
| 157.5° | 1262.5 | 1263.6 | 1264.8 | 1264.8 | 1263.6 | 1262.5 | 1261.3 | 1260.2 |
| 160°   | 1277.2 | 1278.6 | 1279.9 | 1279.9 | 1278.6 | 1277.2 | 1275.9 | 1274.5 |
| 162.5° | 1289.3 | 1290.6 | 1291.9 | 1291.8 | 1290.3 | 1288.8 | 1287.3 | 1285.7 |
| 165°   | 1306.1 | 1307.9 | 1309.7 | 1309.6 | 1307.6 | 1305.5 | 1303.6 | 1301.6 |
| 167.5° | 1318.5 | 1320.4 | 1322.4 | 1322.2 | 1320.1 | 1317.8 | 1315.6 | 1313.4 |
| 170°   | 1326.1 | 1327.9 | 1329.7 | 1329.5 | 1327.2 | 1325.0 | 1322.8 | 1320.6 |
| 172.5° | 1330.9 | 1332.7 | 1334.5 | 1334.2 | 1331.8 | 1329.4 | 1327.0 | 1324.6 |
| 175°   | 1336.6 | 1338.6 | 1340.6 | 1340.2 | 1337.6 | 1334.9 | 1332.2 | 1329.6 |
| 177.5° | 1338.9 | 1340.2 | 1341.7 | 1341.4 | 1339.2 | 1337.0 | 1334.9 | 1332.8 |
| 180°   | 1337.6 | 1337.6 | 1337.6 | 1337.6 | 1337.6 | 1337.6 | 1337.6 | 1337.6 |

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