

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: P332714-927

Luminaire Tested: **SA4XXDIP-C1195D1205U927-4F0-1E-UDD-F4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332714-927  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA4XXDIP-C1195D1205U927-4F0-1E-UDD-F4  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
UPLIGHT 1205 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7461.4 lumens  
Efficiency: N/A  
Efficacy: 104.1 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

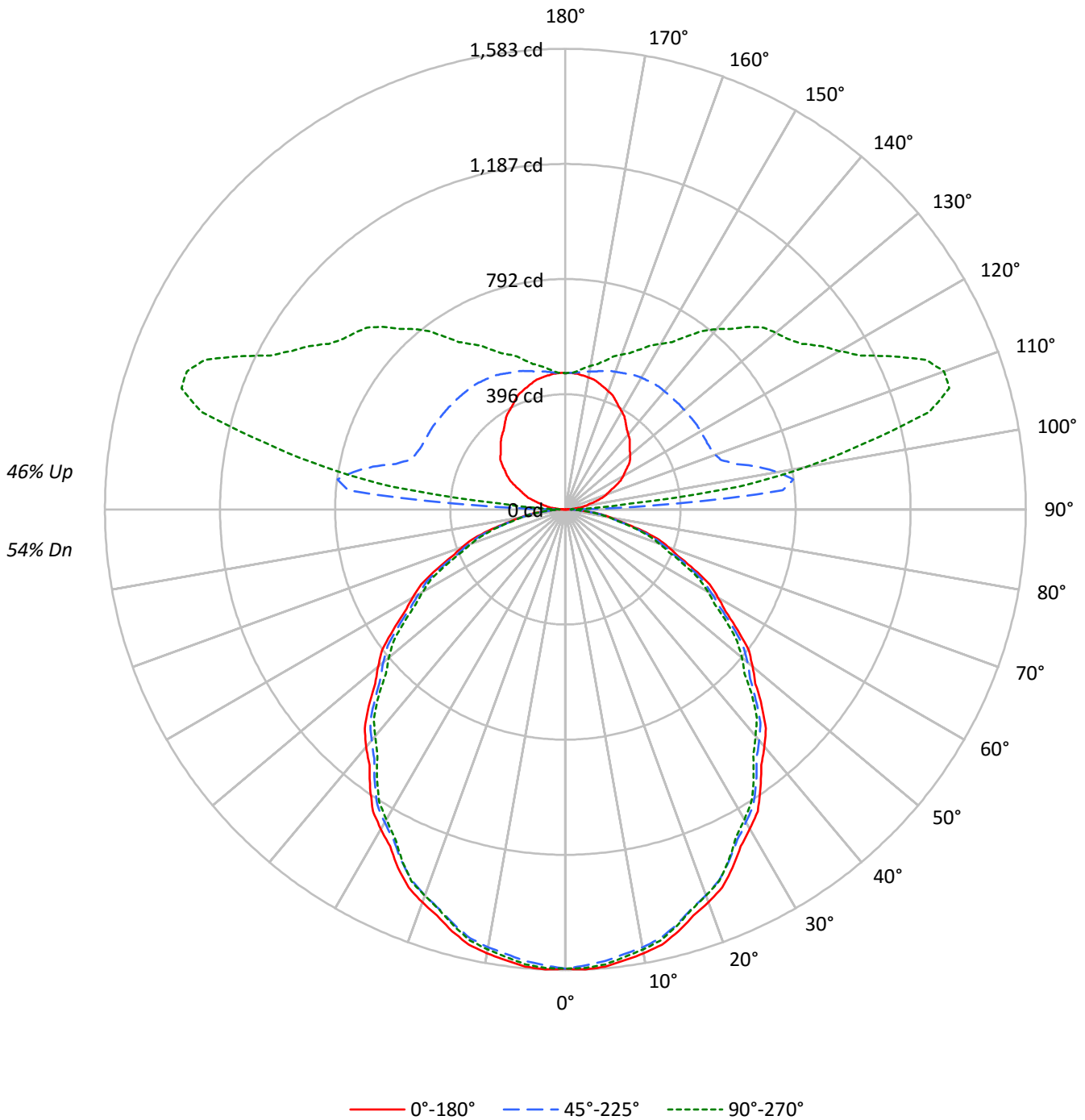
Input Watts (W): 71.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332714-927

CATALOG NUMBER: SA4XXDIP-C1195D1205U927-4F0-1E-UDD-F4

### Luminous Intensity Polar Plot





TEST NUMBER: P332714-927

CATALOG NUMBER: SA4XXDIP-C1195D1205U927-4F0-1E-UDD-F4

**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 | 86 | 86 | 86 | 72 | 72 | 72 | 60 | 60 | 60 | 54 |    |    |    |   |
| 1   | 99  | 94  | 90  | 87  | 91  | 88  | 84  | 81  | 75 | 73 | 70 | 64 | 62 | 60 | 53 | 52 | 51 | 46 |    |    |    |   |
| 2   | 90  | 82  | 76  | 71  | 83  | 77  | 71  | 67  | 66 | 62 | 58 | 56 | 53 | 50 | 47 | 45 | 43 | 38 |    |    |    |   |
| 3   | 82  | 72  | 65  | 59  | 76  | 67  | 61  | 56  | 58 | 53 | 49 | 49 | 46 | 43 | 41 | 39 | 36 | 32 |    |    |    |   |
| 4   | 75  | 64  | 56  | 50  | 69  | 60  | 53  | 47  | 52 | 46 | 42 | 44 | 40 | 36 | 37 | 34 | 31 | 28 |    |    |    |   |
| 5   | 69  | 57  | 49  | 43  | 64  | 53  | 46  | 41  | 46 | 40 | 36 | 40 | 35 | 32 | 33 | 30 | 27 | 24 |    |    |    |   |
| 6   | 63  | 51  | 43  | 37  | 59  | 48  | 41  | 35  | 42 | 36 | 31 | 36 | 31 | 28 | 30 | 27 | 24 | 21 |    |    |    |   |
| 7   | 59  | 46  | 38  | 33  | 54  | 43  | 36  | 31  | 38 | 32 | 28 | 33 | 28 | 25 | 28 | 24 | 21 | 19 |    |    |    |   |
| 8   | 55  | 42  | 34  | 29  | 50  | 39  | 32  | 27  | 34 | 29 | 25 | 30 | 25 | 22 | 25 | 22 | 19 | 17 |    |    |    |   |
| 9   | 51  | 38  | 31  | 26  | 47  | 36  | 29  | 25  | 32 | 26 | 22 | 27 | 23 | 20 | 23 | 20 | 17 | 15 |    |    |    |   |
| 10  | 47  | 35  | 28  | 23  | 44  | 33  | 27  | 22  | 29 | 24 | 20 | 25 | 21 | 18 | 22 | 18 | 16 | 14 |    |    |    |   |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 12745 | 12745 | 12745 |
| 5°  | 12783 | 12630 | 12721 |
| 10° | 12703 | 12527 | 12588 |
| 15° | 12549 | 12349 | 12380 |
| 20° | 12345 | 12128 | 12138 |
| 25° | 12113 | 11875 | 11843 |
| 30° | 11828 | 11580 | 11473 |
| 35° | 11532 | 11269 | 11121 |
| 40° | 11225 | 10918 | 10718 |
| 45° | 10904 | 10572 | 10369 |
| 50° | 10550 | 10262 | 9946  |
| 55° | 10166 | 9864  | 9543  |
| 60° | 9783  | 9415  | 9131  |
| 65° | 9352  | 8990  | 8627  |
| 70° | 8868  | 8419  | 8091  |
| 75° | 8125  | 7735  | 7536  |
| 80° | 7234  | 6936  | 6760  |
| 85° | 6326  | 6095  | 5974  |



TEST NUMBER: P332714-927

CATALOG NUMBER: SA4XXDIP-C1195D1205U927-4F0-1E-UDD-F4

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 148.7  | 2.0       |
| 10°-20°   | 418.9  | 5.6       |
| 20°-30°   | 616.5  | 8.3       |
| 30°-40°   | 716.7  | 9.6       |
| 40°-50°   | 716.8  | 9.6       |
| 50°-60°   | 627.0  | 8.4       |
| 60°-70°   | 465.6  | 6.2       |
| 70°-80°   | 264.5  | 3.5       |
| 80°-90°   | 78.9   | 1.1       |
| 90°-100°  | 338.4  | 4.5       |
| 100°-110° | 704.3  | 9.4       |
| 110°-120° | 630.9  | 8.5       |
| 120°-130° | 530.7  | 7.1       |
| 130°-140° | 442.5  | 5.9       |
| 140°-150° | 338.0  | 4.5       |
| 150°-160° | 237.6  | 3.2       |
| 160°-170° | 139.8  | 1.9       |
| 170°-180° | 45.5   | 0.6       |
| 0°-30°    | 1184.1 | 15.9      |
| 0°-40°    | 1900.8 | 25.5      |
| 0°-60°    | 3244.6 | 43.5      |
| 0°-90°    | 4053.7 | 54.3      |
| 90°-120°  | 1673.6 | 22.4      |
| 90°-150°  | 2984.8 | 40.0      |
| 90°-180°  | 3408.0 | 45.7      |
| 0°-180°   | 7461.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1579 | 1579  | 1579 | 1579  | 1579 |      |
| 5°   | 1577 | 1572  | 1558 | 1571  | 1570 | 150  |
| 15°  | 1502 | 1496  | 1478 | 1484  | 1481 | 423  |
| 25°  | 1360 | 1350  | 1333 | 1334  | 1330 | 625  |
| 35°  | 1170 | 1161  | 1144 | 1135  | 1128 | 731  |
| 45°  | 955  | 946   | 926  | 913   | 908  | 736  |
| 55°  | 722  | 718   | 701  | 686   | 678  | 647  |
| 65°  | 490  | 483   | 471  | 458   | 452  | 485  |
| 75°  | 260  | 254   | 248  | 243   | 242  | 277  |
| 85°  | 68   | 68    | 66   | 66    | 64   | 75   |
| 90°  | 1    | 7     | 17   | 18    | 19   | 5    |
| 95°  | 30   | 96    | 750  | 371   | 225  | 34   |
| 105° | 108  | 156   | 604  | 1300  | 1295 | 115  |
| 115° | 190  | 238   | 538  | 1035  | 1244 | 188  |
| 125° | 264  | 314   | 536  | 880   | 992  | 235  |
| 135° | 314  | 374   | 531  | 782   | 887  | 243  |
| 145° | 362  | 414   | 528  | 659   | 724  | 227  |
| 155° | 412  | 444   | 514  | 582   | 607  | 190  |
| 165° | 448  | 462   | 492  | 522   | 529  | 127  |
| 175° | 468  | 469   | 472  | 479   | 477  | 44   |
| 180° | 469  | 469   | 469  | 469   | 469  |      |



TEST NUMBER: P332714-927

CATALOG NUMBER: SA4XXDIP-C1195D1205U927-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1578.7 | 1578.7 | 1578.7 | 1578.7 | 1578.7 | 1578.7 | 1578.7 | 1578.7 | 1578.7 | 1578.7 | 1578.7 |
| 2.5°   | 1582.7 | 1582.1 | 1581.4 | 1580.7 | 1580.0 | 1578.4 | 1576.0 | 1573.5 | 1571.1 | 1568.6 | 1570.8 |
| 5°     | 1577.4 | 1576.3 | 1575.2 | 1574.1 | 1573.0 | 1570.8 | 1567.7 | 1564.6 | 1561.5 | 1558.5 | 1561.5 |
| 7.5°   | 1562.7 | 1561.6 | 1560.5 | 1559.3 | 1558.2 | 1556.0 | 1552.5 | 1549.1 | 1545.7 | 1542.2 | 1544.8 |
| 10°    | 1549.6 | 1548.5 | 1547.4 | 1546.2 | 1545.1 | 1542.7 | 1539.1 | 1535.4 | 1531.8 | 1528.1 | 1530.3 |
| 12.5°  | 1532.4 | 1531.3 | 1530.1 | 1529.0 | 1527.9 | 1525.3 | 1521.5 | 1517.7 | 1513.8 | 1509.9 | 1512.4 |
| 15°    | 1501.5 | 1500.4 | 1499.3 | 1498.2 | 1497.0 | 1494.4 | 1490.1 | 1485.9 | 1481.7 | 1477.5 | 1479.2 |
| 17.5°  | 1464.3 | 1462.9 | 1461.5 | 1460.2 | 1458.7 | 1456.0 | 1452.0 | 1448.0 | 1444.1 | 1440.0 | 1441.1 |
| 20°    | 1437.0 | 1435.6 | 1434.2 | 1432.8 | 1431.4 | 1428.5 | 1424.3 | 1420.1 | 1415.9 | 1411.7 | 1412.5 |
| 22.5°  | 1407.6 | 1405.8 | 1404.0 | 1402.1 | 1400.3 | 1397.2 | 1393.0 | 1388.8 | 1384.6 | 1380.3 | 1381.9 |
| 25°    | 1359.9 | 1357.9 | 1355.9 | 1353.9 | 1351.9 | 1349.0 | 1345.0 | 1341.2 | 1337.2 | 1333.2 | 1333.6 |
| 27.5°  | 1305.2 | 1303.1 | 1301.2 | 1299.1 | 1297.1 | 1294.3 | 1290.6 | 1287.0 | 1283.3 | 1279.6 | 1279.0 |
| 30°    | 1268.8 | 1266.5 | 1264.2 | 1262.0 | 1259.8 | 1256.8 | 1253.2 | 1249.5 | 1245.9 | 1242.2 | 1241.1 |
| 32.5°  | 1230.3 | 1228.3 | 1226.3 | 1224.2 | 1222.2 | 1219.2 | 1215.4 | 1211.5 | 1207.6 | 1203.7 | 1202.4 |
| 35°    | 1170.1 | 1168.2 | 1166.2 | 1164.2 | 1162.2 | 1159.3 | 1155.3 | 1151.4 | 1147.5 | 1143.5 | 1141.5 |
| 37.5°  | 1106.6 | 1104.8 | 1103.0 | 1101.2 | 1099.4 | 1096.4 | 1092.2 | 1088.0 | 1083.7 | 1079.5 | 1077.4 |
| 40°    | 1065.1 | 1062.9 | 1060.6 | 1058.4 | 1056.1 | 1052.9 | 1048.7 | 1044.4 | 1040.2 | 1036.0 | 1033.2 |
| 42.5°  | 1020.6 | 1019.2 | 1017.9 | 1016.5 | 1015.2 | 1012.2 | 1007.5 | 1002.8 | 998.1  | 993.5  | 990.2  |
| 45°    | 955.1  | 953.1  | 951.1  | 949.1  | 947.2  | 944.0  | 939.4  | 934.9  | 930.4  | 926.0  | 922.9  |
| 47.5°  | 886.5  | 885.1  | 883.8  | 882.4  | 881.1  | 878.4  | 874.2  | 870.1  | 865.9  | 861.7  | 858.3  |
| 50°    | 840.0  | 838.8  | 837.7  | 836.5  | 835.4  | 832.9  | 828.9  | 825.1  | 821.1  | 817.1  | 813.3  |
| 52.5°  | 794.4  | 793.1  | 791.7  | 790.4  | 789.0  | 786.2  | 782.1  | 777.9  | 773.8  | 769.6  | 766.1  |
| 55°    | 722.3  | 721.4  | 720.6  | 719.8  | 718.9  | 716.5  | 712.6  | 708.7  | 704.7  | 700.8  | 697.4  |
| 57.5°  | 653.5  | 652.5  | 651.6  | 650.6  | 649.7  | 647.2  | 643.3  | 639.4  | 635.6  | 631.7  | 628.5  |
| 60°    | 605.9  | 604.5  | 603.1  | 601.7  | 600.3  | 597.8  | 594.1  | 590.5  | 586.8  | 583.1  | 580.6  |
| 62.5°  | 559.4  | 558.2  | 557.0  | 555.8  | 554.7  | 552.2  | 548.3  | 544.4  | 540.5  | 536.6  | 534.3  |
| 65°    | 489.6  | 488.1  | 486.7  | 485.3  | 483.9  | 481.8  | 479.0  | 476.2  | 473.4  | 470.6  | 467.8  |
| 67.5°  | 419.2  | 418.0  | 416.6  | 415.3  | 414.1  | 412.0  | 409.3  | 406.6  | 403.9  | 401.2  | 398.5  |
| 70°    | 375.7  | 373.8  | 371.8  | 369.8  | 367.8  | 365.8  | 363.5  | 361.2  | 358.9  | 356.7  | 354.5  |
| 72.5°  | 329.2  | 327.2  | 325.2  | 323.2  | 321.3  | 319.4  | 317.6  | 315.8  | 314.0  | 312.2  | 310.4  |
| 75°    | 260.5  | 259.2  | 257.8  | 256.4  | 254.9  | 253.6  | 252.2  | 250.7  | 249.4  | 248.0  | 246.8  |
| 77.5°  | 195.0  | 194.4  | 193.8  | 193.2  | 192.6  | 191.6  | 190.4  | 189.2  | 188.0  | 186.7  | 186.4  |
| 80°    | 155.6  | 154.7  | 153.9  | 153.0  | 152.3  | 151.5  | 151.0  | 150.4  | 149.8  | 149.2  | 148.7  |
| 82.5°  | 117.2  | 116.8  | 116.4  | 116.0  | 115.6  | 115.3  | 115.2  | 115.1  | 114.9  | 114.9  | 114.5  |
| 85°    | 68.3   | 68.3   | 68.3   | 68.3   | 68.3   | 68.0   | 67.5   | 66.9   | 66.3   | 65.8   | 65.8   |
| 87.5°  | 26.5   | 26.6   | 26.9   | 26.9   | 26.9   | 26.7   | 27.6   | 27.3   | 27.5   | 27.6   | 27.4   |
| 90°    | 1.0    | 2.8    | 5.5    | 6.4    | 7.4    | 7.4    | 12.9   | 12.9   | 14.7   | 16.6   | 15.7   |
| 92.5°  | 10.5   | 15.3   | 23.9   | 35.2   | 48.6   | 67.7   | 114.5  | 185.9  | 255.6  | 292.0  | 243.2  |
| 95°    | 30.3   | 33.1   | 42.4   | 54.3   | 76.4   | 115.1  | 195.1  | 346.1  | 566.1  | 750.2  | 771.4  |
| 97.5°  | 54.5   | 54.5   | 62.4   | 73.4   | 92.4   | 124.8  | 186.5  | 311.2  | 529.8  | 790.2  | 969.2  |
| 100°   | 69.9   | 69.9   | 76.4   | 87.5   | 105.0  | 134.4  | 188.7  | 292.7  | 480.5  | 740.1  | 975.7  |
| 102.5° | 84.7   | 86.2   | 91.9   | 102.2  | 118.9  | 146.9  | 196.1  | 287.6  | 447.3  | 677.5  | 920.5  |
| 105°   | 107.7  | 110.4  | 115.1  | 126.1  | 142.7  | 169.4  | 213.6  | 289.9  | 418.8  | 603.9  | 820.1  |
| 107.5° | 133.1  | 134.9  | 139.6  | 151.3  | 167.2  | 193.5  | 234.0  | 303.6  | 413.7  | 562.6  | 739.2  |
| 110°   | 150.0  | 151.9  | 156.5  | 167.5  | 184.1  | 209.0  | 249.5  | 313.9  | 415.2  | 548.7  | 698.7  |



TEST NUMBER: P332714-927

CATALOG NUMBER: SA4XXDIP-C1195D1205U927-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 166.3 | 168.1 | 173.4 | 183.7 | 200.3 | 225.1 | 264.2 | 325.0 | 419.5 | 542.0 | 675.8 |
| 115°   | 189.6 | 192.4 | 198.8 | 208.0 | 225.5 | 250.4 | 287.2 | 342.5 | 428.0 | 538.5 | 654.5 |
| 117.5° | 213.9 | 216.5 | 222.2 | 232.3 | 248.7 | 274.5 | 309.5 | 360.3 | 437.0 | 537.6 | 644.9 |
| 120°   | 230.1 | 232.0 | 238.4 | 248.5 | 264.2 | 289.9 | 325.0 | 372.8 | 443.7 | 537.6 | 639.8 |
| 122.5° | 244.9 | 246.7 | 253.2 | 262.5 | 279.6 | 304.7 | 339.7 | 384.6 | 450.4 | 536.9 | 633.9 |
| 125°   | 264.2 | 267.8 | 273.4 | 283.5 | 301.0 | 326.8 | 359.9 | 402.3 | 460.3 | 535.8 | 624.1 |
| 127.5° | 281.3 | 284.2 | 290.9 | 302.5 | 320.7 | 346.7 | 378.7 | 417.6 | 468.2 | 533.7 | 611.0 |
| 130°   | 290.9 | 294.5 | 301.9 | 315.8 | 333.2 | 359.9 | 391.3 | 427.1 | 474.0 | 533.0 | 602.9 |
| 132.5° | 300.5 | 303.4 | 313.0 | 326.1 | 345.0 | 370.3 | 401.6 | 436.7 | 479.2 | 532.3 | 595.6 |
| 135°   | 313.9 | 317.6 | 326.8 | 342.5 | 361.8 | 385.7 | 416.1 | 449.2 | 487.0 | 531.2 | 584.6 |
| 137.5° | 327.3 | 330.8 | 341.0 | 355.8 | 376.0 | 398.8 | 427.1 | 458.0 | 491.5 | 530.9 | 575.0 |
| 140°   | 336.9 | 339.7 | 349.8 | 365.4 | 384.8 | 406.9 | 434.5 | 463.9 | 495.3 | 530.2 | 569.8 |
| 142.5° | 347.2 | 350.0 | 359.3 | 374.3 | 392.8 | 414.2 | 441.1 | 468.3 | 498.2 | 530.2 | 565.4 |
| 145°   | 361.8 | 364.6 | 373.8 | 386.6 | 404.1 | 424.4 | 448.3 | 473.2 | 499.9 | 528.4 | 557.9 |
| 147.5° | 378.1 | 379.1 | 387.1 | 400.4 | 414.9 | 433.2 | 455.7 | 477.4 | 500.7 | 525.1 | 551.0 |
| 150°   | 388.5 | 389.4 | 396.7 | 407.8 | 421.6 | 439.1 | 459.3 | 479.6 | 500.7 | 522.8 | 545.9 |
| 152.5° | 398.0 | 398.2 | 405.6 | 415.9 | 428.3 | 444.3 | 462.3 | 481.1 | 499.3 | 519.2 | 540.0 |
| 155°   | 411.5 | 412.4 | 417.9 | 427.1 | 437.3 | 451.1 | 466.7 | 482.4 | 497.1 | 513.7 | 531.2 |
| 157.5° | 424.5 | 424.5 | 429.7 | 436.9 | 445.7 | 456.6 | 469.8 | 482.4 | 494.7 | 507.9 | 522.1 |
| 160°   | 432.6 | 432.6 | 436.3 | 442.8 | 450.1 | 460.3 | 471.3 | 482.4 | 492.5 | 503.5 | 515.5 |
| 162.5° | 440.0 | 439.3 | 442.2 | 447.9 | 454.6 | 462.5 | 472.8 | 482.4 | 490.3 | 499.1 | 509.6 |
| 165°   | 448.3 | 448.3 | 450.1 | 454.7 | 459.3 | 464.9 | 473.2 | 480.5 | 486.0 | 492.5 | 499.9 |
| 167.5° | 456.6 | 455.7 | 456.6 | 460.1 | 462.6 | 466.9 | 472.9 | 478.3 | 481.6 | 485.8 | 491.0 |
| 170°   | 460.3 | 459.3 | 460.3 | 463.0 | 464.9 | 467.6 | 472.2 | 476.8 | 478.6 | 481.4 | 485.1 |
| 172.5° | 463.9 | 463.0 | 463.2 | 465.2 | 466.4 | 468.3 | 471.5 | 475.4 | 475.7 | 477.0 | 480.0 |
| 175°   | 467.6 | 466.7 | 466.7 | 467.6 | 468.6 | 468.6 | 470.4 | 473.2 | 472.2 | 472.2 | 474.0 |
| 177.5° | 469.3 | 468.6 | 467.8 | 468.6 | 468.6 | 468.6 | 469.3 | 470.7 | 469.3 | 469.3 | 470.0 |
| 180°   | 468.6 | 468.6 | 468.6 | 468.6 | 468.6 | 468.6 | 468.6 | 468.6 | 468.6 | 468.6 | 468.6 |



TEST NUMBER: P332714-927

CATALOG NUMBER: SA4XXDIP-C1195D1205U927-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1578.7 | 1578.7 | 1578.7 | 1578.7 | 1578.7 | 1578.7 | 1578.7 | 1578.7 |
| 2.5°   | 1573.0 | 1575.3 | 1577.6 | 1578.6 | 1578.3 | 1578.1 | 1577.9 | 1577.6 |
| 5°     | 1564.6 | 1567.7 | 1570.8 | 1572.1 | 1571.5 | 1571.0 | 1570.4 | 1569.8 |
| 7.5°   | 1547.2 | 1549.7 | 1552.1 | 1553.2 | 1552.9 | 1552.5 | 1552.2 | 1551.9 |
| 10°    | 1532.6 | 1534.9 | 1537.1 | 1537.9 | 1537.4 | 1536.8 | 1536.2 | 1535.6 |
| 12.5°  | 1514.8 | 1517.3 | 1519.8 | 1520.6 | 1519.8 | 1519.0 | 1518.2 | 1517.4 |
| 15°    | 1480.8 | 1482.6 | 1484.2 | 1484.6 | 1483.8 | 1483.0 | 1482.1 | 1481.3 |
| 17.5°  | 1442.2 | 1443.3 | 1444.3 | 1444.5 | 1444.0 | 1443.4 | 1442.9 | 1442.3 |
| 20°    | 1413.4 | 1414.2 | 1415.1 | 1415.2 | 1414.7 | 1414.1 | 1413.6 | 1412.9 |
| 22.5°  | 1383.4 | 1384.9 | 1386.4 | 1386.6 | 1385.7 | 1384.7 | 1383.6 | 1382.6 |
| 25°    | 1333.9 | 1334.1 | 1334.4 | 1334.0 | 1332.8 | 1331.7 | 1330.6 | 1329.5 |
| 27.5°  | 1278.3 | 1277.6 | 1276.9 | 1275.9 | 1274.5 | 1273.1 | 1271.7 | 1270.3 |
| 30°    | 1239.9 | 1238.8 | 1237.7 | 1236.4 | 1235.0 | 1233.7 | 1232.2 | 1230.8 |
| 32.5°  | 1201.0 | 1199.7 | 1198.3 | 1197.0 | 1195.6 | 1194.1 | 1192.8 | 1191.4 |
| 35°    | 1139.6 | 1137.7 | 1135.7 | 1134.0 | 1132.6 | 1131.2 | 1129.7 | 1128.4 |
| 37.5°  | 1075.2 | 1073.1 | 1071.0 | 1069.0 | 1067.1 | 1065.2 | 1063.4 | 1061.5 |
| 40°    | 1030.4 | 1027.5 | 1024.8 | 1022.6 | 1021.3 | 1019.9 | 1018.4 | 1017.0 |
| 42.5°  | 987.0  | 983.7  | 980.5  | 978.3  | 977.4  | 976.4  | 975.5  | 974.5  |
| 45°    | 919.8  | 916.7  | 913.6  | 911.6  | 910.8  | 909.9  | 909.1  | 908.2  |
| 47.5°  | 854.8  | 851.3  | 847.8  | 844.9  | 842.8  | 840.7  | 838.5  | 836.4  |
| 50°    | 809.3  | 805.3  | 801.5  | 798.6  | 796.9  | 795.3  | 793.5  | 791.9  |
| 52.5°  | 762.6  | 759.1  | 755.7  | 752.9  | 750.8  | 748.6  | 746.5  | 744.3  |
| 55°    | 694.0  | 690.7  | 687.3  | 684.8  | 683.1  | 681.4  | 679.7  | 678.0  |
| 57.5°  | 625.3  | 622.1  | 618.9  | 616.5  | 614.9  | 613.2  | 611.6  | 610.0  |
| 60°    | 578.1  | 575.6  | 573.1  | 571.1  | 569.7  | 568.2  | 566.9  | 565.5  |
| 62.5°  | 532.0  | 529.7  | 527.4  | 525.5  | 524.1  | 522.7  | 521.3  | 519.9  |
| 65°    | 464.9  | 462.2  | 459.3  | 457.2  | 455.8  | 454.4  | 453.0  | 451.6  |
| 67.5°  | 395.9  | 393.2  | 390.5  | 388.9  | 388.5  | 388.1  | 387.7  | 387.3  |
| 70°    | 352.2  | 350.0  | 347.7  | 346.2  | 345.3  | 344.5  | 343.6  | 342.8  |
| 72.5°  | 308.6  | 306.8  | 305.0  | 303.6  | 302.9  | 302.0  | 301.1  | 300.3  |
| 75°    | 245.7  | 244.5  | 243.4  | 242.7  | 242.5  | 242.2  | 241.9  | 241.6  |
| 77.5°  | 186.0  | 185.7  | 185.4  | 184.8  | 184.1  | 183.4  | 182.6  | 181.9  |
| 80°    | 148.1  | 147.6  | 147.0  | 146.6  | 146.3  | 146.0  | 145.8  | 145.4  |
| 82.5°  | 114.2  | 113.8  | 113.5  | 113.2  | 112.9  | 112.6  | 112.3  | 112.1  |
| 85°    | 65.8   | 65.8   | 65.8   | 65.7   | 65.4   | 65.0   | 64.8   | 64.5   |
| 87.5°  | 27.6   | 27.8   | 28.0   | 28.0   | 28.1   | 28.4   | 28.1   | 28.1   |
| 90°    | 16.6   | 17.5   | 18.4   | 18.4   | 19.3   | 20.3   | 19.3   | 19.3   |
| 92.5°  | 180.8  | 136.0  | 108.3  | 89.8   | 79.0   | 74.0   | 70.9   | 70.9   |
| 95°    | 682.1  | 539.4  | 416.1  | 326.8  | 281.7  | 253.2  | 236.5  | 224.6  |
| 97.5°  | 1007.8 | 954.7  | 864.7  | 768.7  | 702.5  | 647.1  | 619.5  | 600.4  |
| 100°   | 1110.2 | 1128.5 | 1083.5 | 1015.3 | 935.3  | 879.1  | 851.5  | 844.1  |
| 102.5° | 1105.0 | 1196.3 | 1209.3 | 1181.0 | 1131.9 | 1091.2 | 1062.1 | 1056.2 |
| 105°   | 1030.9 | 1190.3 | 1281.4 | 1319.1 | 1321.0 | 1313.6 | 1300.7 | 1295.1 |
| 107.5° | 925.8  | 1095.4 | 1223.8 | 1305.8 | 1351.3 | 1372.3 | 1381.5 | 1383.9 |
| 110°   | 862.5  | 1021.8 | 1155.2 | 1256.5 | 1321.8 | 1360.5 | 1377.1 | 1385.4 |





TEST NUMBER: P332714-927

CATALOG NUMBER: SA4XXDIP-C1195D1205U927-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|-------|-------|--------|--------|--------|--------|--------|--------|
| 112.5° | 816.1 | 957.0 | 1083.1 | 1184.3 | 1258.5 | 1305.3 | 1328.5 | 1342.0 |
| 115°   | 769.5 | 882.8 | 990.5  | 1078.9 | 1151.6 | 1206.8 | 1236.3 | 1243.6 |
| 117.5° | 746.7 | 840.4 | 925.1  | 1000.1 | 1062.1 | 1108.5 | 1138.3 | 1144.0 |
| 120°   | 736.4 | 822.0 | 895.6  | 961.0  | 1013.5 | 1054.0 | 1077.9 | 1088.1 |
| 122.5° | 727.5 | 810.2 | 877.3  | 934.5  | 978.9  | 1013.5 | 1033.7 | 1043.9 |
| 125°   | 712.5 | 791.6 | 855.2  | 905.8  | 942.6  | 969.3  | 986.8  | 992.3  |
| 127.5° | 694.0 | 769.8 | 833.1  | 881.1  | 918.1  | 941.9  | 956.6  | 962.1  |
| 130°   | 679.4 | 752.1 | 814.7  | 863.5  | 901.2  | 924.2  | 938.9  | 944.4  |
| 132.5° | 663.8 | 732.2 | 793.3  | 842.1  | 879.1  | 905.1  | 919.0  | 924.6  |
| 135°   | 642.5 | 702.3 | 758.5  | 804.5  | 841.4  | 867.1  | 881.9  | 887.4  |
| 137.5° | 623.2 | 673.8 | 721.1  | 762.7  | 797.2  | 822.6  | 834.7  | 841.4  |
| 140°   | 612.1 | 655.4 | 696.8  | 735.5  | 767.7  | 788.0  | 800.8  | 808.2  |
| 142.5° | 601.8 | 639.9 | 675.5  | 709.0  | 737.5  | 756.3  | 767.7  | 772.9  |
| 145°   | 587.3 | 618.6 | 646.2  | 672.0  | 695.0  | 710.7  | 719.9  | 724.5  |
| 147.5° | 575.4 | 600.2 | 622.3  | 642.5  | 659.5  | 672.9  | 679.9  | 681.5  |
| 150°   | 568.0 | 589.1 | 607.5  | 624.1  | 638.8  | 650.8  | 656.3  | 657.3  |
| 152.5° | 559.8 | 578.1 | 595.0  | 608.6  | 621.2  | 630.9  | 634.2  | 635.2  |
| 155°   | 547.7 | 562.4 | 576.2  | 587.3  | 596.5  | 603.9  | 606.7  | 606.7  |
| 157.5° | 534.6 | 547.0 | 558.6  | 567.4  | 574.4  | 580.0  | 581.6  | 581.6  |
| 160°   | 526.6 | 536.6 | 546.8  | 554.1  | 559.7  | 565.2  | 566.1  | 566.1  |
| 162.5° | 518.4 | 527.1 | 535.0  | 541.6  | 545.7  | 551.2  | 552.2  | 551.4  |
| 165°   | 507.2 | 512.7 | 519.2  | 523.8  | 527.4  | 531.2  | 530.2  | 529.3  |
| 167.5° | 496.4 | 500.6 | 505.7  | 508.5  | 510.3  | 512.7  | 512.5  | 511.8  |
| 170°   | 489.7 | 492.5 | 496.1  | 498.9  | 500.7  | 501.7  | 500.7  | 500.7  |
| 172.5° | 483.8 | 485.8 | 488.1  | 490.0  | 491.2  | 492.1  | 491.2  | 489.7  |
| 175°   | 475.9 | 476.8 | 478.6  | 478.6  | 478.6  | 480.5  | 478.6  | 476.8  |
| 177.5° | 470.7 | 471.5 | 471.5  | 472.2  | 471.5  | 472.2  | 470.7  | 469.3  |
| 180°   | 468.6 | 468.6 | 468.6  | 468.6  | 468.6  | 468.6  | 468.6  | 468.6  |

(END OF REPORT)