

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: P332713-930

Luminaire Tested: **SA4XXDIP-C1195D1205U930-4F0-1E-UDD-F1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332713-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-C1195D1205U930-4F0-1E-UDD-F1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 1205 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7571.0 lumens
Efficiency: N/A
Efficacy: 105.6 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

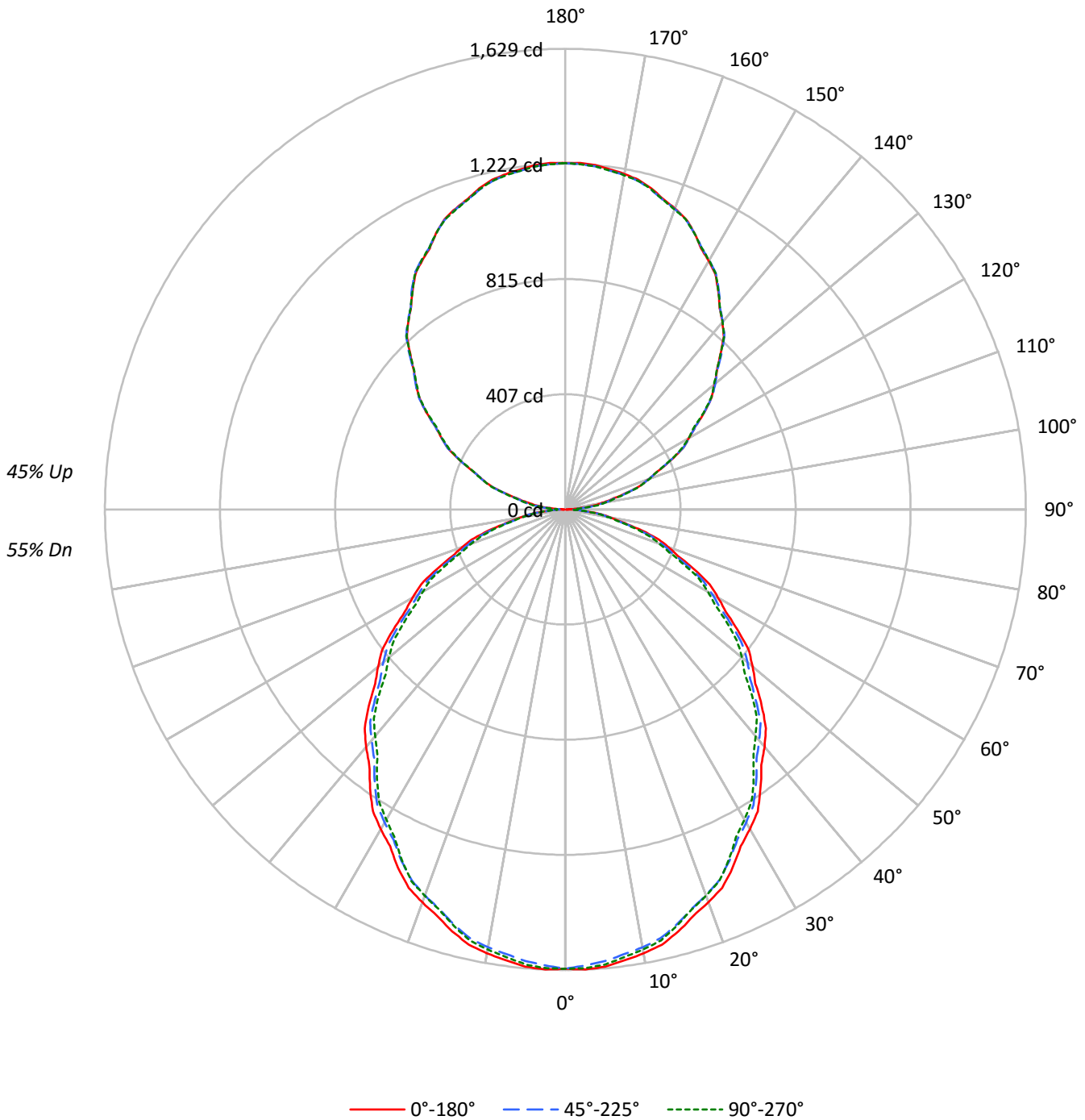
Input Watts (W): 71.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332713-930

CATALOG NUMBER: SA4XXDIP-C1195D1205U930-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P332713-930

CATALOG NUMBER: SA4XXDIP-C1195D1205U930-4F0-1E-UDD-F1

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 | 101 | 101 | 101 | 101 | 86 | 86 | 86 | 73 | 73 | 73 | 61 | 61 | 61 | 55 | | | | |
| 1 | 99 | 94 | 91 | 87 | 92 | 88 | 84 | 81 | 76 | 73 | 71 | 64 | 62 | 61 | 54 | 52 | 51 | 46 | | | | |
| 2 | 90 | 83 | 76 | 71 | 83 | 77 | 71 | 67 | 66 | 62 | 59 | 56 | 53 | 51 | 47 | 45 | 43 | 39 | | | | |
| 3 | 82 | 73 | 65 | 59 | 76 | 68 | 61 | 56 | 58 | 53 | 49 | 50 | 46 | 43 | 42 | 39 | 37 | 33 | | | | |
| 4 | 75 | 64 | 56 | 50 | 69 | 60 | 53 | 47 | 52 | 46 | 42 | 44 | 40 | 37 | 37 | 34 | 32 | 28 | | | | |
| 5 | 69 | 57 | 49 | 43 | 64 | 54 | 46 | 41 | 46 | 41 | 36 | 40 | 35 | 32 | 34 | 30 | 28 | 24 | | | | |
| 6 | 64 | 51 | 43 | 37 | 59 | 48 | 41 | 35 | 42 | 36 | 32 | 36 | 31 | 28 | 31 | 27 | 24 | 21 | | | | |
| 7 | 59 | 46 | 38 | 33 | 54 | 44 | 36 | 31 | 38 | 32 | 28 | 33 | 28 | 25 | 28 | 24 | 22 | 19 | | | | |
| 8 | 55 | 42 | 34 | 29 | 51 | 40 | 33 | 28 | 35 | 29 | 25 | 30 | 25 | 22 | 26 | 22 | 19 | 17 | | | | |
| 9 | 51 | 39 | 31 | 26 | 47 | 36 | 29 | 25 | 32 | 26 | 22 | 28 | 23 | 20 | 24 | 20 | 18 | 15 | | | | |
| 10 | 48 | 35 | 28 | 23 | 44 | 33 | 27 | 22 | 29 | 24 | 20 | 26 | 21 | 18 | 22 | 18 | 16 | 14 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 13116 | 13116 | 13116 |
| 5° | 13156 | 12998 | 13092 |
| 10° | 13073 | 12892 | 12956 |
| 15° | 12915 | 12709 | 12741 |
| 20° | 12706 | 12482 | 12493 |
| 25° | 12466 | 12222 | 12188 |
| 30° | 12172 | 11918 | 11808 |
| 35° | 11869 | 11599 | 11445 |
| 40° | 11552 | 11236 | 11031 |
| 45° | 11222 | 10880 | 10671 |
| 50° | 10857 | 10562 | 10236 |
| 55° | 10463 | 10151 | 9821 |
| 60° | 10069 | 9689 | 9397 |
| 65° | 9626 | 9251 | 8879 |
| 70° | 9128 | 8665 | 8327 |
| 75° | 8366 | 7960 | 7757 |
| 80° | 7443 | 7141 | 6960 |
| 85° | 6512 | 6271 | 6150 |



TEST NUMBER: P332713-930

CATALOG NUMBER: SA4XXDIP-C1195D1205U930-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 153.0 | 2.0 |
| 10°-20° | 431.1 | 5.7 |
| 20°-30° | 634.5 | 8.4 |
| 30°-40° | 737.7 | 9.7 |
| 40°-50° | 737.7 | 9.7 |
| 50°-60° | 645.3 | 8.5 |
| 60°-70° | 479.2 | 6.3 |
| 70°-80° | 272.3 | 3.6 |
| 80°-90° | 82.2 | 1.1 |
| 90°-100° | 80.8 | 1.1 |
| 100°-110° | 239.3 | 3.2 |
| 110°-120° | 406.2 | 5.4 |
| 120°-130° | 535.6 | 7.1 |
| 130°-140° | 601.5 | 7.9 |
| 140°-150° | 591.0 | 7.8 |
| 150°-160° | 497.1 | 6.6 |
| 160°-170° | 330.7 | 4.4 |
| 170°-180° | 115.8 | 1.5 |
| 0°-30° | 1218.6 | 16.1 |
| 0°-40° | 1956.3 | 25.8 |
| 0°-60° | 3339.3 | 44.1 |
| 0°-90° | 4173.0 | 55.1 |
| 90°-120° | 726.2 | 9.6 |
| 90°-150° | 2454.3 | 32.4 |
| 90°-180° | 3398.0 | 44.9 |
| 0°-180° | 7571.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1625 | 1625 | 1625 | 1625 | 1625 | |
| 5° | 1623 | 1618 | 1604 | 1617 | 1616 | 154 |
| 15° | 1545 | 1539 | 1521 | 1528 | 1524 | 435 |
| 25° | 1400 | 1390 | 1372 | 1373 | 1368 | 644 |
| 35° | 1204 | 1195 | 1177 | 1168 | 1161 | 753 |
| 45° | 983 | 973 | 953 | 939 | 935 | 757 |
| 55° | 743 | 739 | 721 | 706 | 698 | 666 |
| 65° | 504 | 497 | 484 | 472 | 465 | 499 |
| 75° | 268 | 262 | 255 | 250 | 249 | 285 |
| 85° | 70 | 70 | 68 | 68 | 66 | 77 |
| 90° | 3 | 13 | 21 | 26 | 28 | 7 |
| 95° | 57 | 65 | 72 | 75 | 75 | 63 |
| 105° | 221 | 222 | 225 | 228 | 231 | 234 |
| 115° | 413 | 413 | 411 | 410 | 409 | 407 |
| 125° | 601 | 601 | 600 | 599 | 597 | 536 |
| 135° | 776 | 781 | 782 | 780 | 777 | 600 |
| 145° | 942 | 946 | 947 | 946 | 944 | 590 |
| 155° | 1080 | 1080 | 1079 | 1082 | 1079 | 497 |
| 165° | 1176 | 1173 | 1171 | 1176 | 1173 | 331 |
| 175° | 1223 | 1218 | 1217 | 1223 | 1217 | 116 |
| 180° | 1225 | 1225 | 1225 | 1225 | 1225 | |



TEST NUMBER: P332713-930

CATALOG NUMBER: SA4XXDIP-C1195D1205U930-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1624.7 | 1624.7 | 1624.7 | 1624.7 | 1624.7 | 1624.7 | 1624.7 | 1624.7 | 1624.7 | 1624.7 | 1624.7 |
| 2.5° | 1628.9 | 1628.2 | 1627.5 | 1626.8 | 1626.1 | 1624.5 | 1622.0 | 1619.4 | 1616.9 | 1614.4 | 1616.7 |
| 5° | 1623.4 | 1622.3 | 1621.1 | 1620.0 | 1618.9 | 1616.7 | 1613.5 | 1610.3 | 1607.1 | 1603.9 | 1607.1 |
| 7.5° | 1608.3 | 1607.2 | 1606.1 | 1604.8 | 1603.7 | 1601.4 | 1597.8 | 1594.3 | 1590.8 | 1587.2 | 1589.8 |
| 10° | 1594.8 | 1593.7 | 1592.5 | 1591.3 | 1590.2 | 1587.7 | 1584.0 | 1580.2 | 1576.5 | 1572.7 | 1575.0 |
| 12.5° | 1577.1 | 1576.0 | 1574.8 | 1573.6 | 1572.5 | 1569.9 | 1565.9 | 1562.0 | 1558.0 | 1554.0 | 1556.5 |
| 15° | 1545.3 | 1544.2 | 1543.0 | 1541.9 | 1540.7 | 1538.0 | 1533.6 | 1529.3 | 1524.9 | 1520.6 | 1522.3 |
| 17.5° | 1507.1 | 1505.6 | 1504.1 | 1502.8 | 1501.3 | 1498.5 | 1494.4 | 1490.3 | 1486.2 | 1482.1 | 1483.2 |
| 20° | 1479.0 | 1477.5 | 1476.0 | 1474.6 | 1473.2 | 1470.2 | 1465.9 | 1461.6 | 1457.3 | 1452.9 | 1453.8 |
| 22.5° | 1448.7 | 1446.8 | 1445.0 | 1443.0 | 1441.1 | 1437.9 | 1433.6 | 1429.3 | 1425.0 | 1420.6 | 1422.2 |
| 25° | 1399.5 | 1397.5 | 1395.5 | 1393.4 | 1391.4 | 1388.4 | 1384.3 | 1380.3 | 1376.2 | 1372.1 | 1372.5 |
| 27.5° | 1343.3 | 1341.2 | 1339.1 | 1337.0 | 1335.0 | 1332.0 | 1328.3 | 1324.5 | 1320.8 | 1317.0 | 1316.3 |
| 30° | 1305.8 | 1303.5 | 1301.1 | 1298.9 | 1296.6 | 1293.5 | 1289.7 | 1286.0 | 1282.2 | 1278.5 | 1277.3 |
| 32.5° | 1266.2 | 1264.1 | 1262.1 | 1260.0 | 1257.8 | 1254.8 | 1250.8 | 1246.8 | 1242.8 | 1238.8 | 1237.5 |
| 35° | 1204.3 | 1202.2 | 1200.2 | 1198.2 | 1196.1 | 1193.1 | 1189.0 | 1185.0 | 1181.0 | 1176.9 | 1174.8 |
| 37.5° | 1138.9 | 1137.0 | 1135.2 | 1133.3 | 1131.5 | 1128.4 | 1124.1 | 1119.7 | 1115.3 | 1111.0 | 1108.8 |
| 40° | 1096.2 | 1093.9 | 1091.5 | 1089.2 | 1087.0 | 1083.6 | 1079.3 | 1074.9 | 1070.6 | 1066.2 | 1063.3 |
| 42.5° | 1050.4 | 1049.0 | 1047.6 | 1046.2 | 1044.8 | 1041.7 | 1036.9 | 1032.1 | 1027.3 | 1022.5 | 1019.1 |
| 45° | 982.9 | 980.9 | 978.8 | 976.8 | 974.9 | 971.5 | 966.9 | 962.2 | 957.6 | 953.0 | 949.8 |
| 47.5° | 912.3 | 910.9 | 909.5 | 908.2 | 906.8 | 904.0 | 899.7 | 895.4 | 891.1 | 886.9 | 883.3 |
| 50° | 864.5 | 863.3 | 862.1 | 861.0 | 859.8 | 857.2 | 853.1 | 849.1 | 845.1 | 841.0 | 837.0 |
| 52.5° | 817.6 | 816.2 | 814.8 | 813.4 | 812.0 | 809.2 | 804.9 | 800.6 | 796.4 | 792.1 | 788.5 |
| 55° | 743.4 | 742.5 | 741.7 | 740.8 | 739.9 | 737.4 | 733.4 | 729.4 | 725.3 | 721.2 | 717.8 |
| 57.5° | 672.5 | 671.6 | 670.6 | 669.6 | 668.6 | 666.1 | 662.1 | 658.1 | 654.1 | 650.1 | 646.9 |
| 60° | 623.6 | 622.2 | 620.7 | 619.3 | 617.8 | 615.2 | 611.5 | 607.7 | 603.9 | 600.1 | 597.5 |
| 62.5° | 575.7 | 574.5 | 573.2 | 572.0 | 570.9 | 568.3 | 564.3 | 560.3 | 556.3 | 552.3 | 549.9 |
| 65° | 503.9 | 502.4 | 500.9 | 499.5 | 498.1 | 495.9 | 493.0 | 490.1 | 487.2 | 484.3 | 481.4 |
| 67.5° | 431.5 | 430.2 | 428.8 | 427.5 | 426.2 | 424.0 | 421.3 | 418.5 | 415.7 | 412.9 | 410.2 |
| 70° | 386.7 | 384.7 | 382.6 | 380.6 | 378.5 | 376.4 | 374.1 | 371.8 | 369.4 | 367.1 | 364.8 |
| 72.5° | 338.8 | 336.7 | 334.7 | 332.6 | 330.7 | 328.7 | 326.9 | 325.0 | 323.2 | 321.3 | 319.4 |
| 75° | 268.2 | 266.8 | 265.3 | 263.8 | 262.4 | 261.0 | 259.5 | 258.0 | 256.7 | 255.2 | 254.0 |
| 77.5° | 200.7 | 200.1 | 199.5 | 198.9 | 198.2 | 197.2 | 196.0 | 194.7 | 193.5 | 192.2 | 191.8 |
| 80° | 160.1 | 159.2 | 158.4 | 157.5 | 156.7 | 156.0 | 155.4 | 154.7 | 154.2 | 153.6 | 153.0 |
| 82.5° | 120.6 | 120.2 | 119.8 | 119.4 | 119.0 | 118.7 | 118.5 | 118.5 | 118.3 | 118.2 | 117.9 |
| 85° | 70.3 | 70.3 | 70.3 | 70.3 | 70.3 | 70.0 | 69.5 | 68.9 | 68.2 | 67.7 | 67.7 |
| 87.5° | 27.6 | 27.9 | 28.1 | 28.4 | 28.5 | 28.8 | 28.9 | 28.9 | 29.0 | 29.2 | 29.4 |
| 90° | 2.9 | 5.1 | 7.5 | 9.8 | 12.1 | 14.1 | 15.8 | 17.4 | 19.2 | 20.9 | 22.1 |
| 92.5° | 20.3 | 22.9 | 25.6 | 28.2 | 30.9 | 32.8 | 34.0 | 35.1 | 36.4 | 37.5 | 38.2 |
| 95° | 56.8 | 58.7 | 60.7 | 62.5 | 64.4 | 66.1 | 67.6 | 69.1 | 70.5 | 72.0 | 72.6 |
| 97.5° | 99.3 | 100.8 | 102.3 | 103.8 | 105.3 | 107.0 | 108.7 | 110.4 | 112.1 | 113.8 | 114.6 |
| 100° | 132.6 | 133.5 | 134.3 | 135.1 | 136.0 | 137.4 | 139.3 | 141.1 | 143.0 | 145.0 | 145.4 |
| 102.5° | 167.5 | 167.8 | 168.1 | 168.4 | 168.8 | 169.8 | 171.5 | 173.3 | 175.0 | 176.8 | 177.3 |
| 105° | 220.7 | 220.9 | 221.1 | 221.4 | 221.5 | 222.1 | 222.9 | 223.7 | 224.6 | 225.4 | 226.1 |
| 107.5° | 276.5 | 276.9 | 277.1 | 277.4 | 277.6 | 277.8 | 277.9 | 278.0 | 278.2 | 278.3 | 278.9 |
| 110° | 314.5 | 314.9 | 315.3 | 315.8 | 316.2 | 316.3 | 316.1 | 315.8 | 315.6 | 315.4 | 315.0 |



TEST NUMBER: P332713-930

CATALOG NUMBER: SA4XXDIP-C1195D1205U930-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 353.8 | 354.0 | 354.1 | 354.2 | 354.2 | 354.1 | 353.7 | 353.4 | 352.9 | 352.5 | 352.5 |
| 115° | 412.9 | 412.9 | 412.9 | 412.9 | 412.9 | 412.8 | 412.4 | 412.0 | 411.5 | 411.1 | 410.9 |
| 117.5° | 468.7 | 468.9 | 469.0 | 469.2 | 469.4 | 469.3 | 469.0 | 468.7 | 468.4 | 468.1 | 467.4 |
| 120° | 505.8 | 506.6 | 507.5 | 508.3 | 509.2 | 509.3 | 508.7 | 508.0 | 507.4 | 506.8 | 505.7 |
| 122.5° | 544.5 | 544.8 | 545.1 | 545.4 | 545.8 | 545.8 | 545.5 | 545.3 | 544.9 | 544.6 | 544.0 |
| 125° | 601.4 | 601.4 | 601.4 | 601.4 | 601.4 | 601.4 | 601.2 | 601.0 | 600.7 | 600.5 | 600.1 |
| 127.5° | 653.2 | 653.9 | 654.4 | 655.1 | 655.7 | 655.9 | 655.5 | 655.2 | 654.8 | 654.5 | 654.1 |
| 130° | 689.6 | 690.2 | 690.8 | 691.5 | 692.1 | 692.4 | 692.4 | 692.4 | 692.4 | 692.4 | 692.0 |
| 132.5° | 726.7 | 727.2 | 727.7 | 728.1 | 728.6 | 728.7 | 728.6 | 728.4 | 728.2 | 728.1 | 727.6 |
| 135° | 775.8 | 777.1 | 778.3 | 779.6 | 780.8 | 781.5 | 781.5 | 781.5 | 781.5 | 781.5 | 781.1 |
| 137.5° | 829.2 | 829.8 | 830.4 | 831.0 | 831.5 | 832.0 | 832.3 | 832.7 | 833.0 | 833.3 | 832.8 |
| 140° | 864.8 | 865.2 | 865.7 | 866.1 | 866.5 | 866.7 | 866.7 | 866.7 | 866.7 | 866.7 | 866.5 |
| 142.5° | 897.4 | 897.8 | 898.2 | 898.6 | 899.1 | 899.2 | 899.0 | 898.9 | 898.7 | 898.5 | 898.5 |
| 145° | 942.5 | 943.3 | 944.2 | 945.0 | 945.8 | 946.4 | 946.6 | 946.8 | 947.0 | 947.2 | 947.0 |
| 147.5° | 987.2 | 988.2 | 989.2 | 990.2 | 991.2 | 991.6 | 991.5 | 991.3 | 991.2 | 991.0 | 990.8 |
| 150° | 1014.5 | 1015.3 | 1016.2 | 1017.0 | 1017.8 | 1018.2 | 1018.2 | 1018.2 | 1018.2 | 1018.2 | 1018.2 |
| 152.5° | 1040.2 | 1040.7 | 1041.2 | 1041.7 | 1042.3 | 1042.6 | 1042.8 | 1042.9 | 1043.1 | 1043.3 | 1043.7 |
| 155° | 1079.8 | 1079.8 | 1079.8 | 1079.8 | 1079.8 | 1079.7 | 1079.5 | 1079.3 | 1079.0 | 1078.9 | 1079.7 |
| 157.5° | 1113.1 | 1112.8 | 1112.4 | 1112.1 | 1111.7 | 1111.4 | 1111.4 | 1111.3 | 1111.3 | 1111.3 | 1111.9 |
| 160° | 1132.9 | 1132.7 | 1132.5 | 1132.2 | 1132.0 | 1131.8 | 1131.6 | 1131.4 | 1131.1 | 1131.0 | 1131.6 |
| 162.5° | 1151.0 | 1150.5 | 1150.0 | 1149.4 | 1148.8 | 1148.5 | 1148.3 | 1148.1 | 1147.9 | 1147.6 | 1148.8 |
| 165° | 1175.5 | 1174.8 | 1174.2 | 1173.6 | 1173.0 | 1172.4 | 1172.0 | 1171.6 | 1171.2 | 1170.8 | 1172.0 |
| 167.5° | 1194.3 | 1193.4 | 1192.5 | 1191.6 | 1190.7 | 1190.3 | 1190.3 | 1190.3 | 1190.4 | 1190.4 | 1191.7 |
| 170° | 1204.8 | 1203.8 | 1202.7 | 1201.7 | 1200.6 | 1200.2 | 1200.4 | 1200.6 | 1200.9 | 1201.1 | 1202.3 |
| 172.5° | 1212.4 | 1211.5 | 1210.6 | 1209.7 | 1208.9 | 1208.4 | 1208.5 | 1208.6 | 1208.6 | 1208.7 | 1210.1 |
| 175° | 1222.9 | 1221.8 | 1220.7 | 1219.7 | 1218.6 | 1218.0 | 1217.8 | 1217.6 | 1217.4 | 1217.2 | 1218.6 |
| 177.5° | 1226.3 | 1225.4 | 1224.6 | 1223.8 | 1222.9 | 1222.5 | 1222.5 | 1222.5 | 1222.5 | 1222.5 | 1223.7 |
| 180° | 1224.7 | 1224.7 | 1224.7 | 1224.7 | 1224.7 | 1224.7 | 1224.7 | 1224.7 | 1224.7 | 1224.7 | 1224.7 |



TEST NUMBER: P332713-930

CATALOG NUMBER: SA4XXDIP-C1195D1205U930-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1624.7 | 1624.7 | 1624.7 | 1624.7 | 1624.7 | 1624.7 | 1624.7 | 1624.7 |
| 2.5° | 1618.9 | 1621.3 | 1623.6 | 1624.6 | 1624.4 | 1624.2 | 1623.9 | 1623.7 |
| 5° | 1610.3 | 1613.5 | 1616.7 | 1618.0 | 1617.4 | 1616.8 | 1616.2 | 1615.6 |
| 7.5° | 1592.4 | 1594.9 | 1597.4 | 1598.6 | 1598.2 | 1597.8 | 1597.5 | 1597.2 |
| 10° | 1577.3 | 1579.6 | 1581.9 | 1582.8 | 1582.3 | 1581.7 | 1581.0 | 1580.5 |
| 12.5° | 1559.0 | 1561.5 | 1564.2 | 1565.0 | 1564.2 | 1563.3 | 1562.5 | 1561.7 |
| 15° | 1524.0 | 1525.8 | 1527.5 | 1528.0 | 1527.1 | 1526.2 | 1525.3 | 1524.5 |
| 17.5° | 1484.3 | 1485.4 | 1486.5 | 1486.7 | 1486.1 | 1485.6 | 1485.0 | 1484.4 |
| 20° | 1454.7 | 1455.5 | 1456.4 | 1456.5 | 1456.0 | 1455.4 | 1454.8 | 1454.2 |
| 22.5° | 1423.8 | 1425.3 | 1426.9 | 1427.1 | 1426.1 | 1425.1 | 1424.0 | 1422.9 |
| 25° | 1372.8 | 1373.0 | 1373.4 | 1372.9 | 1371.7 | 1370.6 | 1369.5 | 1368.3 |
| 27.5° | 1315.6 | 1314.9 | 1314.2 | 1313.1 | 1311.7 | 1310.3 | 1308.8 | 1307.3 |
| 30° | 1276.1 | 1275.0 | 1273.8 | 1272.5 | 1271.1 | 1269.7 | 1268.2 | 1266.7 |
| 32.5° | 1236.1 | 1234.7 | 1233.3 | 1231.9 | 1230.4 | 1229.0 | 1227.6 | 1226.1 |
| 35° | 1172.9 | 1170.9 | 1168.8 | 1167.1 | 1165.6 | 1164.2 | 1162.7 | 1161.3 |
| 37.5° | 1106.6 | 1104.4 | 1102.2 | 1100.2 | 1098.3 | 1096.3 | 1094.5 | 1092.5 |
| 40° | 1060.5 | 1057.5 | 1054.7 | 1052.5 | 1051.1 | 1049.6 | 1048.1 | 1046.7 |
| 42.5° | 1015.8 | 1012.4 | 1009.1 | 1006.9 | 1005.9 | 1004.9 | 1004.0 | 1003.0 |
| 45° | 946.6 | 943.5 | 940.3 | 938.2 | 937.3 | 936.5 | 935.6 | 934.7 |
| 47.5° | 879.7 | 876.1 | 872.5 | 869.6 | 867.4 | 865.2 | 863.0 | 860.8 |
| 50° | 832.9 | 828.8 | 824.8 | 821.9 | 820.2 | 818.5 | 816.7 | 815.0 |
| 52.5° | 784.9 | 781.3 | 777.7 | 774.9 | 772.7 | 770.5 | 768.3 | 766.1 |
| 55° | 714.3 | 710.9 | 707.4 | 704.7 | 703.0 | 701.3 | 699.5 | 697.8 |
| 57.5° | 643.6 | 640.3 | 637.0 | 634.5 | 632.8 | 631.1 | 629.4 | 627.8 |
| 60° | 594.9 | 592.4 | 589.8 | 587.7 | 586.3 | 584.8 | 583.4 | 582.0 |
| 62.5° | 547.5 | 545.1 | 542.7 | 540.9 | 539.4 | 537.9 | 536.5 | 535.1 |
| 65° | 478.5 | 475.6 | 472.7 | 470.6 | 469.1 | 467.7 | 466.2 | 464.8 |
| 67.5° | 407.4 | 404.6 | 401.9 | 400.2 | 399.8 | 399.4 | 399.0 | 398.6 |
| 70° | 362.5 | 360.2 | 357.8 | 356.3 | 355.4 | 354.6 | 353.7 | 352.8 |
| 72.5° | 317.6 | 315.8 | 313.9 | 312.5 | 311.7 | 310.8 | 309.9 | 309.1 |
| 75° | 252.8 | 251.7 | 250.5 | 249.8 | 249.6 | 249.2 | 248.9 | 248.7 |
| 77.5° | 191.4 | 191.1 | 190.8 | 190.2 | 189.5 | 188.7 | 187.9 | 187.2 |
| 80° | 152.5 | 151.9 | 151.3 | 150.9 | 150.6 | 150.3 | 150.0 | 149.7 |
| 82.5° | 117.5 | 117.2 | 116.8 | 116.5 | 116.2 | 115.9 | 115.6 | 115.4 |
| 85° | 67.7 | 67.7 | 67.7 | 67.6 | 67.3 | 66.9 | 66.7 | 66.4 |
| 87.5° | 29.7 | 29.9 | 30.2 | 30.3 | 30.4 | 30.5 | 30.6 | 30.7 |
| 90° | 23.4 | 24.6 | 25.9 | 26.7 | 27.1 | 27.6 | 28.0 | 28.5 |
| 92.5° | 39.1 | 39.8 | 40.5 | 41.0 | 41.3 | 41.6 | 41.8 | 42.1 |
| 95° | 73.2 | 73.9 | 74.5 | 74.8 | 74.8 | 74.8 | 74.8 | 74.8 |
| 97.5° | 115.4 | 116.1 | 116.9 | 117.2 | 117.2 | 117.2 | 117.2 | 117.2 |
| 100° | 145.8 | 146.2 | 146.6 | 146.8 | 146.8 | 146.8 | 146.8 | 146.8 |
| 102.5° | 177.9 | 178.6 | 179.1 | 179.4 | 179.7 | 179.9 | 180.0 | 180.2 |
| 105° | 226.7 | 227.3 | 228.0 | 228.6 | 229.3 | 229.8 | 230.5 | 231.1 |
| 107.5° | 279.5 | 280.1 | 280.6 | 281.0 | 280.9 | 280.9 | 280.8 | 280.8 |
| 110° | 314.5 | 314.1 | 313.7 | 313.8 | 314.5 | 315.1 | 315.8 | 316.3 |



TEST NUMBER: P332713-930

CATALOG NUMBER: SA4XXDIP-C1195D1205U930-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 352.4 | 352.3 | 352.2 | 352.2 | 352.4 | 352.5 | 352.6 | 352.8 |
| 115° | 410.7 | 410.4 | 410.3 | 410.0 | 409.9 | 409.6 | 409.4 | 409.2 |
| 117.5° | 466.7 | 465.9 | 465.2 | 464.7 | 464.2 | 463.8 | 463.4 | 463.0 |
| 120° | 504.7 | 503.6 | 502.6 | 502.2 | 502.6 | 503.0 | 503.5 | 503.9 |
| 122.5° | 543.2 | 542.5 | 541.8 | 541.0 | 540.3 | 539.6 | 538.7 | 538.0 |
| 125° | 599.7 | 599.2 | 598.8 | 598.4 | 598.0 | 597.6 | 597.1 | 596.7 |
| 127.5° | 653.7 | 653.3 | 652.8 | 652.5 | 652.2 | 651.8 | 651.4 | 651.1 |
| 130° | 691.5 | 691.1 | 690.7 | 690.1 | 689.3 | 688.4 | 687.5 | 686.7 |
| 132.5° | 727.2 | 726.8 | 726.4 | 725.9 | 725.6 | 725.3 | 725.0 | 724.6 |
| 135° | 780.6 | 780.2 | 779.8 | 779.3 | 778.6 | 778.0 | 777.3 | 776.7 |
| 137.5° | 832.3 | 831.7 | 831.2 | 831.0 | 831.1 | 831.2 | 831.4 | 831.4 |
| 140° | 866.3 | 866.1 | 865.8 | 865.7 | 865.4 | 865.2 | 865.0 | 864.8 |
| 142.5° | 898.5 | 898.4 | 898.4 | 898.3 | 898.3 | 898.2 | 898.2 | 898.1 |
| 145° | 946.8 | 946.6 | 946.4 | 945.9 | 945.3 | 944.7 | 944.0 | 943.5 |
| 147.5° | 990.7 | 990.5 | 990.3 | 990.1 | 989.9 | 989.7 | 989.4 | 989.3 |
| 150° | 1018.2 | 1018.2 | 1018.2 | 1018.1 | 1017.9 | 1017.7 | 1017.5 | 1017.3 |
| 152.5° | 1044.2 | 1044.8 | 1045.3 | 1045.3 | 1044.7 | 1044.2 | 1043.6 | 1043.1 |
| 155° | 1080.6 | 1081.4 | 1082.2 | 1082.2 | 1081.4 | 1080.6 | 1079.7 | 1078.9 |
| 157.5° | 1112.6 | 1113.1 | 1113.8 | 1113.8 | 1113.0 | 1112.3 | 1111.6 | 1110.9 |
| 160° | 1132.2 | 1132.9 | 1133.5 | 1133.3 | 1132.2 | 1131.1 | 1130.2 | 1129.1 |
| 162.5° | 1149.9 | 1151.0 | 1152.2 | 1152.3 | 1151.2 | 1150.1 | 1149.1 | 1148.0 |
| 165° | 1173.3 | 1174.5 | 1175.8 | 1176.0 | 1175.2 | 1174.4 | 1173.5 | 1172.6 |
| 167.5° | 1192.9 | 1194.3 | 1195.5 | 1195.5 | 1194.2 | 1192.9 | 1191.6 | 1190.3 |
| 170° | 1203.6 | 1204.8 | 1206.2 | 1206.0 | 1204.5 | 1203.1 | 1201.6 | 1200.1 |
| 172.5° | 1211.5 | 1212.9 | 1214.4 | 1214.4 | 1212.8 | 1211.4 | 1209.9 | 1208.4 |
| 175° | 1220.1 | 1221.6 | 1223.0 | 1223.0 | 1221.6 | 1220.1 | 1218.6 | 1217.2 |
| 177.5° | 1224.8 | 1226.0 | 1227.2 | 1227.1 | 1225.7 | 1224.4 | 1223.0 | 1221.7 |
| 180° | 1224.7 | 1224.7 | 1224.7 | 1224.7 | 1224.7 | 1224.7 | 1224.7 | 1224.7 |

(END OF REPORT)