

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: P332893-840

Luminaire Tested: **SA4XXRDIP-C350D1205U840-4F0-1E-UDD-F1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332893-840
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: SA4XXRDIP-C350D1205U840-4F0-1E-UDD-F1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 1205 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5655.8 lumens
Efficiency: N/A
Efficacy: 134.0 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: Semi-Indirect

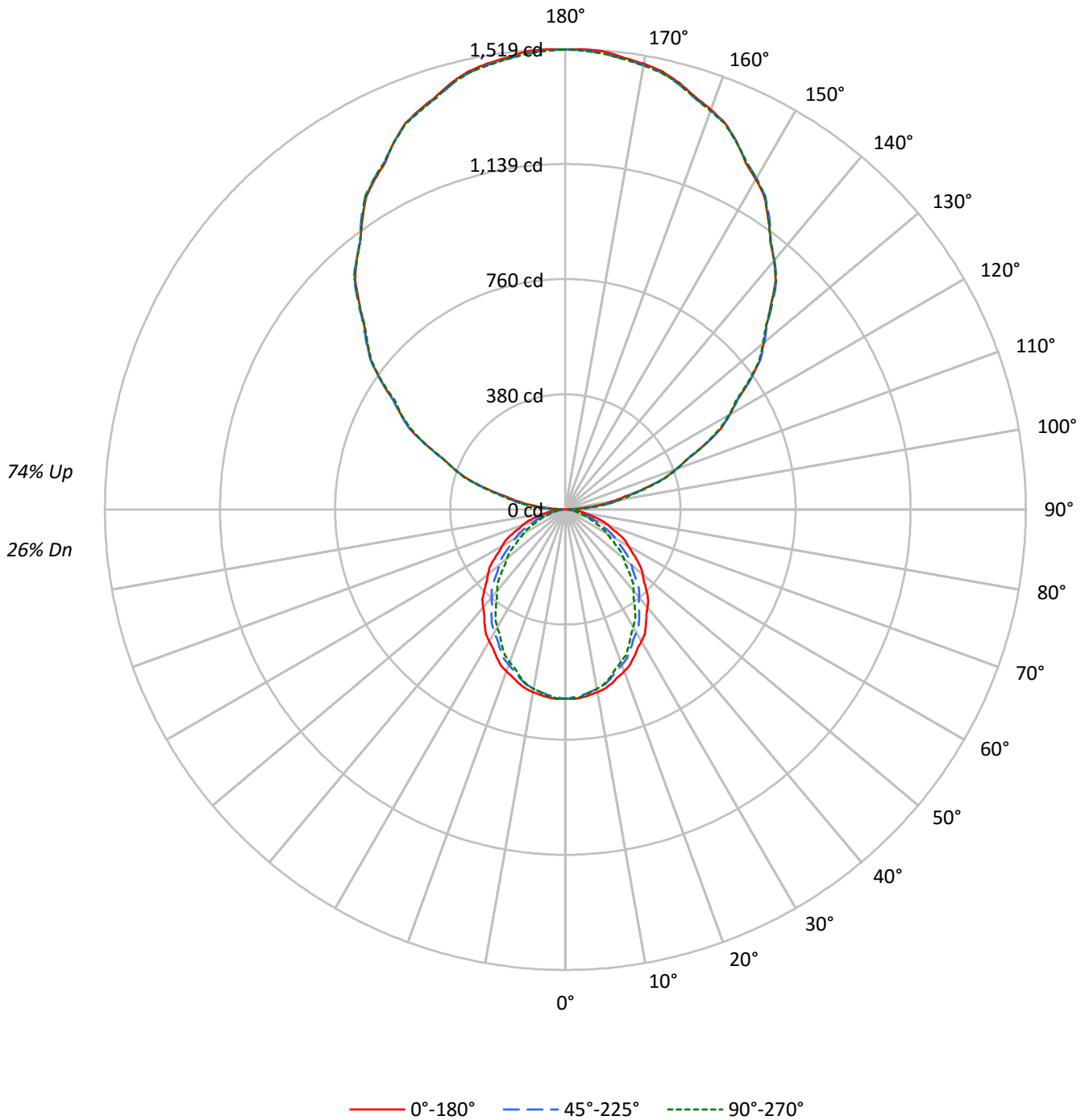
Input Watts (W): 42.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332893-840

CATALOG NUMBER: SA4XXRDIP-C350D1205U840-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P332893-840

CATALOG NUMBER: SA4XXRDIP-C350D1205U840-4F0-1E-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 | 101 | 101 | 101 | 101 | 90 | 90 | 90 | 90 | 70 | 70 | 70 | 51 | 51 | 51 | 34 | 34 | 34 | 26 | | | | |
| 1 | 92 | 88 | 85 | 81 | 82 | 79 | 76 | 73 | 61 | 59 | 57 | 45 | 44 | 43 | 30 | 29 | 29 | 22 | | | | |
| 2 | 84 | 77 | 71 | 67 | 75 | 69 | 64 | 60 | 54 | 50 | 48 | 40 | 37 | 36 | 26 | 25 | 24 | 18 | | | | |
| 3 | 77 | 68 | 61 | 55 | 68 | 61 | 55 | 50 | 47 | 43 | 40 | 35 | 32 | 30 | 24 | 22 | 21 | 16 | | | | |
| 4 | 70 | 60 | 53 | 47 | 62 | 54 | 47 | 43 | 42 | 38 | 34 | 31 | 28 | 26 | 21 | 19 | 18 | 14 | | | | |
| 5 | 64 | 53 | 46 | 40 | 57 | 48 | 41 | 36 | 38 | 33 | 29 | 28 | 25 | 22 | 19 | 17 | 16 | 12 | | | | |
| 6 | 59 | 48 | 40 | 35 | 53 | 43 | 36 | 31 | 34 | 29 | 25 | 25 | 22 | 20 | 17 | 15 | 14 | 11 | | | | |
| 7 | 55 | 43 | 35 | 30 | 49 | 39 | 32 | 28 | 31 | 26 | 22 | 23 | 20 | 17 | 16 | 14 | 12 | 9 | | | | |
| 8 | 51 | 39 | 32 | 26 | 45 | 35 | 29 | 24 | 28 | 23 | 20 | 21 | 18 | 15 | 14 | 12 | 11 | 8 | | | | |
| 9 | 47 | 35 | 28 | 23 | 42 | 32 | 26 | 21 | 25 | 21 | 18 | 19 | 16 | 14 | 13 | 11 | 10 | 8 | | | | |
| 10 | 44 | 32 | 25 | 21 | 39 | 29 | 23 | 19 | 23 | 19 | 16 | 18 | 15 | 12 | 12 | 10 | 9 | 7 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 5040 | 5040 | 5040 |
| 5° | 5051 | 4989 | 5020 |
| 10° | 5019 | 4930 | 4930 |
| 15° | 4962 | 4826 | 4790 |
| 20° | 4883 | 4689 | 4603 |
| 25° | 4782 | 4530 | 4415 |
| 30° | 4683 | 4363 | 4180 |
| 35° | 4574 | 4188 | 3943 |
| 40° | 4443 | 3990 | 3687 |
| 45° | 4322 | 3793 | 3427 |
| 50° | 4185 | 3567 | 3152 |
| 55° | 4037 | 3330 | 2853 |
| 60° | 3873 | 3073 | 2546 |
| 65° | 3725 | 2749 | 2245 |
| 70° | 3510 | 2391 | 1907 |
| 75° | 3235 | 1984 | 1550 |
| 80° | 2822 | 1511 | 1423 |
| 85° | 2399 | 1371 | 1278 |



TEST NUMBER: P332893-840

CATALOG NUMBER: SA4XXRDIP-C350D1205U840-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 58.6 | 1.0 |
| 10°-20° | 163.5 | 2.9 |
| 20°-30° | 236.1 | 4.2 |
| 30°-40° | 267.7 | 4.7 |
| 40°-50° | 258.5 | 4.6 |
| 50°-60° | 214.9 | 3.8 |
| 60°-70° | 148.4 | 2.6 |
| 70°-80° | 75.2 | 1.3 |
| 80°-90° | 23.8 | 0.4 |
| 90°-100° | 100.1 | 1.8 |
| 100°-110° | 296.4 | 5.2 |
| 110°-120° | 503.1 | 8.9 |
| 120°-130° | 663.4 | 11.7 |
| 130°-140° | 745.0 | 13.2 |
| 140°-150° | 732.1 | 12.9 |
| 150°-160° | 615.7 | 10.9 |
| 160°-170° | 409.7 | 7.2 |
| 170°-180° | 143.5 | 2.5 |
| 0°-30° | 458.3 | 8.1 |
| 0°-40° | 726.0 | 12.8 |
| 0°-60° | 1199.4 | 21.2 |
| 0°-90° | 1446.9 | 25.6 |
| 90°-120° | 899.6 | 15.9 |
| 90°-150° | 3040.1 | 53.8 |
| 90°-180° | 4209.0 | 74.4 |
| 0°-180° | 5655.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 624 | 624 | 624 | 624 | 624 | |
| 5° | 623 | 621 | 616 | 620 | 620 | 59 |
| 15° | 594 | 589 | 577 | 576 | 573 | 167 |
| 25° | 537 | 528 | 509 | 501 | 496 | 247 |
| 35° | 464 | 448 | 425 | 409 | 400 | 290 |
| 45° | 379 | 360 | 332 | 310 | 300 | 292 |
| 55° | 287 | 267 | 237 | 213 | 203 | 256 |
| 65° | 195 | 174 | 144 | 124 | 118 | 193 |
| 75° | 104 | 86 | 64 | 53 | 50 | 110 |
| 85° | 26 | 17 | 15 | 14 | 14 | 29 |
| 90° | 4 | 16 | 26 | 33 | 35 | 6 |
| 95° | 70 | 81 | 89 | 92 | 93 | 78 |
| 105° | 273 | 275 | 279 | 283 | 286 | 290 |
| 115° | 512 | 511 | 509 | 508 | 507 | 504 |
| 125° | 745 | 745 | 744 | 741 | 739 | 664 |
| 135° | 961 | 968 | 968 | 966 | 962 | 743 |
| 145° | 1167 | 1172 | 1173 | 1172 | 1169 | 730 |
| 155° | 1338 | 1337 | 1336 | 1340 | 1336 | 615 |
| 165° | 1456 | 1453 | 1450 | 1456 | 1452 | 410 |
| 175° | 1515 | 1509 | 1508 | 1515 | 1508 | 144 |
| 180° | 1517 | 1517 | 1517 | 1517 | 1517 | |



TEST NUMBER: P332893-840

CATALOG NUMBER: SA4XXRDIP-C350D1205U840-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 624.3 | 624.3 | 624.3 | 624.3 | 624.3 | 624.3 | 624.3 | 624.3 | 624.3 | 624.3 | 624.3 |
| 2.5° | 625.8 | 625.4 | 625.1 | 624.8 | 624.4 | 623.8 | 622.9 | 622.0 | 621.0 | 620.1 | 621.0 |
| 5° | 623.3 | 622.9 | 622.5 | 622.1 | 621.6 | 620.8 | 619.5 | 618.2 | 616.9 | 615.7 | 616.7 |
| 7.5° | 617.6 | 617.2 | 616.8 | 616.3 | 615.9 | 614.8 | 613.2 | 611.5 | 609.9 | 608.2 | 608.8 |
| 10° | 612.3 | 611.8 | 611.3 | 610.8 | 610.2 | 608.9 | 607.0 | 605.1 | 603.2 | 601.4 | 601.8 |
| 12.5° | 605.4 | 604.8 | 604.2 | 603.6 | 603.0 | 601.6 | 599.3 | 597.0 | 594.8 | 592.5 | 592.8 |
| 15° | 593.7 | 592.7 | 591.8 | 590.8 | 589.9 | 588.0 | 585.4 | 582.7 | 580.1 | 577.4 | 577.2 |
| 17.5° | 579.5 | 578.0 | 576.6 | 575.3 | 573.9 | 571.6 | 568.5 | 565.2 | 562.1 | 558.9 | 558.3 |
| 20° | 568.4 | 566.9 | 565.6 | 564.2 | 562.8 | 560.4 | 556.7 | 553.1 | 549.5 | 545.8 | 545.0 |
| 22.5° | 556.1 | 554.5 | 553.0 | 551.5 | 549.9 | 547.1 | 543.3 | 539.5 | 535.6 | 531.7 | 530.5 |
| 25° | 536.8 | 534.9 | 533.0 | 531.1 | 529.2 | 526.0 | 521.7 | 517.4 | 512.9 | 508.6 | 506.8 |
| 27.5° | 516.5 | 514.1 | 511.7 | 509.4 | 507.0 | 503.4 | 498.8 | 494.1 | 489.5 | 484.8 | 482.5 |
| 30° | 502.4 | 499.7 | 497.1 | 494.4 | 491.8 | 488.0 | 482.9 | 478.0 | 472.9 | 468.0 | 465.3 |
| 32.5° | 487.5 | 484.4 | 481.5 | 478.5 | 475.4 | 471.4 | 466.3 | 461.1 | 456.0 | 450.8 | 447.7 |
| 35° | 464.1 | 460.7 | 457.4 | 453.9 | 450.5 | 446.2 | 440.9 | 435.6 | 430.3 | 425.0 | 421.3 |
| 37.5° | 439.2 | 435.7 | 432.2 | 428.7 | 425.2 | 420.5 | 414.5 | 408.7 | 402.8 | 397.0 | 392.9 |
| 40° | 421.6 | 418.1 | 414.5 | 411.1 | 407.6 | 402.8 | 396.8 | 390.7 | 384.7 | 378.6 | 374.2 |
| 42.5° | 404.8 | 401.1 | 397.4 | 393.7 | 390.1 | 385.1 | 378.8 | 372.4 | 366.2 | 359.8 | 355.3 |
| 45° | 378.6 | 374.7 | 370.7 | 366.8 | 362.8 | 357.7 | 351.3 | 345.0 | 338.6 | 332.2 | 327.0 |
| 47.5° | 351.5 | 347.5 | 343.5 | 339.3 | 335.3 | 329.9 | 323.4 | 316.7 | 310.0 | 303.5 | 298.0 |
| 50° | 333.2 | 329.0 | 324.9 | 320.7 | 316.6 | 311.1 | 304.4 | 297.5 | 290.7 | 284.0 | 278.6 |
| 52.5° | 314.5 | 310.3 | 306.3 | 302.3 | 298.2 | 292.7 | 285.7 | 278.7 | 271.8 | 264.8 | 259.4 |
| 55° | 286.8 | 282.6 | 278.3 | 274.1 | 269.8 | 264.2 | 257.3 | 250.4 | 243.5 | 236.6 | 231.1 |
| 57.5° | 259.4 | 255.0 | 250.6 | 246.2 | 241.8 | 236.2 | 229.3 | 222.6 | 215.8 | 208.9 | 203.4 |
| 60° | 239.9 | 235.7 | 231.5 | 227.2 | 223.0 | 217.4 | 210.7 | 203.8 | 197.0 | 190.3 | 184.7 |
| 62.5° | 222.4 | 217.9 | 213.5 | 209.1 | 204.7 | 199.0 | 192.1 | 185.1 | 178.1 | 171.2 | 166.0 |
| 65° | 195.0 | 190.5 | 185.9 | 181.4 | 176.7 | 171.1 | 164.3 | 157.4 | 150.7 | 143.9 | 139.4 |
| 67.5° | 166.6 | 162.3 | 157.8 | 153.5 | 149.2 | 143.8 | 137.4 | 131.2 | 124.8 | 118.6 | 114.6 |
| 70° | 148.7 | 144.2 | 139.8 | 135.3 | 130.8 | 125.5 | 119.5 | 113.4 | 107.3 | 101.3 | 97.9 |
| 72.5° | 129.6 | 125.5 | 121.5 | 117.4 | 113.4 | 108.6 | 102.8 | 97.0 | 91.4 | 85.6 | 82.7 |
| 75° | 103.7 | 99.8 | 95.8 | 91.9 | 88.0 | 83.5 | 78.6 | 73.5 | 68.6 | 63.6 | 61.1 |
| 77.5° | 77.6 | 74.2 | 70.9 | 67.6 | 64.2 | 60.5 | 56.5 | 52.4 | 48.4 | 44.3 | 42.9 |
| 80° | 60.7 | 57.7 | 54.5 | 51.5 | 48.4 | 45.2 | 42.1 | 38.9 | 35.6 | 32.5 | 32.2 |
| 82.5° | 46.2 | 43.3 | 40.5 | 37.7 | 34.8 | 32.5 | 30.7 | 28.9 | 27.1 | 25.2 | 25.0 |
| 85° | 25.9 | 23.7 | 21.6 | 19.4 | 17.3 | 16.1 | 15.8 | 15.5 | 15.1 | 14.8 | 14.6 |
| 87.5° | 9.5 | 9.4 | 9.3 | 9.2 | 9.1 | 9.2 | 9.5 | 9.9 | 10.2 | 10.5 | 10.7 |
| 90° | 3.5 | 6.4 | 9.3 | 12.1 | 14.9 | 17.5 | 19.6 | 21.6 | 23.7 | 25.9 | 27.4 |
| 92.5° | 25.1 | 28.4 | 31.7 | 34.9 | 38.3 | 40.6 | 42.1 | 43.5 | 45.0 | 46.5 | 47.4 |
| 95° | 70.4 | 72.7 | 75.1 | 77.5 | 79.8 | 81.9 | 83.7 | 85.5 | 87.4 | 89.2 | 90.0 |
| 97.5° | 123.0 | 124.8 | 126.7 | 128.6 | 130.5 | 132.5 | 134.6 | 136.7 | 138.9 | 141.0 | 142.0 |
| 100° | 164.3 | 165.3 | 166.3 | 167.3 | 168.4 | 170.2 | 172.5 | 174.8 | 177.1 | 179.6 | 180.1 |
| 102.5° | 207.4 | 207.8 | 208.2 | 208.6 | 209.1 | 210.4 | 212.5 | 214.7 | 216.8 | 218.9 | 219.6 |
| 105° | 273.4 | 273.7 | 273.9 | 274.2 | 274.4 | 275.1 | 276.1 | 277.1 | 278.2 | 279.2 | 280.0 |
| 107.5° | 342.5 | 343.0 | 343.3 | 343.6 | 343.9 | 344.1 | 344.3 | 344.4 | 344.6 | 344.7 | 345.5 |
| 110° | 389.5 | 390.0 | 390.5 | 391.1 | 391.6 | 391.7 | 391.5 | 391.2 | 390.9 | 390.7 | 390.2 |



TEST NUMBER: P332893-840

CATALOG NUMBER: SA4XXRDIP-C350D1205U840-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 438.3 | 438.5 | 438.6 | 438.7 | 438.8 | 438.6 | 438.1 | 437.7 | 437.2 | 436.7 | 436.6 |
| 115° | 511.5 | 511.5 | 511.5 | 511.5 | 511.5 | 511.3 | 510.8 | 510.3 | 509.7 | 509.2 | 509.0 |
| 117.5° | 580.6 | 580.8 | 581.0 | 581.2 | 581.4 | 581.3 | 580.9 | 580.6 | 580.2 | 579.9 | 579.0 |
| 120° | 626.5 | 627.5 | 628.6 | 629.7 | 630.7 | 630.9 | 630.1 | 629.2 | 628.4 | 627.7 | 626.4 |
| 122.5° | 674.4 | 674.8 | 675.2 | 675.6 | 676.1 | 676.1 | 675.7 | 675.4 | 675.0 | 674.6 | 673.8 |
| 125° | 745.0 | 745.0 | 745.0 | 745.0 | 745.0 | 744.9 | 744.7 | 744.4 | 744.1 | 743.9 | 743.4 |
| 127.5° | 809.1 | 809.9 | 810.6 | 811.4 | 812.2 | 812.4 | 811.9 | 811.5 | 811.1 | 810.7 | 810.2 |
| 130° | 854.1 | 855.0 | 855.7 | 856.5 | 857.3 | 857.7 | 857.7 | 857.7 | 857.7 | 857.7 | 857.2 |
| 132.5° | 900.1 | 900.7 | 901.3 | 901.8 | 902.4 | 902.6 | 902.4 | 902.2 | 902.0 | 901.8 | 901.2 |
| 135° | 960.9 | 962.5 | 964.0 | 965.6 | 967.1 | 968.0 | 968.0 | 968.0 | 968.0 | 968.0 | 967.5 |
| 137.5° | 1027.0 | 1027.8 | 1028.5 | 1029.3 | 1030.0 | 1030.6 | 1031.0 | 1031.4 | 1031.8 | 1032.2 | 1031.6 |
| 140° | 1071.2 | 1071.7 | 1072.3 | 1072.8 | 1073.3 | 1073.5 | 1073.5 | 1073.5 | 1073.5 | 1073.5 | 1073.3 |
| 142.5° | 1111.6 | 1112.1 | 1112.6 | 1113.1 | 1113.7 | 1113.8 | 1113.6 | 1113.4 | 1113.2 | 1113.0 | 1112.9 |
| 145° | 1167.4 | 1168.4 | 1169.5 | 1170.5 | 1171.5 | 1172.3 | 1172.5 | 1172.8 | 1173.0 | 1173.3 | 1173.0 |
| 147.5° | 1222.7 | 1224.1 | 1225.3 | 1226.5 | 1227.8 | 1228.3 | 1228.1 | 1227.9 | 1227.7 | 1227.5 | 1227.3 |
| 150° | 1256.6 | 1257.6 | 1258.7 | 1259.7 | 1260.7 | 1261.2 | 1261.2 | 1261.2 | 1261.2 | 1261.2 | 1261.2 |
| 152.5° | 1288.5 | 1289.1 | 1289.7 | 1290.3 | 1291.0 | 1291.4 | 1291.6 | 1291.8 | 1292.0 | 1292.2 | 1292.8 |
| 155° | 1337.5 | 1337.5 | 1337.5 | 1337.5 | 1337.5 | 1337.4 | 1337.2 | 1336.9 | 1336.6 | 1336.4 | 1337.4 |
| 157.5° | 1378.8 | 1378.4 | 1377.9 | 1377.5 | 1377.0 | 1376.6 | 1376.6 | 1376.5 | 1376.5 | 1376.4 | 1377.3 |
| 160° | 1403.2 | 1403.0 | 1402.7 | 1402.4 | 1402.2 | 1401.9 | 1401.7 | 1401.4 | 1401.1 | 1400.9 | 1401.7 |
| 162.5° | 1425.7 | 1425.0 | 1424.4 | 1423.7 | 1423.0 | 1422.6 | 1422.3 | 1422.1 | 1421.8 | 1421.5 | 1422.9 |
| 165° | 1456.0 | 1455.2 | 1454.4 | 1453.7 | 1452.9 | 1452.2 | 1451.7 | 1451.2 | 1450.7 | 1450.2 | 1451.7 |
| 167.5° | 1479.3 | 1478.1 | 1477.0 | 1475.9 | 1474.9 | 1474.3 | 1474.4 | 1474.4 | 1474.5 | 1474.5 | 1476.1 |
| 170° | 1492.4 | 1491.1 | 1489.8 | 1488.4 | 1487.1 | 1486.6 | 1486.9 | 1487.1 | 1487.4 | 1487.7 | 1489.2 |
| 172.5° | 1501.8 | 1500.7 | 1499.5 | 1498.4 | 1497.4 | 1496.8 | 1496.9 | 1497.0 | 1497.0 | 1497.1 | 1498.8 |
| 175° | 1514.7 | 1513.4 | 1512.1 | 1510.8 | 1509.4 | 1508.6 | 1508.4 | 1508.1 | 1507.9 | 1507.6 | 1509.4 |
| 177.5° | 1518.9 | 1517.8 | 1516.8 | 1515.8 | 1514.7 | 1514.2 | 1514.2 | 1514.2 | 1514.2 | 1514.2 | 1515.7 |
| 180° | 1517.0 | 1517.0 | 1517.0 | 1517.0 | 1517.0 | 1517.0 | 1517.0 | 1517.0 | 1517.0 | 1517.0 | 1517.0 |



TEST NUMBER: P332893-840

CATALOG NUMBER: SA4XXRDIP-C350D1205U840-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 624.3 | 624.3 | 624.3 | 624.3 | 624.3 | 624.3 | 624.3 | 624.3 |
| 2.5° | 622.0 | 622.9 | 623.8 | 624.2 | 624.1 | 624.1 | 624.0 | 623.9 |
| 5° | 617.8 | 618.8 | 620.0 | 620.4 | 620.2 | 620.0 | 619.7 | 619.5 |
| 7.5° | 609.6 | 610.3 | 611.0 | 611.1 | 610.8 | 610.5 | 610.1 | 609.8 |
| 10° | 602.2 | 602.6 | 603.0 | 603.0 | 602.6 | 602.2 | 601.8 | 601.4 |
| 12.5° | 593.0 | 593.3 | 593.6 | 593.4 | 592.8 | 592.2 | 591.6 | 591.0 |
| 15° | 577.0 | 576.8 | 576.5 | 576.1 | 575.3 | 574.6 | 573.9 | 573.1 |
| 17.5° | 557.6 | 557.1 | 556.5 | 555.6 | 554.5 | 553.4 | 552.3 | 551.2 |
| 20° | 544.2 | 543.3 | 542.5 | 541.4 | 540.0 | 538.6 | 537.2 | 535.8 |
| 22.5° | 529.2 | 527.9 | 526.6 | 525.4 | 524.3 | 523.2 | 522.1 | 520.9 |
| 25° | 504.9 | 503.2 | 501.4 | 500.0 | 498.9 | 497.8 | 496.8 | 495.6 |
| 27.5° | 480.3 | 478.1 | 475.8 | 474.0 | 472.4 | 470.9 | 469.4 | 467.9 |
| 30° | 462.6 | 460.0 | 457.4 | 455.1 | 453.4 | 451.8 | 450.1 | 448.4 |
| 32.5° | 444.6 | 441.5 | 438.5 | 436.1 | 434.4 | 432.8 | 431.2 | 429.6 |
| 35° | 417.7 | 414.1 | 410.5 | 407.8 | 405.9 | 403.9 | 402.0 | 400.1 |
| 37.5° | 388.9 | 384.9 | 380.8 | 377.8 | 375.9 | 374.0 | 372.0 | 370.1 |
| 40° | 369.6 | 365.2 | 360.7 | 357.6 | 355.7 | 353.8 | 351.8 | 349.9 |
| 42.5° | 350.7 | 346.2 | 341.6 | 338.4 | 336.4 | 334.4 | 332.3 | 330.4 |
| 45° | 321.8 | 316.6 | 311.3 | 307.8 | 305.9 | 304.0 | 302.1 | 300.2 |
| 47.5° | 292.7 | 287.2 | 281.9 | 278.1 | 276.0 | 273.9 | 271.8 | 269.7 |
| 50° | 273.3 | 268.0 | 262.7 | 259.0 | 257.0 | 255.0 | 253.0 | 251.0 |
| 52.5° | 254.0 | 248.6 | 243.3 | 239.4 | 237.4 | 235.3 | 233.2 | 231.1 |
| 55° | 225.6 | 220.0 | 214.5 | 210.8 | 208.7 | 206.7 | 204.7 | 202.7 |
| 57.5° | 197.7 | 192.2 | 186.5 | 183.0 | 181.5 | 180.0 | 178.3 | 176.8 |
| 60° | 179.2 | 173.7 | 168.1 | 164.5 | 162.8 | 161.2 | 159.5 | 157.7 |
| 62.5° | 161.0 | 155.8 | 150.8 | 147.5 | 146.1 | 144.8 | 143.4 | 142.1 |
| 65° | 134.7 | 130.2 | 125.6 | 122.7 | 121.4 | 120.2 | 118.9 | 117.5 |
| 67.5° | 110.7 | 106.7 | 102.8 | 100.2 | 98.8 | 97.4 | 95.9 | 94.5 |
| 70° | 94.3 | 90.8 | 87.4 | 85.0 | 83.9 | 82.9 | 81.8 | 80.8 |
| 72.5° | 79.7 | 76.6 | 73.7 | 71.7 | 70.7 | 69.8 | 68.8 | 67.8 |
| 75° | 58.7 | 56.2 | 53.8 | 52.3 | 51.6 | 51.0 | 50.4 | 49.7 |
| 77.5° | 41.5 | 40.1 | 38.7 | 37.9 | 37.7 | 37.5 | 37.3 | 37.1 |
| 80° | 31.9 | 31.5 | 31.2 | 31.0 | 30.9 | 30.8 | 30.7 | 30.6 |
| 82.5° | 24.7 | 24.5 | 24.3 | 24.1 | 24.0 | 23.9 | 23.8 | 23.7 |
| 85° | 14.4 | 14.1 | 13.9 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 |
| 87.5° | 11.0 | 11.2 | 11.4 | 11.6 | 11.8 | 12.0 | 12.2 | 12.4 |
| 90° | 29.0 | 30.5 | 32.1 | 33.1 | 33.6 | 34.1 | 34.6 | 35.2 |
| 92.5° | 48.4 | 49.3 | 50.2 | 50.8 | 51.2 | 51.5 | 51.8 | 52.1 |
| 95° | 90.7 | 91.5 | 92.3 | 92.7 | 92.7 | 92.7 | 92.7 | 92.7 |
| 97.5° | 142.9 | 143.8 | 144.8 | 145.2 | 145.2 | 145.2 | 145.2 | 145.2 |
| 100° | 180.6 | 181.1 | 181.6 | 181.9 | 181.9 | 181.9 | 181.9 | 181.9 |
| 102.5° | 220.4 | 221.2 | 221.9 | 222.3 | 222.6 | 222.8 | 223.0 | 223.2 |
| 105° | 280.8 | 281.6 | 282.4 | 283.2 | 284.0 | 284.7 | 285.5 | 286.3 |
| 107.5° | 346.2 | 346.9 | 347.6 | 348.0 | 347.9 | 347.9 | 347.8 | 347.8 |
| 110° | 389.6 | 389.1 | 388.6 | 388.7 | 389.5 | 390.3 | 391.1 | 391.8 |



TEST NUMBER: P332893-840

CATALOG NUMBER: SA4XXRDIP-C350D1205U840-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 436.5 | 436.4 | 436.3 | 436.3 | 436.5 | 436.6 | 436.8 | 437.0 |
| 115° | 508.7 | 508.4 | 508.2 | 507.9 | 507.7 | 507.4 | 507.2 | 506.9 |
| 117.5° | 578.0 | 577.1 | 576.2 | 575.6 | 575.0 | 574.5 | 574.0 | 573.5 |
| 120° | 625.1 | 623.8 | 622.5 | 622.1 | 622.6 | 623.1 | 623.7 | 624.2 |
| 122.5° | 672.9 | 672.0 | 671.1 | 670.1 | 669.2 | 668.3 | 667.3 | 666.4 |
| 125° | 742.8 | 742.3 | 741.7 | 741.2 | 740.7 | 740.2 | 739.6 | 739.1 |
| 127.5° | 809.7 | 809.2 | 808.6 | 808.2 | 807.8 | 807.3 | 806.9 | 806.5 |
| 130° | 856.6 | 856.1 | 855.6 | 854.7 | 853.7 | 852.7 | 851.6 | 850.6 |
| 132.5° | 900.7 | 900.2 | 899.7 | 899.2 | 898.8 | 898.4 | 898.0 | 897.6 |
| 135° | 966.9 | 966.3 | 965.8 | 965.2 | 964.4 | 963.6 | 962.8 | 962.1 |
| 137.5° | 1030.9 | 1030.2 | 1029.6 | 1029.3 | 1029.5 | 1029.6 | 1029.8 | 1029.9 |
| 140° | 1073.0 | 1072.8 | 1072.5 | 1072.3 | 1072.0 | 1071.7 | 1071.5 | 1071.2 |
| 142.5° | 1112.9 | 1112.8 | 1112.8 | 1112.7 | 1112.7 | 1112.6 | 1112.6 | 1112.5 |
| 145° | 1172.8 | 1172.5 | 1172.3 | 1171.6 | 1170.9 | 1170.1 | 1169.3 | 1168.6 |
| 147.5° | 1227.1 | 1226.9 | 1226.6 | 1226.4 | 1226.2 | 1225.9 | 1225.6 | 1225.4 |
| 150° | 1261.2 | 1261.2 | 1261.2 | 1261.1 | 1260.8 | 1260.6 | 1260.3 | 1260.1 |
| 152.5° | 1293.4 | 1294.1 | 1294.7 | 1294.7 | 1294.0 | 1293.3 | 1292.6 | 1292.0 |
| 155° | 1338.5 | 1339.5 | 1340.5 | 1340.5 | 1339.5 | 1338.5 | 1337.4 | 1336.4 |
| 157.5° | 1378.1 | 1378.8 | 1379.6 | 1379.6 | 1378.7 | 1377.8 | 1376.8 | 1376.0 |
| 160° | 1402.4 | 1403.2 | 1404.0 | 1403.7 | 1402.4 | 1401.1 | 1399.9 | 1398.6 |
| 162.5° | 1424.3 | 1425.7 | 1427.1 | 1427.2 | 1425.9 | 1424.6 | 1423.3 | 1422.0 |
| 165° | 1453.3 | 1454.8 | 1456.4 | 1456.6 | 1455.6 | 1454.6 | 1453.5 | 1452.5 |
| 167.5° | 1477.6 | 1479.3 | 1480.8 | 1480.8 | 1479.1 | 1477.5 | 1475.9 | 1474.3 |
| 170° | 1490.9 | 1492.4 | 1494.0 | 1493.8 | 1492.0 | 1490.2 | 1488.3 | 1486.5 |
| 172.5° | 1500.7 | 1502.4 | 1504.2 | 1504.2 | 1502.3 | 1500.5 | 1498.6 | 1496.8 |
| 175° | 1511.3 | 1513.1 | 1514.9 | 1514.9 | 1513.1 | 1511.3 | 1509.4 | 1507.6 |
| 177.5° | 1517.1 | 1518.6 | 1520.0 | 1519.9 | 1518.2 | 1516.6 | 1514.9 | 1513.3 |
| 180° | 1517.0 | 1517.0 | 1517.0 | 1517.0 | 1517.0 | 1517.0 | 1517.0 | 1517.0 |

(END OF REPORT)