

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: P332874-830

Luminaire Tested: **SA4XXRDIP-C350D590U830-4F0-1E-UDD-F**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332874-830
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-C350D590U830-4F0-1E-UDD-F
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 590 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

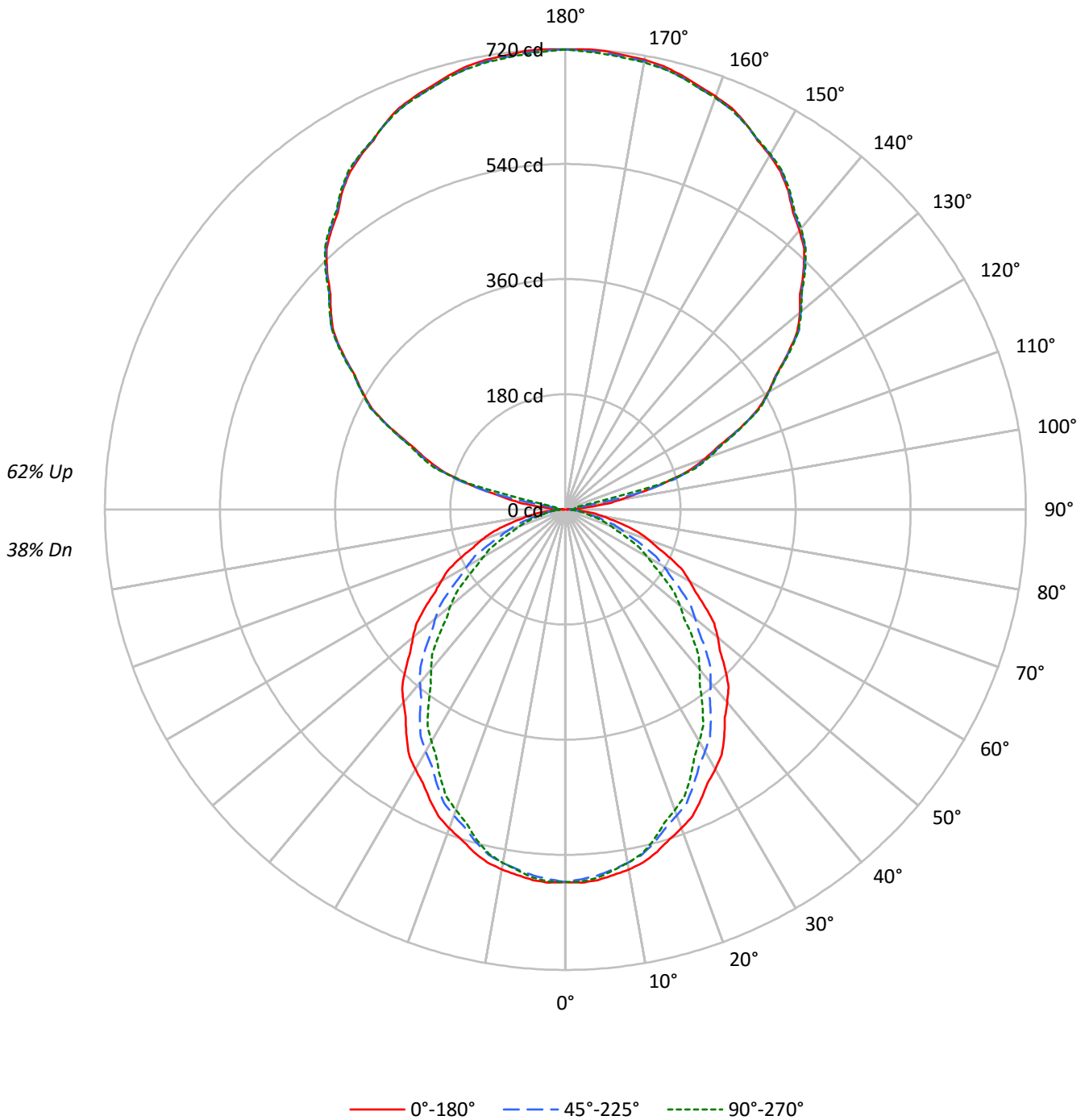
Lumens per Lamp: N/A
Luminaire Lumens: 3571.8 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 25.6
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: P332874-830
CATALOG NUMBER: SA4XXRDIP-C350D590U830-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P332874-830

CATALOG NUMBER: SA4XXRDIP-C350D590U830-4F0-1E-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 | 104 | 104 | 104 | 104 | 95 | 95 | 95 | 95 | 77 | 77 | 77 | 60 | 60 | 60 | 45 | 45 | 45 | 38 | | | | |
| 1 | 95 | 91 | 87 | 84 | 86 | 83 | 80 | 77 | 67 | 65 | 63 | 53 | 52 | 50 | 40 | 39 | 38 | 32 | | | | |
| 2 | 87 | 80 | 74 | 69 | 79 | 73 | 68 | 63 | 59 | 56 | 53 | 47 | 44 | 42 | 35 | 34 | 32 | 27 | | | | |
| 3 | 79 | 70 | 63 | 58 | 72 | 64 | 58 | 53 | 52 | 48 | 44 | 42 | 38 | 36 | 31 | 30 | 28 | 23 | | | | |
| 4 | 73 | 62 | 55 | 49 | 66 | 57 | 50 | 45 | 47 | 42 | 38 | 37 | 34 | 31 | 28 | 26 | 24 | 20 | | | | |
| 5 | 67 | 55 | 48 | 42 | 60 | 51 | 44 | 39 | 42 | 37 | 33 | 33 | 30 | 27 | 26 | 23 | 21 | 18 | | | | |
| 6 | 61 | 50 | 42 | 36 | 56 | 45 | 39 | 34 | 38 | 32 | 29 | 30 | 26 | 24 | 23 | 21 | 19 | 16 | | | | |
| 7 | 57 | 45 | 37 | 32 | 51 | 41 | 34 | 29 | 34 | 29 | 25 | 27 | 24 | 21 | 21 | 19 | 17 | 14 | | | | |
| 8 | 53 | 41 | 33 | 28 | 48 | 37 | 31 | 26 | 31 | 26 | 22 | 25 | 21 | 19 | 19 | 17 | 15 | 12 | | | | |
| 9 | 49 | 37 | 30 | 25 | 44 | 34 | 28 | 23 | 28 | 23 | 20 | 23 | 19 | 17 | 18 | 15 | 13 | 11 | | | | |
| 10 | 46 | 34 | 27 | 22 | 41 | 31 | 25 | 21 | 26 | 21 | 18 | 21 | 18 | 15 | 17 | 14 | 12 | 10 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4704 | 4704 | 4704 |
| 5° | 4714 | 4657 | 4686 |
| 10° | 4685 | 4601 | 4601 |
| 15° | 4631 | 4504 | 4471 |
| 20° | 4558 | 4376 | 4296 |
| 25° | 4464 | 4228 | 4121 |
| 30° | 4371 | 4072 | 3901 |
| 35° | 4269 | 3909 | 3680 |
| 40° | 4147 | 3724 | 3442 |
| 45° | 4035 | 3540 | 3199 |
| 50° | 3905 | 3328 | 2941 |
| 55° | 3768 | 3108 | 2663 |
| 60° | 3615 | 2868 | 2377 |
| 65° | 3477 | 2565 | 2096 |
| 70° | 3274 | 2231 | 1780 |
| 75° | 3019 | 1853 | 1447 |
| 80° | 2631 | 1409 | 1330 |
| 85° | 2232 | 1288 | 1195 |



TEST NUMBER: P332874-830

CATALOG NUMBER: SA4XXRDIP-C350D590U830-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 54.7 | 1.5 |
| 10°-20° | 152.6 | 4.3 |
| 20°-30° | 220.4 | 6.2 |
| 30°-40° | 249.8 | 7.0 |
| 40°-50° | 241.2 | 6.8 |
| 50°-60° | 200.6 | 5.6 |
| 60°-70° | 138.5 | 3.9 |
| 70°-80° | 70.2 | 2.0 |
| 80°-90° | 20.1 | 0.6 |
| 90°-100° | 24.6 | 0.7 |
| 100°-110° | 156.8 | 4.4 |
| 110°-120° | 299.9 | 8.4 |
| 120°-130° | 380.7 | 10.7 |
| 130°-140° | 407.3 | 11.4 |
| 140°-150° | 380.9 | 10.7 |
| 150°-160° | 307.1 | 8.6 |
| 160°-170° | 198.1 | 5.5 |
| 170°-180° | 68.3 | 1.9 |
| 0°-30° | 427.8 | 12.0 |
| 0°-40° | 677.6 | 19.0 |
| 0°-60° | 1119.4 | 31.3 |
| 0°-90° | 1348.2 | 37.7 |
| 90°-120° | 481.2 | 13.5 |
| 90°-150° | 1650.1 | 46.2 |
| 90°-180° | 2224.0 | 62.3 |
| 0°-180° | 3571.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 583 | 583 | 583 | 583 | 583 | |
| 5° | 582 | 580 | 575 | 579 | 578 | 55 |
| 15° | 554 | 550 | 539 | 538 | 535 | 156 |
| 25° | 501 | 492 | 475 | 467 | 463 | 231 |
| 35° | 433 | 418 | 397 | 382 | 373 | 271 |
| 45° | 353 | 336 | 310 | 289 | 280 | 272 |
| 55° | 268 | 249 | 221 | 198 | 189 | 239 |
| 65° | 182 | 162 | 134 | 116 | 110 | 180 |
| 75° | 97 | 80 | 59 | 50 | 46 | 102 |
| 85° | 24 | 16 | 14 | 13 | 13 | 27 |
| 90° | 2 | 7 | 12 | 15 | 16 | 3 |
| 95° | 30 | 12 | 12 | 15 | 16 | 38 |
| 105° | 162 | 165 | 168 | 171 | 153 | 169 |
| 115° | 302 | 304 | 303 | 304 | 304 | 297 |
| 125° | 425 | 427 | 426 | 427 | 428 | 379 |
| 135° | 527 | 526 | 528 | 530 | 531 | 406 |
| 145° | 608 | 609 | 609 | 610 | 611 | 380 |
| 155° | 666 | 667 | 665 | 667 | 666 | 307 |
| 165° | 703 | 700 | 700 | 704 | 700 | 198 |
| 175° | 719 | 716 | 716 | 720 | 714 | 68 |
| 180° | 719 | 719 | 719 | 719 | 719 | |



TEST NUMBER: P332874-830

CATALOG NUMBER: SA4XXRDIP-C350D590U830-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 582.7 | 582.7 | 582.7 | 582.7 | 582.7 | 582.7 | 582.7 | 582.7 | 582.7 | 582.7 | 582.7 |
| 2.5° | 584.1 | 583.7 | 583.4 | 583.2 | 582.8 | 582.2 | 581.4 | 580.5 | 579.6 | 578.7 | 579.6 |
| 5° | 581.7 | 581.4 | 581.0 | 580.6 | 580.1 | 579.4 | 578.2 | 577.0 | 575.8 | 574.7 | 575.6 |
| 7.5° | 576.5 | 576.1 | 575.7 | 575.2 | 574.9 | 573.8 | 572.3 | 570.7 | 569.2 | 567.7 | 568.3 |
| 10° | 571.5 | 571.0 | 570.5 | 570.0 | 569.5 | 568.4 | 566.6 | 564.8 | 563.0 | 561.3 | 561.7 |
| 12.5° | 565.1 | 564.5 | 563.9 | 563.4 | 562.8 | 561.5 | 559.3 | 557.2 | 555.2 | 553.0 | 553.3 |
| 15° | 554.1 | 553.2 | 552.3 | 551.4 | 550.5 | 548.8 | 546.4 | 543.8 | 541.4 | 538.9 | 538.8 |
| 17.5° | 540.8 | 539.5 | 538.2 | 537.0 | 535.6 | 533.5 | 530.6 | 527.5 | 524.6 | 521.6 | 521.0 |
| 20° | 530.5 | 529.1 | 527.9 | 526.6 | 525.3 | 523.0 | 519.6 | 516.2 | 512.8 | 509.4 | 508.7 |
| 22.5° | 519.1 | 517.6 | 516.1 | 514.7 | 513.2 | 510.7 | 507.1 | 503.5 | 499.9 | 496.2 | 495.1 |
| 25° | 501.1 | 499.3 | 497.5 | 495.7 | 493.9 | 491.0 | 486.9 | 482.9 | 478.7 | 474.7 | 473.0 |
| 27.5° | 482.1 | 479.8 | 477.6 | 475.4 | 473.2 | 469.9 | 465.5 | 461.2 | 456.9 | 452.5 | 450.3 |
| 30° | 468.9 | 466.4 | 463.9 | 461.5 | 459.0 | 455.4 | 450.7 | 446.1 | 441.4 | 436.8 | 434.3 |
| 32.5° | 455.0 | 452.1 | 449.4 | 446.6 | 443.7 | 440.0 | 435.2 | 430.4 | 425.6 | 420.8 | 417.8 |
| 35° | 433.2 | 430.0 | 426.9 | 423.7 | 420.5 | 416.4 | 411.5 | 406.5 | 401.6 | 396.6 | 393.2 |
| 37.5° | 409.9 | 406.6 | 403.4 | 400.1 | 396.8 | 392.5 | 386.9 | 381.4 | 376.0 | 370.5 | 366.7 |
| 40° | 393.5 | 390.2 | 386.9 | 383.7 | 380.4 | 376.0 | 370.3 | 364.7 | 359.0 | 353.4 | 349.2 |
| 42.5° | 377.8 | 374.4 | 370.9 | 367.5 | 364.1 | 359.4 | 353.5 | 347.6 | 341.8 | 335.8 | 331.6 |
| 45° | 353.4 | 349.7 | 346.0 | 342.3 | 338.7 | 333.8 | 327.9 | 322.0 | 316.0 | 310.1 | 305.2 |
| 47.5° | 328.1 | 324.3 | 320.6 | 316.7 | 312.9 | 307.9 | 301.8 | 295.6 | 289.4 | 283.2 | 278.1 |
| 50° | 310.9 | 307.1 | 303.2 | 299.4 | 295.5 | 290.4 | 284.1 | 277.7 | 271.4 | 265.0 | 260.0 |
| 52.5° | 293.5 | 289.6 | 285.9 | 282.1 | 278.3 | 273.1 | 266.6 | 260.1 | 253.6 | 247.1 | 242.1 |
| 55° | 267.7 | 263.7 | 259.8 | 255.8 | 251.8 | 246.6 | 240.2 | 233.8 | 227.2 | 220.8 | 215.7 |
| 57.5° | 242.1 | 238.0 | 233.9 | 229.8 | 225.6 | 220.5 | 214.1 | 207.7 | 201.4 | 195.0 | 189.8 |
| 60° | 223.9 | 220.0 | 216.0 | 212.1 | 208.1 | 202.9 | 196.6 | 190.2 | 183.9 | 177.6 | 172.4 |
| 62.5° | 207.5 | 203.4 | 199.3 | 195.2 | 191.1 | 185.8 | 179.3 | 172.8 | 166.3 | 159.8 | 155.0 |
| 65° | 182.0 | 177.8 | 173.5 | 169.3 | 164.9 | 159.7 | 153.4 | 146.9 | 140.6 | 134.3 | 130.1 |
| 67.5° | 155.5 | 151.5 | 147.3 | 143.3 | 139.2 | 134.2 | 128.3 | 122.4 | 116.5 | 110.7 | 107.0 |
| 70° | 138.7 | 134.6 | 130.4 | 126.3 | 122.1 | 117.2 | 111.5 | 105.8 | 100.2 | 94.5 | 91.3 |
| 72.5° | 120.9 | 117.2 | 113.4 | 109.6 | 105.8 | 101.3 | 96.0 | 90.6 | 85.3 | 79.9 | 77.2 |
| 75° | 96.8 | 93.1 | 89.4 | 85.8 | 82.1 | 77.9 | 73.3 | 68.6 | 64.0 | 59.4 | 57.0 |
| 77.5° | 72.4 | 69.3 | 66.2 | 63.1 | 59.9 | 56.5 | 52.7 | 48.9 | 45.1 | 41.4 | 40.1 |
| 80° | 56.6 | 53.8 | 50.9 | 48.1 | 45.1 | 42.2 | 39.3 | 36.3 | 33.3 | 30.3 | 30.1 |
| 82.5° | 43.1 | 40.4 | 37.8 | 35.2 | 32.5 | 30.3 | 28.7 | 27.0 | 25.3 | 23.6 | 23.4 |
| 85° | 24.1 | 22.1 | 20.2 | 18.1 | 16.1 | 15.0 | 14.7 | 14.4 | 14.1 | 13.9 | 13.7 |
| 87.5° | 8.6 | 8.2 | 7.8 | 7.4 | 7.1 | 6.9 | 7.1 | 7.2 | 7.3 | 7.4 | 7.4 |
| 90° | 1.6 | 2.9 | 4.2 | 5.6 | 6.9 | 8.0 | 9.0 | 9.9 | 10.8 | 11.8 | 12.5 |
| 92.5° | 6.8 | 6.9 | 6.9 | 7.0 | 7.1 | 7.5 | 8.6 | 9.5 | 10.5 | 11.4 | 12.2 |
| 95° | 29.6 | 25.5 | 21.5 | 17.3 | 13.3 | 11.3 | 11.5 | 11.6 | 11.7 | 11.8 | 12.5 |
| 97.5° | 62.8 | 65.3 | 67.9 | 70.4 | 73.0 | 67.5 | 54.2 | 40.9 | 27.5 | 14.2 | 14.2 |
| 100° | 88.1 | 90.3 | 92.5 | 94.6 | 96.8 | 89.6 | 73.1 | 56.6 | 40.2 | 23.7 | 21.6 |
| 102.5° | 116.6 | 118.1 | 119.7 | 121.3 | 122.9 | 122.6 | 120.5 | 118.3 | 116.1 | 114.0 | 92.1 |
| 105° | 161.8 | 162.6 | 163.2 | 164.0 | 164.7 | 165.3 | 166.0 | 166.5 | 167.1 | 167.8 | 168.8 |
| 107.5° | 203.9 | 204.2 | 204.6 | 204.9 | 205.3 | 205.9 | 206.7 | 207.5 | 208.3 | 209.2 | 209.7 |
| 110° | 232.2 | 232.6 | 233.0 | 233.4 | 233.7 | 234.2 | 235.0 | 235.6 | 236.4 | 237.1 | 237.3 |



TEST NUMBER: P332874-830

CATALOG NUMBER: SA4XXRDIP-C350D590U830-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 259.8 | 260.4 | 261.1 | 261.7 | 262.4 | 262.9 | 263.2 | 263.5 | 263.9 | 264.2 | 264.2 |
| 115° | 302.2 | 302.6 | 302.8 | 303.2 | 303.6 | 303.7 | 303.6 | 303.5 | 303.3 | 303.2 | 303.5 |
| 117.5° | 340.4 | 340.8 | 341.3 | 341.8 | 342.2 | 342.6 | 342.9 | 343.2 | 343.4 | 343.7 | 343.7 |
| 120° | 366.2 | 366.6 | 367.1 | 367.6 | 368.1 | 368.3 | 368.2 | 368.0 | 367.9 | 367.8 | 368.0 |
| 122.5° | 390.2 | 390.5 | 390.8 | 391.1 | 391.3 | 391.6 | 391.8 | 391.9 | 392.1 | 392.3 | 392.4 |
| 125° | 424.7 | 425.2 | 425.7 | 426.2 | 426.7 | 426.8 | 426.5 | 426.3 | 426.0 | 425.8 | 426.2 |
| 127.5° | 457.4 | 457.5 | 457.7 | 457.8 | 457.9 | 458.3 | 458.8 | 459.3 | 459.9 | 460.4 | 460.3 |
| 130° | 478.5 | 478.6 | 478.7 | 478.9 | 479.0 | 479.2 | 479.6 | 479.9 | 480.3 | 480.7 | 480.8 |
| 132.5° | 497.9 | 498.0 | 498.3 | 498.5 | 498.7 | 499.1 | 499.5 | 499.9 | 500.4 | 500.9 | 501.0 |
| 135° | 526.9 | 526.8 | 526.7 | 526.5 | 526.4 | 526.6 | 527.1 | 527.5 | 528.0 | 528.5 | 528.8 |
| 137.5° | 552.6 | 552.6 | 552.7 | 552.7 | 552.8 | 553.1 | 553.6 | 554.1 | 554.7 | 555.2 | 555.4 |
| 140° | 569.4 | 569.6 | 569.9 | 570.0 | 570.3 | 570.5 | 570.8 | 571.1 | 571.3 | 571.6 | 571.8 |
| 142.5° | 584.5 | 584.8 | 585.3 | 585.7 | 586.2 | 586.4 | 586.5 | 586.7 | 586.8 | 587.0 | 587.3 |
| 145° | 607.6 | 607.9 | 608.2 | 608.6 | 609.0 | 609.2 | 609.2 | 609.2 | 609.2 | 609.2 | 609.3 |
| 147.5° | 625.9 | 626.6 | 627.3 | 627.9 | 628.6 | 628.9 | 628.8 | 628.7 | 628.5 | 628.4 | 628.5 |
| 150° | 639.2 | 639.7 | 640.3 | 640.7 | 641.2 | 641.4 | 641.2 | 641.1 | 641.0 | 640.8 | 640.8 |
| 152.5° | 650.4 | 650.8 | 651.2 | 651.6 | 652.0 | 652.1 | 651.9 | 651.7 | 651.4 | 651.2 | 651.4 |
| 155° | 666.2 | 666.3 | 666.4 | 666.5 | 666.7 | 666.5 | 666.2 | 665.8 | 665.4 | 665.1 | 665.5 |
| 157.5° | 679.4 | 679.3 | 679.2 | 679.2 | 679.1 | 678.8 | 678.4 | 678.1 | 677.6 | 677.2 | 677.9 |
| 160° | 687.1 | 686.7 | 686.4 | 686.1 | 685.7 | 685.4 | 685.3 | 685.2 | 685.0 | 684.9 | 685.7 |
| 162.5° | 694.0 | 693.5 | 693.1 | 692.7 | 692.2 | 691.9 | 691.7 | 691.6 | 691.5 | 691.4 | 692.1 |
| 165° | 702.7 | 702.1 | 701.5 | 700.9 | 700.3 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 701.0 |
| 167.5° | 709.5 | 709.0 | 708.3 | 707.8 | 707.1 | 706.7 | 706.7 | 706.6 | 706.5 | 706.4 | 707.6 |
| 170° | 713.5 | 712.8 | 712.0 | 711.3 | 710.6 | 710.3 | 710.4 | 710.5 | 710.7 | 710.8 | 711.7 |
| 172.5° | 716.0 | 715.3 | 714.6 | 713.9 | 713.2 | 712.8 | 713.0 | 713.1 | 713.2 | 713.3 | 714.4 |
| 175° | 718.9 | 718.1 | 717.4 | 716.7 | 716.0 | 715.7 | 715.8 | 716.0 | 716.0 | 716.1 | 717.2 |
| 177.5° | 720.1 | 719.4 | 718.8 | 718.1 | 717.5 | 717.2 | 717.4 | 717.6 | 717.7 | 717.9 | 718.8 |
| 180° | 718.9 | 718.9 | 718.9 | 718.9 | 718.9 | 718.9 | 718.9 | 718.9 | 718.9 | 718.9 | 718.9 |



TEST NUMBER: P332874-830

CATALOG NUMBER: SA4XXRDIP-C350D590U830-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 582.7 | 582.7 | 582.7 | 582.7 | 582.7 | 582.7 | 582.7 | 582.7 |
| 2.5° | 580.5 | 581.4 | 582.2 | 582.6 | 582.5 | 582.5 | 582.4 | 582.3 |
| 5° | 576.6 | 577.6 | 578.6 | 579.0 | 578.8 | 578.6 | 578.3 | 578.2 |
| 7.5° | 568.9 | 569.6 | 570.2 | 570.3 | 570.0 | 569.8 | 569.4 | 569.1 |
| 10° | 562.0 | 562.4 | 562.8 | 562.8 | 562.4 | 562.0 | 561.7 | 561.3 |
| 12.5° | 553.5 | 553.7 | 554.0 | 553.8 | 553.3 | 552.7 | 552.1 | 551.6 |
| 15° | 538.6 | 538.4 | 538.1 | 537.7 | 537.0 | 536.3 | 535.6 | 534.9 |
| 17.5° | 520.5 | 520.0 | 519.4 | 518.6 | 517.6 | 516.5 | 515.5 | 514.4 |
| 20° | 507.9 | 507.1 | 506.3 | 505.3 | 504.0 | 502.7 | 501.4 | 500.1 |
| 22.5° | 493.9 | 492.7 | 491.5 | 490.4 | 489.4 | 488.3 | 487.3 | 486.2 |
| 25° | 471.3 | 469.7 | 468.0 | 466.7 | 465.6 | 464.6 | 463.6 | 462.6 |
| 27.5° | 448.3 | 446.2 | 444.1 | 442.4 | 440.9 | 439.5 | 438.1 | 436.7 |
| 30° | 431.8 | 429.3 | 426.9 | 424.8 | 423.2 | 421.7 | 420.1 | 418.5 |
| 32.5° | 415.0 | 412.1 | 409.3 | 407.0 | 405.5 | 404.0 | 402.5 | 401.0 |
| 35° | 389.8 | 386.5 | 383.1 | 380.6 | 378.8 | 377.0 | 375.2 | 373.4 |
| 37.5° | 363.0 | 359.2 | 355.4 | 352.6 | 350.8 | 349.0 | 347.2 | 345.4 |
| 40° | 345.0 | 340.8 | 336.7 | 333.8 | 332.0 | 330.2 | 328.4 | 326.6 |
| 42.5° | 327.3 | 323.1 | 318.9 | 315.8 | 314.0 | 312.1 | 310.2 | 308.4 |
| 45° | 300.4 | 295.5 | 290.6 | 287.3 | 285.5 | 283.7 | 281.9 | 280.2 |
| 47.5° | 273.1 | 268.1 | 263.1 | 259.6 | 257.6 | 255.6 | 253.6 | 251.8 |
| 50° | 255.1 | 250.2 | 245.2 | 241.8 | 239.9 | 238.0 | 236.1 | 234.2 |
| 52.5° | 237.0 | 232.1 | 227.1 | 223.5 | 221.6 | 219.6 | 217.6 | 215.7 |
| 55° | 210.6 | 205.4 | 200.2 | 196.7 | 194.8 | 192.9 | 191.1 | 189.2 |
| 57.5° | 184.5 | 179.4 | 174.1 | 170.8 | 169.4 | 168.0 | 166.5 | 165.0 |
| 60° | 167.2 | 162.1 | 156.9 | 153.5 | 151.9 | 150.4 | 148.8 | 147.2 |
| 62.5° | 150.2 | 145.4 | 140.7 | 137.7 | 136.4 | 135.2 | 133.8 | 132.6 |
| 65° | 125.7 | 121.5 | 117.3 | 114.5 | 113.3 | 112.2 | 110.9 | 109.7 |
| 67.5° | 103.3 | 99.6 | 96.0 | 93.5 | 92.2 | 90.9 | 89.5 | 88.2 |
| 70° | 88.0 | 84.7 | 81.5 | 79.4 | 78.3 | 77.4 | 76.3 | 75.4 |
| 72.5° | 74.4 | 71.5 | 68.8 | 66.9 | 66.0 | 65.1 | 64.2 | 63.2 |
| 75° | 54.8 | 52.5 | 50.2 | 48.8 | 48.2 | 47.6 | 47.0 | 46.4 |
| 77.5° | 38.7 | 37.4 | 36.1 | 35.3 | 35.2 | 35.0 | 34.8 | 34.6 |
| 80° | 29.8 | 29.4 | 29.1 | 28.9 | 28.8 | 28.7 | 28.7 | 28.6 |
| 82.5° | 23.1 | 22.9 | 22.7 | 22.5 | 22.4 | 22.3 | 22.2 | 22.1 |
| 85° | 13.5 | 13.2 | 13.0 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 |
| 87.5° | 7.4 | 7.5 | 7.6 | 7.7 | 7.8 | 8.0 | 8.1 | 8.2 |
| 90° | 13.3 | 13.9 | 14.7 | 15.2 | 15.5 | 15.6 | 15.9 | 16.1 |
| 92.5° | 12.8 | 13.6 | 14.2 | 14.6 | 14.7 | 14.7 | 14.8 | 14.8 |
| 95° | 13.3 | 13.9 | 14.7 | 15.1 | 15.3 | 15.4 | 15.5 | 15.6 |
| 97.5° | 14.3 | 14.4 | 14.5 | 14.6 | 14.7 | 14.8 | 14.9 | 15.1 |
| 100° | 19.6 | 17.5 | 15.6 | 14.6 | 14.7 | 14.8 | 14.9 | 15.1 |
| 102.5° | 70.1 | 48.3 | 26.3 | 15.4 | 15.5 | 15.5 | 15.5 | 15.5 |
| 105° | 169.9 | 171.0 | 172.0 | 170.4 | 166.2 | 161.8 | 157.5 | 153.3 |
| 107.5° | 210.2 | 210.8 | 211.2 | 211.7 | 212.2 | 212.6 | 213.1 | 213.6 |
| 110° | 237.6 | 237.8 | 238.1 | 238.4 | 238.7 | 239.0 | 239.4 | 239.8 |



TEST NUMBER: P332874-830

CATALOG NUMBER: SA4XXRDIP-C350D590U830-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 264.1 | 264.1 | 264.0 | 264.2 | 264.7 | 265.1 | 265.6 | 266.0 |
| 115° | 303.7 | 304.0 | 304.2 | 304.3 | 304.3 | 304.3 | 304.3 | 304.3 |
| 117.5° | 343.6 | 343.6 | 343.5 | 343.5 | 343.4 | 343.4 | 343.3 | 343.3 |
| 120° | 368.3 | 368.4 | 368.7 | 368.7 | 368.4 | 368.3 | 368.0 | 367.8 |
| 122.5° | 392.6 | 392.7 | 392.9 | 392.8 | 392.6 | 392.3 | 392.1 | 391.8 |
| 125° | 426.5 | 426.9 | 427.3 | 427.5 | 427.6 | 427.7 | 427.8 | 428.0 |
| 127.5° | 460.3 | 460.2 | 460.1 | 460.1 | 460.0 | 459.9 | 459.8 | 459.7 |
| 130° | 480.9 | 481.0 | 481.2 | 481.2 | 481.2 | 481.2 | 481.2 | 481.2 |
| 132.5° | 501.1 | 501.2 | 501.3 | 501.3 | 501.2 | 501.1 | 501.1 | 501.0 |
| 135° | 529.0 | 529.2 | 529.4 | 529.7 | 529.9 | 530.2 | 530.5 | 530.7 |
| 137.5° | 555.7 | 556.0 | 556.2 | 556.3 | 556.3 | 556.2 | 556.1 | 556.0 |
| 140° | 572.2 | 572.6 | 573.0 | 573.2 | 573.3 | 573.4 | 573.5 | 573.6 |
| 142.5° | 587.5 | 587.8 | 588.1 | 588.2 | 588.2 | 588.2 | 588.2 | 588.3 |
| 145° | 609.4 | 609.5 | 609.6 | 609.8 | 610.0 | 610.3 | 610.6 | 610.8 |
| 147.5° | 628.6 | 628.7 | 628.8 | 628.9 | 629.1 | 629.1 | 629.2 | 629.3 |
| 150° | 640.8 | 640.8 | 640.8 | 640.9 | 641.0 | 641.2 | 641.3 | 641.4 |
| 152.5° | 651.6 | 651.8 | 652.0 | 652.1 | 652.0 | 651.9 | 651.8 | 651.8 |
| 155° | 666.0 | 666.5 | 666.9 | 667.0 | 666.7 | 666.3 | 666.0 | 665.6 |
| 157.5° | 678.4 | 679.1 | 679.7 | 679.7 | 679.1 | 678.4 | 677.9 | 677.2 |
| 160° | 686.4 | 687.1 | 687.9 | 687.9 | 687.1 | 686.4 | 685.7 | 684.9 |
| 162.5° | 692.9 | 693.5 | 694.3 | 694.3 | 693.4 | 692.6 | 691.8 | 691.0 |
| 165° | 701.9 | 702.9 | 703.9 | 703.8 | 702.7 | 701.6 | 700.6 | 699.5 |
| 167.5° | 708.6 | 709.6 | 710.7 | 710.6 | 709.5 | 708.2 | 707.0 | 705.9 |
| 170° | 712.7 | 713.6 | 714.6 | 714.4 | 713.3 | 712.1 | 710.9 | 709.7 |
| 172.5° | 715.3 | 716.2 | 717.2 | 717.0 | 715.8 | 714.4 | 713.1 | 711.8 |
| 175° | 718.3 | 719.3 | 720.5 | 720.3 | 718.9 | 717.4 | 716.0 | 714.5 |
| 177.5° | 719.5 | 720.3 | 721.0 | 720.9 | 719.7 | 718.6 | 717.4 | 716.2 |
| 180° | 718.9 | 718.9 | 718.9 | 718.9 | 718.9 | 718.9 | 718.9 | 718.9 |

(END OF REPORT)