

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: P332547

Luminaire Tested: **SA4XXDIP-C575D590U835-4F0-1E-UDD-D**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332547
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-C575D590U835-4F0-1E-UDD-D
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 575 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 590 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

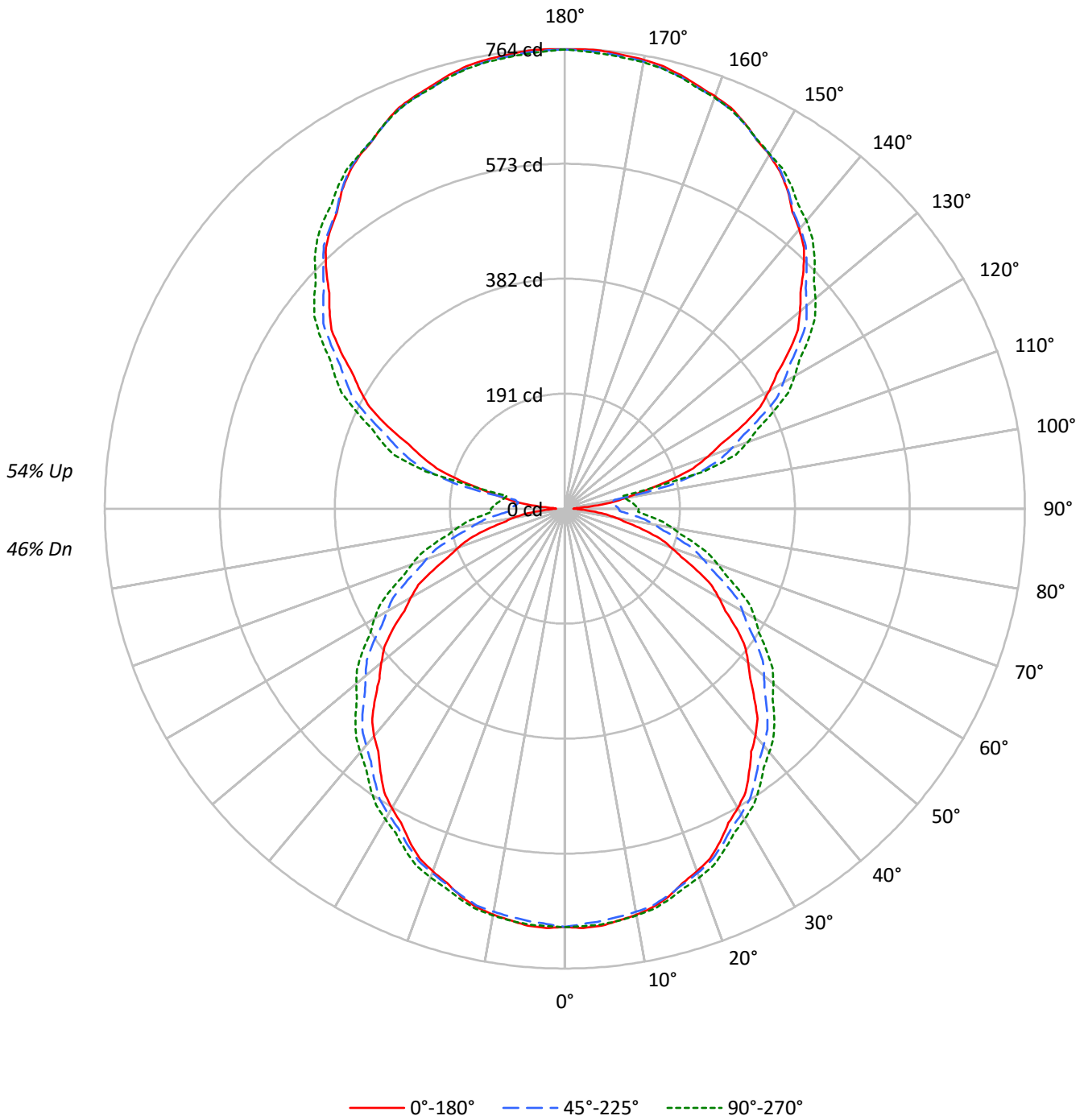
Lumens per Lamp: N/A
Luminaire Lumens: 4730.1 lumens
Efficiency: N/A
Efficacy: 144.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')
CIE Type: General Diffuse

Input Watts (W): 32.8
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: P332547
CATALOG NUMBER: SA4XXDIP-C575D590U835-4F0-1E-UDD-D

Luminous Intensity Polar Plot





TEST NUMBER: P332547

CATALOG NUMBER: SA4XXDIP-C575D590U835-4F0-1E-UDD-D

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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 106 | 106 | 106 | 106 | 98 | 98 | 98 | 98 | 81 | 81 | 81 | 66 | 66 | 66 | 53 | 53 | 53 | 46 |
| 1 | 96 | 91 | 87 | 83 | 88 | 84 | 80 | 77 | 70 | 67 | 65 | 57 | 55 | 53 | 45 | 44 | 43 | 37 |
| 2 | 87 | 79 | 73 | 67 | 79 | 73 | 67 | 62 | 61 | 56 | 53 | 49 | 46 | 44 | 39 | 37 | 35 | 30 |
| 3 | 79 | 69 | 62 | 55 | 72 | 64 | 57 | 52 | 53 | 48 | 44 | 43 | 40 | 37 | 34 | 32 | 29 | 25 |
| 4 | 72 | 61 | 53 | 47 | 66 | 56 | 49 | 43 | 47 | 41 | 37 | 38 | 34 | 31 | 30 | 28 | 25 | 21 |
| 5 | 66 | 54 | 46 | 40 | 60 | 50 | 43 | 37 | 42 | 36 | 32 | 34 | 30 | 27 | 27 | 24 | 22 | 18 |
| 6 | 61 | 48 | 40 | 34 | 56 | 45 | 37 | 32 | 38 | 32 | 28 | 31 | 27 | 23 | 25 | 21 | 19 | 16 |
| 7 | 56 | 44 | 36 | 30 | 51 | 40 | 33 | 28 | 34 | 28 | 24 | 28 | 24 | 20 | 23 | 19 | 17 | 14 |
| 8 | 52 | 40 | 32 | 26 | 48 | 37 | 30 | 25 | 31 | 25 | 21 | 26 | 21 | 18 | 21 | 17 | 15 | 12 |
| 9 | 48 | 36 | 28 | 23 | 44 | 33 | 27 | 22 | 28 | 23 | 19 | 24 | 19 | 16 | 19 | 16 | 13 | 11 |
| 10 | 45 | 33 | 26 | 21 | 41 | 31 | 24 | 20 | 26 | 21 | 17 | 22 | 18 | 15 | 18 | 14 | 12 | 10 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 5610 | 5610 | 5610 |
| 5° | 5628 | 5483 | 5498 |
| 10° | 5593 | 5393 | 5388 |
| 15° | 5543 | 5289 | 5260 |
| 20° | 5467 | 5175 | 5135 |
| 25° | 5382 | 5046 | 4997 |
| 30° | 5290 | 4919 | 4856 |
| 35° | 5185 | 4787 | 4732 |
| 40° | 5102 | 4663 | 4603 |
| 45° | 4978 | 4549 | 4492 |
| 50° | 4873 | 4416 | 4375 |
| 55° | 4765 | 4291 | 4237 |
| 60° | 4596 | 4132 | 4112 |
| 65° | 4410 | 3962 | 3958 |
| 70° | 4186 | 3768 | 3778 |
| 75° | 3872 | 3553 | 3616 |
| 80° | 3526 | 3347 | 3457 |
| 85° | 3082 | 3163 | 3364 |



TEST NUMBER: P332547

CATALOG NUMBER: SA4XXDIP-C575D590U835-4F0-1E-UDD-D

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 65.8 | 1.4 |
| 10°-20° | 188.5 | 4.0 |
| 20°-30° | 285.1 | 6.0 |
| 30°-40° | 344.9 | 7.3 |
| 40°-50° | 364.7 | 7.7 |
| 50°-60° | 343.2 | 7.3 |
| 60°-70° | 284.7 | 6.0 |
| 70°-80° | 200.0 | 4.2 |
| 80°-90° | 115.3 | 2.4 |
| 90°-100° | 93.2 | 2.0 |
| 100°-110° | 216.0 | 4.6 |
| 110°-120° | 351.5 | 7.4 |
| 120°-130° | 422.7 | 8.9 |
| 130°-140° | 440.3 | 9.3 |
| 140°-150° | 405.7 | 8.6 |
| 150°-160° | 325.9 | 6.9 |
| 160°-170° | 210.2 | 4.4 |
| 170°-180° | 72.4 | 1.5 |
| 0°-30° | 539.4 | 11.4 |
| 0°-40° | 884.4 | 18.7 |
| 0°-60° | 1592.2 | 33.7 |
| 0°-90° | 2192.2 | 46.3 |
| 90°-120° | 660.7 | 14.0 |
| 90°-150° | 1929.4 | 40.8 |
| 90°-180° | 2538.0 | 53.7 |
| 0°-180° | 4730.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 695 | 695 | 695 | 695 | 695 | |
| 5° | 696 | 693 | 688 | 694 | 693 | 66 |
| 15° | 667 | 668 | 665 | 672 | 672 | 188 |
| 25° | 610 | 615 | 617 | 625 | 626 | 281 |
| 35° | 534 | 543 | 551 | 561 | 564 | 334 |
| 45° | 445 | 460 | 475 | 487 | 492 | 344 |
| 55° | 349 | 365 | 388 | 403 | 408 | 311 |
| 65° | 241 | 266 | 293 | 311 | 318 | 239 |
| 75° | 134 | 163 | 195 | 216 | 224 | 142 |
| 85° | 41 | 74 | 109 | 131 | 140 | 44 |
| 90° | 14 | 52 | 90 | 115 | 123 | 10 |
| 95° | 42 | 49 | 80 | 104 | 112 | 48 |
| 105° | 179 | 198 | 229 | 252 | 240 | 188 |
| 115° | 325 | 335 | 358 | 376 | 382 | 320 |
| 125° | 454 | 456 | 474 | 489 | 495 | 405 |
| 135° | 561 | 560 | 568 | 581 | 587 | 432 |
| 145° | 645 | 646 | 646 | 651 | 656 | 403 |
| 155° | 707 | 707 | 706 | 708 | 706 | 326 |
| 165° | 746 | 743 | 743 | 747 | 742 | 211 |
| 175° | 763 | 759 | 760 | 764 | 758 | 73 |
| 180° | 763 | 763 | 763 | 763 | 763 | |



TEST NUMBER: P332547

CATALOG NUMBER: SA4XXDIP-C575D590U835-4F0-1E-UDD-D

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 694.9 | 694.9 | 694.9 | 694.9 | 694.9 | 694.9 | 694.9 | 694.9 | 694.9 | 694.9 | 694.9 |
| 2.5° | 697.4 | 697.0 | 696.6 | 696.1 | 695.7 | 695.0 | 693.9 | 692.8 | 691.6 | 690.5 | 691.5 |
| 5° | 695.7 | 695.2 | 694.6 | 694.1 | 693.6 | 692.7 | 691.5 | 690.3 | 689.1 | 687.9 | 689.3 |
| 7.5° | 689.8 | 689.4 | 689.1 | 688.8 | 688.5 | 687.9 | 686.9 | 685.9 | 684.8 | 683.8 | 685.4 |
| 10° | 684.8 | 684.6 | 684.4 | 684.3 | 684.1 | 683.6 | 682.7 | 681.8 | 681.0 | 680.1 | 681.7 |
| 12.5° | 677.9 | 677.9 | 677.9 | 677.8 | 677.8 | 677.5 | 676.9 | 676.3 | 675.7 | 675.1 | 676.5 |
| 15° | 666.9 | 667.1 | 667.2 | 667.4 | 667.6 | 667.4 | 666.9 | 666.4 | 665.8 | 665.3 | 666.9 |
| 17.5° | 651.8 | 652.3 | 652.8 | 653.3 | 653.9 | 654.1 | 654.0 | 653.9 | 653.8 | 653.7 | 655.2 |
| 20° | 641.2 | 641.7 | 642.2 | 642.8 | 643.3 | 643.6 | 643.8 | 644.0 | 644.1 | 644.3 | 646.0 |
| 22.5° | 629.4 | 630.0 | 630.7 | 631.3 | 632.0 | 632.5 | 632.8 | 633.1 | 633.4 | 633.7 | 635.5 |
| 25° | 610.1 | 611.1 | 612.2 | 613.2 | 614.2 | 615.0 | 615.5 | 616.0 | 616.6 | 617.1 | 619.0 |
| 27.5° | 588.6 | 590.1 | 591.6 | 593.2 | 594.7 | 595.8 | 596.6 | 597.4 | 598.2 | 599.0 | 600.8 |
| 30° | 574.3 | 575.7 | 577.0 | 578.4 | 579.8 | 581.1 | 582.3 | 583.5 | 584.7 | 586.0 | 587.9 |
| 32.5° | 558.7 | 560.4 | 562.0 | 563.7 | 565.4 | 566.9 | 568.2 | 569.6 | 570.9 | 572.3 | 574.4 |
| 35° | 533.8 | 535.9 | 538.0 | 540.0 | 542.1 | 544.0 | 545.7 | 547.5 | 549.2 | 550.9 | 553.4 |
| 37.5° | 508.8 | 511.1 | 513.5 | 515.9 | 518.3 | 520.6 | 522.7 | 524.9 | 527.0 | 529.1 | 531.6 |
| 40° | 492.6 | 494.8 | 497.1 | 499.3 | 501.6 | 503.9 | 506.3 | 508.7 | 511.2 | 513.6 | 516.2 |
| 42.5° | 473.9 | 476.4 | 478.9 | 481.5 | 484.0 | 486.7 | 489.5 | 492.3 | 495.2 | 498.0 | 500.9 |
| 45° | 445.1 | 448.4 | 451.7 | 455.0 | 458.2 | 461.5 | 464.8 | 468.1 | 471.4 | 474.7 | 477.6 |
| 47.5° | 417.6 | 420.9 | 424.3 | 427.7 | 431.1 | 434.7 | 438.5 | 442.3 | 446.1 | 449.9 | 453.0 |
| 50° | 397.6 | 401.4 | 405.2 | 409.1 | 412.9 | 416.7 | 420.5 | 424.3 | 428.1 | 431.9 | 435.3 |
| 52.5° | 377.7 | 381.5 | 385.3 | 389.1 | 392.9 | 397.0 | 401.4 | 405.7 | 410.1 | 414.4 | 417.9 |
| 55° | 348.6 | 352.2 | 355.9 | 359.5 | 363.1 | 367.5 | 372.7 | 377.9 | 383.1 | 388.3 | 391.8 |
| 57.5° | 316.1 | 320.6 | 325.1 | 329.6 | 334.1 | 338.9 | 344.0 | 349.2 | 354.4 | 359.5 | 363.6 |
| 60° | 294.9 | 299.4 | 303.9 | 308.4 | 312.9 | 318.0 | 323.7 | 329.4 | 335.1 | 340.8 | 344.8 |
| 62.5° | 274.4 | 279.3 | 284.2 | 289.1 | 294.0 | 299.3 | 305.0 | 310.7 | 316.5 | 322.2 | 326.1 |
| 65° | 241.2 | 246.8 | 252.3 | 257.8 | 263.4 | 269.1 | 274.9 | 280.8 | 286.7 | 292.6 | 296.9 |
| 67.5° | 209.3 | 215.2 | 221.1 | 227.0 | 232.8 | 238.9 | 245.2 | 251.5 | 257.8 | 264.1 | 268.5 |
| 70° | 187.5 | 193.4 | 199.3 | 205.2 | 211.1 | 217.3 | 223.8 | 230.4 | 237.0 | 243.6 | 248.2 |
| 72.5° | 166.4 | 172.4 | 178.4 | 184.4 | 190.4 | 196.9 | 203.9 | 210.9 | 217.9 | 224.9 | 229.4 |
| 75° | 133.8 | 140.2 | 146.6 | 153.0 | 159.4 | 166.3 | 173.5 | 180.8 | 188.1 | 195.3 | 200.2 |
| 77.5° | 103.5 | 110.3 | 117.1 | 123.8 | 130.6 | 137.8 | 145.4 | 153.0 | 160.6 | 168.2 | 173.1 |
| 80° | 84.8 | 91.7 | 98.7 | 105.6 | 112.5 | 119.7 | 127.4 | 135.0 | 142.6 | 150.2 | 155.4 |
| 82.5° | 66.1 | 73.3 | 80.5 | 87.7 | 94.9 | 102.3 | 109.9 | 117.5 | 125.1 | 132.8 | 138.1 |
| 85° | 41.2 | 48.5 | 55.8 | 63.0 | 70.3 | 77.8 | 85.6 | 93.4 | 101.2 | 108.9 | 114.1 |
| 87.5° | 23.4 | 30.7 | 38.0 | 45.4 | 52.7 | 60.3 | 68.0 | 75.8 | 83.6 | 91.4 | 96.5 |
| 90° | 14.2 | 22.5 | 30.8 | 39.1 | 47.4 | 55.8 | 64.2 | 72.7 | 81.1 | 89.6 | 95.4 |
| 92.5° | 19.0 | 25.3 | 31.6 | 37.9 | 44.2 | 51.6 | 60.0 | 68.5 | 76.9 | 85.4 | 91.0 |
| 95° | 41.5 | 42.9 | 44.3 | 45.7 | 47.1 | 51.4 | 58.6 | 65.8 | 73.0 | 80.2 | 85.7 |
| 97.5° | 75.8 | 83.4 | 91.0 | 98.6 | 106.2 | 106.4 | 99.3 | 92.2 | 85.1 | 77.9 | 82.5 |
| 100° | 102.1 | 108.9 | 115.7 | 122.4 | 129.2 | 127.2 | 116.5 | 105.7 | 95.0 | 84.2 | 86.8 |
| 102.5° | 132.2 | 137.8 | 143.5 | 149.1 | 154.7 | 159.7 | 164.0 | 168.3 | 172.6 | 177.0 | 158.2 |
| 105° | 178.7 | 182.9 | 187.1 | 191.4 | 195.6 | 201.2 | 208.2 | 215.3 | 222.3 | 229.3 | 234.8 |
| 107.5° | 223.2 | 226.4 | 229.6 | 232.8 | 236.0 | 241.1 | 248.0 | 254.9 | 261.8 | 268.7 | 273.6 |
| 110° | 252.6 | 255.5 | 258.3 | 261.1 | 263.9 | 268.7 | 275.5 | 282.3 | 289.1 | 295.9 | 300.1 |



TEST NUMBER: P332547

CATALOG NUMBER: SA4XXDIP-C575D590U835-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 281.2 | 284.1 | 286.9 | 289.7 | 292.5 | 297.0 | 303.2 | 309.3 | 315.4 | 321.5 | 325.3 |
| 115° | 325.2 | 327.2 | 329.1 | 331.1 | 333.0 | 336.7 | 342.1 | 347.5 | 352.9 | 358.3 | 362.4 |
| 117.5° | 365.6 | 367.0 | 368.5 | 369.9 | 371.4 | 374.8 | 380.2 | 385.7 | 391.1 | 396.5 | 400.1 |
| 120° | 392.4 | 393.4 | 394.4 | 395.4 | 396.5 | 399.4 | 404.3 | 409.2 | 414.1 | 419.0 | 422.7 |
| 122.5° | 417.9 | 418.3 | 418.7 | 419.1 | 419.5 | 422.2 | 427.1 | 432.0 | 436.9 | 441.9 | 445.5 |
| 125° | 453.7 | 454.1 | 454.4 | 454.8 | 455.1 | 457.3 | 461.4 | 465.4 | 469.5 | 473.6 | 477.2 |
| 127.5° | 488.3 | 488.2 | 488.2 | 488.1 | 488.1 | 490.0 | 493.9 | 497.8 | 501.7 | 505.6 | 508.7 |
| 130° | 510.0 | 510.0 | 509.9 | 509.9 | 509.8 | 511.4 | 514.5 | 517.7 | 520.8 | 524.0 | 527.2 |
| 132.5° | 530.5 | 530.6 | 530.7 | 530.7 | 530.8 | 532.1 | 534.8 | 537.5 | 540.2 | 542.9 | 546.0 |
| 135° | 560.6 | 560.4 | 560.3 | 560.2 | 560.1 | 560.9 | 562.6 | 564.3 | 566.0 | 567.7 | 570.8 |
| 137.5° | 587.8 | 587.7 | 587.6 | 587.5 | 587.4 | 587.9 | 589.0 | 590.2 | 591.3 | 592.4 | 595.2 |
| 140° | 605.6 | 605.7 | 605.8 | 605.9 | 606.0 | 606.2 | 606.6 | 607.1 | 607.5 | 607.9 | 610.5 |
| 142.5° | 621.0 | 621.4 | 621.8 | 622.3 | 622.7 | 622.9 | 623.0 | 623.0 | 623.1 | 623.1 | 625.4 |
| 145° | 645.4 | 645.6 | 645.8 | 646.0 | 646.2 | 646.3 | 646.3 | 646.3 | 646.3 | 646.3 | 647.5 |
| 147.5° | 664.9 | 665.4 | 665.9 | 666.5 | 667.0 | 667.2 | 667.1 | 667.0 | 666.8 | 666.7 | 667.0 |
| 150° | 679.0 | 679.3 | 679.7 | 680.0 | 680.4 | 680.5 | 680.3 | 680.2 | 680.1 | 679.9 | 679.9 |
| 152.5° | 690.3 | 690.6 | 691.0 | 691.4 | 691.7 | 691.8 | 691.6 | 691.4 | 691.1 | 690.9 | 691.1 |
| 155° | 706.8 | 706.9 | 707.0 | 707.1 | 707.3 | 707.1 | 706.8 | 706.4 | 706.0 | 705.6 | 706.1 |
| 157.5° | 720.8 | 720.7 | 720.6 | 720.6 | 720.5 | 720.2 | 719.8 | 719.4 | 718.9 | 718.5 | 719.2 |
| 160° | 729.0 | 728.6 | 728.2 | 727.9 | 727.5 | 727.2 | 727.1 | 727.0 | 726.8 | 726.7 | 727.5 |
| 162.5° | 736.3 | 735.8 | 735.3 | 734.9 | 734.4 | 734.1 | 733.9 | 733.8 | 733.7 | 733.6 | 734.3 |
| 165° | 745.5 | 744.9 | 744.3 | 743.6 | 743.0 | 742.7 | 742.7 | 742.7 | 742.7 | 742.7 | 743.7 |
| 167.5° | 752.8 | 752.2 | 751.5 | 750.9 | 750.2 | 749.8 | 749.8 | 749.7 | 749.6 | 749.5 | 750.7 |
| 170° | 757.0 | 756.2 | 755.4 | 754.7 | 753.9 | 753.6 | 753.7 | 753.8 | 754.0 | 754.1 | 755.1 |
| 172.5° | 759.7 | 758.9 | 758.2 | 757.4 | 756.7 | 756.3 | 756.5 | 756.6 | 756.7 | 756.8 | 757.9 |
| 175° | 762.7 | 761.9 | 761.1 | 760.4 | 759.6 | 759.3 | 759.4 | 759.6 | 759.7 | 759.8 | 760.9 |
| 177.5° | 764.0 | 763.3 | 762.6 | 761.9 | 761.2 | 760.9 | 761.1 | 761.3 | 761.5 | 761.7 | 762.6 |
| 180° | 762.7 | 762.7 | 762.7 | 762.7 | 762.7 | 762.7 | 762.7 | 762.7 | 762.7 | 762.7 | 762.7 |



TEST NUMBER: P332547

CATALOG NUMBER: SA4XXDIP-C575D590U835-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 694.9 | 694.9 | 694.9 | 694.9 | 694.9 | 694.9 | 694.9 | 694.9 |
| 2.5° | 692.5 | 693.4 | 694.4 | 694.8 | 694.7 | 694.5 | 694.4 | 694.3 |
| 5° | 690.7 | 692.0 | 693.4 | 694.0 | 693.9 | 693.7 | 693.5 | 693.3 |
| 7.5° | 687.0 | 688.5 | 690.1 | 690.8 | 690.6 | 690.4 | 690.2 | 690.1 |
| 10° | 683.2 | 684.8 | 686.3 | 687.0 | 686.9 | 686.7 | 686.5 | 686.3 |
| 12.5° | 678.0 | 679.4 | 680.8 | 681.5 | 681.5 | 681.4 | 681.4 | 681.4 |
| 15° | 668.4 | 670.0 | 671.5 | 672.2 | 672.1 | 671.9 | 671.7 | 671.5 |
| 17.5° | 656.8 | 658.4 | 660.0 | 660.7 | 660.6 | 660.5 | 660.3 | 660.2 |
| 20° | 647.8 | 649.5 | 651.2 | 652.1 | 652.1 | 652.1 | 652.1 | 652.1 |
| 22.5° | 637.2 | 638.9 | 640.6 | 641.7 | 641.9 | 642.2 | 642.5 | 642.8 |
| 25° | 620.9 | 622.8 | 624.7 | 625.7 | 625.9 | 626.1 | 626.2 | 626.4 |
| 27.5° | 602.6 | 604.3 | 606.1 | 607.1 | 607.3 | 607.5 | 607.7 | 607.9 |
| 30° | 589.8 | 591.7 | 593.6 | 594.7 | 595.0 | 595.4 | 595.7 | 596.1 |
| 32.5° | 576.6 | 578.8 | 581.0 | 582.2 | 582.6 | 582.9 | 583.3 | 583.6 |
| 35° | 555.8 | 558.2 | 560.6 | 562.1 | 562.6 | 563.1 | 563.6 | 564.2 |
| 37.5° | 534.1 | 536.5 | 539.0 | 540.5 | 541.0 | 541.6 | 542.1 | 542.7 |
| 40° | 518.8 | 521.4 | 524.0 | 525.6 | 526.3 | 527.0 | 527.7 | 528.4 |
| 42.5° | 503.8 | 506.6 | 509.5 | 511.2 | 511.8 | 512.3 | 512.9 | 513.4 |
| 45° | 480.6 | 483.5 | 486.4 | 488.3 | 489.2 | 490.1 | 490.9 | 491.8 |
| 47.5° | 456.0 | 459.1 | 462.1 | 464.1 | 465.2 | 466.2 | 467.3 | 468.3 |
| 50° | 438.8 | 442.3 | 445.7 | 448.0 | 449.0 | 450.0 | 451.1 | 452.1 |
| 52.5° | 421.4 | 424.8 | 428.3 | 430.5 | 431.6 | 432.6 | 433.6 | 434.7 |
| 55° | 395.2 | 398.7 | 402.1 | 404.4 | 405.4 | 406.5 | 407.5 | 408.5 |
| 57.5° | 367.7 | 371.9 | 376.0 | 378.5 | 379.5 | 380.4 | 381.4 | 382.4 |
| 60° | 348.8 | 352.8 | 356.7 | 359.4 | 360.8 | 362.2 | 363.6 | 365.0 |
| 62.5° | 330.1 | 334.1 | 338.1 | 340.7 | 342.1 | 343.5 | 344.9 | 346.3 |
| 65° | 301.2 | 305.6 | 309.9 | 312.7 | 314.1 | 315.5 | 316.9 | 318.3 |
| 67.5° | 272.9 | 277.3 | 281.7 | 284.5 | 285.9 | 287.2 | 288.6 | 289.9 |
| 70° | 252.9 | 257.6 | 262.2 | 265.2 | 266.4 | 267.6 | 268.8 | 270.0 |
| 72.5° | 233.9 | 238.5 | 243.0 | 245.9 | 247.3 | 248.6 | 250.0 | 251.3 |
| 75° | 205.0 | 209.8 | 214.7 | 217.9 | 219.4 | 221.0 | 222.6 | 224.1 |
| 77.5° | 178.1 | 183.0 | 187.9 | 191.2 | 192.8 | 194.5 | 196.1 | 197.8 |
| 80° | 160.6 | 165.7 | 170.9 | 174.2 | 175.6 | 177.0 | 178.4 | 179.8 |
| 82.5° | 143.4 | 148.7 | 154.1 | 157.5 | 159.0 | 160.5 | 162.0 | 163.6 |
| 85° | 119.3 | 124.5 | 129.7 | 133.2 | 134.9 | 136.6 | 138.3 | 140.1 |
| 87.5° | 101.7 | 106.9 | 112.0 | 115.4 | 117.0 | 118.6 | 120.1 | 121.7 |
| 90° | 101.1 | 106.9 | 112.7 | 116.4 | 118.0 | 119.7 | 121.3 | 122.9 |
| 92.5° | 96.7 | 102.3 | 107.9 | 111.5 | 112.9 | 114.3 | 115.8 | 117.2 |
| 95° | 91.1 | 96.5 | 102.0 | 105.5 | 107.2 | 108.9 | 110.6 | 112.3 |
| 97.5° | 87.1 | 91.8 | 96.4 | 99.5 | 101.1 | 102.7 | 104.3 | 105.9 |
| 100° | 89.3 | 91.8 | 94.3 | 96.2 | 97.6 | 98.9 | 100.2 | 101.6 |
| 102.5° | 139.5 | 120.8 | 102.1 | 93.4 | 94.8 | 96.2 | 97.5 | 98.9 |
| 105° | 240.3 | 245.7 | 251.2 | 252.3 | 249.1 | 246.0 | 242.8 | 239.6 |
| 107.5° | 278.4 | 283.2 | 288.0 | 291.3 | 293.0 | 294.7 | 296.4 | 298.2 |
| 110° | 304.4 | 308.6 | 312.8 | 315.8 | 317.6 | 319.4 | 321.1 | 322.9 |



TEST NUMBER: P332547

CATALOG NUMBER: SA4XXDIP-C575D590U835-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 329.1 | 332.9 | 336.7 | 339.5 | 341.4 | 343.3 | 345.1 | 347.0 |
| 115° | 366.4 | 370.5 | 374.5 | 377.2 | 378.4 | 379.6 | 380.8 | 382.0 |
| 117.5° | 403.6 | 407.2 | 410.7 | 413.1 | 414.5 | 415.8 | 417.1 | 418.5 |
| 120° | 426.4 | 430.1 | 433.8 | 436.2 | 437.4 | 438.5 | 439.6 | 440.8 |
| 122.5° | 449.1 | 452.7 | 456.3 | 458.6 | 459.6 | 460.6 | 461.6 | 462.6 |
| 125° | 480.9 | 484.6 | 488.2 | 490.6 | 491.8 | 493.0 | 494.1 | 495.3 |
| 127.5° | 511.7 | 514.7 | 517.8 | 519.8 | 520.9 | 522.0 | 523.1 | 524.1 |
| 130° | 530.4 | 533.7 | 536.9 | 539.1 | 540.1 | 541.1 | 542.2 | 543.2 |
| 132.5° | 549.1 | 552.2 | 555.3 | 557.3 | 558.3 | 559.2 | 560.2 | 561.1 |
| 135° | 573.8 | 576.8 | 579.8 | 582.0 | 583.3 | 584.6 | 585.8 | 587.1 |
| 137.5° | 598.1 | 600.9 | 603.7 | 605.5 | 606.2 | 607.0 | 607.8 | 608.6 |
| 140° | 613.2 | 615.8 | 618.4 | 620.2 | 621.2 | 622.2 | 623.2 | 624.2 |
| 142.5° | 627.6 | 629.9 | 632.1 | 633.6 | 634.4 | 635.1 | 635.9 | 636.6 |
| 145° | 648.6 | 649.8 | 650.9 | 652.0 | 652.9 | 653.9 | 654.8 | 655.8 |
| 147.5° | 667.2 | 667.4 | 667.7 | 668.1 | 668.8 | 669.5 | 670.2 | 670.9 |
| 150° | 679.9 | 679.9 | 679.9 | 680.0 | 680.1 | 680.3 | 680.4 | 680.5 |
| 152.5° | 691.3 | 691.5 | 691.7 | 691.8 | 691.7 | 691.6 | 691.5 | 691.5 |
| 155° | 706.6 | 707.1 | 707.6 | 707.7 | 707.3 | 706.9 | 706.6 | 706.2 |
| 157.5° | 719.8 | 720.5 | 721.1 | 721.1 | 720.5 | 719.8 | 719.2 | 718.5 |
| 160° | 728.2 | 729.0 | 729.8 | 729.8 | 729.0 | 728.2 | 727.5 | 726.7 |
| 162.5° | 735.1 | 735.8 | 736.6 | 736.6 | 735.7 | 734.8 | 734.0 | 733.1 |
| 165° | 744.7 | 745.7 | 746.8 | 746.7 | 745.5 | 744.4 | 743.3 | 742.1 |
| 167.5° | 751.8 | 752.9 | 754.0 | 753.9 | 752.7 | 751.4 | 750.1 | 748.9 |
| 170° | 756.1 | 757.1 | 758.2 | 758.0 | 756.8 | 755.5 | 754.2 | 753.0 |
| 172.5° | 758.9 | 759.9 | 760.9 | 760.7 | 759.4 | 758.0 | 756.6 | 755.2 |
| 175° | 762.1 | 763.2 | 764.4 | 764.2 | 762.7 | 761.1 | 759.6 | 758.1 |
| 177.5° | 763.4 | 764.2 | 765.0 | 764.8 | 763.6 | 762.4 | 761.1 | 759.9 |
| 180° | 762.7 | 762.7 | 762.7 | 762.7 | 762.7 | 762.7 | 762.7 | 762.7 |

(END OF REPORT)