

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: P331925-940

Luminaire Tested: **S123DIP-S560D585U940-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331925-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S560D585U940-4F0-1E-UDD-F
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 585 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4156.6 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.31
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: General Diffuse

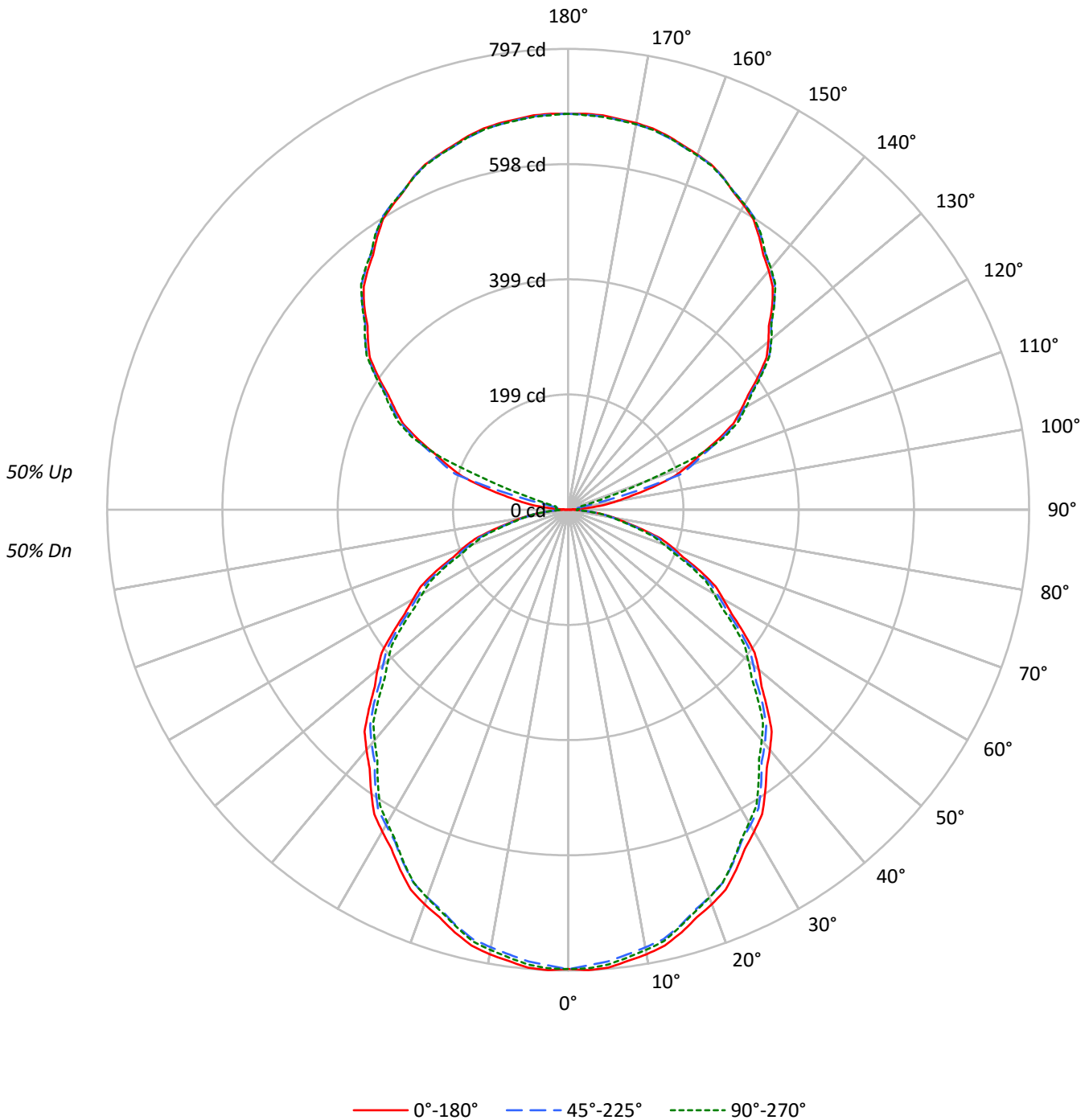
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331925-940

CATALOG NUMBER: S123DIP-S560D585U940-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P331925-940

CATALOG NUMBER: S123DIP-S560D585U940-4F0-1E-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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | 69 | 69 | 69 | 56 | 56 | 56 | 50 |
| 1 | 98 | 93 | 89 | 86 | 90 | 86 | 83 | 80 | 73 | 70 | 68 | 61 | 59 | 57 | 49 | 48 | 47 | 42 |
| 2 | 89 | 81 | 75 | 70 | 82 | 75 | 70 | 65 | 64 | 60 | 56 | 53 | 50 | 48 | 43 | 41 | 40 | 35 |
| 3 | 81 | 72 | 64 | 58 | 74 | 66 | 60 | 55 | 56 | 51 | 47 | 47 | 43 | 40 | 38 | 36 | 34 | 30 |
| 4 | 74 | 63 | 55 | 49 | 68 | 59 | 52 | 46 | 50 | 45 | 40 | 42 | 38 | 35 | 34 | 31 | 29 | 25 |
| 5 | 68 | 56 | 48 | 42 | 62 | 52 | 45 | 40 | 45 | 39 | 35 | 38 | 33 | 30 | 31 | 28 | 25 | 22 |
| 6 | 63 | 51 | 42 | 37 | 58 | 47 | 40 | 34 | 40 | 35 | 30 | 34 | 30 | 26 | 28 | 25 | 22 | 19 |
| 7 | 58 | 46 | 38 | 32 | 53 | 42 | 35 | 30 | 36 | 31 | 27 | 31 | 26 | 23 | 26 | 22 | 20 | 17 |
| 8 | 54 | 41 | 34 | 28 | 49 | 39 | 32 | 27 | 33 | 28 | 24 | 28 | 24 | 21 | 23 | 20 | 18 | 15 |
| 9 | 50 | 38 | 30 | 25 | 46 | 35 | 29 | 24 | 30 | 25 | 21 | 26 | 22 | 19 | 22 | 18 | 16 | 14 |
| 10 | 47 | 35 | 27 | 23 | 43 | 32 | 26 | 21 | 28 | 23 | 19 | 24 | 20 | 17 | 20 | 17 | 15 | 13 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 8551 | 8551 | 8551 |
| 5° | 8590 | 8473 | 8532 |
| 10° | 8534 | 8400 | 8451 |
| 15° | 8433 | 8304 | 8320 |
| 20° | 8317 | 8168 | 8176 |
| 25° | 8162 | 8007 | 7991 |
| 30° | 7988 | 7828 | 7768 |
| 35° | 7808 | 7638 | 7540 |
| 40° | 7620 | 7429 | 7314 |
| 45° | 7415 | 7237 | 7060 |
| 50° | 7206 | 7000 | 6805 |
| 55° | 6934 | 6756 | 6549 |
| 60° | 6661 | 6469 | 6265 |
| 65° | 6421 | 6159 | 5968 |
| 70° | 6061 | 5803 | 5545 |
| 75° | 5540 | 5340 | 5115 |
| 80° | 4996 | 4785 | 4742 |
| 85° | 4384 | 4224 | 4051 |



TEST NUMBER: P331925-940

CATALOG NUMBER: S123DIP-S560D585U940-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 74.8 | 1.8 |
| 10°-20° | 211.3 | 5.1 |
| 20°-30° | 312.1 | 7.5 |
| 30°-40° | 364.6 | 8.8 |
| 40°-50° | 366.5 | 8.8 |
| 50°-60° | 322.0 | 7.7 |
| 60°-70° | 239.9 | 5.8 |
| 70°-80° | 136.7 | 3.3 |
| 80°-90° | 41.1 | 1.0 |
| 90°-100° | 24.9 | 0.6 |
| 100°-110° | 118.6 | 2.9 |
| 110°-120° | 284.9 | 6.9 |
| 120°-130° | 362.8 | 8.7 |
| 130°-140° | 387.7 | 9.3 |
| 140°-150° | 362.5 | 8.7 |
| 150°-160° | 292.4 | 7.0 |
| 160°-170° | 188.7 | 4.5 |
| 170°-180° | 65.0 | 1.6 |
| 0°-30° | 598.2 | 14.4 |
| 0°-40° | 962.8 | 23.2 |
| 0°-60° | 1651.3 | 39.7 |
| 0°-90° | 2069.0 | 49.8 |
| 90°-120° | 428.4 | 10.3 |
| 90°-150° | 1541.4 | 37.1 |
| 90°-180° | 2088.0 | 50.2 |
| 0°-180° | 4156.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 794 | 794 | 794 | 794 | 794 | |
| 5° | 795 | 791 | 784 | 791 | 790 | 75 |
| 15° | 757 | 754 | 745 | 750 | 747 | 213 |
| 25° | 687 | 683 | 674 | 675 | 673 | 316 |
| 35° | 594 | 590 | 581 | 577 | 574 | 372 |
| 45° | 487 | 484 | 475 | 467 | 464 | 376 |
| 55° | 370 | 368 | 360 | 353 | 349 | 331 |
| 65° | 252 | 248 | 242 | 236 | 234 | 249 |
| 75° | 133 | 131 | 128 | 125 | 123 | 142 |
| 85° | 36 | 34 | 34 | 33 | 33 | 39 |
| 90° | 0 | 6 | 12 | 14 | 15 | 3 |
| 95° | 31 | 12 | 16 | 19 | 19 | 38 |
| 105° | 152 | 154 | 111 | 26 | 22 | 161 |
| 115° | 284 | 287 | 292 | 297 | 299 | 281 |
| 125° | 401 | 405 | 407 | 408 | 409 | 358 |
| 135° | 499 | 502 | 504 | 505 | 504 | 384 |
| 145° | 576 | 579 | 580 | 581 | 581 | 360 |
| 155° | 634 | 633 | 634 | 636 | 633 | 292 |
| 165° | 669 | 667 | 667 | 670 | 667 | 189 |
| 175° | 685 | 682 | 682 | 686 | 682 | 65 |
| 180° | 685 | 685 | 685 | 685 | 685 | |



TEST NUMBER: P331925-940

CATALOG NUMBER: S123DIP-S560D585U940-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 794.4 | 794.4 | 794.4 | 794.4 | 794.4 | 794.4 | 794.4 | 794.4 | 794.4 | 794.4 | 794.4 |
| 2.5° | 797.1 | 796.7 | 796.2 | 795.7 | 795.2 | 794.2 | 792.9 | 791.6 | 790.3 | 789.0 | 790.1 |
| 5° | 795.0 | 794.3 | 793.5 | 792.8 | 792.0 | 790.9 | 789.2 | 787.5 | 785.9 | 784.2 | 785.7 |
| 7.5° | 787.3 | 786.6 | 785.8 | 785.1 | 784.3 | 783.0 | 781.3 | 779.5 | 777.8 | 776.1 | 777.5 |
| 10° | 780.8 | 780.0 | 779.3 | 778.5 | 777.8 | 776.3 | 774.4 | 772.4 | 770.4 | 768.5 | 769.8 |
| 12.5° | 772.0 | 771.3 | 770.7 | 770.1 | 769.5 | 768.2 | 766.3 | 764.5 | 762.7 | 760.8 | 761.8 |
| 15° | 756.8 | 756.3 | 755.6 | 755.0 | 754.4 | 753.1 | 751.2 | 749.2 | 747.2 | 745.2 | 746.5 |
| 17.5° | 739.2 | 738.4 | 737.6 | 736.8 | 736.0 | 734.7 | 732.7 | 730.8 | 728.8 | 726.7 | 727.6 |
| 20° | 726.1 | 725.2 | 724.2 | 723.4 | 722.5 | 721.0 | 719.1 | 717.1 | 715.1 | 713.1 | 713.7 |
| 22.5° | 711.3 | 710.4 | 709.5 | 708.6 | 707.7 | 706.2 | 704.3 | 702.3 | 700.3 | 698.4 | 698.8 |
| 25° | 687.2 | 686.3 | 685.4 | 684.5 | 683.5 | 682.1 | 680.1 | 678.1 | 676.2 | 674.2 | 674.3 |
| 27.5° | 661.4 | 660.5 | 659.6 | 658.7 | 657.8 | 656.3 | 654.2 | 652.1 | 650.0 | 647.8 | 647.9 |
| 30° | 642.7 | 642.0 | 641.2 | 640.5 | 639.7 | 638.3 | 636.1 | 634.0 | 632.0 | 629.8 | 629.8 |
| 32.5° | 624.2 | 623.2 | 622.1 | 621.2 | 620.2 | 618.8 | 617.2 | 615.5 | 613.9 | 612.3 | 611.4 |
| 35° | 594.2 | 593.3 | 592.5 | 591.6 | 590.7 | 589.2 | 587.2 | 585.2 | 583.3 | 581.3 | 580.4 |
| 37.5° | 563.7 | 562.5 | 561.3 | 560.2 | 559.0 | 557.5 | 555.4 | 553.5 | 551.4 | 549.5 | 548.4 |
| 40° | 542.3 | 541.4 | 540.6 | 539.7 | 538.7 | 537.2 | 535.0 | 533.0 | 530.8 | 528.7 | 527.4 |
| 42.5° | 521.0 | 520.0 | 519.0 | 517.9 | 516.9 | 515.3 | 513.2 | 511.1 | 509.0 | 506.8 | 505.6 |
| 45° | 487.1 | 486.4 | 485.8 | 485.2 | 484.6 | 483.3 | 481.3 | 479.4 | 477.4 | 475.4 | 473.6 |
| 47.5° | 453.3 | 452.4 | 451.6 | 450.7 | 449.8 | 448.4 | 446.6 | 444.7 | 442.8 | 441.0 | 439.2 |
| 50° | 430.3 | 429.5 | 428.8 | 428.0 | 427.3 | 426.0 | 423.9 | 422.0 | 420.0 | 418.0 | 416.3 |
| 52.5° | 406.3 | 405.7 | 405.3 | 404.7 | 404.2 | 402.9 | 400.8 | 398.8 | 396.6 | 394.6 | 393.2 |
| 55° | 369.5 | 369.3 | 369.3 | 369.1 | 368.9 | 367.8 | 365.9 | 363.9 | 361.9 | 360.0 | 358.3 |
| 57.5° | 334.6 | 334.0 | 333.5 | 333.1 | 332.5 | 331.4 | 329.8 | 328.3 | 326.7 | 325.1 | 323.7 |
| 60° | 309.4 | 309.2 | 309.2 | 309.0 | 308.8 | 307.8 | 306.0 | 304.2 | 302.4 | 300.5 | 299.2 |
| 62.5° | 287.0 | 286.6 | 286.2 | 285.9 | 285.4 | 284.4 | 282.5 | 280.7 | 278.8 | 277.1 | 275.7 |
| 65° | 252.1 | 251.3 | 250.6 | 249.8 | 249.1 | 247.9 | 246.4 | 244.9 | 243.3 | 241.8 | 240.6 |
| 67.5° | 215.0 | 214.4 | 213.7 | 213.0 | 212.3 | 211.4 | 210.3 | 209.1 | 207.9 | 206.9 | 205.8 |
| 70° | 192.6 | 191.7 | 190.8 | 189.9 | 189.0 | 188.1 | 187.2 | 186.3 | 185.3 | 184.4 | 183.3 |
| 72.5° | 169.2 | 168.4 | 167.8 | 167.1 | 166.5 | 165.6 | 164.6 | 163.5 | 162.5 | 161.5 | 160.5 |
| 75° | 133.2 | 132.6 | 132.0 | 131.3 | 130.8 | 130.3 | 129.7 | 129.3 | 128.9 | 128.4 | 127.7 |
| 77.5° | 101.4 | 101.0 | 100.7 | 100.4 | 100.0 | 99.6 | 99.1 | 98.5 | 97.9 | 97.4 | 96.9 |
| 80° | 80.6 | 80.2 | 79.7 | 79.3 | 78.7 | 78.4 | 78.1 | 77.8 | 77.5 | 77.2 | 77.0 |
| 82.5° | 60.4 | 60.3 | 60.2 | 60.1 | 60.0 | 59.9 | 59.9 | 59.8 | 59.7 | 59.7 | 59.4 |
| 85° | 35.5 | 35.2 | 35.0 | 34.6 | 34.3 | 34.2 | 34.2 | 34.2 | 34.2 | 34.2 | 33.9 |
| 87.5° | 14.3 | 14.2 | 14.0 | 13.9 | 13.7 | 13.7 | 13.9 | 14.1 | 14.3 | 14.4 | 14.4 |
| 90° | 0.5 | 1.6 | 2.8 | 3.9 | 5.0 | 6.3 | 7.8 | 9.3 | 10.7 | 12.2 | 12.7 |
| 92.5° | 9.5 | 9.2 | 8.8 | 8.5 | 8.2 | 8.6 | 9.7 | 10.8 | 11.9 | 13.0 | 13.7 |
| 95° | 31.0 | 26.4 | 21.8 | 17.1 | 12.5 | 10.8 | 12.0 | 13.3 | 14.5 | 15.8 | 16.6 |
| 97.5° | 62.3 | 60.3 | 58.2 | 56.1 | 54.0 | 49.0 | 40.8 | 32.6 | 24.5 | 16.4 | 17.3 |
| 100° | 86.0 | 88.2 | 90.5 | 92.7 | 95.0 | 87.3 | 69.6 | 52.1 | 34.4 | 16.8 | 17.7 |
| 102.5° | 112.8 | 114.4 | 116.1 | 117.7 | 119.3 | 110.5 | 91.2 | 72.0 | 52.7 | 33.4 | 30.7 |
| 105° | 151.6 | 152.8 | 154.1 | 155.2 | 156.5 | 152.0 | 141.9 | 131.7 | 121.5 | 111.4 | 91.4 |
| 107.5° | 192.4 | 193.4 | 194.5 | 195.5 | 196.4 | 197.7 | 199.3 | 200.9 | 202.5 | 204.1 | 189.5 |
| 110° | 219.7 | 220.6 | 221.5 | 222.4 | 223.3 | 224.4 | 225.6 | 226.9 | 228.1 | 229.3 | 225.6 |



TEST NUMBER: P331925-940

CATALOG NUMBER: S123DIP-S560D585U940-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 245.8 | 246.6 | 247.4 | 248.2 | 249.0 | 250.0 | 251.3 | 252.5 | 253.8 | 255.0 | 255.1 |
| 115° | 284.3 | 285.0 | 285.6 | 286.3 | 287.0 | 287.8 | 288.9 | 289.9 | 290.9 | 291.9 | 293.1 |
| 117.5° | 321.6 | 322.4 | 323.3 | 324.1 | 324.9 | 325.7 | 326.2 | 326.7 | 327.3 | 327.7 | 328.7 |
| 120° | 344.8 | 345.8 | 346.9 | 347.9 | 348.9 | 349.6 | 349.9 | 350.3 | 350.6 | 350.9 | 351.9 |
| 122.5° | 368.5 | 369.3 | 370.1 | 371.0 | 371.8 | 372.4 | 372.8 | 373.3 | 373.7 | 374.2 | 374.8 |
| 125° | 400.7 | 401.7 | 402.6 | 403.5 | 404.4 | 405.1 | 405.6 | 406.0 | 406.4 | 406.9 | 407.1 |
| 127.5° | 432.1 | 433.0 | 433.9 | 434.8 | 435.7 | 436.4 | 436.9 | 437.6 | 438.1 | 438.6 | 439.0 |
| 130° | 451.7 | 452.5 | 453.4 | 454.3 | 455.2 | 455.9 | 456.4 | 456.8 | 457.3 | 457.7 | 458.2 |
| 132.5° | 470.4 | 471.3 | 472.2 | 473.1 | 473.9 | 474.6 | 474.9 | 475.3 | 475.6 | 476.1 | 476.5 |
| 135° | 498.9 | 499.6 | 500.2 | 501.0 | 501.7 | 502.2 | 502.7 | 503.1 | 503.5 | 504.0 | 504.4 |
| 137.5° | 523.3 | 524.2 | 525.0 | 525.9 | 526.7 | 527.4 | 527.5 | 527.8 | 528.1 | 528.3 | 528.9 |
| 140° | 539.6 | 540.3 | 541.0 | 541.6 | 542.3 | 542.9 | 543.1 | 543.5 | 543.9 | 544.2 | 544.7 |
| 142.5° | 554.6 | 555.4 | 556.1 | 556.7 | 557.4 | 557.9 | 558.2 | 558.6 | 558.9 | 559.3 | 559.6 |
| 145° | 575.7 | 576.5 | 577.3 | 578.1 | 578.9 | 579.4 | 579.6 | 579.9 | 580.1 | 580.3 | 580.5 |
| 147.5° | 595.6 | 596.1 | 596.6 | 597.1 | 597.6 | 598.0 | 598.2 | 598.4 | 598.7 | 599.0 | 599.1 |
| 150° | 607.8 | 608.1 | 608.4 | 608.8 | 609.1 | 609.4 | 609.7 | 609.8 | 610.1 | 610.3 | 610.6 |
| 152.5° | 618.8 | 618.9 | 619.0 | 619.2 | 619.4 | 619.6 | 619.6 | 619.8 | 619.9 | 620.1 | 620.5 |
| 155° | 634.2 | 634.0 | 633.7 | 633.6 | 633.3 | 633.3 | 633.4 | 633.5 | 633.6 | 633.7 | 634.3 |
| 157.5° | 646.2 | 646.2 | 646.1 | 646.1 | 646.1 | 646.0 | 646.0 | 645.9 | 645.7 | 645.6 | 646.3 |
| 160° | 653.5 | 653.4 | 653.4 | 653.2 | 653.1 | 653.0 | 652.8 | 652.7 | 652.6 | 652.6 | 653.2 |
| 162.5° | 660.5 | 660.1 | 659.9 | 659.6 | 659.2 | 659.1 | 659.0 | 658.9 | 658.7 | 658.6 | 659.4 |
| 165° | 668.8 | 668.4 | 668.2 | 667.8 | 667.4 | 667.2 | 667.1 | 667.0 | 666.9 | 666.7 | 667.7 |
| 167.5° | 675.3 | 674.8 | 674.4 | 674.0 | 673.5 | 673.2 | 673.2 | 673.2 | 673.2 | 673.2 | 674.2 |
| 170° | 678.9 | 678.5 | 678.1 | 677.6 | 677.2 | 676.9 | 676.9 | 676.9 | 676.9 | 676.9 | 677.9 |
| 172.5° | 681.4 | 680.9 | 680.3 | 679.8 | 679.2 | 679.0 | 679.1 | 679.2 | 679.3 | 679.4 | 680.3 |
| 175° | 684.6 | 684.0 | 683.4 | 682.9 | 682.3 | 682.1 | 682.2 | 682.3 | 682.4 | 682.5 | 683.3 |
| 177.5° | 685.4 | 684.9 | 684.5 | 684.0 | 683.6 | 683.4 | 683.5 | 683.6 | 683.7 | 683.8 | 684.5 |
| 180° | 684.6 | 684.6 | 684.6 | 684.6 | 684.6 | 684.6 | 684.6 | 684.6 | 684.6 | 684.6 | 684.6 |



TEST NUMBER: P331925-940

CATALOG NUMBER: S123DIP-S560D585U940-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 794.4 | 794.4 | 794.4 | 794.4 | 794.4 | 794.4 | 794.4 | 794.4 |
| 2.5° | 791.4 | 792.6 | 793.8 | 794.3 | 794.2 | 794.1 | 794.0 | 793.9 |
| 5° | 787.2 | 788.7 | 790.2 | 790.9 | 790.5 | 790.2 | 790.0 | 789.6 |
| 7.5° | 778.8 | 780.2 | 781.6 | 782.1 | 781.9 | 781.8 | 781.6 | 781.4 |
| 10° | 771.2 | 772.6 | 773.9 | 774.5 | 774.2 | 773.8 | 773.6 | 773.2 |
| 12.5° | 762.8 | 763.8 | 764.8 | 765.2 | 765.0 | 764.8 | 764.6 | 764.5 |
| 15° | 747.7 | 748.9 | 750.1 | 750.2 | 749.3 | 748.4 | 747.5 | 746.6 |
| 17.5° | 728.5 | 729.3 | 730.2 | 730.4 | 730.1 | 729.8 | 729.4 | 729.1 |
| 20° | 714.3 | 715.0 | 715.5 | 715.6 | 715.2 | 714.7 | 714.3 | 713.8 |
| 22.5° | 699.4 | 699.8 | 700.3 | 700.3 | 699.7 | 699.1 | 698.6 | 697.9 |
| 25° | 674.5 | 674.7 | 674.8 | 674.7 | 674.2 | 673.8 | 673.2 | 672.8 |
| 27.5° | 648.1 | 648.2 | 648.3 | 648.1 | 647.5 | 646.9 | 646.3 | 645.8 |
| 30° | 629.8 | 629.8 | 629.8 | 629.3 | 628.2 | 627.1 | 626.1 | 625.0 |
| 32.5° | 610.6 | 609.8 | 608.9 | 608.1 | 607.6 | 607.1 | 606.5 | 605.9 |
| 35° | 579.4 | 578.5 | 577.7 | 576.8 | 576.0 | 575.3 | 574.5 | 573.8 |
| 37.5° | 547.2 | 546.2 | 545.1 | 544.3 | 543.9 | 543.3 | 542.9 | 542.3 |
| 40° | 526.3 | 525.0 | 523.9 | 522.9 | 522.3 | 521.7 | 521.1 | 520.5 |
| 42.5° | 504.4 | 503.2 | 501.9 | 501.1 | 500.4 | 499.9 | 499.3 | 498.6 |
| 45° | 471.8 | 469.9 | 468.1 | 466.8 | 466.1 | 465.3 | 464.6 | 463.8 |
| 47.5° | 437.4 | 435.6 | 433.8 | 432.6 | 431.9 | 431.2 | 430.6 | 429.9 |
| 50° | 414.7 | 413.0 | 411.3 | 410.1 | 409.1 | 408.2 | 407.3 | 406.4 |
| 52.5° | 391.7 | 390.3 | 388.9 | 387.6 | 386.7 | 385.8 | 385.0 | 384.1 |
| 55° | 356.6 | 355.0 | 353.3 | 352.0 | 351.3 | 350.5 | 349.8 | 349.0 |
| 57.5° | 322.2 | 320.7 | 319.2 | 318.0 | 317.1 | 316.3 | 315.4 | 314.5 |
| 60° | 297.8 | 296.5 | 295.1 | 294.0 | 293.3 | 292.5 | 291.8 | 291.0 |
| 62.5° | 274.3 | 273.0 | 271.6 | 270.6 | 270.1 | 269.7 | 269.1 | 268.6 |
| 65° | 239.3 | 238.2 | 236.9 | 236.1 | 235.7 | 235.2 | 234.8 | 234.3 |
| 67.5° | 204.7 | 203.7 | 202.6 | 201.7 | 201.1 | 200.5 | 199.8 | 199.2 |
| 70° | 182.3 | 181.3 | 180.2 | 179.2 | 178.5 | 177.7 | 177.0 | 176.2 |
| 72.5° | 159.6 | 158.6 | 157.7 | 157.0 | 156.7 | 156.2 | 155.9 | 155.4 |
| 75° | 126.9 | 126.2 | 125.4 | 124.8 | 124.3 | 123.9 | 123.4 | 123.0 |
| 77.5° | 96.4 | 95.9 | 95.3 | 95.1 | 95.1 | 95.1 | 95.1 | 95.1 |
| 80° | 76.9 | 76.7 | 76.6 | 76.5 | 76.5 | 76.5 | 76.5 | 76.5 |
| 82.5° | 59.1 | 58.9 | 58.6 | 58.4 | 58.3 | 58.1 | 58.1 | 58.0 |
| 85° | 33.5 | 33.3 | 32.9 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 |
| 87.5° | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.5 |
| 90° | 13.1 | 13.6 | 14.0 | 14.4 | 14.6 | 14.8 | 15.1 | 15.2 |
| 92.5° | 14.4 | 15.2 | 15.9 | 16.3 | 16.5 | 16.6 | 16.8 | 16.9 |
| 95° | 17.4 | 18.1 | 18.9 | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 |
| 97.5° | 18.2 | 19.1 | 20.0 | 20.5 | 20.6 | 20.7 | 20.9 | 21.0 |
| 100° | 18.5 | 19.5 | 20.4 | 20.9 | 21.0 | 21.1 | 21.2 | 21.4 |
| 102.5° | 27.8 | 25.1 | 22.3 | 21.0 | 21.1 | 21.4 | 21.6 | 21.8 |
| 105° | 71.3 | 51.4 | 31.4 | 21.5 | 21.7 | 21.9 | 22.1 | 22.4 |
| 107.5° | 174.8 | 160.2 | 145.4 | 130.6 | 115.5 | 100.4 | 85.3 | 70.3 |
| 110° | 221.9 | 218.2 | 214.5 | 204.5 | 188.3 | 172.2 | 156.0 | 139.8 |



TEST NUMBER: P331925-940

CATALOG NUMBER: S123DIP-S560D585U940-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 255.1 | 255.2 | 255.3 | 253.6 | 250.2 | 246.7 | 243.3 | 240.0 |
| 115° | 294.2 | 295.3 | 296.5 | 297.2 | 297.7 | 298.2 | 298.6 | 299.1 |
| 117.5° | 329.6 | 330.5 | 331.4 | 331.9 | 332.0 | 332.1 | 332.2 | 332.3 |
| 120° | 352.8 | 353.7 | 354.5 | 355.0 | 355.0 | 355.0 | 355.0 | 355.0 |
| 122.5° | 375.4 | 376.0 | 376.7 | 377.0 | 377.1 | 377.2 | 377.3 | 377.4 |
| 125° | 407.3 | 407.5 | 407.8 | 408.0 | 408.2 | 408.5 | 408.7 | 408.9 |
| 127.5° | 439.3 | 439.7 | 440.1 | 440.1 | 439.9 | 439.7 | 439.4 | 439.3 |
| 130° | 458.6 | 459.1 | 459.5 | 459.7 | 459.4 | 459.2 | 459.0 | 458.8 |
| 132.5° | 477.0 | 477.4 | 477.9 | 478.0 | 477.6 | 477.2 | 477.0 | 476.6 |
| 135° | 504.7 | 505.1 | 505.3 | 505.3 | 505.1 | 504.7 | 504.4 | 504.0 |
| 137.5° | 529.4 | 529.9 | 530.5 | 530.7 | 530.4 | 530.2 | 529.9 | 529.8 |
| 140° | 545.1 | 545.5 | 546.0 | 546.1 | 545.9 | 545.6 | 545.5 | 545.2 |
| 142.5° | 560.0 | 560.4 | 560.7 | 560.7 | 560.4 | 560.1 | 559.7 | 559.5 |
| 145° | 580.8 | 580.9 | 581.2 | 581.3 | 581.3 | 581.3 | 581.3 | 581.3 |
| 147.5° | 599.4 | 599.6 | 599.9 | 599.7 | 599.1 | 598.6 | 598.2 | 597.6 |
| 150° | 610.7 | 611.0 | 611.2 | 611.2 | 610.8 | 610.5 | 610.1 | 609.8 |
| 152.5° | 620.9 | 621.3 | 621.7 | 621.6 | 621.2 | 620.6 | 620.1 | 619.6 |
| 155° | 634.8 | 635.4 | 636.0 | 635.9 | 635.3 | 634.5 | 633.9 | 633.2 |
| 157.5° | 646.9 | 647.6 | 648.4 | 648.2 | 647.3 | 646.5 | 645.6 | 644.7 |
| 160° | 653.9 | 654.5 | 655.2 | 655.1 | 654.4 | 653.6 | 652.8 | 652.0 |
| 162.5° | 660.1 | 660.9 | 661.7 | 661.7 | 661.0 | 660.3 | 659.6 | 659.0 |
| 165° | 668.6 | 669.5 | 670.4 | 670.5 | 669.7 | 668.9 | 668.1 | 667.3 |
| 167.5° | 675.1 | 676.0 | 676.9 | 676.9 | 676.0 | 675.1 | 674.2 | 673.2 |
| 170° | 678.8 | 679.7 | 680.6 | 680.6 | 679.7 | 678.8 | 677.9 | 676.9 |
| 172.5° | 681.2 | 682.1 | 683.0 | 683.0 | 682.0 | 681.0 | 679.9 | 678.9 |
| 175° | 684.1 | 684.9 | 685.7 | 685.6 | 684.7 | 683.9 | 683.0 | 682.0 |
| 177.5° | 685.2 | 685.9 | 686.6 | 686.5 | 685.6 | 684.7 | 683.9 | 683.0 |
| 180° | 684.6 | 684.6 | 684.6 | 684.6 | 684.6 | 684.6 | 684.6 | 684.6 |

(END OF REPORT)