

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: P331917-940

Luminaire Tested: **S123DIP-S560D365U940-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331917-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S560D365U940-4F0-1E-UDD-F1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 365 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3179.8 lumens
Efficiency: N/A
Efficacy: 115.6 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: Semi-Direct

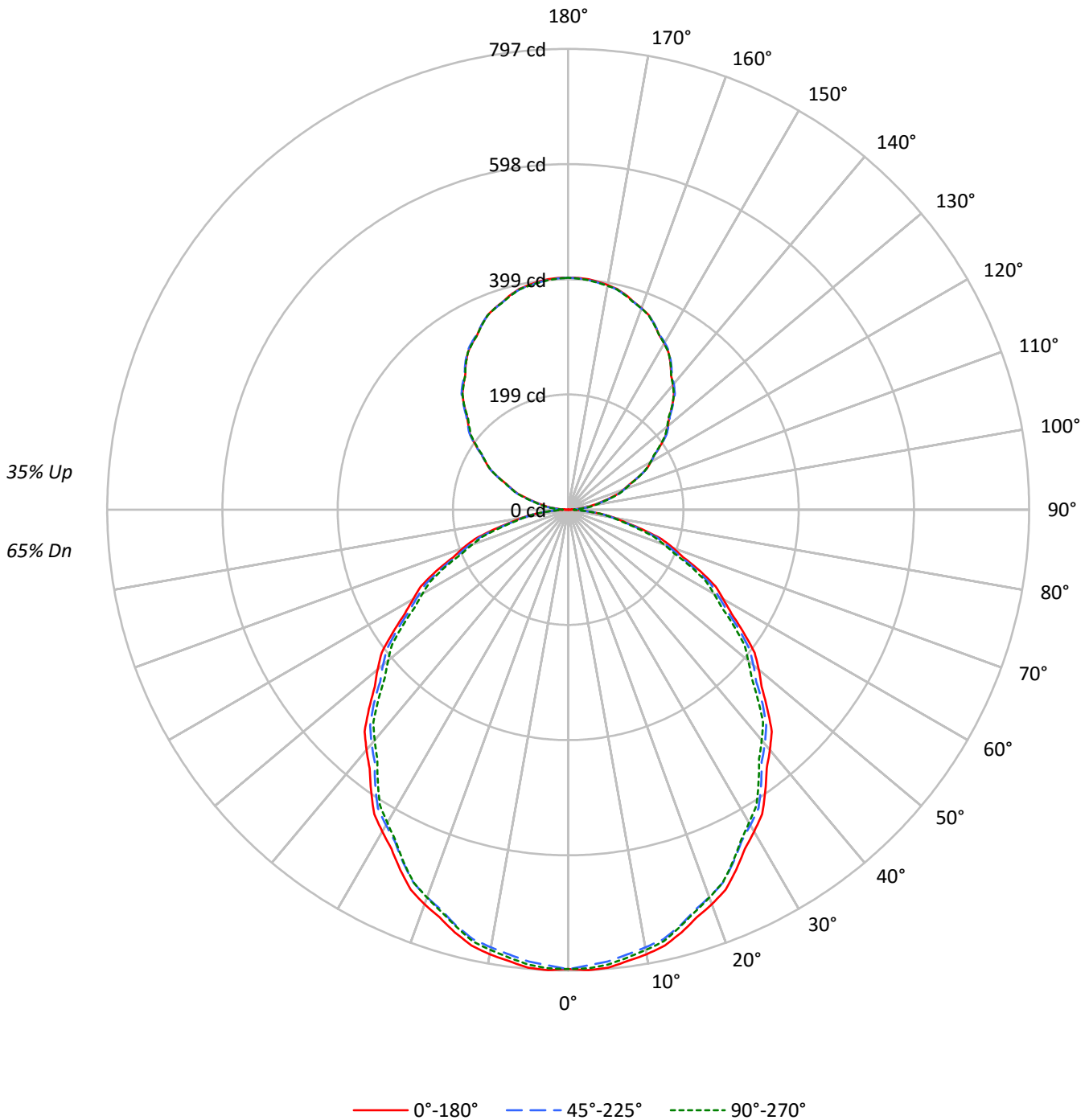
Input Watts (W): 27.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331917-940

CATALOG NUMBER: S123DIP-S560D365U940-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P331917-940

CATALOG NUMBER: S123DIP-S560D365U940-4F0-1E-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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 111 | 111 | 111 | 111 | 104 | 104 | 104 | 104 | 92 | 92 | 92 | 80 | 80 | 80 | 70 | 70 | 70 | 65 |
| 1 | 101 | 97 | 93 | 89 | 95 | 91 | 87 | 84 | 80 | 78 | 75 | 71 | 69 | 67 | 62 | 60 | 59 | 55 |
| 2 | 92 | 84 | 78 | 73 | 86 | 80 | 74 | 69 | 70 | 66 | 62 | 62 | 59 | 56 | 54 | 52 | 50 | 46 |
| 3 | 84 | 74 | 67 | 61 | 79 | 70 | 63 | 58 | 62 | 57 | 52 | 55 | 51 | 47 | 48 | 45 | 42 | 39 |
| 4 | 77 | 66 | 58 | 51 | 72 | 62 | 55 | 49 | 55 | 49 | 45 | 49 | 44 | 40 | 43 | 39 | 36 | 33 |
| 5 | 71 | 59 | 50 | 44 | 66 | 55 | 48 | 42 | 49 | 43 | 39 | 44 | 39 | 35 | 39 | 35 | 32 | 29 |
| 6 | 65 | 53 | 44 | 38 | 61 | 50 | 42 | 37 | 45 | 38 | 34 | 40 | 35 | 31 | 35 | 31 | 28 | 25 |
| 7 | 60 | 48 | 39 | 34 | 56 | 45 | 38 | 32 | 41 | 34 | 30 | 36 | 31 | 27 | 32 | 28 | 25 | 22 |
| 8 | 56 | 43 | 35 | 30 | 53 | 41 | 34 | 29 | 37 | 31 | 27 | 33 | 28 | 24 | 29 | 25 | 22 | 20 |
| 9 | 52 | 40 | 32 | 27 | 49 | 38 | 31 | 26 | 34 | 28 | 24 | 31 | 26 | 22 | 27 | 23 | 20 | 18 |
| 10 | 49 | 36 | 29 | 24 | 46 | 35 | 28 | 23 | 31 | 26 | 22 | 28 | 23 | 20 | 25 | 21 | 18 | 16 |

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: P331917-940

CATALOG NUMBER: S123DIP-S560D365U940-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 74.8 | 2.4 |
| 10°-20° | 211.3 | 6.6 |
| 20°-30° | 312.1 | 9.8 |
| 30°-40° | 364.6 | 11.5 |
| 40°-50° | 366.5 | 11.5 |
| 50°-60° | 322.0 | 10.1 |
| 60°-70° | 239.9 | 7.5 |
| 70°-80° | 136.7 | 4.3 |
| 80°-90° | 40.4 | 1.3 |
| 90°-100° | 26.1 | 0.8 |
| 100°-110° | 78.2 | 2.5 |
| 110°-120° | 133.0 | 4.2 |
| 120°-130° | 175.0 | 5.5 |
| 130°-140° | 196.7 | 6.2 |
| 140°-150° | 193.3 | 6.1 |
| 150°-160° | 162.8 | 5.1 |
| 160°-170° | 108.3 | 3.4 |
| 170°-180° | 37.9 | 1.2 |
| 0°-30° | 598.2 | 18.8 |
| 0°-40° | 962.8 | 30.3 |
| 0°-60° | 1651.3 | 51.9 |
| 0°-90° | 2068.3 | 65.0 |
| 90°-120° | 237.4 | 7.5 |
| 90°-150° | 802.4 | 25.2 |
| 90°-180° | 1111.0 | 34.9 |
| 0°-180° | 3179.8 | 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 | 4 | 8 | 9 | 10 | 3 |
| 95° | 19 | 21 | 23 | 24 | 25 | 21 |
| 105° | 71 | 72 | 74 | 74 | 75 | 76 |
| 115° | 134 | 135 | 134 | 135 | 134 | 132 |
| 125° | 196 | 197 | 196 | 195 | 194 | 175 |
| 135° | 254 | 256 | 256 | 255 | 254 | 196 |
| 145° | 308 | 309 | 310 | 310 | 308 | 193 |
| 155° | 353 | 353 | 354 | 355 | 353 | 163 |
| 165° | 385 | 384 | 384 | 386 | 384 | 108 |
| 175° | 400 | 399 | 399 | 401 | 399 | 38 |
| 180° | 401 | 401 | 401 | 401 | 401 | |



TEST NUMBER: P331917-940

CATALOG NUMBER: S123DIP-S560D365U940-4F0-1E-UDD-F1

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 | 14.1 | 13.8 | 13.6 | 13.4 | 13.3 | 13.4 | 13.4 | 13.5 | 13.6 | 13.5 |
| 90° | 0.4 | 1.0 | 1.7 | 2.4 | 3.1 | 3.9 | 4.8 | 5.7 | 6.7 | 7.6 | 7.8 |
| 92.5° | 7.7 | 8.1 | 8.6 | 9.1 | 9.5 | 10.0 | 10.5 | 11.1 | 11.6 | 12.1 | 12.3 |
| 95° | 18.6 | 19.1 | 19.5 | 20.1 | 20.5 | 21.0 | 21.7 | 22.2 | 22.7 | 23.4 | 23.6 |
| 97.5° | 33.0 | 33.3 | 33.8 | 34.2 | 34.5 | 34.9 | 35.3 | 35.7 | 36.1 | 36.5 | 36.8 |
| 100° | 42.9 | 43.2 | 43.7 | 44.1 | 44.5 | 44.9 | 45.3 | 45.7 | 46.0 | 46.3 | 46.5 |
| 102.5° | 54.2 | 54.5 | 54.7 | 54.9 | 55.2 | 55.6 | 56.0 | 56.5 | 57.0 | 57.4 | 57.6 |
| 105° | 70.9 | 71.1 | 71.2 | 71.3 | 71.4 | 71.9 | 72.5 | 73.1 | 73.7 | 74.4 | 74.4 |
| 107.5° | 90.3 | 90.4 | 90.5 | 90.6 | 90.7 | 90.8 | 91.0 | 91.3 | 91.6 | 91.8 | 92.0 |
| 110° | 102.5 | 102.5 | 102.7 | 102.8 | 103.0 | 103.1 | 103.3 | 103.4 | 103.5 | 103.7 | 104.0 |



TEST NUMBER: P331917-940

CATALOG NUMBER: S123DIP-S560D365U940-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 115.0 | 115.1 | 115.2 | 115.3 | 115.4 | 115.4 | 115.5 | 115.5 | 115.5 | 115.6 | 115.8 |
| 115° | 133.9 | 134.1 | 134.4 | 134.6 | 134.7 | 134.8 | 134.6 | 134.6 | 134.4 | 134.2 | 134.3 |
| 117.5° | 152.9 | 153.1 | 153.3 | 153.4 | 153.6 | 153.5 | 153.3 | 153.1 | 152.9 | 152.8 | 152.8 |
| 120° | 164.8 | 165.2 | 165.7 | 166.0 | 166.5 | 166.5 | 166.2 | 165.9 | 165.5 | 165.1 | 165.1 |
| 122.5° | 177.2 | 177.5 | 177.8 | 178.1 | 178.4 | 178.4 | 178.3 | 178.1 | 177.9 | 177.7 | 177.5 |
| 125° | 196.0 | 196.2 | 196.4 | 196.6 | 196.9 | 196.9 | 196.7 | 196.6 | 196.4 | 196.4 | 196.0 |
| 127.5° | 213.4 | 213.8 | 214.3 | 214.7 | 215.2 | 215.3 | 215.2 | 215.0 | 214.9 | 214.7 | 214.4 |
| 130° | 225.0 | 225.5 | 226.1 | 226.7 | 227.2 | 227.4 | 227.2 | 227.0 | 226.8 | 226.6 | 226.3 |
| 132.5° | 236.6 | 237.2 | 237.7 | 238.3 | 238.8 | 239.1 | 238.9 | 238.7 | 238.5 | 238.4 | 238.1 |
| 135° | 254.3 | 254.8 | 255.1 | 255.6 | 256.0 | 256.2 | 256.1 | 256.0 | 255.9 | 255.9 | 255.6 |
| 137.5° | 270.7 | 271.1 | 271.3 | 271.7 | 272.1 | 272.3 | 272.5 | 272.7 | 272.9 | 273.0 | 272.8 |
| 140° | 282.0 | 282.4 | 282.8 | 283.1 | 283.5 | 283.7 | 283.7 | 283.7 | 283.8 | 283.9 | 283.8 |
| 142.5° | 292.4 | 292.7 | 293.1 | 293.5 | 293.7 | 294.0 | 294.2 | 294.3 | 294.4 | 294.5 | 294.4 |
| 145° | 308.5 | 308.6 | 308.8 | 308.9 | 309.1 | 309.2 | 309.4 | 309.7 | 309.9 | 310.0 | 310.0 |
| 147.5° | 322.6 | 322.9 | 323.2 | 323.4 | 323.6 | 323.9 | 324.0 | 324.2 | 324.4 | 324.7 | 324.7 |
| 150° | 332.4 | 332.6 | 332.7 | 332.9 | 333.1 | 333.1 | 333.3 | 333.4 | 333.6 | 333.7 | 333.7 |
| 152.5° | 340.5 | 340.7 | 340.9 | 341.1 | 341.3 | 341.4 | 341.5 | 341.6 | 341.7 | 341.8 | 341.9 |
| 155° | 353.3 | 353.3 | 353.3 | 353.3 | 353.3 | 353.3 | 353.4 | 353.4 | 353.5 | 353.6 | 353.8 |
| 157.5° | 364.1 | 364.0 | 363.9 | 363.8 | 363.7 | 363.7 | 363.8 | 363.8 | 363.9 | 364.0 | 364.3 |
| 160° | 370.9 | 370.8 | 370.6 | 370.5 | 370.3 | 370.2 | 370.2 | 370.2 | 370.2 | 370.2 | 370.6 |
| 162.5° | 376.9 | 376.7 | 376.6 | 376.4 | 376.1 | 376.1 | 376.1 | 376.2 | 376.3 | 376.3 | 376.7 |
| 165° | 384.8 | 384.6 | 384.3 | 384.1 | 383.9 | 383.8 | 383.8 | 383.8 | 383.8 | 383.8 | 384.2 |
| 167.5° | 391.0 | 390.7 | 390.5 | 390.1 | 389.9 | 389.8 | 389.9 | 389.9 | 389.9 | 390.0 | 390.4 |
| 170° | 394.5 | 394.2 | 394.0 | 393.7 | 393.4 | 393.2 | 393.2 | 393.2 | 393.2 | 393.2 | 393.8 |
| 172.5° | 397.3 | 397.0 | 396.7 | 396.5 | 396.2 | 396.0 | 396.0 | 396.0 | 396.0 | 396.0 | 396.5 |
| 175° | 400.2 | 399.9 | 399.7 | 399.4 | 399.1 | 399.0 | 399.0 | 399.0 | 399.0 | 399.0 | 399.4 |
| 177.5° | 401.4 | 401.2 | 400.9 | 400.7 | 400.5 | 400.4 | 400.4 | 400.4 | 400.4 | 400.4 | 400.7 |
| 180° | 401.2 | 401.2 | 401.2 | 401.2 | 401.2 | 401.2 | 401.2 | 401.2 | 401.2 | 401.2 | 401.2 |



TEST NUMBER: P331917-940

CATALOG NUMBER: S123DIP-S560D365U940-4F0-1E-UDD-F1

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° | 13.4 | 13.4 | 13.3 | 13.3 | 13.3 | 13.3 | 13.4 | 13.4 |
| 90° | 8.1 | 8.4 | 8.6 | 8.9 | 9.0 | 9.2 | 9.3 | 9.5 |
| 92.5° | 12.6 | 12.8 | 13.0 | 13.1 | 13.0 | 12.9 | 12.8 | 12.8 |
| 95° | 23.9 | 24.2 | 24.4 | 24.6 | 24.6 | 24.6 | 24.6 | 24.6 |
| 97.5° | 37.1 | 37.5 | 37.8 | 37.9 | 37.9 | 37.9 | 37.8 | 37.8 |
| 100° | 46.7 | 47.0 | 47.2 | 47.3 | 47.4 | 47.6 | 47.8 | 47.9 |
| 102.5° | 57.9 | 58.1 | 58.2 | 58.3 | 58.3 | 58.3 | 58.2 | 58.2 |
| 105° | 74.4 | 74.4 | 74.4 | 74.5 | 74.5 | 74.7 | 74.9 | 75.0 |
| 107.5° | 92.3 | 92.5 | 92.7 | 92.8 | 92.7 | 92.6 | 92.6 | 92.5 |
| 110° | 104.2 | 104.5 | 104.8 | 104.9 | 104.7 | 104.6 | 104.4 | 104.3 |



TEST NUMBER: P331917-940

CATALOG NUMBER: S123DIP-S560D365U940-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 116.2 | 116.5 | 116.9 | 117.0 | 117.0 | 117.0 | 116.9 | 116.9 |
| 115° | 134.4 | 134.5 | 134.6 | 134.6 | 134.5 | 134.4 | 134.3 | 134.2 |
| 117.5° | 152.8 | 152.8 | 152.8 | 152.6 | 152.4 | 152.2 | 152.0 | 151.9 |
| 120° | 165.0 | 164.9 | 164.9 | 164.7 | 164.6 | 164.4 | 164.3 | 164.2 |
| 122.5° | 177.4 | 177.2 | 177.0 | 176.8 | 176.6 | 176.4 | 176.2 | 176.0 |
| 125° | 195.7 | 195.5 | 195.2 | 194.9 | 194.7 | 194.4 | 194.0 | 193.8 |
| 127.5° | 213.9 | 213.6 | 213.1 | 212.8 | 212.5 | 212.1 | 211.9 | 211.5 |
| 130° | 226.0 | 225.7 | 225.4 | 225.1 | 224.6 | 224.1 | 223.6 | 223.1 |
| 132.5° | 237.7 | 237.4 | 237.1 | 236.7 | 236.3 | 235.9 | 235.6 | 235.2 |
| 135° | 255.3 | 255.0 | 254.8 | 254.6 | 254.4 | 254.2 | 254.1 | 254.0 |
| 137.5° | 272.5 | 272.2 | 271.9 | 271.6 | 271.3 | 271.1 | 270.8 | 270.5 |
| 140° | 283.7 | 283.7 | 283.7 | 283.4 | 282.9 | 282.4 | 281.9 | 281.4 |
| 142.5° | 294.4 | 294.3 | 294.3 | 294.0 | 293.6 | 293.3 | 292.8 | 292.5 |
| 145° | 310.0 | 309.9 | 309.8 | 309.6 | 309.3 | 309.1 | 308.8 | 308.5 |
| 147.5° | 324.7 | 324.7 | 324.7 | 324.4 | 324.0 | 323.6 | 323.2 | 322.7 |
| 150° | 333.7 | 333.7 | 333.7 | 333.5 | 333.1 | 332.7 | 332.3 | 331.8 |
| 152.5° | 342.0 | 342.1 | 342.2 | 342.1 | 341.7 | 341.3 | 341.0 | 340.6 |
| 155° | 354.1 | 354.4 | 354.7 | 354.5 | 354.1 | 353.6 | 353.1 | 352.6 |
| 157.5° | 364.5 | 364.9 | 365.2 | 365.1 | 364.7 | 364.4 | 363.9 | 363.6 |
| 160° | 371.0 | 371.3 | 371.7 | 371.7 | 371.4 | 371.1 | 370.9 | 370.6 |
| 162.5° | 377.0 | 377.4 | 377.7 | 377.6 | 377.2 | 376.7 | 376.3 | 375.9 |
| 165° | 384.7 | 385.0 | 385.5 | 385.5 | 385.0 | 384.5 | 384.0 | 383.5 |
| 167.5° | 390.8 | 391.3 | 391.7 | 391.7 | 391.3 | 390.8 | 390.4 | 390.0 |
| 170° | 394.2 | 394.8 | 395.2 | 395.2 | 394.8 | 394.2 | 393.8 | 393.2 |
| 172.5° | 396.9 | 397.3 | 397.8 | 397.8 | 397.3 | 396.8 | 396.3 | 395.8 |
| 175° | 399.8 | 400.2 | 400.6 | 400.6 | 400.1 | 399.6 | 399.1 | 398.6 |
| 177.5° | 401.1 | 401.4 | 401.7 | 401.7 | 401.4 | 400.9 | 400.6 | 400.1 |
| 180° | 401.2 | 401.2 | 401.2 | 401.2 | 401.2 | 401.2 | 401.2 | 401.2 |

(END OF REPORT)