

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: P331940-940

Luminaire Tested: **S123DIP-S560D1025U940-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331940-940
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-S560D1025U940-4F0-1E-UDD-D
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1025 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5763.9 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')
CIE Type: Semi-Indirect

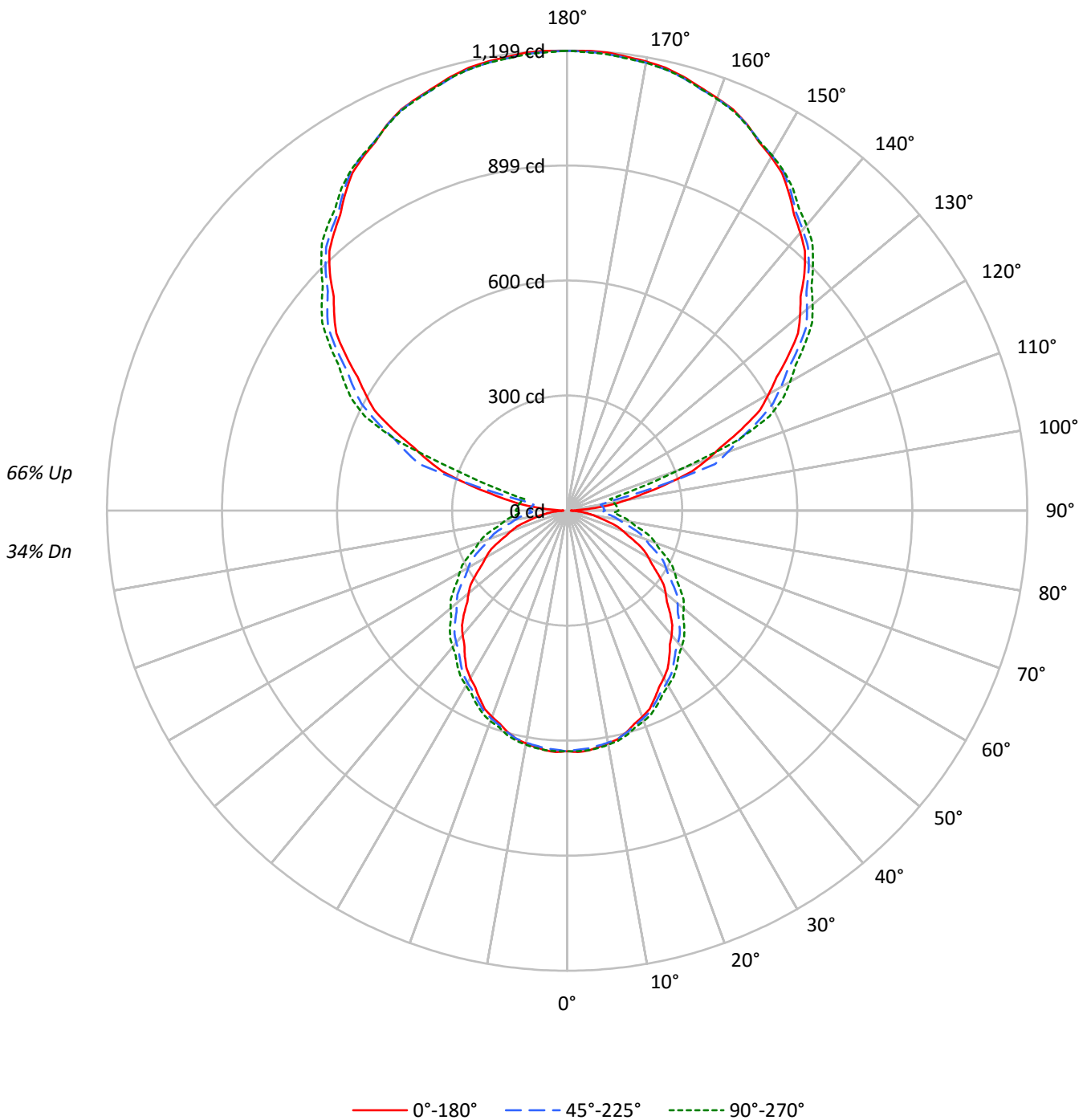
Input Watts (W): 44.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331940-940

CATALOG NUMBER: S123DIP-S560D1025U940-4F0-1E-UDD-D

Luminous Intensity Polar Plot





TEST NUMBER: P331940-940

CATALOG NUMBER: S123DIP-S560D1025U940-4F0-1E-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 | 103 | 103 | 103 | 103 | 93 | 93 | 93 | 93 | 74 | 74 | 74 | 57 | 57 | 57 | 41 | 41 | 41 | 34 |
| 1 | 93 | 89 | 85 | 81 | 84 | 80 | 77 | 74 | 64 | 61 | 59 | 49 | 47 | 46 | 35 | 34 | 33 | 27 |
| 2 | 85 | 77 | 71 | 66 | 76 | 70 | 64 | 60 | 56 | 52 | 48 | 42 | 40 | 38 | 30 | 29 | 27 | 22 |
| 3 | 77 | 68 | 60 | 54 | 69 | 61 | 55 | 50 | 49 | 44 | 40 | 37 | 34 | 32 | 27 | 25 | 23 | 18 |
| 4 | 70 | 60 | 52 | 46 | 63 | 54 | 47 | 42 | 43 | 38 | 34 | 33 | 30 | 27 | 24 | 21 | 20 | 15 |
| 5 | 64 | 53 | 45 | 39 | 58 | 48 | 41 | 36 | 38 | 33 | 29 | 30 | 26 | 23 | 21 | 19 | 17 | 13 |
| 6 | 59 | 47 | 39 | 33 | 53 | 43 | 36 | 31 | 34 | 29 | 25 | 27 | 23 | 20 | 19 | 17 | 15 | 12 |
| 7 | 55 | 42 | 35 | 29 | 49 | 39 | 32 | 27 | 31 | 26 | 22 | 24 | 20 | 18 | 18 | 15 | 13 | 10 |
| 8 | 51 | 38 | 31 | 25 | 45 | 35 | 28 | 23 | 28 | 23 | 19 | 22 | 18 | 16 | 16 | 14 | 12 | 9 |
| 9 | 47 | 35 | 28 | 23 | 42 | 32 | 25 | 21 | 26 | 21 | 17 | 20 | 16 | 14 | 15 | 12 | 10 | 8 |
| 10 | 44 | 32 | 25 | 20 | 39 | 29 | 23 | 19 | 24 | 19 | 15 | 19 | 15 | 12 | 14 | 11 | 9 | 7 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 6750 | 6750 | 6750 |
| 5° | 6771 | 6579 | 6584 |
| 10° | 6710 | 6428 | 6396 |
| 15° | 6624 | 6256 | 6191 |
| 20° | 6501 | 6059 | 5966 |
| 25° | 6348 | 5833 | 5729 |
| 30° | 6191 | 5629 | 5489 |
| 35° | 6016 | 5414 | 5298 |
| 40° | 5848 | 5218 | 5093 |
| 45° | 5664 | 5030 | 4929 |
| 50° | 5480 | 4845 | 4748 |
| 55° | 5278 | 4654 | 4586 |
| 60° | 5080 | 4461 | 4419 |
| 65° | 4879 | 4255 | 4221 |
| 70° | 4575 | 4025 | 4016 |
| 75° | 4191 | 3760 | 3810 |
| 80° | 3748 | 3499 | 3575 |
| 85° | 3332 | 3319 | 3435 |



TEST NUMBER: P331940-940

CATALOG NUMBER: S123DIP-S560D1025U940-4F0-1E-UDD-D

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 59.4 | 1.0 |
| 10°-20° | 169.5 | 2.9 |
| 20°-30° | 253.4 | 4.4 |
| 30°-40° | 302.7 | 5.3 |
| 40°-50° | 316.7 | 5.5 |
| 50°-60° | 297.2 | 5.2 |
| 60°-70° | 248.2 | 4.3 |
| 70°-80° | 177.6 | 3.1 |
| 80°-90° | 109.2 | 1.9 |
| 90°-100° | 110.0 | 1.9 |
| 100°-110° | 256.4 | 4.4 |
| 110°-120° | 531.2 | 9.2 |
| 120°-130° | 653.6 | 11.3 |
| 130°-140° | 686.8 | 11.9 |
| 140°-150° | 636.2 | 11.0 |
| 150°-160° | 511.7 | 8.9 |
| 160°-170° | 330.3 | 5.7 |
| 170°-180° | 113.8 | 2.0 |
| 0°-30° | 482.3 | 8.4 |
| 0°-40° | 785.0 | 13.6 |
| 0°-60° | 1398.8 | 24.3 |
| 0°-90° | 1933.8 | 33.6 |
| 90°-120° | 897.6 | 15.6 |
| 90°-150° | 2874.2 | 49.9 |
| 90°-180° | 3830.0 | 66.4 |
| 0°-180° | 5763.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 627 | 627 | 627 | 627 | 627 | |
| 5° | 628 | 626 | 622 | 627 | 627 | 59 |
| 15° | 598 | 600 | 599 | 605 | 605 | 168 |
| 25° | 540 | 546 | 548 | 557 | 557 | 249 |
| 35° | 464 | 475 | 484 | 494 | 497 | 290 |
| 45° | 380 | 396 | 413 | 426 | 432 | 293 |
| 55° | 290 | 312 | 337 | 354 | 361 | 259 |
| 65° | 200 | 227 | 257 | 277 | 284 | 198 |
| 75° | 109 | 141 | 175 | 197 | 206 | 116 |
| 85° | 33 | 68 | 104 | 126 | 134 | 35 |
| 90° | 10 | 52 | 98 | 124 | 134 | 9 |
| 95° | 62 | 55 | 95 | 122 | 130 | 73 |
| 105° | 271 | 293 | 246 | 116 | 116 | 287 |
| 115° | 501 | 516 | 547 | 571 | 581 | 494 |
| 125° | 703 | 711 | 734 | 749 | 757 | 628 |
| 135° | 874 | 880 | 890 | 904 | 906 | 673 |
| 145° | 1008 | 1014 | 1016 | 1023 | 1026 | 631 |
| 155° | 1110 | 1108 | 1109 | 1113 | 1108 | 511 |
| 165° | 1170 | 1168 | 1167 | 1173 | 1168 | 331 |
| 175° | 1198 | 1194 | 1194 | 1200 | 1194 | 114 |
| 180° | 1198 | 1198 | 1198 | 1198 | 1198 | |



TEST NUMBER: P331940-940

CATALOG NUMBER: S123DIP-S560D1025U940-4F0-1E-UDD-D

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 627.1 | 627.1 | 627.1 | 627.1 | 627.1 | 627.1 | 627.1 | 627.1 | 627.1 | 627.1 | 627.1 |
| 2.5° | 629.8 | 629.5 | 629.1 | 628.7 | 628.3 | 627.7 | 626.7 | 625.7 | 624.7 | 623.8 | 624.7 |
| 5° | 627.8 | 627.4 | 627.1 | 626.9 | 626.5 | 625.9 | 625.0 | 624.1 | 623.2 | 622.2 | 623.5 |
| 7.5° | 621.6 | 621.6 | 621.7 | 621.8 | 621.9 | 621.4 | 620.5 | 619.6 | 618.8 | 617.9 | 619.4 |
| 10° | 616.2 | 616.4 | 616.7 | 617.1 | 617.3 | 617.2 | 616.4 | 615.6 | 614.8 | 614.1 | 615.6 |
| 12.5° | 609.6 | 610.0 | 610.5 | 610.8 | 611.3 | 611.3 | 610.7 | 610.2 | 609.7 | 609.1 | 610.6 |
| 15° | 597.7 | 598.2 | 598.6 | 599.1 | 599.5 | 599.7 | 599.5 | 599.3 | 599.2 | 599.1 | 600.6 |
| 17.5° | 582.6 | 583.5 | 584.5 | 585.4 | 586.3 | 586.7 | 586.7 | 586.6 | 586.6 | 586.5 | 587.8 |
| 20° | 571.8 | 572.7 | 573.5 | 574.4 | 575.3 | 576.0 | 576.3 | 576.6 | 576.8 | 577.2 | 578.5 |
| 22.5° | 560.3 | 561.2 | 562.0 | 563.0 | 563.9 | 564.5 | 565.0 | 565.4 | 565.9 | 566.2 | 568.0 |
| 25° | 539.7 | 541.2 | 542.7 | 544.2 | 545.7 | 546.7 | 547.2 | 547.6 | 548.0 | 548.5 | 550.5 |
| 27.5° | 518.9 | 520.6 | 522.4 | 524.1 | 525.8 | 527.1 | 528.1 | 529.1 | 530.0 | 531.0 | 532.7 |
| 30° | 504.1 | 506.0 | 508.0 | 510.1 | 512.0 | 513.6 | 514.8 | 516.0 | 517.2 | 518.4 | 520.3 |
| 32.5° | 487.7 | 489.9 | 492.1 | 494.4 | 496.6 | 498.5 | 500.1 | 501.6 | 503.2 | 504.8 | 506.8 |
| 35° | 464.5 | 466.9 | 469.3 | 471.8 | 474.2 | 476.4 | 478.4 | 480.4 | 482.3 | 484.3 | 486.6 |
| 37.5° | 439.9 | 442.6 | 445.3 | 448.1 | 450.8 | 453.4 | 455.8 | 458.3 | 460.7 | 463.2 | 465.7 |
| 40° | 423.5 | 426.2 | 429.0 | 431.7 | 434.4 | 437.3 | 440.3 | 443.4 | 446.4 | 449.4 | 452.0 |
| 42.5° | 405.5 | 408.8 | 412.1 | 415.4 | 418.8 | 422.0 | 425.3 | 428.4 | 431.6 | 434.7 | 437.6 |
| 45° | 379.8 | 383.4 | 387.1 | 390.7 | 394.3 | 398.1 | 401.9 | 405.6 | 409.5 | 413.2 | 416.2 |
| 47.5° | 352.8 | 357.0 | 361.1 | 365.2 | 369.3 | 373.6 | 378.0 | 382.3 | 386.6 | 391.0 | 394.2 |
| 50° | 335.4 | 339.7 | 343.8 | 348.1 | 352.4 | 356.9 | 361.6 | 366.3 | 371.0 | 375.7 | 379.2 |
| 52.5° | 316.8 | 321.3 | 325.8 | 330.3 | 334.7 | 339.7 | 344.8 | 350.0 | 355.2 | 360.4 | 364.0 |
| 55° | 289.6 | 294.6 | 299.6 | 304.6 | 309.7 | 314.9 | 320.4 | 325.8 | 331.3 | 336.7 | 340.8 |
| 57.5° | 263.1 | 268.3 | 273.6 | 278.7 | 284.0 | 289.6 | 295.6 | 301.6 | 307.6 | 313.5 | 317.6 |
| 60° | 244.5 | 250.0 | 255.5 | 260.9 | 266.4 | 272.2 | 278.5 | 284.7 | 290.9 | 297.1 | 301.4 |
| 62.5° | 227.0 | 232.6 | 238.3 | 243.8 | 249.4 | 255.5 | 262.1 | 268.7 | 275.3 | 281.9 | 286.1 |
| 65° | 200.1 | 206.1 | 212.0 | 217.9 | 223.8 | 230.2 | 236.8 | 243.4 | 250.1 | 256.8 | 261.4 |
| 67.5° | 172.8 | 179.1 | 185.4 | 191.6 | 198.0 | 204.5 | 211.3 | 218.1 | 224.9 | 231.7 | 236.7 |
| 70° | 153.7 | 160.2 | 166.7 | 173.3 | 179.8 | 186.7 | 193.9 | 201.3 | 208.6 | 215.9 | 220.7 |
| 72.5° | 136.2 | 142.8 | 149.3 | 155.8 | 162.3 | 169.3 | 176.8 | 184.4 | 191.9 | 199.5 | 204.5 |
| 75° | 108.6 | 115.7 | 122.9 | 130.0 | 137.1 | 144.5 | 152.1 | 159.7 | 167.3 | 174.9 | 179.9 |
| 77.5° | 84.5 | 91.8 | 99.0 | 106.1 | 113.3 | 120.7 | 128.4 | 136.1 | 143.7 | 151.4 | 156.7 |
| 80° | 67.6 | 75.1 | 82.5 | 90.0 | 97.4 | 105.0 | 112.9 | 120.8 | 128.8 | 136.6 | 141.8 |
| 82.5° | 52.9 | 60.5 | 67.9 | 75.5 | 83.1 | 90.9 | 98.9 | 106.9 | 114.9 | 123.0 | 128.1 |
| 85° | 33.4 | 41.0 | 48.7 | 56.3 | 63.8 | 71.6 | 79.7 | 87.7 | 95.8 | 103.8 | 109.0 |
| 87.5° | 18.4 | 26.3 | 34.2 | 42.2 | 50.2 | 58.2 | 66.5 | 74.8 | 83.0 | 91.3 | 96.6 |
| 90° | 9.8 | 19.2 | 28.6 | 38.0 | 47.4 | 57.3 | 67.6 | 77.9 | 88.3 | 98.5 | 104.5 |
| 92.5° | 24.9 | 31.0 | 37.2 | 43.3 | 49.5 | 57.3 | 67.0 | 76.5 | 86.1 | 95.6 | 101.9 |
| 95° | 61.8 | 59.7 | 57.4 | 55.2 | 53.1 | 56.8 | 66.3 | 76.0 | 85.6 | 95.2 | 101.3 |
| 97.5° | 115.8 | 117.5 | 119.2 | 120.9 | 122.6 | 119.9 | 112.8 | 105.7 | 98.5 | 91.4 | 97.5 |
| 100° | 156.6 | 165.4 | 174.2 | 183.0 | 191.8 | 184.3 | 160.4 | 136.5 | 112.7 | 88.8 | 94.8 |
| 102.5° | 203.0 | 210.3 | 217.5 | 224.7 | 231.9 | 222.1 | 195.3 | 168.4 | 141.5 | 114.7 | 114.0 |
| 105° | 270.7 | 276.5 | 282.3 | 288.2 | 294.0 | 291.2 | 280.0 | 268.7 | 257.4 | 246.1 | 215.4 |
| 107.5° | 341.4 | 346.3 | 351.2 | 356.0 | 360.8 | 367.7 | 376.7 | 385.8 | 394.8 | 403.7 | 382.1 |
| 110° | 388.6 | 392.9 | 397.3 | 401.5 | 405.8 | 412.1 | 420.4 | 428.6 | 436.8 | 445.1 | 442.6 |



TEST NUMBER: P331940-940

CATALOG NUMBER: S123DIP-S560D1025U940-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 434.2 | 437.8 | 441.5 | 445.1 | 448.9 | 454.7 | 462.7 | 470.7 | 478.7 | 486.7 | 490.6 |
| 115° | 501.0 | 504.0 | 506.9 | 510.0 | 513.0 | 518.1 | 525.4 | 532.6 | 539.8 | 547.1 | 552.7 |
| 117.5° | 566.1 | 568.7 | 571.3 | 573.9 | 576.5 | 580.8 | 586.8 | 592.9 | 599.0 | 604.9 | 610.2 |
| 120° | 606.2 | 608.8 | 611.3 | 613.8 | 616.4 | 620.5 | 626.0 | 631.6 | 637.2 | 642.8 | 647.9 |
| 122.5° | 647.5 | 649.3 | 651.2 | 653.1 | 655.0 | 658.6 | 664.1 | 669.7 | 675.2 | 680.6 | 685.2 |
| 125° | 703.4 | 705.0 | 706.6 | 708.2 | 709.7 | 713.1 | 718.4 | 723.5 | 728.7 | 733.9 | 737.4 |
| 127.5° | 758.2 | 759.6 | 761.1 | 762.5 | 763.9 | 767.0 | 771.6 | 776.1 | 780.8 | 785.3 | 789.0 |
| 130° | 792.5 | 793.9 | 795.3 | 796.7 | 798.2 | 800.8 | 804.6 | 808.4 | 812.3 | 816.1 | 819.7 |
| 132.5° | 824.7 | 826.2 | 827.8 | 829.3 | 830.8 | 833.1 | 836.2 | 839.3 | 842.3 | 845.4 | 848.9 |
| 135° | 874.5 | 875.6 | 876.6 | 877.6 | 878.7 | 880.4 | 882.9 | 885.3 | 887.8 | 890.3 | 893.6 |
| 137.5° | 917.1 | 918.5 | 919.9 | 921.2 | 922.7 | 924.0 | 925.4 | 926.8 | 928.1 | 929.5 | 932.8 |
| 140° | 945.0 | 946.2 | 947.4 | 948.6 | 949.8 | 950.9 | 952.0 | 953.0 | 954.0 | 955.1 | 958.1 |
| 142.5° | 971.3 | 972.4 | 973.5 | 974.6 | 975.6 | 976.5 | 977.2 | 977.9 | 978.6 | 979.3 | 982.0 |
| 145° | 1008.3 | 1009.5 | 1010.7 | 1011.9 | 1013.2 | 1014.0 | 1014.4 | 1014.8 | 1015.1 | 1015.6 | 1017.2 |
| 147.5° | 1042.2 | 1043.2 | 1044.1 | 1045.0 | 1045.9 | 1046.5 | 1047.0 | 1047.3 | 1047.8 | 1048.1 | 1048.9 |
| 150° | 1063.6 | 1064.3 | 1064.8 | 1065.4 | 1066.0 | 1066.5 | 1066.8 | 1067.3 | 1067.6 | 1068.1 | 1068.4 |
| 152.5° | 1082.8 | 1083.2 | 1083.4 | 1083.7 | 1084.0 | 1084.2 | 1084.4 | 1084.7 | 1084.9 | 1085.1 | 1085.8 |
| 155° | 1109.9 | 1109.5 | 1109.1 | 1108.8 | 1108.3 | 1108.2 | 1108.4 | 1108.6 | 1108.8 | 1109.0 | 1110.0 |
| 157.5° | 1130.9 | 1130.9 | 1130.9 | 1130.8 | 1130.8 | 1130.6 | 1130.4 | 1130.2 | 1130.1 | 1129.8 | 1131.0 |
| 160° | 1143.7 | 1143.5 | 1143.4 | 1143.2 | 1142.9 | 1142.7 | 1142.5 | 1142.4 | 1142.1 | 1141.9 | 1143.2 |
| 162.5° | 1155.8 | 1155.3 | 1154.8 | 1154.3 | 1153.8 | 1153.4 | 1153.2 | 1153.0 | 1152.8 | 1152.6 | 1154.0 |
| 165° | 1170.5 | 1169.8 | 1169.2 | 1168.7 | 1168.1 | 1167.7 | 1167.4 | 1167.2 | 1167.1 | 1166.9 | 1168.4 |
| 167.5° | 1181.8 | 1181.1 | 1180.3 | 1179.5 | 1178.7 | 1178.2 | 1178.2 | 1178.2 | 1178.2 | 1178.2 | 1179.8 |
| 170° | 1188.2 | 1187.4 | 1186.7 | 1185.9 | 1185.1 | 1184.6 | 1184.6 | 1184.6 | 1184.6 | 1184.6 | 1186.2 |
| 172.5° | 1192.5 | 1191.6 | 1190.6 | 1189.6 | 1188.7 | 1188.3 | 1188.5 | 1188.7 | 1188.7 | 1188.9 | 1190.5 |
| 175° | 1198.0 | 1197.0 | 1196.1 | 1195.1 | 1194.1 | 1193.6 | 1193.8 | 1194.1 | 1194.3 | 1194.4 | 1195.9 |
| 177.5° | 1199.4 | 1198.6 | 1197.8 | 1197.0 | 1196.3 | 1196.0 | 1196.1 | 1196.3 | 1196.4 | 1196.6 | 1197.8 |
| 180° | 1198.0 | 1198.0 | 1198.0 | 1198.0 | 1198.0 | 1198.0 | 1198.0 | 1198.0 | 1198.0 | 1198.0 | 1198.0 |



TEST NUMBER: P331940-940

CATALOG NUMBER: S123DIP-S560D1025U940-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 627.1 | 627.1 | 627.1 | 627.1 | 627.1 | 627.1 | 627.1 | 627.1 |
| 2.5° | 625.7 | 626.7 | 627.7 | 628.1 | 627.9 | 627.9 | 627.8 | 627.6 |
| 5° | 624.7 | 625.9 | 627.1 | 627.7 | 627.5 | 627.3 | 627.2 | 627.1 |
| 7.5° | 620.9 | 622.4 | 624.0 | 624.6 | 624.5 | 624.3 | 624.1 | 623.9 |
| 10° | 617.2 | 618.7 | 620.2 | 620.7 | 620.5 | 620.2 | 619.8 | 619.6 |
| 12.5° | 612.0 | 613.3 | 614.7 | 615.3 | 615.0 | 614.7 | 614.4 | 614.1 |
| 15° | 602.1 | 603.6 | 605.1 | 605.8 | 605.6 | 605.5 | 605.4 | 605.2 |
| 17.5° | 589.2 | 590.6 | 591.9 | 592.5 | 592.3 | 592.1 | 591.9 | 591.7 |
| 20° | 580.0 | 581.3 | 582.6 | 583.4 | 583.5 | 583.7 | 583.9 | 584.0 |
| 22.5° | 569.7 | 571.5 | 573.2 | 574.0 | 573.9 | 573.8 | 573.7 | 573.6 |
| 25° | 552.4 | 554.5 | 556.4 | 557.4 | 557.4 | 557.4 | 557.4 | 557.4 |
| 27.5° | 534.4 | 536.1 | 537.8 | 538.8 | 538.9 | 539.0 | 539.1 | 539.2 |
| 30° | 522.1 | 523.9 | 525.8 | 526.6 | 526.6 | 526.6 | 526.6 | 526.6 |
| 32.5° | 508.6 | 510.6 | 512.6 | 513.7 | 514.1 | 514.4 | 514.8 | 515.1 |
| 35° | 488.8 | 491.2 | 493.4 | 494.8 | 495.4 | 496.1 | 496.7 | 497.3 |
| 37.5° | 468.2 | 470.8 | 473.4 | 475.0 | 475.5 | 475.9 | 476.4 | 476.9 |
| 40° | 454.6 | 457.2 | 459.8 | 461.4 | 462.0 | 462.6 | 463.2 | 463.8 |
| 42.5° | 440.3 | 443.2 | 446.0 | 447.8 | 448.7 | 449.5 | 450.4 | 451.2 |
| 45° | 419.0 | 421.9 | 424.8 | 426.9 | 428.0 | 429.3 | 430.5 | 431.7 |
| 47.5° | 397.5 | 400.7 | 403.9 | 406.1 | 407.0 | 408.0 | 408.9 | 409.8 |
| 50° | 382.6 | 386.2 | 389.7 | 391.9 | 393.0 | 394.0 | 395.1 | 396.2 |
| 52.5° | 367.7 | 371.2 | 374.9 | 377.3 | 378.6 | 379.9 | 381.2 | 382.5 |
| 55° | 344.9 | 349.0 | 353.1 | 355.8 | 357.0 | 358.2 | 359.4 | 360.7 |
| 57.5° | 321.8 | 325.9 | 330.0 | 332.8 | 334.2 | 335.6 | 337.1 | 338.5 |
| 60° | 305.7 | 309.9 | 314.1 | 317.1 | 318.8 | 320.4 | 322.1 | 323.8 |
| 62.5° | 290.3 | 294.6 | 298.8 | 301.8 | 303.3 | 304.8 | 306.4 | 307.9 |
| 65° | 265.9 | 270.5 | 275.1 | 278.1 | 279.6 | 281.2 | 282.7 | 284.2 |
| 67.5° | 241.7 | 246.6 | 251.6 | 254.8 | 256.0 | 257.3 | 258.6 | 259.8 |
| 70° | 225.6 | 230.4 | 235.3 | 238.4 | 240.0 | 241.5 | 243.0 | 244.5 |
| 72.5° | 209.4 | 214.4 | 219.4 | 222.7 | 224.2 | 225.7 | 227.2 | 228.7 |
| 75° | 184.9 | 189.9 | 194.9 | 198.3 | 200.1 | 202.0 | 203.8 | 205.6 |
| 77.5° | 161.9 | 167.2 | 172.5 | 175.8 | 177.3 | 178.6 | 180.0 | 181.5 |
| 80° | 147.0 | 152.1 | 157.3 | 160.6 | 162.1 | 163.6 | 165.1 | 166.7 |
| 82.5° | 133.3 | 138.4 | 143.6 | 147.0 | 148.5 | 150.0 | 151.5 | 153.0 |
| 85° | 114.1 | 119.3 | 124.5 | 127.8 | 129.3 | 130.8 | 132.3 | 133.8 |
| 87.5° | 101.9 | 107.3 | 112.5 | 116.0 | 117.6 | 119.2 | 120.8 | 122.4 |
| 90° | 110.5 | 116.4 | 122.3 | 126.3 | 128.2 | 130.1 | 132.1 | 133.9 |
| 92.5° | 108.3 | 114.5 | 120.8 | 124.8 | 126.4 | 128.0 | 129.7 | 131.3 |
| 95° | 107.4 | 113.5 | 119.6 | 123.4 | 124.9 | 126.4 | 128.0 | 129.5 |
| 97.5° | 103.6 | 109.7 | 115.8 | 119.7 | 121.5 | 123.1 | 124.8 | 126.5 |
| 100° | 100.8 | 106.7 | 112.7 | 116.5 | 118.3 | 120.0 | 121.7 | 123.4 |
| 102.5° | 113.4 | 112.8 | 112.2 | 112.8 | 114.7 | 116.5 | 118.4 | 120.3 |
| 105° | 184.7 | 153.9 | 123.1 | 108.6 | 110.4 | 112.2 | 113.9 | 115.7 |
| 107.5° | 360.5 | 338.9 | 317.3 | 294.0 | 268.9 | 243.9 | 218.8 | 193.8 |
| 110° | 440.0 | 437.4 | 434.8 | 420.0 | 392.9 | 365.9 | 338.8 | 311.7 |



TEST NUMBER: P331940-940

CATALOG NUMBER: S123DIP-S560D1025U940-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 494.6 | 498.6 | 502.5 | 502.1 | 497.5 | 492.8 | 488.2 | 483.6 |
| 115° | 558.3 | 563.9 | 569.5 | 573.4 | 575.4 | 577.4 | 579.4 | 581.4 |
| 117.5° | 615.4 | 620.5 | 625.7 | 629.0 | 630.4 | 631.7 | 633.0 | 634.4 |
| 120° | 653.0 | 658.1 | 663.2 | 666.2 | 667.3 | 668.3 | 669.4 | 670.5 |
| 122.5° | 689.6 | 694.1 | 698.6 | 701.4 | 702.7 | 703.9 | 705.1 | 706.3 |
| 125° | 741.1 | 744.7 | 748.2 | 750.7 | 752.2 | 753.7 | 755.1 | 756.6 |
| 127.5° | 792.6 | 796.3 | 799.9 | 802.0 | 802.7 | 803.3 | 804.0 | 804.6 |
| 130° | 823.4 | 827.1 | 830.8 | 832.9 | 833.4 | 833.9 | 834.5 | 834.9 |
| 132.5° | 852.5 | 856.0 | 859.6 | 861.7 | 862.1 | 862.6 | 863.1 | 863.5 |
| 135° | 896.9 | 900.2 | 903.6 | 905.3 | 905.4 | 905.6 | 905.8 | 906.0 |
| 137.5° | 936.2 | 939.6 | 942.9 | 944.8 | 945.1 | 945.5 | 945.8 | 946.2 |
| 140° | 961.3 | 964.3 | 967.3 | 969.1 | 969.5 | 969.8 | 970.2 | 970.5 |
| 142.5° | 984.6 | 987.2 | 989.9 | 991.3 | 991.6 | 991.8 | 991.9 | 992.2 |
| 145° | 1018.8 | 1020.4 | 1022.0 | 1023.1 | 1023.7 | 1024.3 | 1024.9 | 1025.6 |
| 147.5° | 1049.6 | 1050.4 | 1051.1 | 1051.3 | 1051.0 | 1050.6 | 1050.3 | 1049.9 |
| 150° | 1068.9 | 1069.3 | 1069.7 | 1069.7 | 1069.4 | 1069.2 | 1068.8 | 1068.5 |
| 152.5° | 1086.5 | 1087.3 | 1088.0 | 1088.0 | 1087.1 | 1086.3 | 1085.4 | 1084.5 |
| 155° | 1111.0 | 1112.0 | 1112.9 | 1112.9 | 1111.7 | 1110.5 | 1109.3 | 1108.1 |
| 157.5° | 1132.2 | 1133.4 | 1134.6 | 1134.4 | 1132.8 | 1131.3 | 1129.8 | 1128.3 |
| 160° | 1144.3 | 1145.5 | 1146.7 | 1146.6 | 1145.2 | 1143.8 | 1142.5 | 1141.0 |
| 162.5° | 1155.3 | 1156.6 | 1158.0 | 1158.1 | 1156.8 | 1155.6 | 1154.4 | 1153.2 |
| 165° | 1170.0 | 1171.6 | 1173.2 | 1173.3 | 1171.9 | 1170.5 | 1169.1 | 1167.8 |
| 167.5° | 1181.4 | 1183.0 | 1184.5 | 1184.5 | 1183.0 | 1181.4 | 1179.8 | 1178.2 |
| 170° | 1187.8 | 1189.5 | 1191.0 | 1191.0 | 1189.5 | 1187.8 | 1186.2 | 1184.6 |
| 172.5° | 1192.1 | 1193.6 | 1195.2 | 1195.2 | 1193.5 | 1191.7 | 1190.0 | 1188.2 |
| 175° | 1197.2 | 1198.6 | 1200.0 | 1199.9 | 1198.3 | 1196.8 | 1195.2 | 1193.6 |
| 177.5° | 1199.1 | 1200.4 | 1201.7 | 1201.5 | 1199.9 | 1198.4 | 1196.8 | 1195.2 |
| 180° | 1198.0 | 1198.0 | 1198.0 | 1198.0 | 1198.0 | 1198.0 | 1198.0 | 1198.0 |

(END OF REPORT)