

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: P332413-927

Luminaire Tested: **S123RDIW-S560D460U927-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332413-927
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: S123RDIW-S560D460U927-4F0-1E-UDD-F1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 460 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2957.9 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.06 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: General Diffuse

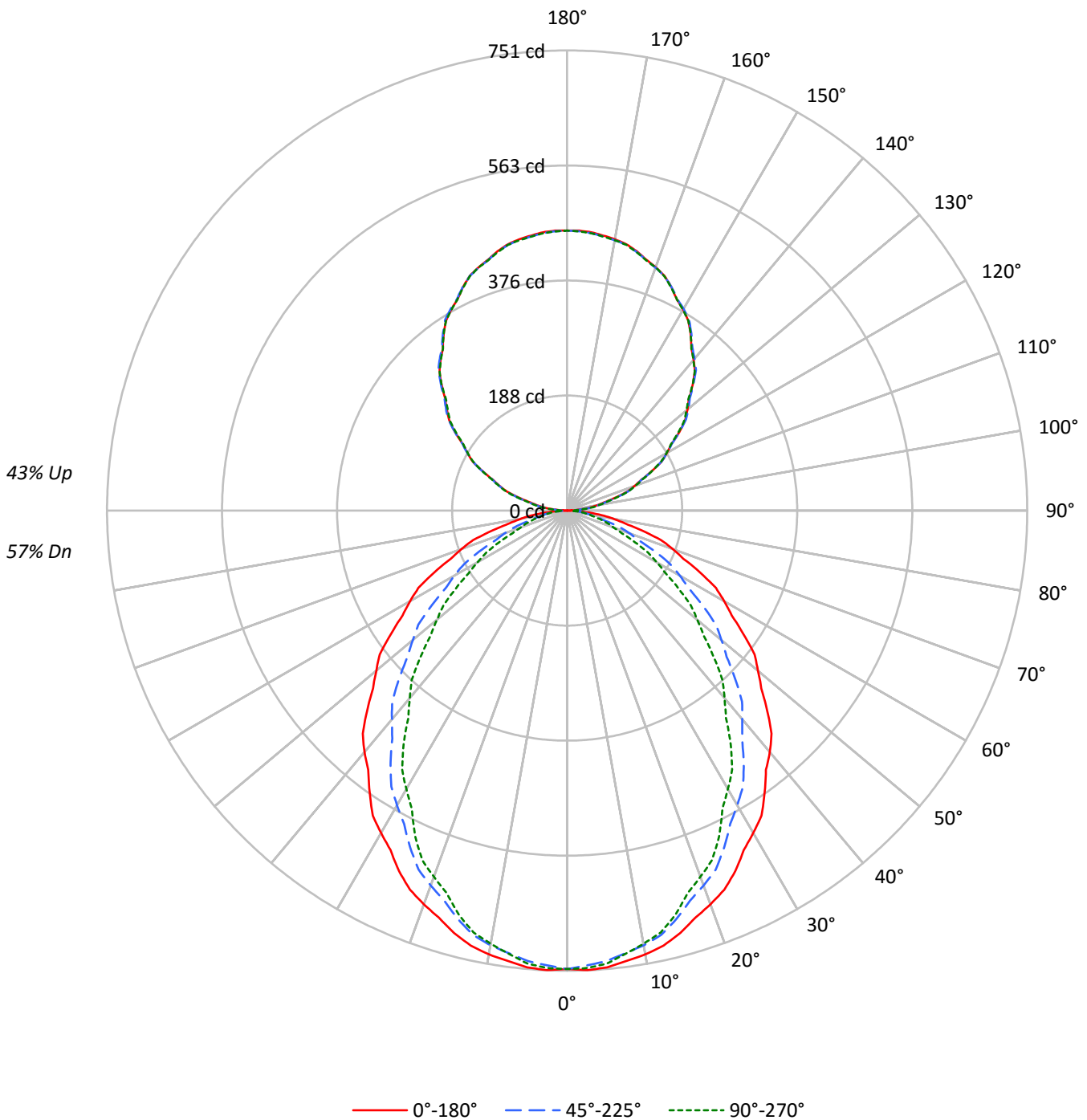
Input Watts (W): 30.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332413-927

CATALOG NUMBER: S123RDIW-S560D460U927-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P332413-927

CATALOG NUMBER: S123RDIW-S560D460U927-4F0-1E-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 | 109 | 109 | 109 | 109 | 101 | 101 | 101 | 101 | 87 | 87 | 87 | 75 | 75 | 75 | 63 | 63 | 63 | 57 |
| 1 | 100 | 96 | 92 | 88 | 93 | 89 | 86 | 83 | 77 | 75 | 73 | 66 | 64 | 63 | 56 | 55 | 54 | 49 |
| 2 | 91 | 84 | 78 | 73 | 85 | 78 | 73 | 69 | 68 | 64 | 61 | 59 | 56 | 53 | 50 | 48 | 46 | 42 |
| 3 | 83 | 74 | 67 | 61 | 77 | 69 | 63 | 58 | 60 | 55 | 51 | 52 | 48 | 45 | 44 | 42 | 39 | 36 |
| 4 | 76 | 66 | 58 | 52 | 71 | 62 | 55 | 49 | 54 | 48 | 44 | 47 | 42 | 39 | 40 | 37 | 34 | 31 |
| 5 | 70 | 59 | 51 | 45 | 65 | 55 | 48 | 43 | 48 | 43 | 38 | 42 | 38 | 34 | 36 | 33 | 30 | 27 |
| 6 | 65 | 53 | 45 | 39 | 60 | 50 | 43 | 37 | 44 | 38 | 34 | 38 | 34 | 30 | 33 | 29 | 27 | 24 |
| 7 | 60 | 48 | 40 | 34 | 56 | 45 | 38 | 33 | 40 | 34 | 30 | 35 | 30 | 27 | 30 | 27 | 24 | 21 |
| 8 | 56 | 44 | 36 | 31 | 52 | 41 | 34 | 29 | 36 | 31 | 27 | 32 | 27 | 24 | 28 | 24 | 21 | 19 |
| 9 | 52 | 40 | 32 | 27 | 49 | 38 | 31 | 26 | 33 | 28 | 24 | 29 | 25 | 22 | 26 | 22 | 19 | 17 |
| 10 | 49 | 37 | 30 | 25 | 46 | 35 | 28 | 24 | 31 | 25 | 22 | 27 | 23 | 20 | 24 | 20 | 18 | 16 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 8054 | 8054 | 8054 |
| 5° | 8084 | 7973 | 8018 |
| 10° | 8039 | 7873 | 7847 |
| 15° | 7952 | 7689 | 7608 |
| 20° | 7834 | 7458 | 7285 |
| 25° | 7712 | 7201 | 6969 |
| 30° | 7549 | 6901 | 6524 |
| 35° | 7384 | 6603 | 6116 |
| 40° | 7231 | 6250 | 5611 |
| 45° | 7030 | 5903 | 5154 |
| 50° | 6807 | 5508 | 4644 |
| 55° | 6583 | 5056 | 4168 |
| 60° | 6374 | 4573 | 3645 |
| 65° | 6105 | 4050 | 3123 |
| 70° | 5766 | 3402 | 2521 |
| 75° | 5273 | 2674 | 2371 |
| 80° | 4705 | 2374 | 2182 |
| 85° | 3977 | 2100 | 1951 |



TEST NUMBER: P332413-927

CATALOG NUMBER: S123RDIW-S560D460U927-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 70.3 | 2.4 |
| 10°-20° | 195.5 | 6.6 |
| 20°-30° | 281.5 | 9.5 |
| 30°-40° | 317.1 | 10.7 |
| 40°-50° | 303.3 | 10.3 |
| 50°-60° | 248.4 | 8.4 |
| 60°-70° | 167.6 | 5.7 |
| 70°-80° | 84.3 | 2.9 |
| 80°-90° | 23.7 | 0.8 |
| 90°-100° | 29.8 | 1.0 |
| 100°-110° | 89.1 | 3.0 |
| 110°-120° | 151.6 | 5.1 |
| 120°-130° | 199.4 | 6.7 |
| 130°-140° | 224.1 | 7.6 |
| 140°-150° | 220.3 | 7.4 |
| 150°-160° | 185.4 | 6.3 |
| 160°-170° | 123.4 | 4.2 |
| 170°-180° | 43.2 | 1.5 |
| 0°-30° | 547.2 | 18.5 |
| 0°-40° | 864.3 | 29.2 |
| 0°-60° | 1416.1 | 47.9 |
| 0°-90° | 1691.6 | 57.2 |
| 90°-120° | 270.4 | 9.1 |
| 90°-150° | 914.1 | 30.9 |
| 90°-180° | 1266.0 | 42.8 |
| 0°-180° | 2957.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 748 | 748 | 748 | 748 | 748 | |
| 5° | 748 | 745 | 738 | 743 | 742 | 71 |
| 15° | 714 | 706 | 690 | 687 | 683 | 201 |
| 25° | 649 | 633 | 606 | 594 | 587 | 298 |
| 35° | 562 | 539 | 502 | 477 | 465 | 352 |
| 45° | 462 | 433 | 388 | 354 | 339 | 356 |
| 55° | 351 | 320 | 269 | 236 | 222 | 314 |
| 65° | 240 | 206 | 159 | 130 | 123 | 237 |
| 75° | 127 | 97 | 64 | 58 | 57 | 135 |
| 85° | 32 | 19 | 17 | 16 | 16 | 36 |
| 90° | 0 | 4 | 9 | 10 | 11 | 3 |
| 95° | 21 | 24 | 26 | 28 | 28 | 24 |
| 105° | 81 | 82 | 85 | 85 | 86 | 87 |
| 115° | 153 | 154 | 153 | 153 | 153 | 151 |
| 125° | 223 | 224 | 224 | 222 | 221 | 199 |
| 135° | 290 | 292 | 292 | 290 | 289 | 223 |
| 145° | 352 | 352 | 353 | 353 | 352 | 219 |
| 155° | 402 | 402 | 403 | 404 | 402 | 185 |
| 165° | 438 | 437 | 437 | 439 | 437 | 124 |
| 175° | 456 | 455 | 454 | 456 | 454 | 43 |
| 180° | 457 | 457 | 457 | 457 | 457 | |



TEST NUMBER: P332413-927

CATALOG NUMBER: S123RDIW-S560D460U927-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 748.2 | 748.2 | 748.2 | 748.2 | 748.2 | 748.2 | 748.2 | 748.2 | 748.2 | 748.2 | 748.2 |
| 2.5° | 750.7 | 750.2 | 749.8 | 749.3 | 748.9 | 748.1 | 746.8 | 745.4 | 744.2 | 742.9 | 744.1 |
| 5° | 748.2 | 747.6 | 746.9 | 746.2 | 745.5 | 744.4 | 742.8 | 741.2 | 739.5 | 737.9 | 739.1 |
| 7.5° | 741.3 | 740.6 | 739.8 | 739.1 | 738.4 | 737.0 | 734.9 | 732.8 | 730.6 | 728.6 | 729.2 |
| 10° | 735.5 | 734.5 | 733.6 | 732.6 | 731.7 | 730.0 | 727.6 | 725.2 | 722.7 | 720.3 | 720.4 |
| 12.5° | 727.2 | 726.2 | 725.1 | 724.1 | 723.0 | 721.0 | 718.0 | 715.1 | 712.1 | 709.2 | 709.1 |
| 15° | 713.6 | 712.2 | 710.7 | 709.2 | 707.7 | 705.0 | 701.3 | 697.5 | 693.7 | 690.0 | 689.3 |
| 17.5° | 696.5 | 694.8 | 693.1 | 691.3 | 689.6 | 686.3 | 681.5 | 676.8 | 671.9 | 667.2 | 665.7 |
| 20° | 683.9 | 681.8 | 679.6 | 677.4 | 675.3 | 671.6 | 666.5 | 661.4 | 656.2 | 651.1 | 649.4 |
| 22.5° | 669.8 | 667.3 | 664.9 | 662.3 | 659.9 | 655.9 | 650.5 | 645.0 | 639.6 | 634.1 | 631.9 |
| 25° | 649.3 | 645.9 | 642.5 | 639.2 | 635.8 | 631.1 | 624.8 | 618.6 | 612.4 | 606.3 | 603.4 |
| 27.5° | 624.4 | 620.7 | 617.0 | 613.2 | 609.5 | 604.2 | 597.3 | 590.4 | 583.5 | 576.6 | 572.7 |
| 30° | 607.4 | 603.4 | 599.4 | 595.3 | 591.3 | 585.4 | 577.9 | 570.4 | 562.8 | 555.2 | 550.6 |
| 32.5° | 590.4 | 585.9 | 581.3 | 576.7 | 572.1 | 565.9 | 557.9 | 549.9 | 541.9 | 533.9 | 528.9 |
| 35° | 561.9 | 557.1 | 552.2 | 547.4 | 542.5 | 535.9 | 527.5 | 519.2 | 510.8 | 502.5 | 496.6 |
| 37.5° | 533.1 | 527.7 | 522.3 | 516.8 | 511.4 | 504.3 | 495.4 | 486.5 | 477.5 | 468.6 | 462.0 |
| 40° | 514.6 | 508.7 | 502.7 | 496.8 | 490.8 | 483.1 | 473.6 | 464.0 | 454.4 | 444.8 | 437.8 |
| 42.5° | 493.7 | 487.7 | 481.9 | 475.9 | 470.0 | 462.1 | 452.2 | 442.3 | 432.4 | 422.5 | 414.8 |
| 45° | 461.8 | 455.7 | 449.6 | 443.6 | 437.5 | 429.3 | 418.9 | 408.5 | 398.2 | 387.8 | 380.1 |
| 47.5° | 429.8 | 423.2 | 416.5 | 409.9 | 403.2 | 394.7 | 384.3 | 373.9 | 363.5 | 353.2 | 344.8 |
| 50° | 406.5 | 400.2 | 393.9 | 387.5 | 381.2 | 372.6 | 361.6 | 350.8 | 339.8 | 328.9 | 320.5 |
| 52.5° | 385.7 | 378.8 | 371.9 | 365.0 | 358.2 | 349.4 | 338.5 | 327.7 | 316.9 | 306.1 | 297.4 |
| 55° | 350.8 | 344.1 | 337.5 | 330.9 | 324.3 | 315.3 | 303.8 | 292.4 | 280.9 | 269.4 | 261.6 |
| 57.5° | 318.5 | 311.2 | 304.0 | 296.8 | 289.6 | 280.3 | 268.8 | 257.3 | 245.7 | 234.2 | 226.9 |
| 60° | 296.1 | 288.8 | 281.3 | 273.9 | 266.5 | 257.1 | 246.0 | 234.8 | 223.6 | 212.4 | 205.1 |
| 62.5° | 273.8 | 266.4 | 259.0 | 251.5 | 244.2 | 234.8 | 223.6 | 212.5 | 201.2 | 190.0 | 183.2 |
| 65° | 239.7 | 232.3 | 224.9 | 217.5 | 210.0 | 201.1 | 190.5 | 180.1 | 169.5 | 159.0 | 152.4 |
| 67.5° | 205.6 | 198.1 | 190.6 | 183.1 | 175.6 | 166.8 | 156.7 | 146.6 | 136.6 | 126.4 | 121.5 |
| 70° | 183.2 | 175.9 | 168.7 | 161.4 | 154.2 | 145.8 | 136.3 | 126.9 | 117.5 | 108.1 | 103.3 |
| 72.5° | 160.9 | 153.8 | 146.6 | 139.4 | 132.2 | 124.4 | 115.8 | 107.2 | 98.6 | 90.1 | 86.2 |
| 75° | 126.8 | 120.3 | 113.9 | 107.4 | 100.9 | 94.0 | 86.6 | 79.1 | 71.8 | 64.3 | 63.0 |
| 77.5° | 95.8 | 89.9 | 84.1 | 78.2 | 72.3 | 67.0 | 62.3 | 57.5 | 52.7 | 47.9 | 47.2 |
| 80° | 75.9 | 70.3 | 64.8 | 59.3 | 53.7 | 49.6 | 46.7 | 43.9 | 41.0 | 38.3 | 37.8 |
| 82.5° | 57.0 | 52.1 | 47.4 | 42.6 | 37.8 | 34.8 | 33.4 | 32.2 | 30.8 | 29.5 | 29.1 |
| 85° | 32.2 | 29.2 | 26.2 | 23.3 | 20.3 | 18.6 | 18.2 | 17.8 | 17.4 | 17.0 | 16.7 |
| 87.5° | 11.7 | 10.7 | 9.7 | 8.6 | 7.6 | 7.2 | 7.4 | 7.6 | 7.8 | 8.0 | 8.0 |
| 90° | 0.4 | 1.2 | 2.0 | 2.8 | 3.6 | 4.4 | 5.5 | 6.6 | 7.6 | 8.6 | 9.0 |
| 92.5° | 8.7 | 9.3 | 9.7 | 10.3 | 10.9 | 11.4 | 12.0 | 12.6 | 13.2 | 13.8 | 14.0 |
| 95° | 21.2 | 21.7 | 22.3 | 22.9 | 23.4 | 24.0 | 24.6 | 25.3 | 25.9 | 26.5 | 26.9 |
| 97.5° | 37.6 | 38.0 | 38.4 | 38.9 | 39.3 | 39.7 | 40.2 | 40.6 | 41.1 | 41.6 | 41.9 |
| 100° | 48.8 | 49.3 | 49.7 | 50.2 | 50.7 | 51.2 | 51.6 | 52.0 | 52.4 | 52.8 | 53.0 |
| 102.5° | 61.7 | 62.0 | 62.3 | 62.6 | 62.9 | 63.3 | 63.8 | 64.3 | 64.9 | 65.4 | 65.7 |
| 105° | 80.8 | 81.0 | 81.1 | 81.3 | 81.4 | 81.8 | 82.5 | 83.3 | 84.0 | 84.7 | 84.7 |
| 107.5° | 102.9 | 103.0 | 103.1 | 103.1 | 103.3 | 103.5 | 103.8 | 104.0 | 104.3 | 104.6 | 104.9 |
| 110° | 116.7 | 116.8 | 117.0 | 117.2 | 117.3 | 117.5 | 117.6 | 117.8 | 118.0 | 118.1 | 118.4 |



TEST NUMBER: P332413-927

CATALOG NUMBER: S123RDIW-S560D460U927-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 131.0 | 131.1 | 131.3 | 131.3 | 131.4 | 131.5 | 131.5 | 131.6 | 131.6 | 131.6 | 132.0 |
| 115° | 152.6 | 152.8 | 153.0 | 153.3 | 153.5 | 153.6 | 153.4 | 153.3 | 153.1 | 153.0 | 153.0 |
| 117.5° | 174.3 | 174.4 | 174.6 | 174.8 | 174.9 | 174.8 | 174.7 | 174.4 | 174.3 | 174.0 | 174.0 |
| 120° | 187.7 | 188.2 | 188.7 | 189.2 | 189.6 | 189.7 | 189.3 | 188.9 | 188.5 | 188.1 | 188.1 |
| 122.5° | 201.8 | 202.2 | 202.6 | 202.9 | 203.2 | 203.3 | 203.1 | 202.9 | 202.7 | 202.5 | 202.2 |
| 125° | 223.3 | 223.6 | 223.8 | 224.0 | 224.3 | 224.3 | 224.1 | 223.9 | 223.8 | 223.6 | 223.3 |
| 127.5° | 243.1 | 243.6 | 244.2 | 244.6 | 245.2 | 245.3 | 245.2 | 244.9 | 244.8 | 244.6 | 244.2 |
| 130° | 256.4 | 257.0 | 257.6 | 258.3 | 258.9 | 259.0 | 258.8 | 258.6 | 258.3 | 258.1 | 257.8 |
| 132.5° | 269.5 | 270.1 | 270.8 | 271.5 | 272.1 | 272.4 | 272.1 | 272.0 | 271.8 | 271.6 | 271.2 |
| 135° | 289.7 | 290.2 | 290.7 | 291.1 | 291.6 | 291.8 | 291.8 | 291.7 | 291.6 | 291.5 | 291.2 |
| 137.5° | 308.4 | 308.8 | 309.2 | 309.6 | 310.0 | 310.3 | 310.5 | 310.7 | 310.9 | 311.1 | 310.8 |
| 140° | 321.3 | 321.7 | 322.1 | 322.5 | 322.9 | 323.1 | 323.2 | 323.3 | 323.4 | 323.4 | 323.4 |
| 142.5° | 333.1 | 333.5 | 333.9 | 334.3 | 334.7 | 334.9 | 335.1 | 335.3 | 335.4 | 335.5 | 335.4 |
| 145° | 351.5 | 351.6 | 351.8 | 352.0 | 352.1 | 352.3 | 352.5 | 352.8 | 353.0 | 353.2 | 353.2 |
| 147.5° | 367.6 | 367.8 | 368.1 | 368.4 | 368.7 | 368.9 | 369.2 | 369.4 | 369.6 | 369.9 | 369.9 |
| 150° | 378.7 | 378.9 | 379.1 | 379.2 | 379.4 | 379.5 | 379.7 | 379.9 | 380.0 | 380.2 | 380.2 |
| 152.5° | 387.9 | 388.2 | 388.4 | 388.6 | 388.8 | 389.0 | 389.0 | 389.2 | 389.3 | 389.4 | 389.5 |
| 155° | 402.4 | 402.4 | 402.4 | 402.4 | 402.4 | 402.5 | 402.6 | 402.7 | 402.7 | 402.8 | 403.1 |
| 157.5° | 414.8 | 414.7 | 414.6 | 414.5 | 414.4 | 414.4 | 414.5 | 414.5 | 414.5 | 414.6 | 414.9 |
| 160° | 422.6 | 422.4 | 422.2 | 422.1 | 421.9 | 421.8 | 421.8 | 421.8 | 421.8 | 421.8 | 422.2 |
| 162.5° | 429.4 | 429.2 | 429.0 | 428.7 | 428.6 | 428.5 | 428.5 | 428.6 | 428.6 | 428.7 | 429.1 |
| 165° | 438.3 | 438.1 | 437.8 | 437.6 | 437.4 | 437.3 | 437.3 | 437.3 | 437.3 | 437.3 | 437.8 |
| 167.5° | 445.4 | 445.1 | 444.8 | 444.5 | 444.2 | 444.0 | 444.1 | 444.2 | 444.3 | 444.3 | 444.8 |
| 170° | 449.5 | 449.2 | 448.9 | 448.5 | 448.2 | 448.1 | 448.1 | 448.1 | 448.1 | 448.1 | 448.6 |
| 172.5° | 452.7 | 452.3 | 452.0 | 451.7 | 451.3 | 451.1 | 451.1 | 451.1 | 451.1 | 451.1 | 451.7 |
| 175° | 455.9 | 455.6 | 455.3 | 455.0 | 454.6 | 454.5 | 454.5 | 454.5 | 454.5 | 454.5 | 455.0 |
| 177.5° | 457.3 | 457.0 | 456.8 | 456.5 | 456.3 | 456.1 | 456.1 | 456.1 | 456.1 | 456.1 | 456.5 |
| 180° | 457.0 | 457.0 | 457.0 | 457.0 | 457.0 | 457.0 | 457.0 | 457.0 | 457.0 | 457.0 | 457.0 |



TEST NUMBER: P332413-927

CATALOG NUMBER: S123RDIW-S560D460U927-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 748.2 | 748.2 | 748.2 | 748.2 | 748.2 | 748.2 | 748.2 | 748.2 |
| 2.5° | 745.3 | 746.5 | 747.7 | 748.1 | 747.9 | 747.7 | 747.5 | 747.3 |
| 5° | 740.3 | 741.6 | 742.8 | 743.2 | 743.0 | 742.7 | 742.4 | 742.1 |
| 7.5° | 729.9 | 730.6 | 731.3 | 731.3 | 730.9 | 730.5 | 730.0 | 729.5 |
| 10° | 720.6 | 720.7 | 720.8 | 720.6 | 719.9 | 719.2 | 718.6 | 717.9 |
| 12.5° | 709.0 | 708.9 | 708.8 | 708.4 | 707.6 | 706.8 | 706.1 | 705.3 |
| 15° | 688.6 | 687.9 | 687.3 | 686.4 | 685.5 | 684.6 | 683.7 | 682.7 |
| 17.5° | 664.3 | 662.9 | 661.4 | 660.0 | 658.6 | 657.2 | 655.8 | 654.4 |
| 20° | 647.6 | 645.9 | 644.1 | 642.5 | 640.8 | 639.2 | 637.5 | 636.0 |
| 22.5° | 629.8 | 627.6 | 625.4 | 623.5 | 622.0 | 620.5 | 619.0 | 617.5 |
| 25° | 600.6 | 597.7 | 594.9 | 592.7 | 591.3 | 589.8 | 588.3 | 586.8 |
| 27.5° | 568.7 | 564.8 | 560.9 | 557.8 | 555.5 | 553.3 | 551.0 | 548.7 |
| 30° | 546.1 | 541.5 | 536.9 | 533.5 | 531.4 | 529.3 | 527.0 | 524.9 |
| 32.5° | 523.9 | 518.8 | 513.8 | 510.2 | 507.9 | 505.6 | 503.4 | 501.1 |
| 35° | 490.8 | 485.1 | 479.3 | 475.2 | 472.7 | 470.3 | 467.9 | 465.4 |
| 37.5° | 455.4 | 448.9 | 442.3 | 437.5 | 434.5 | 431.5 | 428.5 | 425.5 |
| 40° | 430.8 | 423.7 | 416.8 | 411.7 | 408.6 | 405.5 | 402.4 | 399.3 |
| 42.5° | 407.2 | 399.5 | 391.8 | 386.6 | 383.8 | 381.0 | 378.3 | 375.5 |
| 45° | 372.4 | 364.7 | 357.0 | 351.6 | 348.3 | 345.1 | 341.8 | 338.6 |
| 47.5° | 336.4 | 328.1 | 319.7 | 314.1 | 311.2 | 308.3 | 305.5 | 302.5 |
| 50° | 312.2 | 303.8 | 295.5 | 289.7 | 286.6 | 283.5 | 280.4 | 277.3 |
| 52.5° | 288.8 | 280.0 | 271.3 | 265.6 | 262.8 | 260.1 | 257.3 | 254.5 |
| 55° | 253.8 | 246.0 | 238.1 | 232.9 | 230.2 | 227.5 | 224.8 | 222.1 |
| 57.5° | 219.4 | 212.1 | 204.7 | 199.9 | 197.6 | 195.3 | 193.0 | 190.7 |
| 60° | 197.8 | 190.5 | 183.2 | 178.5 | 176.2 | 173.9 | 171.6 | 169.3 |
| 62.5° | 176.3 | 169.5 | 162.6 | 158.0 | 155.7 | 153.2 | 150.8 | 148.5 |
| 65° | 145.8 | 139.2 | 132.5 | 128.5 | 127.1 | 125.6 | 124.1 | 122.6 |
| 67.5° | 116.6 | 111.6 | 106.7 | 103.5 | 101.9 | 100.3 | 98.7 | 97.1 |
| 70° | 98.5 | 93.9 | 89.1 | 86.0 | 84.5 | 83.1 | 81.6 | 80.1 |
| 72.5° | 82.3 | 78.5 | 74.6 | 72.4 | 71.8 | 71.1 | 70.5 | 69.9 |
| 75° | 61.6 | 60.3 | 58.9 | 58.1 | 57.8 | 57.6 | 57.3 | 57.0 |
| 77.5° | 46.5 | 45.8 | 45.0 | 44.5 | 44.3 | 44.0 | 43.7 | 43.4 |
| 80° | 37.4 | 37.0 | 36.6 | 36.3 | 36.0 | 35.7 | 35.5 | 35.2 |
| 82.5° | 28.7 | 28.3 | 27.9 | 27.6 | 27.6 | 27.6 | 27.5 | 27.4 |
| 85° | 16.5 | 16.2 | 15.9 | 15.8 | 15.8 | 15.8 | 15.8 | 15.8 |
| 87.5° | 7.9 | 7.9 | 7.8 | 7.8 | 7.7 | 7.7 | 7.6 | 7.5 |
| 90° | 9.3 | 9.6 | 9.9 | 10.1 | 10.3 | 10.5 | 10.6 | 10.8 |
| 92.5° | 14.3 | 14.6 | 14.8 | 14.9 | 14.8 | 14.7 | 14.6 | 14.5 |
| 95° | 27.2 | 27.5 | 27.8 | 28.0 | 28.0 | 28.0 | 28.0 | 28.0 |
| 97.5° | 42.3 | 42.7 | 43.0 | 43.2 | 43.2 | 43.2 | 43.1 | 43.1 |
| 100° | 53.2 | 53.5 | 53.7 | 53.9 | 54.1 | 54.3 | 54.4 | 54.6 |
| 102.5° | 65.9 | 66.1 | 66.4 | 66.5 | 66.5 | 66.4 | 66.4 | 66.3 |
| 105° | 84.7 | 84.7 | 84.7 | 84.8 | 85.0 | 85.2 | 85.3 | 85.5 |
| 107.5° | 105.1 | 105.4 | 105.6 | 105.7 | 105.6 | 105.5 | 105.4 | 105.4 |
| 110° | 118.7 | 119.1 | 119.4 | 119.5 | 119.3 | 119.1 | 119.0 | 118.8 |



TEST NUMBER: P332413-927

CATALOG NUMBER: S123RDIW-S560D460U927-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 132.4 | 132.8 | 133.2 | 133.3 | 133.2 | 133.2 | 133.2 | 133.2 |
| 115° | 153.1 | 153.2 | 153.3 | 153.3 | 153.2 | 153.1 | 153.0 | 153.0 |
| 117.5° | 174.0 | 174.0 | 174.0 | 173.9 | 173.6 | 173.4 | 173.2 | 172.9 |
| 120° | 188.0 | 187.9 | 187.8 | 187.7 | 187.5 | 187.4 | 187.2 | 187.0 |
| 122.5° | 202.1 | 201.8 | 201.6 | 201.5 | 201.2 | 201.0 | 200.7 | 200.5 |
| 125° | 223.0 | 222.7 | 222.4 | 222.0 | 221.7 | 221.4 | 221.1 | 220.8 |
| 127.5° | 243.8 | 243.3 | 242.8 | 242.4 | 242.1 | 241.7 | 241.3 | 241.0 |
| 130° | 257.5 | 257.1 | 256.8 | 256.4 | 255.9 | 255.3 | 254.8 | 254.1 |
| 132.5° | 270.8 | 270.5 | 270.1 | 269.7 | 269.3 | 268.8 | 268.4 | 267.9 |
| 135° | 290.9 | 290.6 | 290.3 | 290.0 | 289.9 | 289.7 | 289.5 | 289.4 |
| 137.5° | 310.5 | 310.1 | 309.7 | 309.4 | 309.1 | 308.9 | 308.6 | 308.2 |
| 140° | 323.3 | 323.2 | 323.1 | 322.8 | 322.3 | 321.7 | 321.2 | 320.6 |
| 142.5° | 335.3 | 335.3 | 335.2 | 334.9 | 334.5 | 334.1 | 333.7 | 333.2 |
| 145° | 353.1 | 353.0 | 352.9 | 352.8 | 352.4 | 352.1 | 351.8 | 351.5 |
| 147.5° | 369.9 | 369.9 | 369.9 | 369.6 | 369.2 | 368.6 | 368.1 | 367.7 |
| 150° | 380.2 | 380.2 | 380.2 | 379.9 | 379.5 | 379.0 | 378.5 | 378.0 |
| 152.5° | 389.6 | 389.8 | 389.9 | 389.8 | 389.4 | 388.9 | 388.5 | 388.1 |
| 155° | 403.5 | 403.8 | 404.1 | 403.9 | 403.4 | 402.8 | 402.3 | 401.7 |
| 157.5° | 415.3 | 415.7 | 416.0 | 415.9 | 415.5 | 415.0 | 414.5 | 414.2 |
| 160° | 422.6 | 423.0 | 423.4 | 423.4 | 423.1 | 422.8 | 422.5 | 422.2 |
| 162.5° | 429.5 | 429.9 | 430.3 | 430.2 | 429.8 | 429.2 | 428.7 | 428.2 |
| 165° | 438.2 | 438.7 | 439.2 | 439.1 | 438.6 | 438.0 | 437.4 | 436.9 |
| 167.5° | 445.3 | 445.8 | 446.2 | 446.2 | 445.8 | 445.3 | 444.8 | 444.3 |
| 170° | 449.2 | 449.7 | 450.3 | 450.3 | 449.7 | 449.2 | 448.6 | 448.1 |
| 172.5° | 452.2 | 452.7 | 453.1 | 453.1 | 452.6 | 452.0 | 451.5 | 450.9 |
| 175° | 455.4 | 455.9 | 456.4 | 456.4 | 455.8 | 455.3 | 454.7 | 454.2 |
| 177.5° | 456.9 | 457.3 | 457.6 | 457.6 | 457.2 | 456.8 | 456.3 | 455.8 |
| 180° | 457.0 | 457.0 | 457.0 | 457.0 | 457.0 | 457.0 | 457.0 | 457.0 |

(END OF REPORT)