

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: P332141-927

Luminaire Tested: **S123DIW-S560D1320U927-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332141-927
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: S123DIW-S560D1320U927-4F0-1E-UDD-D1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1320 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5499.7 lumens
Efficiency: N/A
Efficacy: 102.2 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

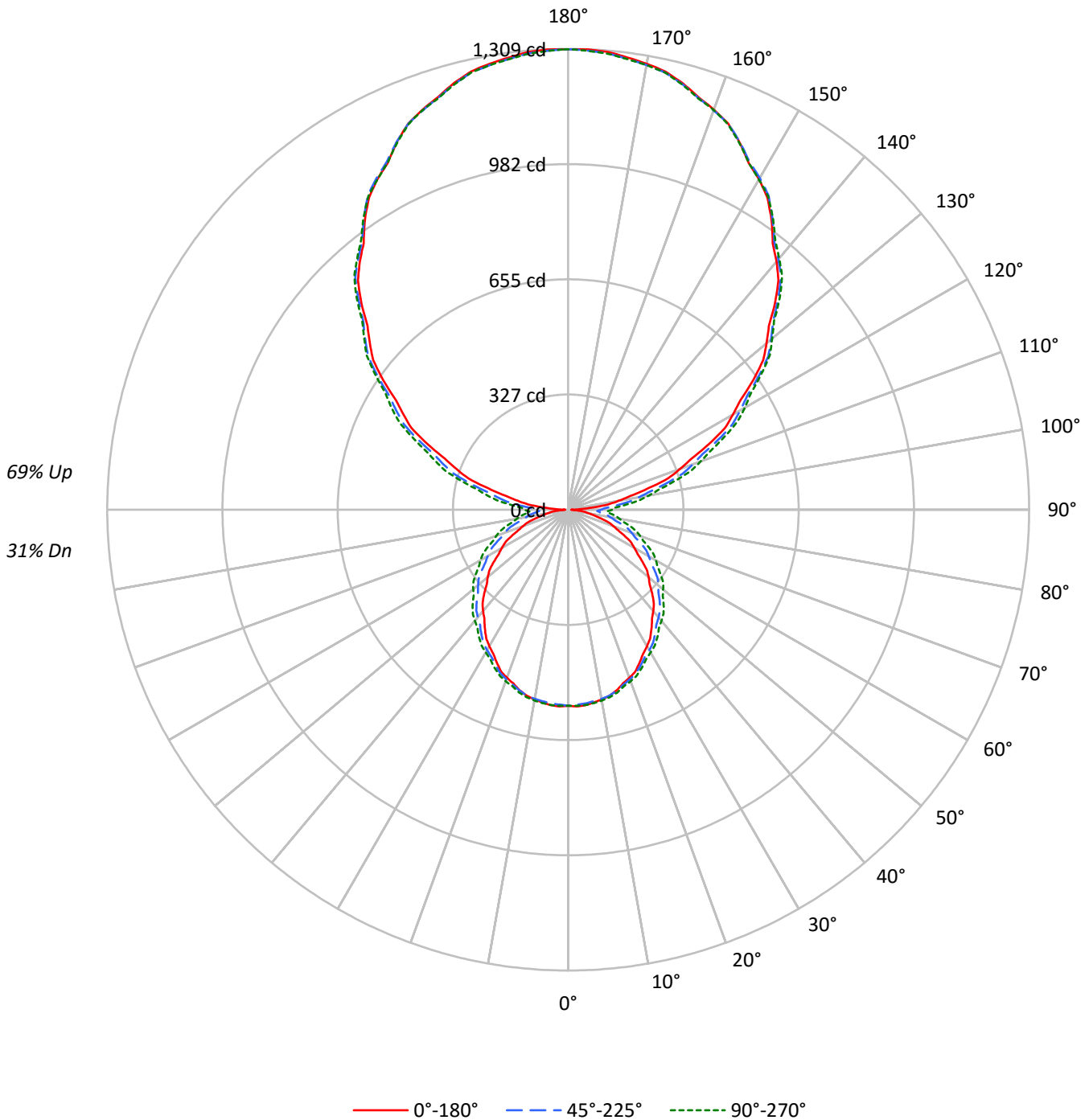
Input Watts (W): 53.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332141-927

CATALOG NUMBER: S123DIW-S560D1320U927-4F0-1E-UDD-D1

Luminous Intensity Polar Plot





TEST NUMBER: P332141-927

CATALOG NUMBER: S123DIW-S560D1320U927-4F0-1E-UDD-D1

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 | 92 | 92 | 92 | 92 | 73 | 73 | 73 | 55 | 55 | 55 | 39 | 39 | 39 | 31 |
| 1 | 93 | 88 | 84 | 81 | 83 | 79 | 76 | 73 | 63 | 60 | 58 | 47 | 46 | 44 | 33 | 32 | 31 | 25 |
| 2 | 84 | 77 | 71 | 65 | 75 | 69 | 64 | 59 | 55 | 51 | 48 | 41 | 39 | 37 | 29 | 27 | 26 | 20 |
| 3 | 77 | 67 | 60 | 54 | 69 | 61 | 54 | 49 | 48 | 43 | 40 | 36 | 33 | 31 | 25 | 23 | 22 | 17 |
| 4 | 70 | 59 | 51 | 45 | 63 | 53 | 47 | 41 | 42 | 37 | 34 | 32 | 29 | 26 | 23 | 20 | 19 | 14 |
| 5 | 64 | 53 | 45 | 39 | 57 | 47 | 40 | 35 | 38 | 33 | 29 | 29 | 25 | 22 | 20 | 18 | 16 | 12 |
| 6 | 59 | 47 | 39 | 33 | 53 | 42 | 35 | 30 | 34 | 29 | 25 | 26 | 22 | 19 | 18 | 16 | 14 | 11 |
| 7 | 54 | 42 | 34 | 29 | 49 | 38 | 31 | 26 | 31 | 25 | 22 | 23 | 20 | 17 | 17 | 14 | 12 | 10 |
| 8 | 50 | 38 | 31 | 25 | 45 | 35 | 28 | 23 | 28 | 23 | 19 | 21 | 18 | 15 | 15 | 13 | 11 | 8 |
| 9 | 47 | 35 | 27 | 22 | 42 | 31 | 25 | 21 | 25 | 20 | 17 | 20 | 16 | 13 | 14 | 12 | 10 | 8 |
| 10 | 44 | 32 | 25 | 20 | 39 | 29 | 23 | 18 | 23 | 18 | 15 | 18 | 14 | 12 | 13 | 11 | 9 | 7 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 5997 | 5997 | 5997 |
| 5° | 6015 | 5845 | 5849 |
| 10° | 5961 | 5711 | 5682 |
| 15° | 5884 | 5558 | 5501 |
| 20° | 5774 | 5383 | 5300 |
| 25° | 5639 | 5182 | 5090 |
| 30° | 5500 | 5002 | 4877 |
| 35° | 5344 | 4810 | 4707 |
| 40° | 5195 | 4636 | 4524 |
| 45° | 5031 | 4469 | 4378 |
| 50° | 4868 | 4304 | 4219 |
| 55° | 4689 | 4134 | 4074 |
| 60° | 4513 | 3964 | 3925 |
| 65° | 4335 | 3780 | 3750 |
| 70° | 4066 | 3576 | 3568 |
| 75° | 3724 | 3338 | 3386 |
| 80° | 3326 | 3109 | 3176 |
| 85° | 2963 | 2948 | 3053 |



TEST NUMBER: P332141-927

CATALOG NUMBER: S123DIW-S560D1320U927-4F0-1E-UDD-D1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 52.8 | 1.0 |
| 10°-20° | 150.5 | 2.7 |
| 20°-30° | 225.2 | 4.1 |
| 30°-40° | 268.9 | 4.9 |
| 40°-50° | 281.3 | 5.1 |
| 50°-60° | 264.0 | 4.8 |
| 60°-70° | 220.5 | 4.0 |
| 70°-80° | 157.8 | 2.9 |
| 80°-90° | 97.9 | 1.8 |
| 90°-100° | 144.2 | 2.6 |
| 100°-110° | 298.4 | 5.4 |
| 110°-120° | 462.7 | 8.4 |
| 120°-130° | 587.1 | 10.7 |
| 130°-140° | 648.7 | 11.8 |
| 140°-150° | 631.9 | 11.5 |
| 150°-160° | 530.7 | 9.6 |
| 160°-170° | 353.3 | 6.4 |
| 170°-180° | 123.7 | 2.2 |
| 0°-30° | 428.5 | 7.8 |
| 0°-40° | 697.4 | 12.7 |
| 0°-60° | 1242.7 | 22.6 |
| 0°-90° | 1718.9 | 31.3 |
| 90°-120° | 905.4 | 16.5 |
| 90°-150° | 2773.1 | 50.4 |
| 90°-180° | 3781.0 | 68.7 |
| 0°-180° | 5499.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 557 | 557 | 557 | 557 | 557 | |
| 5° | 558 | 556 | 553 | 557 | 557 | 53 |
| 15° | 531 | 533 | 532 | 538 | 538 | 149 |
| 25° | 479 | 485 | 487 | 495 | 495 | 221 |
| 35° | 413 | 422 | 430 | 439 | 442 | 258 |
| 45° | 337 | 352 | 367 | 378 | 384 | 260 |
| 55° | 257 | 277 | 299 | 315 | 320 | 230 |
| 65° | 178 | 202 | 228 | 246 | 252 | 176 |
| 75° | 96 | 125 | 155 | 175 | 183 | 103 |
| 85° | 30 | 60 | 92 | 112 | 119 | 31 |
| 90° | 9 | 49 | 93 | 117 | 126 | 9 |
| 95° | 67 | 98 | 136 | 158 | 165 | 73 |
| 105° | 236 | 254 | 288 | 304 | 312 | 252 |
| 115° | 440 | 451 | 470 | 485 | 489 | 435 |
| 125° | 641 | 645 | 660 | 668 | 668 | 571 |
| 135° | 830 | 836 | 842 | 848 | 849 | 640 |
| 145° | 1006 | 1008 | 1011 | 1014 | 1013 | 628 |
| 155° | 1152 | 1152 | 1153 | 1156 | 1150 | 530 |
| 165° | 1254 | 1252 | 1251 | 1257 | 1250 | 354 |
| 175° | 1305 | 1301 | 1301 | 1306 | 1300 | 124 |
| 180° | 1308 | 1308 | 1308 | 1308 | 1308 | |



TEST NUMBER: P332141-927

CATALOG NUMBER: S123DIW-S560D1320U927-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 557.1 | 557.1 | 557.1 | 557.1 | 557.1 | 557.1 | 557.1 | 557.1 | 557.1 | 557.1 | 557.1 |
| 2.5° | 559.5 | 559.2 | 558.9 | 558.5 | 558.2 | 557.6 | 556.7 | 555.9 | 555.0 | 554.1 | 555.0 |
| 5° | 557.7 | 557.4 | 557.1 | 556.9 | 556.6 | 556.0 | 555.2 | 554.4 | 553.7 | 552.8 | 553.9 |
| 7.5° | 552.2 | 552.2 | 552.3 | 552.4 | 552.5 | 552.1 | 551.3 | 550.5 | 549.7 | 548.9 | 550.2 |
| 10° | 547.4 | 547.6 | 547.9 | 548.2 | 548.4 | 548.3 | 547.6 | 546.9 | 546.2 | 545.6 | 546.9 |
| 12.5° | 541.5 | 541.9 | 542.3 | 542.6 | 543.0 | 543.0 | 542.6 | 542.1 | 541.6 | 541.1 | 542.4 |
| 15° | 531.0 | 531.4 | 531.8 | 532.2 | 532.6 | 532.7 | 532.6 | 532.4 | 532.3 | 532.2 | 533.5 |
| 17.5° | 517.6 | 518.4 | 519.3 | 520.1 | 520.9 | 521.3 | 521.2 | 521.1 | 521.1 | 521.0 | 522.2 |
| 20° | 507.9 | 508.7 | 509.5 | 510.3 | 511.1 | 511.7 | 512.0 | 512.2 | 512.5 | 512.8 | 514.0 |
| 22.5° | 497.7 | 498.5 | 499.3 | 500.2 | 501.0 | 501.5 | 501.9 | 502.3 | 502.7 | 503.0 | 504.6 |
| 25° | 479.4 | 480.8 | 482.1 | 483.5 | 484.8 | 485.7 | 486.1 | 486.5 | 486.9 | 487.3 | 489.0 |
| 27.5° | 461.0 | 462.5 | 464.1 | 465.6 | 467.1 | 468.3 | 469.1 | 470.0 | 470.9 | 471.7 | 473.2 |
| 30° | 447.8 | 449.6 | 451.3 | 453.1 | 454.9 | 456.3 | 457.3 | 458.4 | 459.5 | 460.6 | 462.2 |
| 32.5° | 433.2 | 435.2 | 437.2 | 439.2 | 441.2 | 442.8 | 444.3 | 445.6 | 447.0 | 448.5 | 450.2 |
| 35° | 412.6 | 414.8 | 416.9 | 419.1 | 421.3 | 423.3 | 425.0 | 426.7 | 428.5 | 430.2 | 432.3 |
| 37.5° | 390.8 | 393.2 | 395.6 | 398.1 | 400.5 | 402.8 | 405.0 | 407.1 | 409.2 | 411.5 | 413.8 |
| 40° | 376.2 | 378.7 | 381.1 | 383.5 | 386.0 | 388.5 | 391.2 | 393.9 | 396.6 | 399.3 | 401.6 |
| 42.5° | 360.2 | 363.2 | 366.1 | 369.1 | 372.1 | 374.9 | 377.8 | 380.6 | 383.4 | 386.2 | 388.7 |
| 45° | 337.4 | 340.6 | 343.9 | 347.1 | 350.3 | 353.6 | 357.0 | 360.4 | 363.8 | 367.1 | 369.7 |
| 47.5° | 313.5 | 317.2 | 320.8 | 324.5 | 328.1 | 331.9 | 335.8 | 339.6 | 343.5 | 347.4 | 350.2 |
| 50° | 297.9 | 301.7 | 305.5 | 309.3 | 313.1 | 317.0 | 321.2 | 325.4 | 329.5 | 333.7 | 336.8 |
| 52.5° | 281.5 | 285.4 | 289.5 | 293.4 | 297.4 | 301.7 | 306.3 | 310.9 | 315.5 | 320.2 | 323.4 |
| 55° | 257.3 | 261.7 | 266.2 | 270.6 | 275.1 | 279.7 | 284.6 | 289.5 | 294.3 | 299.1 | 302.8 |
| 57.5° | 233.8 | 238.4 | 243.0 | 247.6 | 252.3 | 257.3 | 262.6 | 267.9 | 273.2 | 278.5 | 282.2 |
| 60° | 217.2 | 222.1 | 227.0 | 231.8 | 236.6 | 241.9 | 247.4 | 252.9 | 258.4 | 264.0 | 267.8 |
| 62.5° | 201.7 | 206.7 | 211.7 | 216.6 | 221.6 | 227.0 | 232.8 | 238.7 | 244.5 | 250.4 | 254.1 |
| 65° | 177.8 | 183.1 | 188.3 | 193.6 | 198.8 | 204.5 | 210.4 | 216.3 | 222.2 | 228.1 | 232.2 |
| 67.5° | 153.5 | 159.1 | 164.7 | 170.2 | 175.9 | 181.6 | 187.7 | 193.8 | 199.8 | 205.8 | 210.2 |
| 70° | 136.6 | 142.4 | 148.1 | 153.9 | 159.7 | 165.9 | 172.3 | 178.8 | 185.3 | 191.8 | 196.1 |
| 72.5° | 121.0 | 126.8 | 132.6 | 138.4 | 144.2 | 150.4 | 157.1 | 163.8 | 170.5 | 177.2 | 181.6 |
| 75° | 96.5 | 102.8 | 109.2 | 115.5 | 121.8 | 128.4 | 135.1 | 141.9 | 148.6 | 155.3 | 159.8 |
| 77.5° | 75.1 | 81.5 | 87.9 | 94.3 | 100.7 | 107.3 | 114.1 | 120.9 | 127.7 | 134.5 | 139.2 |
| 80° | 60.0 | 66.7 | 73.3 | 79.9 | 86.5 | 93.3 | 100.3 | 107.3 | 114.4 | 121.4 | 126.0 |
| 82.5° | 47.0 | 53.7 | 60.4 | 67.1 | 73.8 | 80.7 | 87.9 | 95.0 | 102.1 | 109.2 | 113.8 |
| 85° | 29.7 | 36.4 | 43.3 | 50.0 | 56.7 | 63.6 | 70.8 | 78.0 | 85.1 | 92.2 | 96.8 |
| 87.5° | 16.3 | 23.5 | 30.7 | 37.9 | 45.1 | 52.4 | 59.8 | 67.3 | 74.8 | 82.2 | 87.0 |
| 90° | 9.0 | 17.8 | 26.7 | 35.6 | 44.4 | 53.9 | 63.7 | 73.5 | 83.4 | 93.2 | 98.7 |
| 92.5° | 32.2 | 39.8 | 47.3 | 54.8 | 62.3 | 70.3 | 78.7 | 87.2 | 95.7 | 104.2 | 109.3 |
| 95° | 67.3 | 74.1 | 81.0 | 87.9 | 94.7 | 102.3 | 110.8 | 119.2 | 127.7 | 136.1 | 141.2 |
| 97.5° | 113.6 | 119.5 | 125.5 | 131.4 | 137.4 | 144.2 | 151.8 | 159.4 | 167.1 | 174.7 | 179.7 |
| 100° | 145.2 | 150.9 | 156.5 | 162.2 | 167.9 | 174.4 | 181.8 | 189.2 | 196.5 | 203.8 | 208.4 |
| 102.5° | 181.7 | 186.4 | 191.1 | 195.8 | 200.5 | 206.7 | 214.3 | 221.9 | 229.5 | 237.1 | 241.5 |
| 105° | 236.0 | 239.7 | 243.4 | 247.1 | 250.8 | 256.6 | 264.4 | 272.3 | 280.1 | 288.0 | 291.8 |
| 107.5° | 298.6 | 301.6 | 304.7 | 307.7 | 310.7 | 315.4 | 321.7 | 328.0 | 334.3 | 340.6 | 345.0 |
| 110° | 337.5 | 340.5 | 343.3 | 346.2 | 349.1 | 353.5 | 359.3 | 365.2 | 371.0 | 376.8 | 381.3 |



TEST NUMBER: P332141-927

CATALOG NUMBER: S123DIW-S560D1320U927-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 378.7 | 381.0 | 383.2 | 385.5 | 387.8 | 391.5 | 396.8 | 402.0 | 407.3 | 412.6 | 417.1 |
| 115° | 439.7 | 442.0 | 444.3 | 446.6 | 448.9 | 452.3 | 456.7 | 461.1 | 465.5 | 469.8 | 473.3 |
| 117.5° | 501.6 | 503.1 | 504.5 | 506.0 | 507.5 | 510.2 | 514.1 | 518.1 | 522.0 | 526.0 | 529.2 |
| 120° | 539.8 | 541.9 | 543.8 | 545.9 | 548.0 | 550.6 | 554.0 | 557.2 | 560.5 | 563.9 | 566.7 |
| 122.5° | 580.0 | 581.4 | 582.7 | 584.2 | 585.5 | 588.0 | 591.6 | 595.2 | 598.9 | 602.5 | 604.9 |
| 125° | 640.9 | 641.6 | 642.2 | 642.9 | 643.6 | 645.7 | 649.1 | 652.6 | 656.1 | 659.5 | 661.5 |
| 127.5° | 697.6 | 698.9 | 700.3 | 701.6 | 702.9 | 705.0 | 707.7 | 710.4 | 713.1 | 715.9 | 717.2 |
| 130° | 735.4 | 737.1 | 738.8 | 740.5 | 742.2 | 744.0 | 746.1 | 748.1 | 750.0 | 752.1 | 753.8 |
| 132.5° | 772.8 | 774.5 | 776.3 | 778.2 | 779.9 | 781.6 | 783.3 | 785.0 | 786.6 | 788.3 | 789.6 |
| 135° | 830.4 | 831.6 | 832.8 | 834.1 | 835.3 | 836.5 | 837.8 | 839.1 | 840.3 | 841.5 | 843.0 |
| 137.5° | 883.7 | 884.7 | 885.7 | 886.8 | 887.8 | 889.1 | 890.5 | 891.9 | 893.3 | 894.8 | 896.0 |
| 140° | 920.2 | 921.3 | 922.4 | 923.6 | 924.7 | 925.6 | 926.2 | 926.9 | 927.5 | 928.1 | 929.9 |
| 142.5° | 953.9 | 954.9 | 955.9 | 957.0 | 958.0 | 958.8 | 959.3 | 959.7 | 960.2 | 960.8 | 962.3 |
| 145° | 1006.5 | 1006.8 | 1007.1 | 1007.4 | 1007.7 | 1008.3 | 1008.9 | 1009.6 | 1010.3 | 1011.0 | 1011.9 |
| 147.5° | 1051.9 | 1052.7 | 1053.5 | 1054.4 | 1055.2 | 1055.9 | 1056.5 | 1057.2 | 1057.8 | 1058.4 | 1058.8 |
| 150° | 1083.9 | 1084.4 | 1084.9 | 1085.3 | 1085.8 | 1086.2 | 1086.7 | 1087.1 | 1087.6 | 1088.1 | 1088.1 |
| 152.5° | 1110.2 | 1110.9 | 1111.5 | 1112.1 | 1112.8 | 1113.3 | 1113.6 | 1113.8 | 1114.1 | 1114.4 | 1114.8 |
| 155° | 1151.8 | 1151.8 | 1151.8 | 1151.8 | 1151.8 | 1151.9 | 1152.1 | 1152.3 | 1152.5 | 1152.8 | 1153.7 |
| 157.5° | 1187.1 | 1186.8 | 1186.5 | 1186.3 | 1186.0 | 1186.0 | 1186.1 | 1186.3 | 1186.5 | 1186.7 | 1187.6 |
| 160° | 1209.3 | 1208.9 | 1208.4 | 1207.9 | 1207.4 | 1207.2 | 1207.2 | 1207.2 | 1207.2 | 1207.2 | 1208.4 |
| 162.5° | 1229.0 | 1228.4 | 1227.7 | 1227.1 | 1226.5 | 1226.2 | 1226.5 | 1226.6 | 1226.8 | 1226.9 | 1228.1 |
| 165° | 1254.5 | 1253.8 | 1253.2 | 1252.4 | 1251.8 | 1251.4 | 1251.4 | 1251.4 | 1251.4 | 1251.4 | 1252.8 |
| 167.5° | 1274.9 | 1273.9 | 1273.0 | 1272.1 | 1271.2 | 1270.8 | 1271.0 | 1271.2 | 1271.4 | 1271.5 | 1273.0 |
| 170° | 1286.3 | 1285.5 | 1284.5 | 1283.7 | 1282.7 | 1282.2 | 1282.2 | 1282.2 | 1282.2 | 1282.2 | 1283.8 |
| 172.5° | 1295.4 | 1294.5 | 1293.6 | 1292.7 | 1291.7 | 1291.3 | 1291.3 | 1291.3 | 1291.3 | 1291.3 | 1292.7 |
| 175° | 1304.9 | 1303.9 | 1303.1 | 1302.1 | 1301.2 | 1300.8 | 1300.8 | 1300.8 | 1300.8 | 1300.8 | 1302.1 |
| 177.5° | 1308.8 | 1308.1 | 1307.3 | 1306.5 | 1305.8 | 1305.4 | 1305.4 | 1305.4 | 1305.4 | 1305.4 | 1306.5 |
| 180° | 1308.0 | 1308.0 | 1308.0 | 1308.0 | 1308.0 | 1308.0 | 1308.0 | 1308.0 | 1308.0 | 1308.0 | 1308.0 |



TEST NUMBER: P332141-927

CATALOG NUMBER: S123DIW-S560D1320U927-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 557.1 | 557.1 | 557.1 | 557.1 | 557.1 | 557.1 | 557.1 | 557.1 |
| 2.5° | 555.9 | 556.7 | 557.6 | 558.0 | 557.9 | 557.8 | 557.7 | 557.5 |
| 5° | 555.0 | 556.0 | 557.1 | 557.6 | 557.5 | 557.3 | 557.2 | 557.1 |
| 7.5° | 551.6 | 552.9 | 554.4 | 554.9 | 554.8 | 554.6 | 554.4 | 554.3 |
| 10° | 548.3 | 549.6 | 551.0 | 551.4 | 551.2 | 551.0 | 550.6 | 550.4 |
| 12.5° | 543.7 | 544.9 | 546.1 | 546.6 | 546.4 | 546.1 | 545.8 | 545.6 |
| 15° | 534.9 | 536.2 | 537.6 | 538.2 | 538.1 | 537.9 | 537.8 | 537.7 |
| 17.5° | 523.5 | 524.7 | 525.9 | 526.4 | 526.2 | 526.0 | 525.9 | 525.6 |
| 20° | 515.2 | 516.4 | 517.6 | 518.3 | 518.4 | 518.6 | 518.7 | 518.8 |
| 22.5° | 506.1 | 507.7 | 509.2 | 509.9 | 509.8 | 509.8 | 509.7 | 509.6 |
| 25° | 490.8 | 492.6 | 494.3 | 495.2 | 495.2 | 495.2 | 495.2 | 495.2 |
| 27.5° | 474.8 | 476.3 | 477.8 | 478.6 | 478.7 | 478.8 | 479.0 | 479.0 |
| 30° | 463.8 | 465.4 | 467.1 | 467.9 | 467.9 | 467.9 | 467.9 | 467.9 |
| 32.5° | 451.9 | 453.6 | 455.3 | 456.4 | 456.7 | 457.0 | 457.3 | 457.6 |
| 35° | 434.3 | 436.3 | 438.3 | 439.6 | 440.1 | 440.7 | 441.2 | 441.8 |
| 37.5° | 416.0 | 418.3 | 420.6 | 422.0 | 422.4 | 422.8 | 423.3 | 423.7 |
| 40° | 403.9 | 406.2 | 408.4 | 409.9 | 410.4 | 411.0 | 411.5 | 412.0 |
| 42.5° | 391.2 | 393.7 | 396.2 | 397.8 | 398.6 | 399.3 | 400.1 | 400.8 |
| 45° | 372.2 | 374.8 | 377.4 | 379.2 | 380.2 | 381.4 | 382.5 | 383.5 |
| 47.5° | 353.2 | 356.0 | 358.9 | 360.8 | 361.6 | 362.4 | 363.3 | 364.1 |
| 50° | 339.9 | 343.1 | 346.2 | 348.2 | 349.1 | 350.1 | 351.0 | 352.0 |
| 52.5° | 326.6 | 329.8 | 333.0 | 335.2 | 336.4 | 337.5 | 338.7 | 339.8 |
| 55° | 306.4 | 310.1 | 313.7 | 316.1 | 317.2 | 318.2 | 319.3 | 320.4 |
| 57.5° | 285.9 | 289.5 | 293.2 | 295.6 | 296.9 | 298.2 | 299.4 | 300.7 |
| 60° | 271.6 | 275.3 | 279.1 | 281.7 | 283.2 | 284.6 | 286.1 | 287.6 |
| 62.5° | 257.9 | 261.7 | 265.5 | 268.1 | 269.4 | 270.8 | 272.2 | 273.5 |
| 65° | 236.2 | 240.3 | 244.4 | 247.1 | 248.4 | 249.8 | 251.1 | 252.5 |
| 67.5° | 214.7 | 219.1 | 223.6 | 226.3 | 227.4 | 228.5 | 229.7 | 230.8 |
| 70° | 200.4 | 204.7 | 209.1 | 211.8 | 213.2 | 214.5 | 215.9 | 217.2 |
| 72.5° | 186.0 | 190.4 | 194.9 | 197.8 | 199.2 | 200.5 | 201.8 | 203.2 |
| 75° | 164.2 | 168.7 | 173.2 | 176.2 | 177.8 | 179.4 | 181.0 | 182.7 |
| 77.5° | 143.9 | 148.5 | 153.2 | 156.2 | 157.5 | 158.7 | 159.9 | 161.2 |
| 80° | 130.6 | 135.1 | 139.7 | 142.7 | 144.0 | 145.4 | 146.7 | 148.1 |
| 82.5° | 118.4 | 122.9 | 127.5 | 130.6 | 131.9 | 133.2 | 134.6 | 135.9 |
| 85° | 101.4 | 106.0 | 110.6 | 113.5 | 114.9 | 116.2 | 117.6 | 118.9 |
| 87.5° | 91.8 | 96.6 | 101.3 | 104.4 | 105.8 | 107.3 | 108.8 | 110.2 |
| 90° | 104.3 | 109.7 | 115.3 | 118.9 | 120.6 | 122.5 | 124.3 | 126.1 |
| 92.5° | 114.5 | 119.8 | 125.0 | 128.1 | 129.0 | 130.0 | 130.9 | 131.9 |
| 95° | 146.3 | 151.4 | 156.5 | 159.7 | 161.1 | 162.4 | 163.7 | 165.1 |
| 97.5° | 184.8 | 189.9 | 195.0 | 198.1 | 199.4 | 200.7 | 201.9 | 203.1 |
| 100° | 213.0 | 217.6 | 222.2 | 225.4 | 227.2 | 229.0 | 230.8 | 232.7 |
| 102.5° | 246.1 | 250.6 | 255.0 | 257.9 | 259.1 | 260.4 | 261.7 | 262.9 |
| 105° | 295.6 | 299.3 | 303.1 | 305.8 | 307.4 | 309.2 | 310.9 | 312.5 |
| 107.5° | 349.4 | 353.7 | 358.1 | 360.7 | 361.6 | 362.5 | 363.4 | 364.3 |
| 110° | 385.7 | 390.1 | 394.5 | 397.0 | 397.7 | 398.3 | 398.9 | 399.6 |



TEST NUMBER: P332141-927

CATALOG NUMBER: S123DIW-S560D1320U927-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 421.6 | 426.0 | 430.6 | 433.3 | 434.4 | 435.5 | 436.7 | 437.8 |
| 115° | 476.8 | 480.2 | 483.7 | 485.8 | 486.7 | 487.6 | 488.5 | 489.3 |
| 117.5° | 532.3 | 535.5 | 538.7 | 540.4 | 540.9 | 541.3 | 541.7 | 542.1 |
| 120° | 569.6 | 572.5 | 575.4 | 577.0 | 577.5 | 578.0 | 578.5 | 579.0 |
| 122.5° | 607.4 | 609.7 | 612.1 | 613.5 | 613.8 | 614.1 | 614.4 | 614.7 |
| 125° | 663.4 | 665.3 | 667.2 | 668.1 | 668.2 | 668.2 | 668.3 | 668.3 |
| 127.5° | 718.7 | 720.0 | 721.4 | 722.1 | 721.9 | 721.8 | 721.7 | 721.5 |
| 130° | 755.3 | 757.0 | 758.7 | 759.1 | 758.4 | 757.6 | 756.8 | 756.0 |
| 132.5° | 791.0 | 792.3 | 793.7 | 794.2 | 793.9 | 793.6 | 793.3 | 793.0 |
| 135° | 844.6 | 846.1 | 847.6 | 848.5 | 848.7 | 848.9 | 849.1 | 849.4 |
| 137.5° | 897.1 | 898.3 | 899.4 | 899.9 | 899.8 | 899.5 | 899.4 | 899.1 |
| 140° | 931.8 | 933.5 | 935.3 | 935.8 | 934.9 | 933.9 | 933.0 | 932.1 |
| 142.5° | 963.9 | 965.4 | 967.0 | 967.6 | 967.0 | 966.5 | 965.9 | 965.4 |
| 145° | 1012.7 | 1013.5 | 1014.4 | 1014.6 | 1014.2 | 1013.9 | 1013.5 | 1013.1 |
| 147.5° | 1059.1 | 1059.5 | 1059.8 | 1059.5 | 1058.6 | 1057.7 | 1056.9 | 1056.0 |
| 150° | 1088.1 | 1088.1 | 1088.1 | 1087.5 | 1086.4 | 1085.3 | 1084.2 | 1083.1 |
| 152.5° | 1115.1 | 1115.5 | 1115.8 | 1115.5 | 1114.3 | 1113.2 | 1112.1 | 1110.9 |
| 155° | 1154.6 | 1155.6 | 1156.4 | 1156.1 | 1154.5 | 1152.9 | 1151.3 | 1149.7 |
| 157.5° | 1188.6 | 1189.5 | 1190.6 | 1190.3 | 1189.1 | 1187.8 | 1186.5 | 1185.3 |
| 160° | 1209.5 | 1210.7 | 1211.8 | 1212.0 | 1211.0 | 1210.1 | 1209.2 | 1208.2 |
| 162.5° | 1229.2 | 1230.4 | 1231.5 | 1231.4 | 1229.9 | 1228.4 | 1227.0 | 1225.5 |
| 165° | 1254.2 | 1255.5 | 1256.9 | 1256.8 | 1255.2 | 1253.6 | 1252.0 | 1250.4 |
| 167.5° | 1274.4 | 1275.8 | 1277.2 | 1277.2 | 1275.8 | 1274.4 | 1273.0 | 1271.5 |
| 170° | 1285.5 | 1287.1 | 1288.6 | 1288.6 | 1287.1 | 1285.5 | 1283.8 | 1282.2 |
| 172.5° | 1294.1 | 1295.5 | 1297.0 | 1296.9 | 1295.3 | 1293.6 | 1292.0 | 1290.5 |
| 175° | 1303.5 | 1304.9 | 1306.2 | 1306.1 | 1304.5 | 1302.9 | 1301.3 | 1299.7 |
| 177.5° | 1307.7 | 1308.8 | 1309.9 | 1309.8 | 1308.4 | 1307.2 | 1305.9 | 1304.6 |
| 180° | 1308.0 | 1308.0 | 1308.0 | 1308.0 | 1308.0 | 1308.0 | 1308.0 | 1308.0 |

(END OF REPORT)