

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: P332141-840

Luminaire Tested: **S123DIW-S560D1320U840-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332141-840
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-S560D1320U840-4F0-1E-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: 7010.9 lumens
Efficiency: N/A
Efficacy: 130.3 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

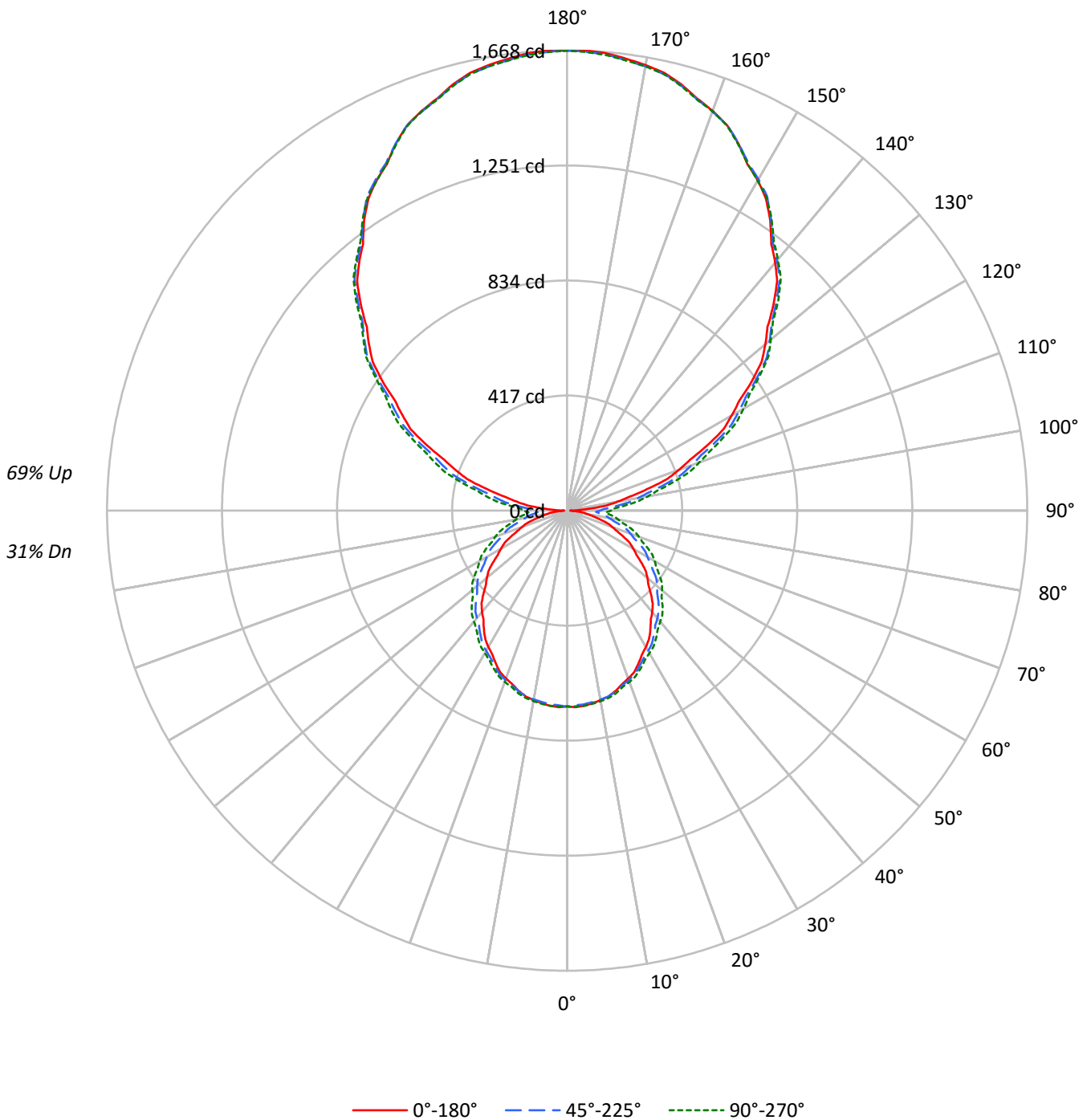
Input Watts (W): 53.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332141-840

CATALOG NUMBER: S123DIW-S560D1320U840-4F0-1E-UDD-D1

Luminous Intensity Polar Plot





TEST NUMBER: P332141-840

CATALOG NUMBER: S123DIW-S560D1320U840-4F0-1E-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° | 7643 | 7643 | 7643 |
| 5° | 7667 | 7451 | 7455 |
| 10° | 7599 | 7280 | 7244 |
| 15° | 7501 | 7084 | 7012 |
| 20° | 7361 | 6862 | 6756 |
| 25° | 7189 | 6606 | 6489 |
| 30° | 7011 | 6375 | 6216 |
| 35° | 6812 | 6132 | 6000 |
| 40° | 6623 | 5910 | 5767 |
| 45° | 6414 | 5697 | 5582 |
| 50° | 6206 | 5488 | 5378 |
| 55° | 5978 | 5271 | 5194 |
| 60° | 5753 | 5053 | 5005 |
| 65° | 5525 | 4819 | 4780 |
| 70° | 5183 | 4558 | 4549 |
| 75° | 4746 | 4256 | 4316 |
| 80° | 4241 | 3962 | 4047 |
| 85° | 3780 | 3757 | 3892 |



TEST NUMBER: P332141-840

CATALOG NUMBER: S123DIW-S560D1320U840-4F0-1E-UDD-D1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 67.3 | 1.0 |
| 10°-20° | 191.9 | 2.7 |
| 20°-30° | 287.0 | 4.1 |
| 30°-40° | 342.8 | 4.9 |
| 40°-50° | 358.6 | 5.1 |
| 50°-60° | 336.5 | 4.8 |
| 60°-70° | 281.1 | 4.0 |
| 70°-80° | 201.1 | 2.9 |
| 80°-90° | 124.9 | 1.8 |
| 90°-100° | 183.9 | 2.6 |
| 100°-110° | 380.4 | 5.4 |
| 110°-120° | 589.9 | 8.4 |
| 120°-130° | 748.4 | 10.7 |
| 130°-140° | 827.0 | 11.8 |
| 140°-150° | 805.6 | 11.5 |
| 150°-160° | 676.5 | 9.6 |
| 160°-170° | 450.3 | 6.4 |
| 170°-180° | 157.7 | 2.2 |
| 0°-30° | 546.3 | 7.8 |
| 0°-40° | 889.0 | 12.7 |
| 0°-60° | 1584.2 | 22.6 |
| 0°-90° | 2191.2 | 31.3 |
| 90°-120° | 1154.2 | 16.5 |
| 90°-150° | 3535.2 | 50.4 |
| 90°-180° | 4820.0 | 68.7 |
| 0°-180° | 7010.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 710 | 710 | 710 | 710 | 710 | |
| 5° | 711 | 709 | 705 | 710 | 710 | 67 |
| 15° | 677 | 679 | 678 | 686 | 685 | 191 |
| 25° | 611 | 619 | 621 | 631 | 631 | 282 |
| 35° | 526 | 538 | 548 | 560 | 563 | 329 |
| 45° | 430 | 449 | 468 | 482 | 489 | 332 |
| 55° | 328 | 354 | 381 | 401 | 408 | 294 |
| 65° | 227 | 257 | 291 | 313 | 322 | 224 |
| 75° | 123 | 160 | 198 | 223 | 233 | 131 |
| 85° | 38 | 77 | 118 | 143 | 152 | 40 |
| 90° | 11 | 63 | 119 | 149 | 161 | 12 |
| 95° | 86 | 126 | 174 | 202 | 210 | 93 |
| 105° | 301 | 323 | 367 | 388 | 398 | 322 |
| 115° | 560 | 574 | 599 | 618 | 624 | 555 |
| 125° | 817 | 822 | 841 | 851 | 852 | 729 |
| 135° | 1058 | 1066 | 1073 | 1081 | 1083 | 815 |
| 145° | 1283 | 1285 | 1289 | 1293 | 1292 | 801 |
| 155° | 1468 | 1468 | 1470 | 1474 | 1466 | 676 |
| 165° | 1599 | 1596 | 1595 | 1602 | 1594 | 451 |
| 175° | 1663 | 1658 | 1658 | 1665 | 1657 | 158 |
| 180° | 1667 | 1667 | 1667 | 1667 | 1667 | |



TEST NUMBER: P332141-840

CATALOG NUMBER: S123DIW-S560D1320U840-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 710.1 | 710.1 | 710.1 | 710.1 | 710.1 | 710.1 | 710.1 | 710.1 | 710.1 | 710.1 | 710.1 |
| 2.5° | 713.3 | 712.9 | 712.5 | 712.0 | 711.6 | 710.8 | 709.7 | 708.6 | 707.5 | 706.4 | 707.5 |
| 5° | 710.9 | 710.5 | 710.2 | 709.9 | 709.5 | 708.8 | 707.8 | 706.8 | 705.8 | 704.7 | 706.1 |
| 7.5° | 704.0 | 704.0 | 704.1 | 704.2 | 704.3 | 703.8 | 702.8 | 701.8 | 700.7 | 699.7 | 701.5 |
| 10° | 697.8 | 698.1 | 698.4 | 698.8 | 699.1 | 698.9 | 698.0 | 697.2 | 696.3 | 695.5 | 697.2 |
| 12.5° | 690.3 | 690.8 | 691.4 | 691.8 | 692.3 | 692.3 | 691.7 | 691.1 | 690.4 | 689.8 | 691.5 |
| 15° | 676.9 | 677.4 | 677.9 | 678.4 | 678.9 | 679.1 | 678.9 | 678.7 | 678.6 | 678.4 | 680.1 |
| 17.5° | 659.8 | 660.9 | 662.0 | 663.0 | 664.0 | 664.5 | 664.4 | 664.3 | 664.3 | 664.2 | 665.7 |
| 20° | 647.5 | 648.5 | 649.5 | 650.6 | 651.6 | 652.3 | 652.7 | 653.0 | 653.3 | 653.7 | 655.2 |
| 22.5° | 634.5 | 635.5 | 636.5 | 637.6 | 638.6 | 639.3 | 639.9 | 640.4 | 640.9 | 641.3 | 643.3 |
| 25° | 611.2 | 612.9 | 614.6 | 616.3 | 618.0 | 619.1 | 619.7 | 620.2 | 620.7 | 621.2 | 623.4 |
| 27.5° | 587.6 | 589.6 | 591.6 | 593.5 | 595.4 | 596.9 | 598.0 | 599.2 | 600.3 | 601.4 | 603.3 |
| 30° | 570.9 | 573.1 | 575.3 | 577.6 | 579.9 | 581.7 | 583.0 | 584.4 | 585.7 | 587.1 | 589.3 |
| 32.5° | 552.3 | 554.8 | 557.3 | 559.9 | 562.4 | 564.5 | 566.3 | 568.0 | 569.9 | 571.7 | 573.9 |
| 35° | 526.0 | 528.8 | 531.5 | 534.3 | 537.0 | 539.6 | 541.8 | 544.0 | 546.2 | 548.5 | 551.1 |
| 37.5° | 498.2 | 501.3 | 504.3 | 507.5 | 510.6 | 513.5 | 516.2 | 519.0 | 521.7 | 524.5 | 527.5 |
| 40° | 479.6 | 482.7 | 485.8 | 488.9 | 492.0 | 495.2 | 498.7 | 502.1 | 505.5 | 509.0 | 511.9 |
| 42.5° | 459.2 | 463.0 | 466.8 | 470.5 | 474.3 | 478.0 | 481.6 | 485.1 | 488.8 | 492.3 | 495.5 |
| 45° | 430.1 | 434.2 | 438.4 | 442.5 | 446.6 | 450.8 | 455.1 | 459.4 | 463.7 | 468.0 | 471.3 |
| 47.5° | 399.6 | 404.3 | 409.0 | 413.6 | 418.3 | 423.1 | 428.1 | 432.9 | 437.9 | 442.8 | 446.5 |
| 50° | 379.8 | 384.7 | 389.4 | 394.3 | 399.1 | 404.1 | 409.5 | 414.9 | 420.1 | 425.5 | 429.4 |
| 52.5° | 358.8 | 363.9 | 369.0 | 374.1 | 379.1 | 384.7 | 390.5 | 396.4 | 402.2 | 408.2 | 412.2 |
| 55° | 328.0 | 333.7 | 339.3 | 345.0 | 350.7 | 356.6 | 362.8 | 369.0 | 375.2 | 381.3 | 386.0 |
| 57.5° | 298.0 | 303.9 | 309.8 | 315.7 | 321.6 | 328.0 | 334.8 | 341.5 | 348.3 | 355.1 | 359.7 |
| 60° | 276.9 | 283.2 | 289.3 | 295.5 | 301.6 | 308.3 | 315.4 | 322.4 | 329.4 | 336.5 | 341.3 |
| 62.5° | 257.1 | 263.5 | 269.8 | 276.1 | 282.5 | 289.3 | 296.8 | 304.3 | 311.7 | 319.2 | 324.0 |
| 65° | 226.6 | 233.4 | 240.0 | 246.8 | 253.5 | 260.6 | 268.2 | 275.7 | 283.3 | 290.8 | 296.0 |
| 67.5° | 195.7 | 202.9 | 210.0 | 217.0 | 224.2 | 231.6 | 239.3 | 247.0 | 254.7 | 262.4 | 268.0 |
| 70° | 174.1 | 181.5 | 188.8 | 196.2 | 203.6 | 211.5 | 219.6 | 227.9 | 236.2 | 244.5 | 249.9 |
| 72.5° | 154.2 | 161.7 | 169.1 | 176.4 | 183.8 | 191.8 | 200.3 | 208.8 | 217.3 | 225.9 | 231.6 |
| 75° | 123.0 | 131.1 | 139.2 | 147.2 | 155.3 | 163.7 | 172.3 | 180.9 | 189.5 | 198.0 | 203.7 |
| 77.5° | 95.7 | 103.9 | 112.1 | 120.2 | 128.4 | 136.7 | 145.4 | 154.1 | 162.8 | 171.5 | 177.4 |
| 80° | 76.5 | 85.0 | 93.4 | 101.9 | 110.3 | 119.0 | 127.8 | 136.8 | 145.8 | 154.7 | 160.6 |
| 82.5° | 59.9 | 68.5 | 77.0 | 85.5 | 94.1 | 102.9 | 112.0 | 121.1 | 130.2 | 139.3 | 145.1 |
| 85° | 37.9 | 46.5 | 55.1 | 63.7 | 72.3 | 81.1 | 90.3 | 99.4 | 108.5 | 117.5 | 123.4 |
| 87.5° | 20.8 | 30.0 | 39.1 | 48.3 | 57.5 | 66.8 | 76.2 | 85.8 | 95.3 | 104.8 | 110.9 |
| 90° | 11.4 | 22.7 | 34.0 | 45.3 | 56.7 | 68.7 | 81.2 | 93.7 | 106.3 | 118.9 | 125.8 |
| 92.5° | 41.1 | 50.7 | 60.3 | 69.9 | 79.5 | 89.6 | 100.4 | 111.2 | 122.0 | 132.8 | 139.4 |
| 95° | 85.7 | 94.5 | 103.3 | 112.0 | 120.8 | 130.5 | 141.3 | 152.0 | 162.8 | 173.5 | 180.0 |
| 97.5° | 144.8 | 152.4 | 160.0 | 167.5 | 175.1 | 183.8 | 193.5 | 203.2 | 213.0 | 222.7 | 229.1 |
| 100° | 185.1 | 192.4 | 199.5 | 206.8 | 214.1 | 222.4 | 231.8 | 241.2 | 250.4 | 259.8 | 265.7 |
| 102.5° | 231.7 | 237.6 | 243.6 | 249.6 | 255.6 | 263.5 | 273.2 | 282.9 | 292.6 | 302.3 | 307.9 |
| 105° | 300.8 | 305.6 | 310.3 | 315.0 | 319.7 | 327.1 | 337.1 | 347.1 | 357.1 | 367.1 | 371.9 |
| 107.5° | 380.6 | 384.5 | 388.4 | 392.2 | 396.1 | 402.0 | 410.1 | 418.2 | 426.2 | 434.2 | 439.8 |
| 110° | 430.3 | 434.0 | 437.7 | 441.3 | 445.0 | 450.6 | 458.1 | 465.5 | 472.9 | 480.4 | 486.0 |



TEST NUMBER: P332141-840

CATALOG NUMBER: S123DIW-S560D1320U840-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 482.7 | 485.6 | 488.5 | 491.4 | 494.3 | 499.1 | 505.8 | 512.5 | 519.3 | 525.9 | 531.7 |
| 115° | 560.5 | 563.5 | 566.4 | 569.4 | 572.3 | 576.5 | 582.2 | 587.7 | 593.4 | 599.0 | 603.4 |
| 117.5° | 639.4 | 641.4 | 643.2 | 645.0 | 646.9 | 650.4 | 655.4 | 660.5 | 665.5 | 670.6 | 674.6 |
| 120° | 688.1 | 690.7 | 693.3 | 695.9 | 698.5 | 702.0 | 706.2 | 710.3 | 714.6 | 718.8 | 722.5 |
| 122.5° | 739.4 | 741.1 | 742.9 | 744.7 | 746.4 | 749.5 | 754.2 | 758.8 | 763.5 | 768.1 | 771.1 |
| 125° | 817.0 | 817.9 | 818.7 | 819.6 | 820.5 | 823.1 | 827.5 | 831.9 | 836.4 | 840.7 | 843.2 |
| 127.5° | 889.3 | 891.0 | 892.7 | 894.3 | 896.1 | 898.7 | 902.1 | 905.6 | 909.1 | 912.6 | 914.3 |
| 130° | 937.5 | 939.7 | 941.8 | 943.9 | 946.1 | 948.5 | 951.1 | 953.6 | 956.1 | 958.8 | 960.9 |
| 132.5° | 985.1 | 987.3 | 989.7 | 992.0 | 994.2 | 996.4 | 998.6 | 1000.7 | 1002.8 | 1004.9 | 1006.6 |
| 135° | 1058.5 | 1060.2 | 1061.7 | 1063.3 | 1064.8 | 1066.4 | 1068.0 | 1069.6 | 1071.3 | 1072.8 | 1074.7 |
| 137.5° | 1126.5 | 1127.8 | 1129.1 | 1130.4 | 1131.8 | 1133.4 | 1135.2 | 1137.0 | 1138.8 | 1140.6 | 1142.2 |
| 140° | 1173.1 | 1174.5 | 1175.9 | 1177.4 | 1178.8 | 1179.9 | 1180.7 | 1181.5 | 1182.3 | 1183.2 | 1185.5 |
| 142.5° | 1216.0 | 1217.3 | 1218.6 | 1219.9 | 1221.2 | 1222.2 | 1222.8 | 1223.5 | 1224.1 | 1224.8 | 1226.8 |
| 145° | 1283.0 | 1283.4 | 1283.8 | 1284.2 | 1284.6 | 1285.4 | 1286.2 | 1287.1 | 1288.0 | 1288.8 | 1289.9 |
| 147.5° | 1340.9 | 1342.0 | 1343.0 | 1344.1 | 1345.1 | 1346.0 | 1346.9 | 1347.7 | 1348.5 | 1349.3 | 1349.8 |
| 150° | 1381.8 | 1382.4 | 1383.0 | 1383.5 | 1384.1 | 1384.7 | 1385.3 | 1385.8 | 1386.4 | 1387.0 | 1387.0 |
| 152.5° | 1415.3 | 1416.1 | 1416.9 | 1417.7 | 1418.6 | 1419.2 | 1419.6 | 1419.9 | 1420.3 | 1420.6 | 1421.1 |
| 155° | 1468.2 | 1468.2 | 1468.2 | 1468.2 | 1468.2 | 1468.4 | 1468.6 | 1468.9 | 1469.3 | 1469.6 | 1470.8 |
| 157.5° | 1513.3 | 1513.0 | 1512.6 | 1512.3 | 1511.9 | 1511.9 | 1512.1 | 1512.3 | 1512.6 | 1512.8 | 1514.0 |
| 160° | 1541.6 | 1541.1 | 1540.4 | 1539.8 | 1539.2 | 1538.9 | 1538.9 | 1538.9 | 1538.9 | 1538.9 | 1540.4 |
| 162.5° | 1566.7 | 1565.9 | 1565.1 | 1564.3 | 1563.5 | 1563.2 | 1563.5 | 1563.7 | 1563.9 | 1564.1 | 1565.6 |
| 165° | 1599.2 | 1598.3 | 1597.5 | 1596.6 | 1595.8 | 1595.3 | 1595.3 | 1595.3 | 1595.3 | 1595.3 | 1597.0 |
| 167.5° | 1625.2 | 1624.0 | 1622.9 | 1621.6 | 1620.5 | 1620.0 | 1620.2 | 1620.5 | 1620.7 | 1620.9 | 1622.8 |
| 170° | 1639.8 | 1638.7 | 1637.5 | 1636.4 | 1635.2 | 1634.6 | 1634.6 | 1634.6 | 1634.6 | 1634.6 | 1636.6 |
| 172.5° | 1651.3 | 1650.2 | 1649.0 | 1647.9 | 1646.7 | 1646.1 | 1646.1 | 1646.1 | 1646.1 | 1646.1 | 1647.9 |
| 175° | 1663.4 | 1662.2 | 1661.1 | 1659.9 | 1658.7 | 1658.2 | 1658.2 | 1658.2 | 1658.2 | 1658.2 | 1659.9 |
| 177.5° | 1668.4 | 1667.5 | 1666.5 | 1665.6 | 1664.7 | 1664.2 | 1664.2 | 1664.2 | 1664.2 | 1664.2 | 1665.6 |
| 180° | 1667.4 | 1667.4 | 1667.4 | 1667.4 | 1667.4 | 1667.4 | 1667.4 | 1667.4 | 1667.4 | 1667.4 | 1667.4 |



TEST NUMBER: P332141-840

CATALOG NUMBER: S123DIW-S560D1320U840-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 710.1 | 710.1 | 710.1 | 710.1 | 710.1 | 710.1 | 710.1 | 710.1 |
| 2.5° | 708.6 | 709.7 | 710.8 | 711.3 | 711.1 | 711.0 | 710.9 | 710.7 |
| 5° | 707.5 | 708.8 | 710.2 | 710.8 | 710.6 | 710.4 | 710.3 | 710.1 |
| 7.5° | 703.2 | 704.9 | 706.7 | 707.4 | 707.2 | 707.0 | 706.8 | 706.6 |
| 10° | 698.9 | 700.6 | 702.4 | 703.0 | 702.7 | 702.4 | 702.0 | 701.7 |
| 12.5° | 693.1 | 694.6 | 696.2 | 696.8 | 696.5 | 696.1 | 695.8 | 695.5 |
| 15° | 681.9 | 683.6 | 685.3 | 686.1 | 685.9 | 685.7 | 685.6 | 685.4 |
| 17.5° | 667.3 | 668.8 | 670.3 | 671.1 | 670.8 | 670.6 | 670.3 | 670.0 |
| 20° | 656.8 | 658.3 | 659.8 | 660.8 | 660.9 | 661.1 | 661.3 | 661.4 |
| 22.5° | 645.2 | 647.2 | 649.1 | 650.1 | 649.9 | 649.8 | 649.7 | 649.6 |
| 25° | 625.6 | 627.9 | 630.2 | 631.3 | 631.3 | 631.3 | 631.3 | 631.3 |
| 27.5° | 605.2 | 607.1 | 609.0 | 610.2 | 610.3 | 610.4 | 610.6 | 610.7 |
| 30° | 591.3 | 593.3 | 595.4 | 596.4 | 596.4 | 596.4 | 596.4 | 596.4 |
| 32.5° | 576.0 | 578.2 | 580.5 | 581.8 | 582.2 | 582.6 | 583.0 | 583.4 |
| 35° | 553.6 | 556.2 | 558.8 | 560.4 | 561.1 | 561.8 | 562.5 | 563.2 |
| 37.5° | 530.3 | 533.2 | 536.1 | 538.0 | 538.5 | 539.0 | 539.6 | 540.1 |
| 40° | 514.8 | 517.8 | 520.7 | 522.5 | 523.2 | 523.9 | 524.5 | 525.2 |
| 42.5° | 498.7 | 501.9 | 505.1 | 507.2 | 508.2 | 509.1 | 510.1 | 511.0 |
| 45° | 474.5 | 477.8 | 481.1 | 483.4 | 484.7 | 486.1 | 487.6 | 488.9 |
| 47.5° | 450.2 | 453.8 | 457.5 | 459.9 | 460.9 | 462.0 | 463.1 | 464.1 |
| 50° | 433.3 | 437.4 | 441.3 | 443.8 | 445.0 | 446.3 | 447.5 | 448.7 |
| 52.5° | 416.4 | 420.4 | 424.5 | 427.3 | 428.8 | 430.2 | 431.7 | 433.2 |
| 55° | 390.6 | 395.3 | 399.9 | 402.9 | 404.3 | 405.7 | 407.1 | 408.5 |
| 57.5° | 364.5 | 369.1 | 373.8 | 376.9 | 378.5 | 380.1 | 381.7 | 383.3 |
| 60° | 346.2 | 350.9 | 355.8 | 359.1 | 361.0 | 362.8 | 364.8 | 366.7 |
| 62.5° | 328.8 | 333.7 | 338.4 | 341.7 | 343.5 | 345.2 | 347.0 | 348.7 |
| 65° | 301.1 | 306.3 | 311.5 | 315.0 | 316.7 | 318.4 | 320.1 | 321.8 |
| 67.5° | 273.7 | 279.3 | 285.0 | 288.5 | 289.9 | 291.3 | 292.9 | 294.3 |
| 70° | 255.5 | 260.9 | 266.5 | 270.0 | 271.8 | 273.5 | 275.2 | 276.9 |
| 72.5° | 237.1 | 242.8 | 248.4 | 252.2 | 253.9 | 255.6 | 257.3 | 259.0 |
| 75° | 209.3 | 215.1 | 220.8 | 224.6 | 226.6 | 228.7 | 230.8 | 232.9 |
| 77.5° | 183.4 | 189.3 | 195.3 | 199.1 | 200.8 | 202.3 | 203.9 | 205.5 |
| 80° | 166.4 | 172.3 | 178.1 | 181.9 | 183.6 | 185.3 | 187.0 | 188.7 |
| 82.5° | 151.0 | 156.7 | 162.6 | 166.4 | 168.1 | 169.9 | 171.6 | 173.3 |
| 85° | 129.3 | 135.1 | 141.0 | 144.7 | 146.4 | 148.1 | 149.9 | 151.6 |
| 87.5° | 117.0 | 123.1 | 129.2 | 133.1 | 134.9 | 136.7 | 138.7 | 140.5 |
| 90° | 132.9 | 139.9 | 146.9 | 151.6 | 153.8 | 156.1 | 158.4 | 160.8 |
| 92.5° | 146.0 | 152.7 | 159.4 | 163.3 | 164.5 | 165.7 | 166.9 | 168.1 |
| 95° | 186.5 | 193.0 | 199.4 | 203.6 | 205.3 | 207.0 | 208.7 | 210.5 |
| 97.5° | 235.6 | 242.1 | 248.5 | 252.6 | 254.2 | 255.8 | 257.4 | 258.9 |
| 100° | 271.6 | 277.4 | 283.3 | 287.3 | 289.6 | 292.0 | 294.3 | 296.6 |
| 102.5° | 313.7 | 319.4 | 325.1 | 328.8 | 330.3 | 331.9 | 333.6 | 335.2 |
| 105° | 376.8 | 381.5 | 386.4 | 389.8 | 391.9 | 394.2 | 396.3 | 398.4 |
| 107.5° | 445.4 | 450.9 | 456.5 | 459.8 | 460.9 | 462.1 | 463.2 | 464.4 |
| 110° | 491.7 | 497.4 | 502.9 | 506.1 | 507.0 | 507.8 | 508.6 | 509.4 |



TEST NUMBER: P332141-840

CATALOG NUMBER: S123DIW-S560D1320U840-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 537.5 | 543.1 | 548.9 | 552.4 | 553.8 | 555.2 | 556.6 | 558.1 |
| 115° | 607.8 | 612.2 | 616.6 | 619.4 | 620.5 | 621.6 | 622.7 | 623.7 |
| 117.5° | 678.6 | 682.7 | 686.7 | 688.9 | 689.5 | 690.0 | 690.5 | 691.1 |
| 120° | 726.1 | 729.8 | 733.5 | 735.6 | 736.2 | 736.8 | 737.5 | 738.1 |
| 122.5° | 774.3 | 777.3 | 780.3 | 782.0 | 782.4 | 782.8 | 783.3 | 783.7 |
| 125° | 845.7 | 848.1 | 850.5 | 851.7 | 851.8 | 851.8 | 851.9 | 851.9 |
| 127.5° | 916.1 | 917.9 | 919.7 | 920.5 | 920.3 | 920.2 | 920.0 | 919.8 |
| 130° | 962.9 | 965.0 | 967.1 | 967.7 | 966.7 | 965.7 | 964.7 | 963.7 |
| 132.5° | 1008.4 | 1010.1 | 1011.8 | 1012.5 | 1012.1 | 1011.7 | 1011.3 | 1010.9 |
| 135° | 1076.7 | 1078.6 | 1080.6 | 1081.7 | 1082.0 | 1082.2 | 1082.5 | 1082.8 |
| 137.5° | 1143.6 | 1145.1 | 1146.6 | 1147.2 | 1147.0 | 1146.7 | 1146.5 | 1146.2 |
| 140° | 1187.8 | 1190.0 | 1192.3 | 1193.0 | 1191.7 | 1190.5 | 1189.4 | 1188.2 |
| 142.5° | 1228.8 | 1230.7 | 1232.7 | 1233.4 | 1232.7 | 1232.0 | 1231.3 | 1230.6 |
| 145° | 1291.0 | 1292.0 | 1293.1 | 1293.4 | 1292.9 | 1292.5 | 1292.0 | 1291.5 |
| 147.5° | 1350.2 | 1350.6 | 1351.0 | 1350.6 | 1349.5 | 1348.4 | 1347.3 | 1346.2 |
| 150° | 1387.0 | 1387.0 | 1387.0 | 1386.3 | 1384.9 | 1383.5 | 1382.1 | 1380.7 |
| 152.5° | 1421.5 | 1422.0 | 1422.4 | 1422.0 | 1420.5 | 1419.1 | 1417.6 | 1416.1 |
| 155° | 1471.9 | 1473.1 | 1474.2 | 1473.8 | 1471.8 | 1469.8 | 1467.6 | 1465.6 |
| 157.5° | 1515.2 | 1516.4 | 1517.7 | 1517.4 | 1515.8 | 1514.2 | 1512.6 | 1511.0 |
| 160° | 1541.9 | 1543.4 | 1544.8 | 1545.0 | 1543.8 | 1542.7 | 1541.5 | 1540.2 |
| 162.5° | 1567.0 | 1568.5 | 1569.9 | 1569.7 | 1567.9 | 1566.0 | 1564.2 | 1562.3 |
| 165° | 1598.8 | 1600.5 | 1602.3 | 1602.2 | 1600.1 | 1598.1 | 1596.0 | 1594.0 |
| 167.5° | 1624.6 | 1626.4 | 1628.2 | 1628.2 | 1626.4 | 1624.6 | 1622.8 | 1620.9 |
| 170° | 1638.7 | 1640.7 | 1642.7 | 1642.7 | 1640.7 | 1638.7 | 1636.6 | 1634.6 |
| 172.5° | 1649.7 | 1651.5 | 1653.4 | 1653.3 | 1651.2 | 1649.1 | 1647.1 | 1645.1 |
| 175° | 1661.6 | 1663.4 | 1665.2 | 1665.0 | 1662.9 | 1660.9 | 1658.9 | 1656.9 |
| 177.5° | 1667.0 | 1668.4 | 1669.8 | 1669.7 | 1668.0 | 1666.4 | 1664.8 | 1663.1 |
| 180° | 1667.4 | 1667.4 | 1667.4 | 1667.4 | 1667.4 | 1667.4 | 1667.4 | 1667.4 |

(END OF REPORT)