

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: P332135-830

Luminaire Tested: **S123DIW-S560D1030U830-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332135-830
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-S560D1030U830-4F0-1E-UDD-D1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1030 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5598.9 lumens
Efficiency: N/A
Efficacy: 123.9 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

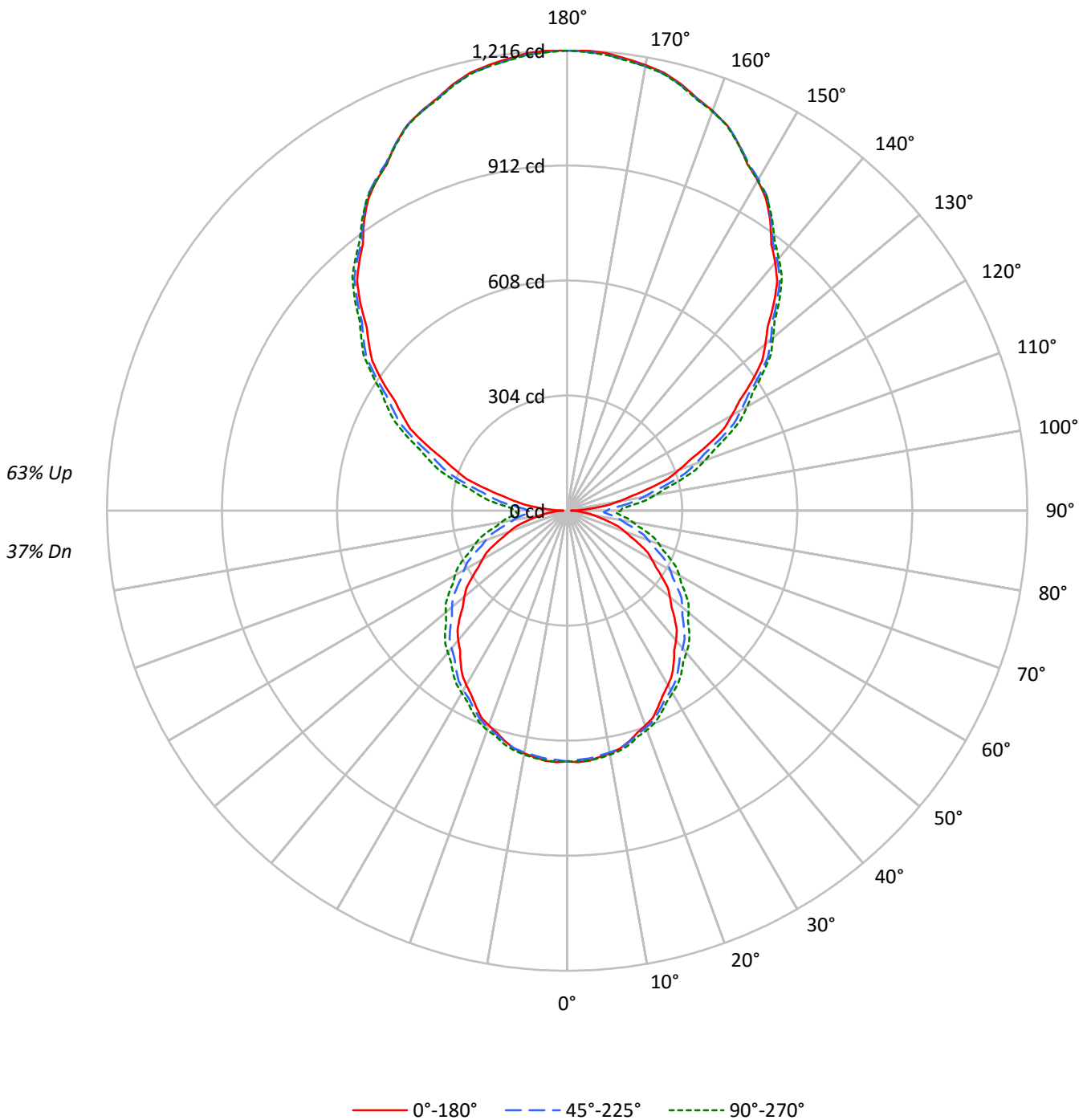
Input Watts (W): 45.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332135-830

CATALOG NUMBER: S123DIW-S560D1030U830-4F0-1E-UDD-D1

Luminous Intensity Polar Plot





TEST NUMBER: P332135-830

CATALOG NUMBER: S123DIW-S560D1030U830-4F0-1E-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 | 104 | 104 | 104 | 104 | 94 | 94 | 94 | 94 | 76 | 76 | 76 | 59 | 59 | 59 | 44 | 44 | 44 | 37 |
| 1 | 94 | 89 | 85 | 82 | 85 | 81 | 77 | 74 | 65 | 63 | 60 | 51 | 49 | 48 | 37 | 36 | 35 | 29 |
| 2 | 85 | 78 | 71 | 66 | 77 | 70 | 65 | 60 | 57 | 53 | 49 | 44 | 41 | 39 | 32 | 31 | 29 | 24 |
| 3 | 78 | 68 | 60 | 55 | 70 | 62 | 55 | 50 | 50 | 45 | 41 | 39 | 35 | 33 | 28 | 26 | 24 | 20 |
| 4 | 71 | 60 | 52 | 46 | 64 | 54 | 47 | 42 | 44 | 39 | 35 | 34 | 31 | 28 | 25 | 23 | 21 | 17 |
| 5 | 65 | 53 | 45 | 39 | 58 | 48 | 41 | 36 | 39 | 34 | 30 | 31 | 27 | 24 | 23 | 20 | 18 | 14 |
| 6 | 60 | 48 | 39 | 34 | 54 | 43 | 36 | 31 | 35 | 30 | 26 | 28 | 24 | 21 | 21 | 18 | 16 | 13 |
| 7 | 55 | 43 | 35 | 29 | 50 | 39 | 32 | 27 | 32 | 26 | 23 | 25 | 21 | 18 | 19 | 16 | 14 | 11 |
| 8 | 51 | 39 | 31 | 26 | 46 | 35 | 28 | 24 | 29 | 24 | 20 | 23 | 19 | 16 | 17 | 14 | 12 | 10 |
| 9 | 47 | 35 | 28 | 23 | 43 | 32 | 26 | 21 | 26 | 21 | 18 | 21 | 17 | 14 | 16 | 13 | 11 | 9 |
| 10 | 44 | 32 | 25 | 20 | 40 | 29 | 23 | 19 | 24 | 19 | 16 | 19 | 16 | 13 | 15 | 12 | 10 | 8 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 7134 | 7134 | 7134 |
| 5° | 7156 | 6954 | 6959 |
| 10° | 7093 | 6795 | 6761 |
| 15° | 7001 | 6612 | 6544 |
| 20° | 6871 | 6405 | 6306 |
| 25° | 6709 | 6166 | 6056 |
| 30° | 6544 | 5951 | 5803 |
| 35° | 6359 | 5723 | 5601 |
| 40° | 6181 | 5515 | 5382 |
| 45° | 5986 | 5318 | 5210 |
| 50° | 5793 | 5121 | 5019 |
| 55° | 5578 | 4919 | 4848 |
| 60° | 5369 | 4716 | 4670 |
| 65° | 5156 | 4499 | 4462 |
| 70° | 4837 | 4254 | 4245 |
| 75° | 4430 | 3973 | 4029 |
| 80° | 3958 | 3698 | 3779 |
| 85° | 3521 | 3508 | 3633 |



TEST NUMBER: P332135-830

CATALOG NUMBER: S123DIW-S560D1030U830-4F0-1E-UDD-D1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 62.8 | 1.1 |
| 10°-20° | 179.1 | 3.2 |
| 20°-30° | 267.9 | 4.8 |
| 30°-40° | 319.9 | 5.7 |
| 40°-50° | 334.7 | 6.0 |
| 50°-60° | 314.1 | 5.6 |
| 60°-70° | 262.3 | 4.7 |
| 70°-80° | 187.7 | 3.4 |
| 80°-90° | 115.5 | 2.1 |
| 90°-100° | 149.4 | 2.7 |
| 100°-110° | 288.6 | 5.2 |
| 110°-120° | 437.6 | 7.8 |
| 120°-130° | 550.0 | 9.8 |
| 130°-140° | 604.8 | 10.8 |
| 140°-150° | 587.7 | 10.5 |
| 150°-160° | 493.2 | 8.8 |
| 160°-170° | 328.3 | 5.9 |
| 170°-180° | 115.0 | 2.1 |
| 0°-30° | 509.8 | 9.1 |
| 0°-40° | 829.7 | 14.8 |
| 0°-60° | 1478.6 | 26.4 |
| 0°-90° | 2044.2 | 36.5 |
| 90°-120° | 875.7 | 15.6 |
| 90°-150° | 2618.2 | 46.8 |
| 90°-180° | 3555.0 | 63.5 |
| 0°-180° | 5598.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 663 | 663 | 663 | 663 | 663 | |
| 5° | 664 | 662 | 658 | 663 | 663 | 63 |
| 15° | 632 | 634 | 633 | 640 | 640 | 178 |
| 25° | 570 | 577 | 580 | 589 | 589 | 263 |
| 35° | 491 | 502 | 512 | 522 | 526 | 307 |
| 45° | 401 | 419 | 437 | 450 | 456 | 310 |
| 55° | 306 | 330 | 356 | 375 | 381 | 274 |
| 65° | 212 | 240 | 272 | 292 | 300 | 209 |
| 75° | 115 | 149 | 185 | 208 | 217 | 123 |
| 85° | 35 | 72 | 110 | 133 | 142 | 37 |
| 90° | 10 | 55 | 104 | 132 | 142 | 10 |
| 95° | 64 | 100 | 142 | 167 | 176 | 70 |
| 105° | 221 | 241 | 280 | 299 | 308 | 236 |
| 115° | 409 | 422 | 445 | 463 | 468 | 405 |
| 125° | 596 | 600 | 618 | 629 | 631 | 532 |
| 135° | 772 | 777 | 784 | 793 | 795 | 595 |
| 145° | 936 | 937 | 940 | 944 | 944 | 584 |
| 155° | 1070 | 1070 | 1071 | 1075 | 1069 | 493 |
| 165° | 1166 | 1163 | 1163 | 1168 | 1162 | 329 |
| 175° | 1213 | 1209 | 1209 | 1214 | 1208 | 115 |
| 180° | 1216 | 1216 | 1216 | 1216 | 1216 | |



TEST NUMBER: P332135-830

CATALOG NUMBER: S123DIW-S560D1030U830-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 662.8 | 662.8 | 662.8 | 662.8 | 662.8 | 662.8 | 662.8 | 662.8 | 662.8 | 662.8 | 662.8 |
| 2.5° | 665.7 | 665.3 | 665.0 | 664.5 | 664.1 | 663.5 | 662.4 | 661.4 | 660.3 | 659.3 | 660.3 |
| 5° | 663.5 | 663.2 | 662.9 | 662.6 | 662.2 | 661.6 | 660.6 | 659.7 | 658.7 | 657.7 | 659.0 |
| 7.5° | 657.0 | 657.0 | 657.1 | 657.2 | 657.3 | 656.9 | 655.9 | 655.0 | 654.0 | 653.1 | 654.7 |
| 10° | 651.3 | 651.6 | 651.9 | 652.2 | 652.5 | 652.3 | 651.5 | 650.7 | 649.9 | 649.1 | 650.7 |
| 12.5° | 644.3 | 644.8 | 645.3 | 645.6 | 646.1 | 646.1 | 645.5 | 645.0 | 644.4 | 643.9 | 645.4 |
| 15° | 631.8 | 632.3 | 632.7 | 633.2 | 633.7 | 633.9 | 633.7 | 633.5 | 633.4 | 633.2 | 634.8 |
| 17.5° | 615.9 | 616.8 | 617.8 | 618.8 | 619.7 | 620.2 | 620.1 | 620.0 | 620.0 | 619.9 | 621.3 |
| 20° | 604.4 | 605.3 | 606.2 | 607.2 | 608.1 | 608.8 | 609.2 | 609.4 | 609.7 | 610.1 | 611.5 |
| 22.5° | 592.2 | 593.1 | 594.1 | 595.1 | 596.1 | 596.7 | 597.2 | 597.7 | 598.1 | 598.5 | 600.4 |
| 25° | 570.4 | 572.0 | 573.6 | 575.2 | 576.8 | 577.9 | 578.3 | 578.8 | 579.3 | 579.8 | 581.8 |
| 27.5° | 548.5 | 550.3 | 552.1 | 553.9 | 555.7 | 557.1 | 558.2 | 559.2 | 560.2 | 561.3 | 563.1 |
| 30° | 532.8 | 534.9 | 537.0 | 539.1 | 541.2 | 542.9 | 544.1 | 545.4 | 546.7 | 548.0 | 550.0 |
| 32.5° | 515.5 | 517.8 | 520.2 | 522.5 | 524.9 | 526.9 | 528.6 | 530.2 | 531.9 | 533.6 | 535.6 |
| 35° | 491.0 | 493.5 | 496.1 | 498.7 | 501.2 | 503.6 | 505.7 | 507.7 | 509.8 | 511.9 | 514.3 |
| 37.5° | 465.0 | 467.9 | 470.7 | 473.6 | 476.5 | 479.3 | 481.8 | 484.4 | 486.9 | 489.6 | 492.3 |
| 40° | 447.6 | 450.5 | 453.5 | 456.3 | 459.2 | 462.2 | 465.4 | 468.6 | 471.8 | 475.0 | 477.8 |
| 42.5° | 428.6 | 432.2 | 435.6 | 439.1 | 442.7 | 446.1 | 449.5 | 452.8 | 456.2 | 459.5 | 462.5 |
| 45° | 401.4 | 405.3 | 409.2 | 413.0 | 416.8 | 420.8 | 424.8 | 428.8 | 432.8 | 436.8 | 439.9 |
| 47.5° | 373.0 | 377.4 | 381.7 | 386.1 | 390.4 | 394.9 | 399.5 | 404.1 | 408.7 | 413.3 | 416.7 |
| 50° | 354.5 | 359.0 | 363.4 | 368.0 | 372.5 | 377.2 | 382.2 | 387.2 | 392.1 | 397.1 | 400.8 |
| 52.5° | 334.9 | 339.6 | 344.4 | 349.1 | 353.8 | 359.0 | 364.5 | 369.9 | 375.4 | 381.0 | 384.7 |
| 55° | 306.1 | 311.4 | 316.7 | 322.0 | 327.3 | 332.8 | 338.7 | 344.4 | 350.2 | 355.9 | 360.2 |
| 57.5° | 278.1 | 283.6 | 289.2 | 294.6 | 300.2 | 306.1 | 312.5 | 318.8 | 325.1 | 331.4 | 335.7 |
| 60° | 258.4 | 264.3 | 270.0 | 275.8 | 281.5 | 287.8 | 294.4 | 301.0 | 307.5 | 314.1 | 318.6 |
| 62.5° | 240.0 | 245.9 | 251.8 | 257.7 | 263.6 | 270.0 | 277.0 | 284.0 | 291.0 | 297.9 | 302.4 |
| 65° | 211.5 | 217.8 | 224.0 | 230.4 | 236.6 | 243.3 | 250.3 | 257.3 | 264.4 | 271.5 | 276.3 |
| 67.5° | 182.7 | 189.4 | 196.0 | 202.6 | 209.2 | 216.1 | 223.4 | 230.5 | 237.7 | 244.9 | 250.2 |
| 70° | 162.5 | 169.4 | 176.3 | 183.1 | 190.0 | 197.4 | 205.0 | 212.7 | 220.5 | 228.2 | 233.3 |
| 72.5° | 143.9 | 150.9 | 157.8 | 164.7 | 171.5 | 179.0 | 186.9 | 194.9 | 202.8 | 210.8 | 216.1 |
| 75° | 114.8 | 122.3 | 129.9 | 137.4 | 145.0 | 152.8 | 160.8 | 168.8 | 176.8 | 184.8 | 190.1 |
| 77.5° | 89.4 | 97.0 | 104.6 | 112.2 | 119.8 | 127.6 | 135.7 | 143.8 | 151.9 | 160.0 | 165.6 |
| 80° | 71.4 | 79.4 | 87.2 | 95.1 | 102.9 | 111.0 | 119.3 | 127.7 | 136.1 | 144.4 | 149.9 |
| 82.5° | 55.9 | 63.9 | 71.8 | 79.8 | 87.8 | 96.0 | 104.5 | 113.0 | 121.5 | 130.0 | 135.4 |
| 85° | 35.3 | 43.4 | 51.5 | 59.5 | 67.5 | 75.7 | 84.3 | 92.7 | 101.2 | 109.7 | 115.2 |
| 87.5° | 19.4 | 27.8 | 36.2 | 44.7 | 53.1 | 61.6 | 70.4 | 79.1 | 87.8 | 96.6 | 102.2 |
| 90° | 10.4 | 20.4 | 30.3 | 40.2 | 50.2 | 60.7 | 71.7 | 82.7 | 93.6 | 104.5 | 110.8 |
| 92.5° | 32.0 | 40.4 | 49.0 | 57.5 | 66.1 | 75.1 | 84.7 | 94.3 | 104.1 | 113.7 | 119.6 |
| 95° | 64.3 | 72.0 | 79.7 | 87.5 | 95.3 | 103.9 | 113.5 | 123.0 | 132.6 | 142.1 | 148.0 |
| 97.5° | 107.2 | 113.9 | 120.6 | 127.4 | 134.1 | 141.9 | 150.6 | 159.4 | 168.1 | 176.8 | 182.6 |
| 100° | 136.4 | 142.8 | 149.2 | 155.6 | 162.0 | 169.4 | 177.9 | 186.3 | 194.7 | 203.2 | 208.5 |
| 102.5° | 170.1 | 175.6 | 181.0 | 186.3 | 191.7 | 198.7 | 207.4 | 216.0 | 224.7 | 233.4 | 238.5 |
| 105° | 220.6 | 224.9 | 229.2 | 233.5 | 237.7 | 244.3 | 253.1 | 261.9 | 270.7 | 279.5 | 284.0 |
| 107.5° | 278.6 | 282.1 | 285.7 | 289.2 | 292.7 | 298.1 | 305.4 | 312.7 | 320.1 | 327.3 | 332.3 |
| 110° | 314.7 | 318.0 | 321.3 | 324.6 | 327.9 | 333.0 | 339.9 | 346.7 | 353.5 | 360.3 | 365.4 |



TEST NUMBER: P332135-830

CATALOG NUMBER: S123DIW-S560D1030U830-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 352.9 | 355.5 | 358.2 | 360.8 | 363.4 | 367.8 | 374.1 | 380.3 | 386.5 | 392.9 | 397.8 |
| 115° | 409.4 | 412.0 | 414.5 | 417.2 | 419.7 | 423.7 | 429.0 | 434.3 | 439.7 | 445.1 | 449.1 |
| 117.5° | 466.9 | 468.6 | 470.2 | 471.8 | 473.4 | 476.6 | 481.5 | 486.4 | 491.3 | 496.2 | 499.9 |
| 120° | 502.3 | 504.4 | 506.4 | 508.5 | 510.6 | 513.8 | 518.0 | 522.3 | 526.5 | 530.7 | 534.1 |
| 122.5° | 539.7 | 541.1 | 542.4 | 543.8 | 545.2 | 548.1 | 552.5 | 557.0 | 561.5 | 566.0 | 569.0 |
| 125° | 596.2 | 596.7 | 597.4 | 598.0 | 598.7 | 601.1 | 605.3 | 609.5 | 613.8 | 618.0 | 620.6 |
| 127.5° | 648.8 | 650.1 | 651.2 | 652.4 | 653.7 | 655.9 | 659.3 | 662.7 | 666.1 | 669.5 | 671.5 |
| 130° | 684.0 | 685.5 | 687.0 | 688.6 | 690.1 | 692.2 | 694.7 | 697.3 | 699.9 | 702.5 | 704.6 |
| 132.5° | 718.5 | 720.2 | 721.9 | 723.5 | 725.2 | 727.1 | 729.2 | 731.3 | 733.4 | 735.5 | 737.4 |
| 135° | 772.0 | 773.2 | 774.3 | 775.4 | 776.5 | 777.9 | 779.4 | 780.9 | 782.5 | 784.0 | 786.1 |
| 137.5° | 821.5 | 822.5 | 823.4 | 824.3 | 825.3 | 826.5 | 828.1 | 829.6 | 831.1 | 832.7 | 834.3 |
| 140° | 855.4 | 856.4 | 857.5 | 858.6 | 859.6 | 860.4 | 861.2 | 861.9 | 862.5 | 863.3 | 865.4 |
| 142.5° | 886.6 | 887.6 | 888.5 | 889.5 | 890.4 | 891.1 | 891.6 | 892.1 | 892.6 | 893.1 | 894.9 |
| 145° | 935.6 | 935.9 | 936.1 | 936.3 | 936.6 | 937.1 | 937.7 | 938.4 | 939.0 | 939.6 | 940.7 |
| 147.5° | 977.6 | 978.4 | 979.1 | 980.0 | 980.7 | 981.4 | 981.9 | 982.6 | 983.2 | 983.7 | 984.1 |
| 150° | 1007.4 | 1007.9 | 1008.2 | 1008.7 | 1009.1 | 1009.6 | 1009.9 | 1010.4 | 1010.8 | 1011.3 | 1011.3 |
| 152.5° | 1031.9 | 1032.5 | 1033.0 | 1033.7 | 1034.3 | 1034.6 | 1034.9 | 1035.2 | 1035.5 | 1035.7 | 1036.0 |
| 155° | 1070.4 | 1070.4 | 1070.4 | 1070.4 | 1070.4 | 1070.5 | 1070.7 | 1071.0 | 1071.2 | 1071.4 | 1072.2 |
| 157.5° | 1103.3 | 1103.1 | 1102.8 | 1102.5 | 1102.3 | 1102.2 | 1102.4 | 1102.6 | 1102.8 | 1102.9 | 1103.8 |
| 160° | 1123.9 | 1123.5 | 1123.0 | 1122.7 | 1122.2 | 1122.0 | 1122.0 | 1122.0 | 1122.0 | 1122.0 | 1123.0 |
| 162.5° | 1142.3 | 1141.7 | 1141.0 | 1140.5 | 1139.9 | 1139.6 | 1139.8 | 1140.0 | 1140.2 | 1140.4 | 1141.4 |
| 165° | 1165.9 | 1165.3 | 1164.7 | 1164.0 | 1163.4 | 1163.1 | 1163.1 | 1163.1 | 1163.1 | 1163.1 | 1164.3 |
| 167.5° | 1184.9 | 1184.0 | 1183.2 | 1182.3 | 1181.5 | 1181.1 | 1181.3 | 1181.5 | 1181.7 | 1181.8 | 1183.1 |
| 170° | 1195.5 | 1194.7 | 1193.8 | 1193.0 | 1192.1 | 1191.8 | 1191.8 | 1191.8 | 1191.8 | 1191.8 | 1193.2 |
| 172.5° | 1203.9 | 1203.1 | 1202.2 | 1201.4 | 1200.5 | 1200.1 | 1200.1 | 1200.1 | 1200.1 | 1200.1 | 1201.5 |
| 175° | 1212.8 | 1211.9 | 1211.1 | 1210.2 | 1209.4 | 1208.9 | 1208.9 | 1208.9 | 1208.9 | 1208.9 | 1210.2 |
| 177.5° | 1216.4 | 1215.7 | 1215.0 | 1214.3 | 1213.6 | 1213.3 | 1213.3 | 1213.3 | 1213.3 | 1213.3 | 1214.3 |
| 180° | 1215.6 | 1215.6 | 1215.6 | 1215.6 | 1215.6 | 1215.6 | 1215.6 | 1215.6 | 1215.6 | 1215.6 | 1215.6 |



TEST NUMBER: P332135-830

CATALOG NUMBER: S123DIW-S560D1030U830-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 662.8 | 662.8 | 662.8 | 662.8 | 662.8 | 662.8 | 662.8 | 662.8 |
| 2.5° | 661.4 | 662.4 | 663.5 | 663.9 | 663.7 | 663.6 | 663.5 | 663.4 |
| 5° | 660.3 | 661.6 | 662.9 | 663.5 | 663.3 | 663.1 | 663.0 | 662.8 |
| 7.5° | 656.3 | 657.9 | 659.6 | 660.3 | 660.1 | 659.9 | 659.7 | 659.5 |
| 10° | 652.3 | 653.9 | 655.5 | 656.1 | 655.8 | 655.5 | 655.2 | 654.9 |
| 12.5° | 646.9 | 648.3 | 649.8 | 650.4 | 650.1 | 649.7 | 649.4 | 649.1 |
| 15° | 636.4 | 638.0 | 639.6 | 640.4 | 640.2 | 640.0 | 639.9 | 639.7 |
| 17.5° | 622.8 | 624.2 | 625.7 | 626.3 | 626.0 | 625.8 | 625.7 | 625.4 |
| 20° | 613.0 | 614.4 | 615.9 | 616.7 | 616.8 | 617.0 | 617.2 | 617.3 |
| 22.5° | 602.2 | 604.1 | 605.9 | 606.7 | 606.6 | 606.5 | 606.4 | 606.3 |
| 25° | 583.9 | 586.1 | 588.1 | 589.2 | 589.2 | 589.2 | 589.2 | 589.2 |
| 27.5° | 564.9 | 566.7 | 568.4 | 569.5 | 569.6 | 569.7 | 569.9 | 570.0 |
| 30° | 551.9 | 553.7 | 555.7 | 556.7 | 556.7 | 556.7 | 556.7 | 556.7 |
| 32.5° | 537.6 | 539.7 | 541.8 | 543.0 | 543.4 | 543.8 | 544.1 | 544.5 |
| 35° | 516.7 | 519.2 | 521.5 | 523.0 | 523.7 | 524.3 | 525.0 | 525.7 |
| 37.5° | 494.9 | 497.7 | 500.4 | 502.1 | 502.6 | 503.0 | 503.6 | 504.1 |
| 40° | 480.5 | 483.2 | 486.0 | 487.7 | 488.3 | 489.0 | 489.6 | 490.2 |
| 42.5° | 465.4 | 468.4 | 471.5 | 473.3 | 474.3 | 475.1 | 476.1 | 476.9 |
| 45° | 442.9 | 445.9 | 449.0 | 451.2 | 452.4 | 453.7 | 455.1 | 456.3 |
| 47.5° | 420.2 | 423.6 | 427.0 | 429.2 | 430.2 | 431.2 | 432.3 | 433.2 |
| 50° | 404.4 | 408.2 | 411.9 | 414.2 | 415.4 | 416.5 | 417.6 | 418.8 |
| 52.5° | 388.6 | 392.4 | 396.2 | 398.8 | 400.2 | 401.5 | 402.9 | 404.4 |
| 55° | 364.6 | 368.9 | 373.2 | 376.1 | 377.4 | 378.6 | 379.9 | 381.3 |
| 57.5° | 340.2 | 344.5 | 348.8 | 351.8 | 353.3 | 354.8 | 356.3 | 357.8 |
| 60° | 323.1 | 327.5 | 332.1 | 335.2 | 337.0 | 338.7 | 340.4 | 342.2 |
| 62.5° | 306.9 | 311.4 | 315.8 | 319.0 | 320.6 | 322.2 | 323.9 | 325.5 |
| 65° | 281.1 | 285.9 | 290.8 | 294.0 | 295.6 | 297.2 | 298.8 | 300.4 |
| 67.5° | 255.4 | 260.7 | 266.0 | 269.3 | 270.6 | 271.9 | 273.3 | 274.7 |
| 70° | 238.5 | 243.6 | 248.7 | 252.0 | 253.6 | 255.2 | 256.8 | 258.4 |
| 72.5° | 221.3 | 226.6 | 231.9 | 235.4 | 237.0 | 238.6 | 240.2 | 241.8 |
| 75° | 195.4 | 200.8 | 206.0 | 209.6 | 211.5 | 213.5 | 215.4 | 217.4 |
| 77.5° | 171.2 | 176.7 | 182.3 | 185.9 | 187.4 | 188.8 | 190.3 | 191.8 |
| 80° | 155.3 | 160.8 | 166.3 | 169.8 | 171.4 | 173.0 | 174.6 | 176.2 |
| 82.5° | 140.9 | 146.3 | 151.7 | 155.3 | 156.9 | 158.5 | 160.1 | 161.7 |
| 85° | 120.6 | 126.1 | 131.6 | 135.1 | 136.7 | 138.3 | 139.9 | 141.5 |
| 87.5° | 107.8 | 113.5 | 119.0 | 122.7 | 124.4 | 126.1 | 127.8 | 129.5 |
| 90° | 117.2 | 123.4 | 129.7 | 133.8 | 135.9 | 138.0 | 140.0 | 142.0 |
| 92.5° | 125.6 | 131.7 | 137.6 | 141.3 | 142.5 | 143.7 | 145.0 | 146.2 |
| 95° | 153.8 | 159.6 | 165.4 | 169.2 | 170.8 | 172.4 | 174.0 | 175.6 |
| 97.5° | 188.4 | 194.2 | 199.9 | 203.5 | 205.0 | 206.6 | 208.1 | 209.6 |
| 100° | 213.8 | 219.0 | 224.3 | 228.0 | 230.1 | 232.1 | 234.1 | 236.1 |
| 102.5° | 243.6 | 248.8 | 254.0 | 257.3 | 258.8 | 260.3 | 261.8 | 263.4 |
| 105° | 288.5 | 292.9 | 297.5 | 300.7 | 302.6 | 304.4 | 306.2 | 308.1 |
| 107.5° | 337.3 | 342.3 | 347.2 | 350.3 | 351.5 | 352.7 | 353.8 | 355.0 |
| 110° | 370.4 | 375.4 | 380.4 | 383.4 | 384.3 | 385.1 | 386.0 | 386.8 |



TEST NUMBER: P332135-830

CATALOG NUMBER: S123DIW-S560D1030U830-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 402.9 | 408.0 | 413.0 | 416.2 | 417.5 | 418.9 | 420.3 | 421.6 |
| 115° | 453.2 | 457.2 | 461.3 | 463.9 | 465.0 | 466.0 | 467.1 | 468.2 |
| 117.5° | 503.7 | 507.5 | 511.2 | 513.5 | 514.2 | 514.8 | 515.5 | 516.1 |
| 120° | 537.6 | 541.1 | 544.6 | 546.7 | 547.4 | 548.1 | 548.7 | 549.5 |
| 122.5° | 572.0 | 575.0 | 578.1 | 579.9 | 580.3 | 580.9 | 581.4 | 581.9 |
| 125° | 623.0 | 625.6 | 628.1 | 629.5 | 629.8 | 630.0 | 630.3 | 630.6 |
| 127.5° | 673.4 | 675.4 | 677.4 | 678.4 | 678.5 | 678.7 | 678.8 | 678.9 |
| 130° | 706.8 | 709.1 | 711.2 | 712.1 | 711.6 | 711.1 | 710.5 | 710.0 |
| 132.5° | 739.2 | 741.2 | 743.1 | 744.0 | 743.9 | 743.9 | 743.9 | 743.8 |
| 135° | 788.2 | 790.1 | 792.2 | 793.4 | 793.8 | 794.2 | 794.6 | 794.9 |
| 137.5° | 836.0 | 837.6 | 839.3 | 840.1 | 840.1 | 840.1 | 840.1 | 840.1 |
| 140° | 867.6 | 869.9 | 872.0 | 872.8 | 872.1 | 871.4 | 870.7 | 870.1 |
| 142.5° | 896.9 | 898.8 | 900.8 | 901.5 | 901.3 | 900.9 | 900.5 | 900.2 |
| 145° | 941.8 | 942.8 | 944.0 | 944.3 | 944.1 | 944.0 | 943.8 | 943.5 |
| 147.5° | 984.5 | 984.9 | 985.2 | 985.1 | 984.4 | 983.7 | 983.1 | 982.3 |
| 150° | 1011.3 | 1011.3 | 1011.3 | 1010.8 | 1009.8 | 1008.9 | 1008.0 | 1006.9 |
| 152.5° | 1036.3 | 1036.7 | 1037.1 | 1036.7 | 1035.7 | 1034.6 | 1033.6 | 1032.6 |
| 155° | 1073.1 | 1073.9 | 1074.8 | 1074.5 | 1073.0 | 1071.5 | 1070.1 | 1068.6 |
| 157.5° | 1104.7 | 1105.6 | 1106.5 | 1106.4 | 1105.1 | 1104.0 | 1102.8 | 1101.5 |
| 160° | 1124.2 | 1125.2 | 1126.2 | 1126.3 | 1125.5 | 1124.6 | 1123.8 | 1122.9 |
| 162.5° | 1142.5 | 1143.5 | 1144.6 | 1144.4 | 1143.1 | 1141.7 | 1140.4 | 1139.0 |
| 165° | 1165.6 | 1166.9 | 1168.2 | 1168.1 | 1166.6 | 1165.1 | 1163.6 | 1162.2 |
| 167.5° | 1184.4 | 1185.7 | 1187.0 | 1187.0 | 1185.7 | 1184.4 | 1183.1 | 1181.8 |
| 170° | 1194.7 | 1196.2 | 1197.7 | 1197.7 | 1196.2 | 1194.7 | 1193.2 | 1191.8 |
| 172.5° | 1202.8 | 1204.1 | 1205.4 | 1205.3 | 1203.8 | 1202.3 | 1200.8 | 1199.4 |
| 175° | 1211.4 | 1212.8 | 1214.0 | 1213.9 | 1212.4 | 1210.9 | 1209.5 | 1208.0 |
| 177.5° | 1215.3 | 1216.4 | 1217.4 | 1217.3 | 1216.1 | 1214.9 | 1213.7 | 1212.6 |
| 180° | 1215.6 | 1215.6 | 1215.6 | 1215.6 | 1215.6 | 1215.6 | 1215.6 | 1215.6 |

(END OF REPORT)