

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: P332137-830

Luminaire Tested: **S123DIW-S560D1030U830-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332137-830
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-F1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, FLUSH 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: 5556.5 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.31
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Semi-Indirect

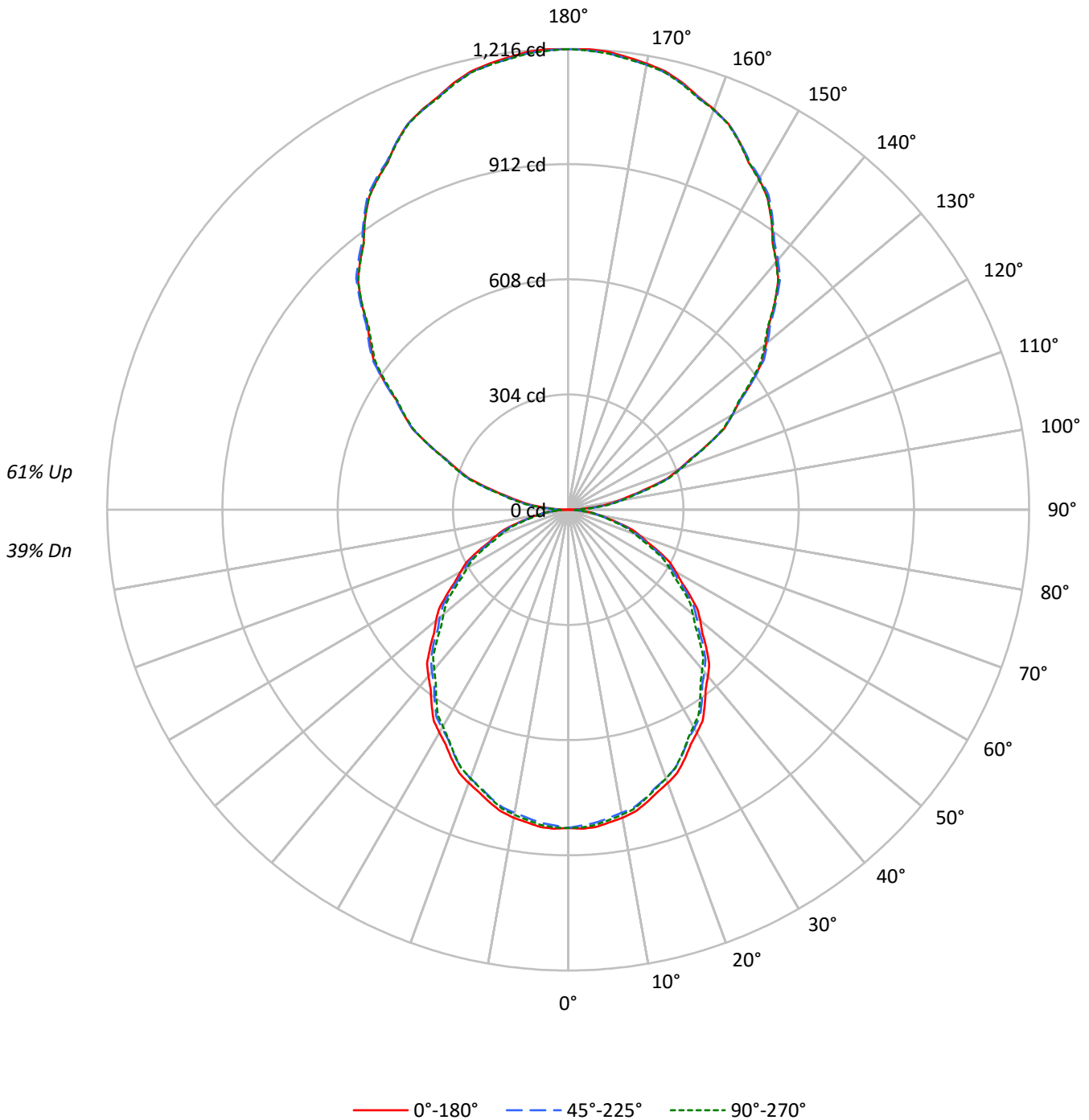
Input Watts (W): 45.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332137-830

CATALOG NUMBER: S123DIW-S560D1030U830-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P332137-830

CATALOG NUMBER: S123DIW-S560D1030U830-4F0-1E-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 | 105 | 105 | 105 | 105 | 95 | 95 | 95 | 95 | 77 | 77 | 77 | 61 | 61 | 61 | 46 | 46 | 46 | 39 |
| 1 | 95 | 91 | 87 | 84 | 87 | 83 | 80 | 77 | 68 | 65 | 63 | 54 | 52 | 51 | 41 | 40 | 39 | 33 |
| 2 | 87 | 79 | 73 | 68 | 79 | 72 | 67 | 63 | 59 | 56 | 52 | 47 | 45 | 42 | 36 | 34 | 33 | 28 |
| 3 | 79 | 70 | 63 | 57 | 72 | 64 | 57 | 52 | 52 | 48 | 44 | 42 | 38 | 36 | 32 | 30 | 28 | 23 |
| 4 | 72 | 62 | 54 | 48 | 65 | 56 | 50 | 44 | 46 | 41 | 37 | 37 | 33 | 31 | 28 | 26 | 24 | 20 |
| 5 | 66 | 55 | 47 | 41 | 60 | 50 | 43 | 38 | 41 | 36 | 32 | 33 | 29 | 26 | 26 | 23 | 21 | 17 |
| 6 | 61 | 49 | 41 | 35 | 55 | 45 | 38 | 33 | 37 | 32 | 28 | 30 | 26 | 23 | 23 | 20 | 18 | 15 |
| 7 | 56 | 44 | 36 | 31 | 51 | 41 | 34 | 29 | 34 | 28 | 25 | 27 | 23 | 20 | 21 | 18 | 16 | 14 |
| 8 | 52 | 40 | 33 | 27 | 47 | 37 | 30 | 25 | 31 | 25 | 22 | 25 | 21 | 18 | 19 | 17 | 15 | 12 |
| 9 | 49 | 37 | 29 | 24 | 44 | 34 | 27 | 23 | 28 | 23 | 19 | 23 | 19 | 16 | 18 | 15 | 13 | 11 |
| 10 | 45 | 33 | 26 | 22 | 41 | 31 | 25 | 20 | 26 | 21 | 17 | 21 | 17 | 15 | 17 | 14 | 12 | 10 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 9038 | 9038 | 9038 |
| 5° | 9081 | 8956 | 9018 |
| 10° | 9021 | 8878 | 8933 |
| 15° | 8914 | 8778 | 8795 |
| 20° | 8791 | 8635 | 8643 |
| 25° | 8626 | 8464 | 8445 |
| 30° | 8444 | 8274 | 8211 |
| 35° | 8253 | 8073 | 7970 |
| 40° | 8056 | 7852 | 7731 |
| 45° | 7837 | 7649 | 7462 |
| 50° | 7618 | 7400 | 7194 |
| 55° | 7330 | 7141 | 6923 |
| 60° | 7042 | 6837 | 6622 |
| 65° | 6788 | 6510 | 6306 |
| 70° | 6408 | 6134 | 5860 |
| 75° | 5856 | 5644 | 5407 |
| 80° | 5281 | 5058 | 5015 |
| 85° | 4631 | 4458 | 4286 |



TEST NUMBER: P332137-830

CATALOG NUMBER: S123DIW-S560D1030U830-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 79.1 | 1.4 |
| 10°-20° | 223.3 | 4.0 |
| 20°-30° | 329.9 | 5.9 |
| 30°-40° | 385.4 | 6.9 |
| 40°-50° | 387.4 | 7.0 |
| 50°-60° | 340.3 | 6.1 |
| 60°-70° | 253.5 | 4.6 |
| 70°-80° | 144.5 | 2.6 |
| 80°-90° | 45.1 | 0.8 |
| 90°-100° | 79.2 | 1.4 |
| 100°-110° | 237.0 | 4.3 |
| 110°-120° | 403.1 | 7.3 |
| 120°-130° | 530.3 | 9.5 |
| 130°-140° | 596.0 | 10.7 |
| 140°-150° | 585.8 | 10.5 |
| 150°-160° | 493.2 | 8.9 |
| 160°-170° | 328.3 | 5.9 |
| 170°-180° | 115.0 | 2.1 |
| 0°-30° | 632.3 | 11.4 |
| 0°-40° | 1017.7 | 18.3 |
| 0°-60° | 1745.5 | 31.4 |
| 0°-90° | 2188.6 | 39.4 |
| 90°-120° | 719.4 | 12.9 |
| 90°-150° | 2431.5 | 43.8 |
| 90°-180° | 3368.0 | 60.6 |
| 0°-180° | 5556.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 840 | 840 | 840 | 840 | 840 | |
| 5° | 840 | 837 | 829 | 836 | 835 | 80 |
| 15° | 800 | 797 | 788 | 793 | 789 | 225 |
| 25° | 726 | 722 | 713 | 713 | 711 | 334 |
| 35° | 628 | 624 | 614 | 610 | 606 | 393 |
| 45° | 515 | 512 | 502 | 494 | 490 | 397 |
| 55° | 391 | 389 | 380 | 373 | 369 | 350 |
| 65° | 266 | 263 | 256 | 250 | 248 | 263 |
| 75° | 141 | 138 | 136 | 132 | 130 | 151 |
| 85° | 38 | 36 | 36 | 35 | 35 | 41 |
| 90° | 1 | 11 | 23 | 27 | 29 | 5 |
| 95° | 56 | 63 | 71 | 74 | 74 | 63 |
| 105° | 215 | 217 | 225 | 226 | 227 | 230 |
| 115° | 406 | 408 | 407 | 408 | 407 | 401 |
| 125° | 594 | 597 | 595 | 591 | 587 | 529 |
| 135° | 771 | 776 | 775 | 772 | 770 | 594 |
| 145° | 935 | 937 | 940 | 938 | 935 | 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: P332137-830

CATALOG NUMBER: S123DIW-S560D1030U830-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 839.7 | 839.7 | 839.7 | 839.7 | 839.7 | 839.7 | 839.7 | 839.7 | 839.7 | 839.7 | 839.7 |
| 2.5° | 842.5 | 842.1 | 841.6 | 841.0 | 840.6 | 839.5 | 838.1 | 836.7 | 835.4 | 834.0 | 835.2 |
| 5° | 840.4 | 839.6 | 838.8 | 838.0 | 837.2 | 835.9 | 834.2 | 832.4 | 830.7 | 828.9 | 830.5 |
| 7.5° | 832.2 | 831.4 | 830.6 | 829.8 | 829.0 | 827.6 | 825.9 | 824.0 | 822.2 | 820.4 | 821.8 |
| 10° | 825.3 | 824.4 | 823.7 | 822.8 | 822.1 | 820.6 | 818.5 | 816.4 | 814.4 | 812.3 | 813.7 |
| 12.5° | 816.1 | 815.3 | 814.6 | 814.0 | 813.3 | 812.0 | 810.0 | 808.0 | 806.2 | 804.2 | 805.2 |
| 15° | 799.9 | 799.4 | 798.7 | 798.1 | 797.4 | 796.1 | 794.0 | 791.9 | 789.8 | 787.7 | 789.0 |
| 17.5° | 781.4 | 780.5 | 779.7 | 778.8 | 778.0 | 776.6 | 774.5 | 772.4 | 770.3 | 768.2 | 769.1 |
| 20° | 767.5 | 766.6 | 765.5 | 764.6 | 763.6 | 762.1 | 760.1 | 758.0 | 755.8 | 753.8 | 754.4 |
| 22.5° | 751.9 | 750.9 | 750.0 | 749.0 | 748.0 | 746.5 | 744.4 | 742.3 | 740.3 | 738.2 | 738.7 |
| 25° | 726.3 | 725.4 | 724.4 | 723.5 | 722.5 | 721.0 | 718.9 | 716.8 | 714.7 | 712.7 | 712.8 |
| 27.5° | 699.1 | 698.1 | 697.2 | 696.3 | 695.3 | 693.7 | 691.4 | 689.3 | 687.0 | 684.8 | 684.9 |
| 30° | 679.4 | 678.6 | 677.8 | 677.0 | 676.2 | 674.7 | 672.4 | 670.1 | 668.0 | 665.7 | 665.7 |
| 32.5° | 659.8 | 658.7 | 657.6 | 656.6 | 655.5 | 654.1 | 652.4 | 650.6 | 648.9 | 647.2 | 646.3 |
| 35° | 628.1 | 627.2 | 626.2 | 625.3 | 624.3 | 622.7 | 620.7 | 618.6 | 616.5 | 614.4 | 613.5 |
| 37.5° | 595.8 | 594.6 | 593.3 | 592.1 | 590.9 | 589.3 | 587.1 | 585.0 | 582.9 | 580.8 | 579.7 |
| 40° | 573.3 | 572.3 | 571.4 | 570.4 | 569.4 | 567.8 | 565.5 | 563.4 | 561.1 | 558.8 | 557.5 |
| 42.5° | 550.7 | 549.7 | 548.6 | 547.4 | 546.4 | 544.7 | 542.4 | 540.3 | 538.0 | 535.7 | 534.4 |
| 45° | 514.8 | 514.2 | 513.5 | 512.8 | 512.2 | 510.9 | 508.8 | 506.7 | 504.6 | 502.5 | 500.6 |
| 47.5° | 479.1 | 478.2 | 477.3 | 476.4 | 475.4 | 473.9 | 472.0 | 470.0 | 468.1 | 466.1 | 464.2 |
| 50° | 454.9 | 454.0 | 453.3 | 452.4 | 451.7 | 450.3 | 448.1 | 446.0 | 443.9 | 441.9 | 440.1 |
| 52.5° | 429.4 | 428.9 | 428.4 | 427.8 | 427.3 | 425.8 | 423.7 | 421.5 | 419.2 | 417.1 | 415.6 |
| 55° | 390.6 | 390.4 | 390.3 | 390.1 | 389.9 | 388.8 | 386.7 | 384.7 | 382.6 | 380.5 | 378.7 |
| 57.5° | 353.6 | 353.1 | 352.5 | 352.0 | 351.5 | 350.3 | 348.6 | 347.0 | 345.3 | 343.7 | 342.1 |
| 60° | 327.1 | 326.9 | 326.8 | 326.6 | 326.4 | 325.4 | 323.5 | 321.5 | 319.6 | 317.6 | 316.2 |
| 62.5° | 303.4 | 302.9 | 302.6 | 302.2 | 301.7 | 300.6 | 298.6 | 296.7 | 294.7 | 292.8 | 291.4 |
| 65° | 266.5 | 265.6 | 264.9 | 264.0 | 263.3 | 262.0 | 260.4 | 258.8 | 257.2 | 255.6 | 254.3 |
| 67.5° | 227.2 | 226.6 | 225.8 | 225.2 | 224.4 | 223.5 | 222.3 | 221.0 | 219.8 | 218.7 | 217.5 |
| 70° | 203.6 | 202.6 | 201.7 | 200.8 | 199.7 | 198.8 | 197.8 | 196.9 | 195.9 | 194.9 | 193.8 |
| 72.5° | 178.8 | 178.0 | 177.4 | 176.6 | 176.0 | 175.0 | 174.0 | 172.9 | 171.7 | 170.7 | 169.7 |
| 75° | 140.8 | 140.2 | 139.5 | 138.8 | 138.3 | 137.7 | 137.1 | 136.7 | 136.2 | 135.7 | 135.0 |
| 77.5° | 107.2 | 106.8 | 106.4 | 106.1 | 105.8 | 105.3 | 104.7 | 104.2 | 103.5 | 102.9 | 102.5 |
| 80° | 85.2 | 84.7 | 84.3 | 83.8 | 83.2 | 82.8 | 82.6 | 82.2 | 81.9 | 81.6 | 81.4 |
| 82.5° | 63.8 | 63.7 | 63.6 | 63.5 | 63.4 | 63.3 | 63.3 | 63.2 | 63.2 | 63.2 | 62.8 |
| 85° | 37.5 | 37.2 | 36.9 | 36.6 | 36.3 | 36.1 | 36.1 | 36.1 | 36.1 | 36.1 | 35.8 |
| 87.5° | 15.2 | 15.3 | 15.3 | 15.4 | 15.4 | 15.6 | 16.0 | 16.4 | 16.9 | 17.2 | 17.3 |
| 90° | 0.9 | 3.1 | 5.2 | 7.4 | 9.4 | 11.9 | 14.6 | 17.4 | 20.2 | 22.9 | 23.8 |
| 92.5° | 23.1 | 24.5 | 26.0 | 27.4 | 28.8 | 30.3 | 32.0 | 33.6 | 35.1 | 36.7 | 37.3 |
| 95° | 56.4 | 57.8 | 59.3 | 60.8 | 62.3 | 63.9 | 65.6 | 67.3 | 69.0 | 70.7 | 71.5 |
| 97.5° | 100.1 | 101.1 | 102.3 | 103.4 | 104.5 | 105.7 | 106.9 | 108.1 | 109.3 | 110.6 | 111.6 |
| 100° | 129.9 | 131.1 | 132.4 | 133.7 | 135.0 | 136.1 | 137.2 | 138.3 | 139.3 | 140.3 | 141.0 |
| 102.5° | 164.3 | 165.0 | 165.8 | 166.5 | 167.3 | 168.3 | 169.8 | 171.2 | 172.6 | 174.0 | 174.7 |
| 105° | 214.9 | 215.3 | 215.7 | 216.1 | 216.6 | 217.7 | 219.6 | 221.5 | 223.5 | 225.4 | 225.4 |
| 107.5° | 273.7 | 273.9 | 274.2 | 274.5 | 274.7 | 275.2 | 276.0 | 276.7 | 277.5 | 278.2 | 278.9 |
| 110° | 310.4 | 310.8 | 311.2 | 311.6 | 312.1 | 312.5 | 312.9 | 313.3 | 313.8 | 314.1 | 315.0 |



TEST NUMBER: P332137-830

CATALOG NUMBER: S123DIW-S560D1030U830-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 348.6 | 348.8 | 349.0 | 349.3 | 349.6 | 349.7 | 349.8 | 349.9 | 350.0 | 350.1 | 351.1 |
| 115° | 405.9 | 406.4 | 407.1 | 407.7 | 408.4 | 408.5 | 408.0 | 407.6 | 407.2 | 406.8 | 407.0 |
| 117.5° | 463.5 | 463.9 | 464.4 | 464.8 | 465.2 | 465.1 | 464.6 | 464.0 | 463.4 | 463.0 | 462.9 |
| 120° | 499.5 | 500.7 | 502.0 | 503.2 | 504.5 | 504.6 | 503.5 | 502.5 | 501.4 | 500.4 | 500.1 |
| 122.5° | 536.9 | 537.8 | 538.8 | 539.6 | 540.5 | 540.7 | 540.3 | 539.7 | 539.1 | 538.6 | 538.0 |
| 125° | 594.0 | 594.6 | 595.2 | 595.9 | 596.5 | 596.6 | 596.2 | 595.8 | 595.3 | 594.9 | 594.1 |
| 127.5° | 646.7 | 648.0 | 649.4 | 650.7 | 652.1 | 652.5 | 652.1 | 651.6 | 651.1 | 650.6 | 649.5 |
| 130° | 681.8 | 683.5 | 685.2 | 686.9 | 688.6 | 689.1 | 688.5 | 687.9 | 687.2 | 686.5 | 685.7 |
| 132.5° | 716.9 | 718.6 | 720.3 | 722.1 | 723.8 | 724.3 | 723.9 | 723.4 | 722.9 | 722.5 | 721.4 |
| 135° | 770.6 | 771.8 | 773.2 | 774.4 | 775.7 | 776.2 | 776.0 | 775.8 | 775.6 | 775.3 | 774.5 |
| 137.5° | 820.3 | 821.3 | 822.4 | 823.4 | 824.5 | 825.3 | 825.9 | 826.4 | 827.0 | 827.6 | 826.6 |
| 140° | 854.6 | 855.7 | 856.8 | 857.8 | 858.8 | 859.5 | 859.7 | 860.0 | 860.2 | 860.4 | 860.2 |
| 142.5° | 886.0 | 887.0 | 888.1 | 889.1 | 890.2 | 890.9 | 891.3 | 891.6 | 892.1 | 892.5 | 892.2 |
| 145° | 934.8 | 935.3 | 935.7 | 936.1 | 936.5 | 937.1 | 937.7 | 938.4 | 939.0 | 939.6 | 939.4 |
| 147.5° | 977.6 | 978.4 | 979.1 | 980.0 | 980.7 | 981.4 | 981.9 | 982.6 | 983.2 | 983.7 | 983.7 |
| 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: P332137-830

CATALOG NUMBER: S123DIW-S560D1030U830-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 839.7 | 839.7 | 839.7 | 839.7 | 839.7 | 839.7 | 839.7 | 839.7 |
| 2.5° | 836.5 | 837.7 | 839.1 | 839.6 | 839.5 | 839.3 | 839.2 | 839.1 |
| 5° | 832.1 | 833.7 | 835.3 | 835.9 | 835.6 | 835.3 | 835.0 | 834.6 |
| 7.5° | 823.2 | 824.6 | 826.1 | 826.7 | 826.5 | 826.3 | 826.1 | 826.0 |
| 10° | 815.1 | 816.6 | 818.0 | 818.6 | 818.3 | 817.9 | 817.7 | 817.3 |
| 12.5° | 806.3 | 807.4 | 808.4 | 808.8 | 808.6 | 808.4 | 808.2 | 808.0 |
| 15° | 790.3 | 791.5 | 792.9 | 793.0 | 792.0 | 791.1 | 790.1 | 789.2 |
| 17.5° | 770.1 | 770.9 | 771.8 | 772.0 | 771.8 | 771.4 | 771.0 | 770.6 |
| 20° | 755.1 | 755.7 | 756.3 | 756.4 | 755.9 | 755.4 | 755.0 | 754.5 |
| 22.5° | 739.2 | 739.7 | 740.3 | 740.2 | 739.6 | 739.0 | 738.4 | 737.7 |
| 25° | 712.9 | 713.1 | 713.2 | 713.1 | 712.7 | 712.2 | 711.6 | 711.1 |
| 27.5° | 685.0 | 685.1 | 685.2 | 685.0 | 684.4 | 683.8 | 683.2 | 682.6 |
| 30° | 665.7 | 665.7 | 665.7 | 665.2 | 664.0 | 662.9 | 661.8 | 660.6 |
| 32.5° | 645.5 | 644.5 | 643.6 | 642.8 | 642.2 | 641.7 | 641.0 | 640.5 |
| 35° | 612.5 | 611.5 | 610.6 | 609.7 | 608.9 | 608.1 | 607.3 | 606.5 |
| 37.5° | 578.4 | 577.3 | 576.2 | 575.3 | 574.9 | 574.3 | 573.8 | 573.3 |
| 40° | 556.3 | 555.0 | 553.7 | 552.7 | 552.0 | 551.5 | 550.8 | 550.2 |
| 42.5° | 533.2 | 531.9 | 530.6 | 529.6 | 529.0 | 528.4 | 527.7 | 527.1 |
| 45° | 498.7 | 496.7 | 494.8 | 493.4 | 492.7 | 491.8 | 491.1 | 490.2 |
| 47.5° | 462.3 | 460.4 | 458.5 | 457.2 | 456.6 | 455.8 | 455.2 | 454.4 |
| 50° | 438.4 | 436.6 | 434.8 | 433.5 | 432.4 | 431.5 | 430.6 | 429.6 |
| 52.5° | 414.1 | 412.6 | 411.0 | 409.7 | 408.8 | 407.8 | 406.9 | 406.0 |
| 55° | 376.9 | 375.2 | 373.4 | 372.1 | 371.4 | 370.5 | 369.8 | 368.9 |
| 57.5° | 340.5 | 338.9 | 337.4 | 336.1 | 335.2 | 334.3 | 333.4 | 332.4 |
| 60° | 314.8 | 313.4 | 311.9 | 310.8 | 310.0 | 309.2 | 308.4 | 307.6 |
| 62.5° | 289.9 | 288.5 | 287.1 | 286.1 | 285.5 | 285.0 | 284.5 | 283.9 |
| 65° | 253.0 | 251.8 | 250.4 | 249.6 | 249.1 | 248.6 | 248.2 | 247.6 |
| 67.5° | 216.4 | 215.3 | 214.1 | 213.2 | 212.5 | 211.9 | 211.2 | 210.6 |
| 70° | 192.7 | 191.6 | 190.5 | 189.5 | 188.7 | 187.8 | 187.1 | 186.2 |
| 72.5° | 168.7 | 167.7 | 166.7 | 166.0 | 165.6 | 165.1 | 164.8 | 164.3 |
| 75° | 134.1 | 133.4 | 132.5 | 131.9 | 131.4 | 130.9 | 130.4 | 130.0 |
| 77.5° | 101.9 | 101.3 | 100.8 | 100.5 | 100.5 | 100.5 | 100.5 | 100.5 |
| 80° | 81.2 | 81.1 | 81.0 | 80.9 | 80.9 | 80.9 | 80.9 | 80.9 |
| 82.5° | 62.5 | 62.2 | 61.9 | 61.7 | 61.6 | 61.5 | 61.4 | 61.3 |
| 85° | 35.4 | 35.2 | 34.8 | 34.7 | 34.7 | 34.7 | 34.7 | 34.7 |
| 87.5° | 17.3 | 17.4 | 17.4 | 17.5 | 17.6 | 17.7 | 17.8 | 17.8 |
| 90° | 24.6 | 25.4 | 26.3 | 27.0 | 27.3 | 27.8 | 28.2 | 28.7 |
| 92.5° | 38.0 | 38.7 | 39.4 | 39.6 | 39.3 | 39.1 | 38.8 | 38.5 |
| 95° | 72.4 | 73.2 | 74.1 | 74.5 | 74.5 | 74.5 | 74.5 | 74.5 |
| 97.5° | 112.5 | 113.5 | 114.5 | 114.9 | 114.8 | 114.8 | 114.7 | 114.6 |
| 100° | 141.7 | 142.3 | 142.9 | 143.5 | 143.8 | 144.3 | 144.7 | 145.2 |
| 102.5° | 175.2 | 175.9 | 176.5 | 176.8 | 176.7 | 176.6 | 176.5 | 176.4 |
| 105° | 225.4 | 225.4 | 225.4 | 225.6 | 226.0 | 226.4 | 226.9 | 227.2 |
| 107.5° | 279.7 | 280.3 | 281.0 | 281.2 | 281.0 | 280.7 | 280.4 | 280.1 |
| 110° | 315.8 | 316.7 | 317.5 | 317.7 | 317.4 | 316.9 | 316.5 | 316.0 |



TEST NUMBER: P332137-830

CATALOG NUMBER: S123DIW-S560D1030U830-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 352.1 | 353.1 | 354.1 | 354.6 | 354.5 | 354.4 | 354.4 | 354.3 |
| 115° | 407.2 | 407.5 | 407.6 | 407.6 | 407.5 | 407.2 | 407.0 | 406.8 |
| 117.5° | 462.9 | 462.8 | 462.8 | 462.4 | 461.8 | 461.3 | 460.6 | 460.1 |
| 120° | 499.9 | 499.7 | 499.5 | 499.2 | 498.8 | 498.3 | 497.9 | 497.5 |
| 122.5° | 537.4 | 536.9 | 536.4 | 535.7 | 535.2 | 534.6 | 534.0 | 533.4 |
| 125° | 593.2 | 592.4 | 591.5 | 590.7 | 589.8 | 589.0 | 588.1 | 587.3 |
| 127.5° | 648.3 | 647.1 | 645.9 | 644.8 | 643.9 | 642.9 | 641.9 | 640.9 |
| 130° | 684.9 | 684.0 | 683.2 | 682.0 | 680.5 | 679.0 | 677.6 | 676.1 |
| 132.5° | 720.5 | 719.4 | 718.4 | 717.4 | 716.1 | 715.0 | 713.9 | 712.8 |
| 135° | 773.6 | 772.8 | 771.9 | 771.4 | 770.9 | 770.5 | 770.1 | 769.7 |
| 137.5° | 825.8 | 824.8 | 824.0 | 823.1 | 822.3 | 821.5 | 820.7 | 819.9 |
| 140° | 860.0 | 859.7 | 859.5 | 858.7 | 857.1 | 855.7 | 854.2 | 852.7 |
| 142.5° | 892.0 | 891.8 | 891.6 | 890.9 | 889.8 | 888.6 | 887.5 | 886.4 |
| 145° | 939.2 | 939.0 | 938.8 | 938.2 | 937.4 | 936.5 | 935.7 | 934.8 |
| 147.5° | 983.7 | 983.7 | 983.7 | 983.1 | 981.8 | 980.5 | 979.3 | 978.0 |
| 150° | 1011.3 | 1011.3 | 1011.3 | 1010.6 | 1009.4 | 1008.0 | 1006.8 | 1005.5 |
| 152.5° | 1036.3 | 1036.7 | 1037.1 | 1036.7 | 1035.6 | 1034.4 | 1033.3 | 1032.3 |
| 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)