

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: P332285-840

Luminaire Tested: **S123RDIP-S560D805U840-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332285-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIP-S560D805U840-4F0-1E-UDD-F
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 805 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5398.4 lumens
Efficiency: N/A
Efficacy: 140.6 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: Semi-Indirect

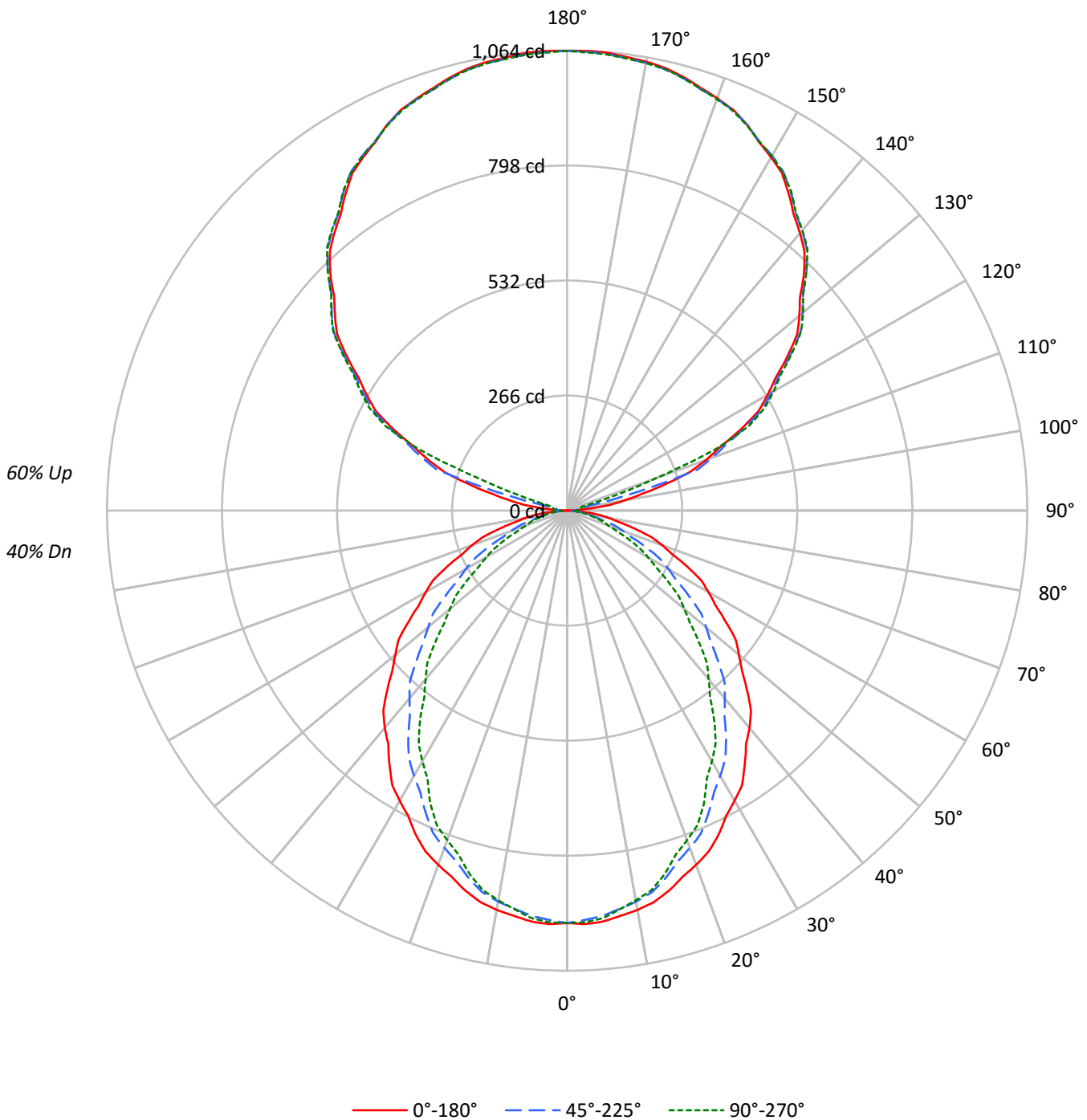
Input Watts (W): 38.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332285-840

CATALOG NUMBER: S123RDIP-S560D805U840-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P332285-840

CATALOG NUMBER: S123RDIP-S560D805U840-4F0-1E-UDD-F

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 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 105 | 105 | 105 | 105 | 95 | 95 | 95 | 95 | 78 | 78 | 78 | 62 | 62 | 62 | 47 | 47 | 47 | 40 | | | | | 40 | | | |
| 1 | 96 | 92 | 88 | 85 | 87 | 84 | 80 | 78 | 68 | 66 | 64 | 55 | 53 | 52 | 42 | 41 | 40 | 34 | | | | | 34 | | | |
| 2 | 87 | 80 | 74 | 69 | 79 | 73 | 68 | 64 | 60 | 57 | 54 | 48 | 46 | 44 | 37 | 36 | 34 | 29 | | | | | 29 | | | |
| 3 | 80 | 71 | 64 | 58 | 72 | 65 | 59 | 54 | 53 | 49 | 45 | 43 | 40 | 37 | 33 | 31 | 29 | 25 | | | | | 25 | | | |
| 4 | 73 | 63 | 55 | 49 | 66 | 57 | 51 | 46 | 48 | 43 | 39 | 38 | 35 | 32 | 30 | 27 | 25 | 22 | | | | | 22 | | | |
| 5 | 67 | 56 | 48 | 42 | 61 | 51 | 44 | 39 | 43 | 37 | 34 | 34 | 31 | 28 | 27 | 24 | 22 | 19 | | | | | 19 | | | |
| 6 | 62 | 50 | 42 | 37 | 56 | 46 | 39 | 34 | 38 | 33 | 29 | 31 | 27 | 24 | 24 | 22 | 20 | 17 | | | | | 17 | | | |
| 7 | 57 | 45 | 38 | 32 | 52 | 42 | 35 | 30 | 35 | 30 | 26 | 28 | 25 | 22 | 22 | 20 | 18 | 15 | | | | | 15 | | | |
| 8 | 53 | 41 | 34 | 28 | 48 | 38 | 31 | 27 | 32 | 27 | 23 | 26 | 22 | 19 | 21 | 18 | 16 | 13 | | | | | 13 | | | |
| 9 | 49 | 38 | 30 | 25 | 45 | 35 | 28 | 24 | 29 | 24 | 21 | 24 | 20 | 17 | 19 | 16 | 14 | 12 | | | | | 12 | | | |
| 10 | 46 | 34 | 27 | 23 | 42 | 32 | 25 | 21 | 27 | 22 | 18 | 22 | 18 | 16 | 18 | 15 | 13 | 11 | | | | | 11 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 10267 | 10267 | 10267 |
| 5° | 10306 | 10164 | 10222 |
| 10° | 10248 | 10037 | 10002 |
| 15° | 10137 | 9802 | 9698 |
| 20° | 9986 | 9507 | 9286 |
| 25° | 9830 | 9178 | 8884 |
| 30° | 9625 | 8797 | 8316 |
| 35° | 9412 | 8418 | 7796 |
| 40° | 9218 | 7967 | 7152 |
| 45° | 8961 | 7524 | 6570 |
| 50° | 8679 | 7021 | 5921 |
| 55° | 8392 | 6446 | 5315 |
| 60° | 8127 | 5828 | 4646 |
| 65° | 7784 | 5163 | 3978 |
| 70° | 7352 | 4334 | 3213 |
| 75° | 6725 | 3410 | 3023 |
| 80° | 5994 | 3025 | 2777 |
| 85° | 5064 | 2668 | 2482 |



TEST NUMBER: P332285-840

CATALOG NUMBER: S123RDIP-S560D805U840-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 89.6 | 1.7 |
| 10°-20° | 249.2 | 4.6 |
| 20°-30° | 358.8 | 6.6 |
| 30°-40° | 404.2 | 7.5 |
| 40°-50° | 386.7 | 7.2 |
| 50°-60° | 316.7 | 5.9 |
| 60°-70° | 213.7 | 4.0 |
| 70°-80° | 107.5 | 2.0 |
| 80°-90° | 31.4 | 0.6 |
| 90°-100° | 38.6 | 0.7 |
| 100°-110° | 184.1 | 3.4 |
| 110°-120° | 442.3 | 8.2 |
| 120°-130° | 563.2 | 10.4 |
| 130°-140° | 601.8 | 11.1 |
| 140°-150° | 562.7 | 10.4 |
| 150°-160° | 453.9 | 8.4 |
| 160°-170° | 293.0 | 5.4 |
| 170°-180° | 101.0 | 1.9 |
| 0°-30° | 697.6 | 12.9 |
| 0°-40° | 1101.8 | 20.4 |
| 0°-60° | 1805.2 | 33.4 |
| 0°-90° | 2157.7 | 40.0 |
| 90°-120° | 665.1 | 12.3 |
| 90°-150° | 2392.8 | 44.3 |
| 90°-180° | 3241.0 | 60.0 |
| 0°-180° | 5398.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 954 | 954 | 954 | 954 | 954 | |
| 5° | 954 | 950 | 941 | 947 | 946 | 90 |
| 15° | 910 | 900 | 880 | 876 | 870 | 256 |
| 25° | 828 | 808 | 773 | 757 | 748 | 381 |
| 35° | 716 | 687 | 641 | 608 | 593 | 448 |
| 45° | 589 | 552 | 494 | 452 | 432 | 454 |
| 55° | 447 | 408 | 344 | 300 | 283 | 401 |
| 65° | 306 | 262 | 203 | 166 | 156 | 302 |
| 75° | 162 | 124 | 82 | 75 | 73 | 172 |
| 85° | 41 | 25 | 22 | 20 | 20 | 46 |
| 90° | 1 | 9 | 19 | 22 | 24 | 4 |
| 95° | 48 | 18 | 24 | 30 | 30 | 60 |
| 105° | 235 | 240 | 173 | 41 | 35 | 249 |
| 115° | 441 | 446 | 453 | 461 | 464 | 435 |
| 125° | 622 | 628 | 632 | 633 | 635 | 555 |
| 135° | 774 | 779 | 782 | 784 | 782 | 596 |
| 145° | 894 | 899 | 901 | 902 | 902 | 559 |
| 155° | 984 | 983 | 984 | 987 | 983 | 453 |
| 165° | 1038 | 1036 | 1035 | 1041 | 1036 | 293 |
| 175° | 1063 | 1059 | 1060 | 1064 | 1059 | 101 |
| 180° | 1063 | 1063 | 1063 | 1063 | 1063 | |



TEST NUMBER: P332285-840

CATALOG NUMBER: S123RDIP-S560D805U840-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 953.8 | 953.8 | 953.8 | 953.8 | 953.8 | 953.8 | 953.8 | 953.8 | 953.8 | 953.8 | 953.8 |
| 2.5° | 956.9 | 956.3 | 955.8 | 955.2 | 954.7 | 953.6 | 952.0 | 950.3 | 948.7 | 947.1 | 948.6 |
| 5° | 953.8 | 953.0 | 952.1 | 951.3 | 950.4 | 949.0 | 946.8 | 944.8 | 942.7 | 940.7 | 942.2 |
| 7.5° | 945.0 | 944.1 | 943.1 | 942.2 | 941.3 | 939.5 | 936.9 | 934.1 | 931.4 | 928.8 | 929.6 |
| 10° | 937.6 | 936.3 | 935.1 | 933.9 | 932.8 | 930.6 | 927.6 | 924.4 | 921.3 | 918.3 | 918.4 |
| 12.5° | 927.1 | 925.7 | 924.3 | 923.0 | 921.7 | 919.2 | 915.3 | 911.6 | 907.8 | 904.0 | 903.9 |
| 15° | 909.7 | 907.9 | 905.9 | 904.0 | 902.2 | 898.8 | 894.0 | 889.2 | 884.3 | 879.6 | 878.7 |
| 17.5° | 887.9 | 885.8 | 883.5 | 881.3 | 879.1 | 874.9 | 868.8 | 862.7 | 856.6 | 850.5 | 848.7 |
| 20° | 871.8 | 869.1 | 866.4 | 863.5 | 860.8 | 856.2 | 849.6 | 843.1 | 836.6 | 830.0 | 827.8 |
| 22.5° | 853.8 | 850.7 | 847.6 | 844.3 | 841.2 | 836.2 | 829.2 | 822.2 | 815.4 | 808.4 | 805.6 |
| 25° | 827.7 | 823.4 | 819.1 | 814.9 | 810.5 | 804.5 | 796.5 | 788.6 | 780.7 | 772.8 | 769.2 |
| 27.5° | 796.0 | 791.2 | 786.5 | 781.7 | 777.0 | 770.2 | 761.4 | 752.7 | 743.9 | 735.1 | 730.0 |
| 30° | 774.4 | 769.2 | 764.1 | 758.9 | 753.8 | 746.3 | 736.7 | 727.1 | 717.4 | 707.8 | 702.0 |
| 32.5° | 752.7 | 746.9 | 741.0 | 735.2 | 729.3 | 721.3 | 711.1 | 700.9 | 690.7 | 680.5 | 674.2 |
| 35° | 716.3 | 710.1 | 704.0 | 697.8 | 691.6 | 683.2 | 672.5 | 661.9 | 651.2 | 640.6 | 633.1 |
| 37.5° | 679.5 | 672.7 | 665.8 | 658.8 | 652.0 | 642.9 | 631.5 | 620.2 | 608.7 | 597.3 | 589.0 |
| 40° | 656.0 | 648.4 | 640.9 | 633.3 | 625.7 | 615.8 | 603.7 | 591.5 | 579.3 | 567.0 | 558.1 |
| 42.5° | 629.3 | 621.8 | 614.3 | 606.7 | 599.2 | 589.1 | 576.4 | 563.8 | 551.2 | 538.6 | 528.8 |
| 45° | 588.7 | 581.0 | 573.2 | 565.5 | 557.7 | 547.2 | 534.0 | 520.8 | 507.6 | 494.3 | 484.5 |
| 47.5° | 548.0 | 539.5 | 531.0 | 522.5 | 514.0 | 503.2 | 489.9 | 476.7 | 463.4 | 450.2 | 439.6 |
| 50° | 518.3 | 510.2 | 502.1 | 494.0 | 485.9 | 474.9 | 461.0 | 447.2 | 433.2 | 419.3 | 408.6 |
| 52.5° | 491.7 | 482.9 | 474.1 | 465.3 | 456.7 | 445.4 | 431.5 | 417.8 | 403.9 | 390.2 | 379.1 |
| 55° | 447.2 | 438.7 | 430.3 | 421.8 | 413.4 | 401.9 | 387.3 | 372.7 | 358.1 | 343.5 | 333.5 |
| 57.5° | 406.0 | 396.8 | 387.6 | 378.4 | 369.2 | 357.3 | 342.6 | 328.0 | 313.3 | 298.6 | 289.2 |
| 60° | 377.5 | 368.1 | 358.6 | 349.1 | 339.7 | 327.8 | 313.6 | 299.3 | 285.0 | 270.7 | 261.5 |
| 62.5° | 349.0 | 339.6 | 330.1 | 320.6 | 311.2 | 299.3 | 285.1 | 270.8 | 256.5 | 242.3 | 233.6 |
| 65° | 305.6 | 296.1 | 286.7 | 277.2 | 267.7 | 256.3 | 242.9 | 229.5 | 216.1 | 202.7 | 194.3 |
| 67.5° | 262.1 | 252.6 | 243.0 | 233.4 | 223.9 | 212.7 | 199.8 | 186.9 | 174.1 | 161.2 | 154.9 |
| 70° | 233.6 | 224.3 | 215.1 | 205.8 | 196.5 | 185.8 | 173.8 | 161.8 | 149.8 | 137.7 | 131.7 |
| 72.5° | 205.1 | 196.0 | 186.8 | 177.7 | 168.5 | 158.5 | 147.6 | 136.6 | 125.7 | 114.8 | 109.9 |
| 75° | 161.7 | 153.4 | 145.2 | 136.9 | 128.7 | 119.8 | 110.4 | 100.9 | 91.5 | 82.0 | 80.3 |
| 77.5° | 122.1 | 114.6 | 107.1 | 99.7 | 92.2 | 85.4 | 79.4 | 73.3 | 67.2 | 61.1 | 60.2 |
| 80° | 96.7 | 89.7 | 82.6 | 75.5 | 68.5 | 63.2 | 59.6 | 55.9 | 52.3 | 48.8 | 48.2 |
| 82.5° | 72.6 | 66.4 | 60.4 | 54.3 | 48.2 | 44.3 | 42.6 | 41.0 | 39.3 | 37.6 | 37.1 |
| 85° | 41.0 | 37.3 | 33.4 | 29.7 | 25.9 | 23.7 | 23.2 | 22.7 | 22.2 | 21.6 | 21.3 |
| 87.5° | 15.0 | 13.8 | 12.7 | 11.5 | 10.4 | 10.0 | 10.5 | 10.9 | 11.4 | 11.8 | 11.8 |
| 90° | 0.8 | 2.5 | 4.3 | 6.1 | 7.8 | 9.8 | 12.1 | 14.3 | 16.7 | 19.0 | 19.7 |
| 92.5° | 14.6 | 14.2 | 13.7 | 13.2 | 12.7 | 13.3 | 15.0 | 16.8 | 18.5 | 20.2 | 21.3 |
| 95° | 48.2 | 41.0 | 33.7 | 26.6 | 19.4 | 16.8 | 18.7 | 20.6 | 22.5 | 24.4 | 25.8 |
| 97.5° | 96.7 | 93.6 | 90.4 | 87.2 | 83.9 | 75.9 | 63.3 | 50.7 | 38.1 | 25.4 | 26.9 |
| 100° | 133.4 | 136.9 | 140.5 | 143.9 | 147.4 | 135.5 | 108.2 | 80.8 | 53.4 | 26.1 | 27.5 |
| 102.5° | 175.1 | 177.6 | 180.2 | 182.7 | 185.2 | 171.6 | 141.7 | 111.7 | 81.8 | 51.9 | 47.6 |
| 105° | 235.3 | 237.2 | 239.1 | 241.1 | 243.0 | 236.1 | 220.3 | 204.5 | 188.6 | 172.9 | 141.9 |
| 107.5° | 298.7 | 300.3 | 301.8 | 303.4 | 304.9 | 306.9 | 309.4 | 311.9 | 314.4 | 316.9 | 294.2 |
| 110° | 341.0 | 342.4 | 343.9 | 345.3 | 346.7 | 348.3 | 350.3 | 352.2 | 354.2 | 356.1 | 350.3 |



TEST NUMBER: P332285-840

CATALOG NUMBER: S123RDIP-S560D805U840-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 381.5 | 382.7 | 384.1 | 385.3 | 386.6 | 388.1 | 390.1 | 392.0 | 393.9 | 395.9 | 396.0 |
| 115° | 441.3 | 442.4 | 443.4 | 444.5 | 445.6 | 446.9 | 448.5 | 450.0 | 451.6 | 453.2 | 454.9 |
| 117.5° | 499.3 | 500.6 | 501.9 | 503.2 | 504.4 | 505.5 | 506.3 | 507.2 | 508.0 | 508.8 | 510.2 |
| 120° | 535.3 | 536.8 | 538.5 | 540.0 | 541.6 | 542.7 | 543.2 | 543.7 | 544.2 | 544.7 | 546.1 |
| 122.5° | 571.9 | 573.2 | 574.5 | 575.8 | 577.1 | 578.0 | 578.8 | 579.5 | 580.1 | 580.8 | 581.8 |
| 125° | 622.2 | 623.5 | 624.9 | 626.3 | 627.7 | 628.8 | 629.5 | 630.2 | 630.9 | 631.6 | 632.0 |
| 127.5° | 670.8 | 672.2 | 673.6 | 675.0 | 676.4 | 677.5 | 678.3 | 679.2 | 680.0 | 680.9 | 681.5 |
| 130° | 701.0 | 702.5 | 703.9 | 705.3 | 706.7 | 707.7 | 708.4 | 709.1 | 709.8 | 710.5 | 711.2 |
| 132.5° | 730.1 | 731.5 | 733.0 | 734.4 | 735.8 | 736.7 | 737.3 | 737.8 | 738.4 | 739.0 | 739.7 |
| 135° | 774.5 | 775.6 | 776.6 | 777.7 | 778.7 | 779.6 | 780.3 | 781.0 | 781.7 | 782.4 | 782.9 |
| 137.5° | 812.4 | 813.7 | 815.1 | 816.4 | 817.7 | 818.6 | 819.0 | 819.4 | 819.7 | 820.1 | 821.0 |
| 140° | 837.7 | 838.7 | 839.8 | 840.8 | 841.9 | 842.6 | 843.2 | 843.7 | 844.2 | 844.8 | 845.5 |
| 142.5° | 861.0 | 862.1 | 863.1 | 864.2 | 865.3 | 866.1 | 866.6 | 867.1 | 867.6 | 868.2 | 868.7 |
| 145° | 893.7 | 894.9 | 896.2 | 897.4 | 898.7 | 899.4 | 899.8 | 900.1 | 900.5 | 900.8 | 901.2 |
| 147.5° | 924.5 | 925.3 | 926.1 | 927.0 | 927.8 | 928.4 | 928.7 | 929.0 | 929.4 | 929.7 | 930.1 |
| 150° | 943.4 | 944.0 | 944.5 | 945.0 | 945.5 | 946.0 | 946.3 | 946.7 | 947.1 | 947.5 | 947.8 |
| 152.5° | 960.5 | 960.8 | 961.0 | 961.3 | 961.5 | 961.7 | 961.9 | 962.1 | 962.4 | 962.6 | 963.2 |
| 155° | 984.5 | 984.2 | 983.8 | 983.5 | 983.1 | 983.0 | 983.2 | 983.4 | 983.5 | 983.7 | 984.6 |
| 157.5° | 1003.1 | 1003.1 | 1003.1 | 1003.0 | 1003.0 | 1002.9 | 1002.7 | 1002.6 | 1002.4 | 1002.2 | 1003.3 |
| 160° | 1014.5 | 1014.3 | 1014.2 | 1014.0 | 1013.8 | 1013.6 | 1013.5 | 1013.3 | 1013.1 | 1012.9 | 1014.0 |
| 162.5° | 1025.2 | 1024.8 | 1024.3 | 1023.9 | 1023.4 | 1023.1 | 1022.9 | 1022.8 | 1022.6 | 1022.4 | 1023.6 |
| 165° | 1038.2 | 1037.6 | 1037.1 | 1036.6 | 1036.1 | 1035.7 | 1035.6 | 1035.4 | 1035.2 | 1035.0 | 1036.4 |
| 167.5° | 1048.3 | 1047.6 | 1046.9 | 1046.2 | 1045.5 | 1045.1 | 1045.1 | 1045.1 | 1045.1 | 1045.1 | 1046.5 |
| 170° | 1054.0 | 1053.3 | 1052.6 | 1051.9 | 1051.2 | 1050.9 | 1050.9 | 1050.9 | 1050.9 | 1050.9 | 1052.3 |
| 172.5° | 1057.7 | 1056.9 | 1056.1 | 1055.2 | 1054.4 | 1054.1 | 1054.2 | 1054.3 | 1054.5 | 1054.6 | 1056.0 |
| 175° | 1062.7 | 1061.8 | 1061.0 | 1060.1 | 1059.1 | 1058.8 | 1058.9 | 1059.1 | 1059.3 | 1059.6 | 1060.8 |
| 177.5° | 1063.9 | 1063.3 | 1062.6 | 1061.9 | 1061.2 | 1060.9 | 1061.0 | 1061.2 | 1061.3 | 1061.4 | 1062.6 |
| 180° | 1062.7 | 1062.7 | 1062.7 | 1062.7 | 1062.7 | 1062.7 | 1062.7 | 1062.7 | 1062.7 | 1062.7 | 1062.7 |



TEST NUMBER: P332285-840

CATALOG NUMBER: S123RDIP-S560D805U840-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 953.8 | 953.8 | 953.8 | 953.8 | 953.8 | 953.8 | 953.8 | 953.8 |
| 2.5° | 950.1 | 951.6 | 953.1 | 953.7 | 953.4 | 953.1 | 952.9 | 952.6 |
| 5° | 943.7 | 945.3 | 946.8 | 947.5 | 947.2 | 946.7 | 946.4 | 946.0 |
| 7.5° | 930.5 | 931.3 | 932.2 | 932.3 | 931.7 | 931.2 | 930.6 | 930.0 |
| 10° | 918.6 | 918.8 | 918.9 | 918.6 | 917.8 | 916.9 | 916.0 | 915.1 |
| 12.5° | 903.8 | 903.7 | 903.6 | 903.0 | 902.0 | 901.0 | 900.1 | 899.1 |
| 15° | 877.9 | 877.0 | 876.2 | 875.0 | 873.8 | 872.7 | 871.5 | 870.3 |
| 17.5° | 846.9 | 845.1 | 843.1 | 841.4 | 839.6 | 837.8 | 836.0 | 834.2 |
| 20° | 825.6 | 823.3 | 821.1 | 819.0 | 816.9 | 814.9 | 812.7 | 810.7 |
| 22.5° | 802.8 | 800.0 | 797.3 | 794.9 | 792.9 | 791.0 | 789.1 | 787.2 |
| 25° | 765.6 | 761.9 | 758.4 | 755.6 | 753.8 | 751.8 | 749.9 | 748.0 |
| 27.5° | 725.0 | 720.0 | 715.0 | 711.0 | 708.1 | 705.3 | 702.4 | 699.4 |
| 30° | 696.1 | 690.2 | 684.5 | 680.1 | 677.4 | 674.7 | 671.9 | 669.1 |
| 32.5° | 667.8 | 661.4 | 655.0 | 650.4 | 647.5 | 644.6 | 641.7 | 638.8 |
| 35° | 625.7 | 618.3 | 611.0 | 605.7 | 602.6 | 599.6 | 596.4 | 593.3 |
| 37.5° | 580.6 | 572.2 | 563.8 | 557.7 | 553.9 | 550.1 | 546.2 | 542.4 |
| 40° | 549.2 | 540.2 | 531.3 | 524.8 | 520.9 | 516.9 | 513.0 | 509.0 |
| 42.5° | 519.1 | 509.3 | 499.5 | 492.8 | 489.3 | 485.7 | 482.2 | 478.7 |
| 45° | 474.7 | 464.9 | 455.1 | 448.2 | 444.0 | 439.9 | 435.8 | 431.6 |
| 47.5° | 428.9 | 418.3 | 407.6 | 400.4 | 396.8 | 393.0 | 389.4 | 385.7 |
| 50° | 398.0 | 387.3 | 376.7 | 369.3 | 365.4 | 361.4 | 357.5 | 353.6 |
| 52.5° | 368.1 | 357.0 | 345.9 | 338.6 | 335.1 | 331.5 | 328.0 | 324.5 |
| 55° | 323.6 | 313.6 | 303.6 | 296.9 | 293.5 | 290.0 | 286.6 | 283.2 |
| 57.5° | 279.7 | 270.3 | 260.9 | 254.8 | 251.9 | 248.9 | 246.0 | 243.1 |
| 60° | 252.2 | 242.9 | 233.6 | 227.5 | 224.6 | 221.7 | 218.7 | 215.8 |
| 62.5° | 224.8 | 216.1 | 207.3 | 201.5 | 198.4 | 195.3 | 192.3 | 189.2 |
| 65° | 185.8 | 177.4 | 169.0 | 163.8 | 162.0 | 160.1 | 158.1 | 156.2 |
| 67.5° | 148.7 | 142.3 | 136.0 | 131.9 | 129.9 | 127.8 | 125.8 | 123.8 |
| 70° | 125.6 | 119.7 | 113.6 | 109.7 | 107.8 | 105.9 | 104.0 | 102.1 |
| 72.5° | 104.9 | 100.1 | 95.1 | 92.3 | 91.5 | 90.7 | 89.9 | 89.1 |
| 75° | 78.6 | 76.9 | 75.1 | 74.1 | 73.7 | 73.4 | 73.0 | 72.7 |
| 77.5° | 59.3 | 58.4 | 57.4 | 56.8 | 56.5 | 56.0 | 55.7 | 55.3 |
| 80° | 47.7 | 47.2 | 46.7 | 46.3 | 45.9 | 45.5 | 45.2 | 44.8 |
| 82.5° | 36.6 | 36.1 | 35.5 | 35.2 | 35.1 | 35.1 | 35.0 | 34.9 |
| 85° | 21.0 | 20.6 | 20.3 | 20.1 | 20.1 | 20.1 | 20.1 | 20.1 |
| 87.5° | 11.8 | 11.8 | 11.8 | 11.8 | 11.7 | 11.7 | 11.6 | 11.5 |
| 90° | 20.4 | 21.0 | 21.7 | 22.3 | 22.6 | 23.0 | 23.3 | 23.7 |
| 92.5° | 22.4 | 23.5 | 24.7 | 25.3 | 25.5 | 25.8 | 26.0 | 26.3 |
| 95° | 27.0 | 28.2 | 29.4 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 |
| 97.5° | 28.3 | 29.6 | 31.0 | 31.8 | 32.0 | 32.2 | 32.3 | 32.5 |
| 100° | 28.9 | 30.3 | 31.7 | 32.4 | 32.6 | 32.8 | 33.0 | 33.1 |
| 102.5° | 43.2 | 38.9 | 34.5 | 32.5 | 32.8 | 33.1 | 33.4 | 33.8 |
| 105° | 110.8 | 79.8 | 48.7 | 33.3 | 33.7 | 34.0 | 34.4 | 34.7 |
| 107.5° | 271.4 | 248.6 | 225.8 | 202.7 | 179.4 | 155.9 | 132.5 | 109.1 |
| 110° | 344.5 | 338.7 | 333.0 | 317.5 | 292.4 | 267.3 | 242.2 | 217.1 |



TEST NUMBER: P332285-840

CATALOG NUMBER: S123RDIP-S560D805U840-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 396.1 | 396.2 | 396.3 | 393.6 | 388.4 | 383.0 | 377.8 | 372.5 |
| 115° | 456.7 | 458.5 | 460.2 | 461.4 | 462.1 | 462.8 | 463.5 | 464.2 |
| 117.5° | 511.6 | 513.0 | 514.3 | 515.1 | 515.3 | 515.4 | 515.5 | 515.7 |
| 120° | 547.5 | 549.0 | 550.4 | 551.1 | 551.1 | 551.1 | 551.1 | 551.1 |
| 122.5° | 582.7 | 583.7 | 584.7 | 585.2 | 585.4 | 585.5 | 585.7 | 585.8 |
| 125° | 632.3 | 632.7 | 633.0 | 633.4 | 633.7 | 634.1 | 634.4 | 634.8 |
| 127.5° | 682.0 | 682.6 | 683.1 | 683.2 | 682.9 | 682.6 | 682.2 | 681.9 |
| 130° | 712.0 | 712.7 | 713.4 | 713.6 | 713.2 | 712.9 | 712.5 | 712.2 |
| 132.5° | 740.3 | 741.0 | 741.7 | 741.8 | 741.4 | 740.9 | 740.4 | 739.9 |
| 135° | 783.5 | 784.0 | 784.5 | 784.5 | 784.0 | 783.5 | 782.9 | 782.4 |
| 137.5° | 821.8 | 822.6 | 823.5 | 823.7 | 823.4 | 823.0 | 822.7 | 822.3 |
| 140° | 846.2 | 846.9 | 847.6 | 847.8 | 847.4 | 847.1 | 846.7 | 846.4 |
| 142.5° | 869.3 | 869.8 | 870.4 | 870.4 | 869.9 | 869.4 | 869.0 | 868.5 |
| 145° | 901.5 | 901.9 | 902.2 | 902.4 | 902.4 | 902.4 | 902.4 | 902.4 |
| 147.5° | 930.4 | 930.8 | 931.1 | 930.9 | 930.1 | 929.3 | 928.5 | 927.7 |
| 150° | 948.1 | 948.5 | 948.8 | 948.8 | 948.2 | 947.7 | 947.2 | 946.6 |
| 152.5° | 963.8 | 964.4 | 965.1 | 965.0 | 964.2 | 963.4 | 962.6 | 961.8 |
| 155° | 985.5 | 986.3 | 987.2 | 987.1 | 986.1 | 985.0 | 984.0 | 982.9 |
| 157.5° | 1004.3 | 1005.3 | 1006.4 | 1006.2 | 1004.9 | 1003.5 | 1002.2 | 1000.8 |
| 160° | 1015.0 | 1016.1 | 1017.1 | 1017.0 | 1015.8 | 1014.6 | 1013.4 | 1012.2 |
| 162.5° | 1024.8 | 1026.0 | 1027.1 | 1027.2 | 1026.1 | 1025.0 | 1024.0 | 1022.9 |
| 165° | 1037.8 | 1039.3 | 1040.7 | 1040.8 | 1039.6 | 1038.2 | 1037.0 | 1035.8 |
| 167.5° | 1047.9 | 1049.4 | 1050.8 | 1050.8 | 1049.4 | 1047.9 | 1046.5 | 1045.1 |
| 170° | 1053.6 | 1055.0 | 1056.4 | 1056.4 | 1055.0 | 1053.6 | 1052.3 | 1050.9 |
| 172.5° | 1057.4 | 1058.8 | 1060.3 | 1060.2 | 1058.6 | 1057.1 | 1055.5 | 1054.0 |
| 175° | 1062.0 | 1063.2 | 1064.4 | 1064.3 | 1063.0 | 1061.6 | 1060.2 | 1058.7 |
| 177.5° | 1063.7 | 1064.8 | 1065.9 | 1065.8 | 1064.4 | 1063.0 | 1061.6 | 1060.2 |
| 180° | 1062.7 | 1062.7 | 1062.7 | 1062.7 | 1062.7 | 1062.7 | 1062.7 | 1062.7 |

(END OF REPORT)