

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: P332297-940

Luminaire Tested: **S123RDIP-S560D1195U940-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332297-940
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-S560D1195U940-4F0-1E-UDD-F
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 1195 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6159.0 lumens
Efficiency: N/A
Efficacy: 124.7 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

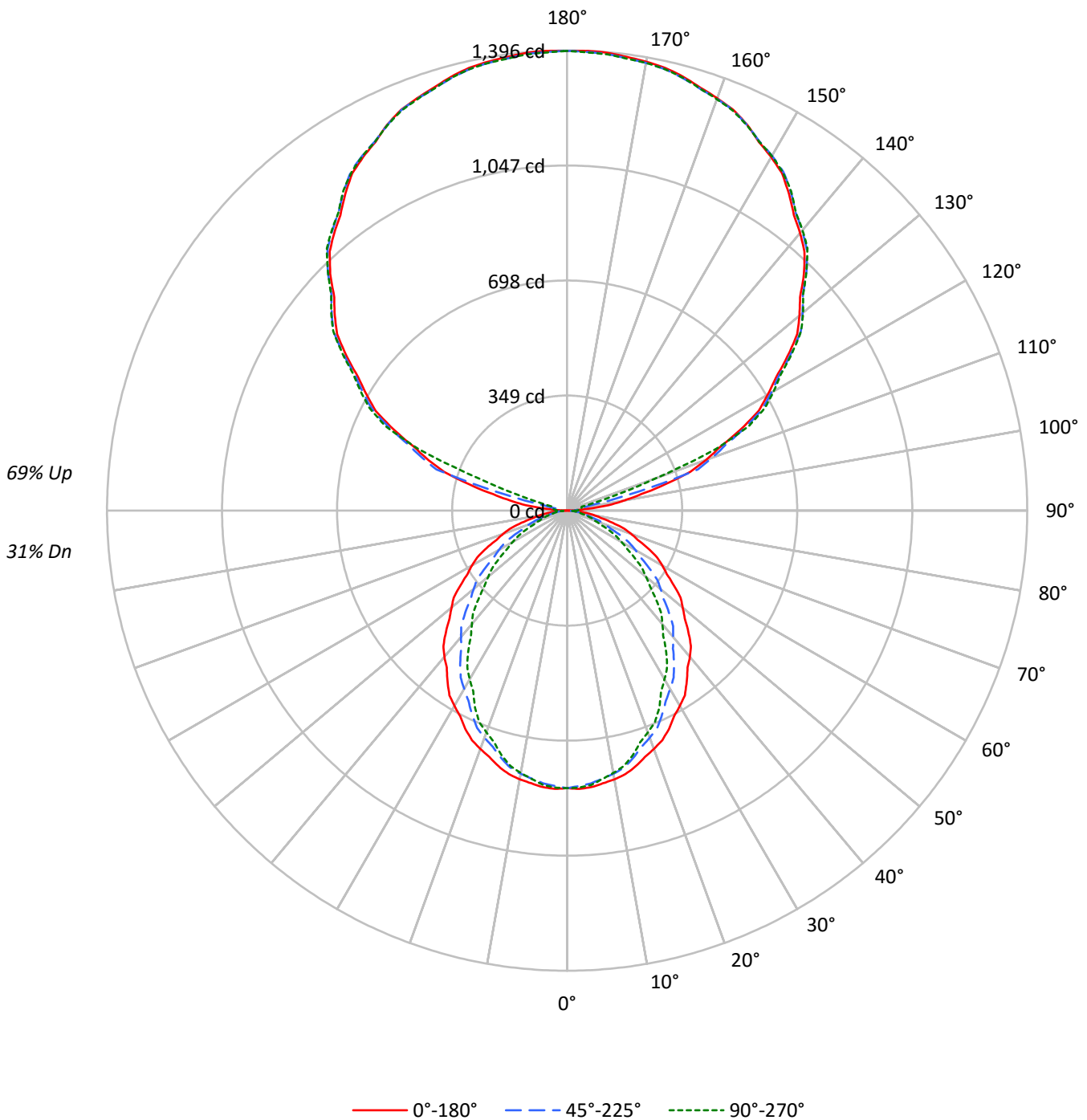
Input Watts (W): 49.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332297-940

CATALOG NUMBER: S123RDIP-S560D1195U940-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P332297-940

CATALOG NUMBER: S123RDIP-S560D1195U940-4F0-1E-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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 103 | 103 | 103 | 103 | 92 | 92 | 92 | 92 | 73 | 73 | 73 | 55 | 55 | 55 | 39 | 39 | 39 | 31 |
| 1 | 94 | 90 | 86 | 83 | 84 | 81 | 78 | 75 | 64 | 62 | 60 | 49 | 47 | 46 | 34 | 34 | 33 | 26 |
| 2 | 85 | 78 | 73 | 68 | 77 | 71 | 66 | 62 | 56 | 53 | 50 | 43 | 41 | 39 | 30 | 29 | 28 | 22 |
| 3 | 78 | 69 | 62 | 57 | 70 | 62 | 56 | 52 | 50 | 46 | 42 | 38 | 35 | 33 | 27 | 25 | 24 | 19 |
| 4 | 71 | 61 | 54 | 48 | 64 | 55 | 49 | 44 | 44 | 40 | 36 | 34 | 31 | 28 | 24 | 22 | 21 | 17 |
| 5 | 65 | 54 | 47 | 41 | 59 | 49 | 43 | 38 | 40 | 35 | 31 | 30 | 27 | 25 | 22 | 20 | 18 | 15 |
| 6 | 60 | 49 | 41 | 35 | 54 | 44 | 37 | 33 | 36 | 31 | 27 | 28 | 24 | 21 | 20 | 18 | 16 | 13 |
| 7 | 56 | 44 | 36 | 31 | 50 | 40 | 33 | 29 | 32 | 27 | 24 | 25 | 22 | 19 | 18 | 16 | 14 | 12 |
| 8 | 52 | 40 | 32 | 27 | 46 | 36 | 30 | 25 | 29 | 24 | 21 | 23 | 19 | 17 | 17 | 15 | 13 | 10 |
| 9 | 48 | 36 | 29 | 24 | 43 | 33 | 27 | 22 | 27 | 22 | 19 | 21 | 18 | 15 | 16 | 13 | 12 | 9 |
| 10 | 45 | 33 | 26 | 22 | 40 | 30 | 24 | 20 | 25 | 20 | 17 | 19 | 16 | 14 | 14 | 12 | 11 | 9 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 9065 | 9065 | 9065 |
| 5° | 9100 | 8975 | 9027 |
| 10° | 9049 | 8862 | 8833 |
| 15° | 8952 | 8655 | 8564 |
| 20° | 8818 | 8395 | 8200 |
| 25° | 8679 | 8105 | 7845 |
| 30° | 8499 | 7768 | 7343 |
| 35° | 8311 | 7432 | 6884 |
| 40° | 8140 | 7035 | 6315 |
| 45° | 7913 | 6645 | 5801 |
| 50° | 7663 | 6199 | 5228 |
| 55° | 7409 | 5692 | 4692 |
| 60° | 7175 | 5147 | 4103 |
| 65° | 6872 | 4559 | 3512 |
| 70° | 6493 | 3827 | 2839 |
| 75° | 5939 | 3011 | 2670 |
| 80° | 5294 | 2672 | 2455 |
| 85° | 4471 | 2359 | 2186 |



TEST NUMBER: P332297-940

CATALOG NUMBER: S123RDIP-S560D1195U940-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 79.1 | 1.3 |
| 10°-20° | 220.1 | 3.6 |
| 20°-30° | 316.9 | 5.1 |
| 30°-40° | 356.9 | 5.8 |
| 40°-50° | 341.4 | 5.5 |
| 50°-60° | 279.6 | 4.5 |
| 60°-70° | 188.7 | 3.1 |
| 70°-80° | 94.9 | 1.5 |
| 80°-90° | 29.0 | 0.5 |
| 90°-100° | 50.7 | 0.8 |
| 100°-110° | 241.6 | 3.9 |
| 110°-120° | 580.4 | 9.4 |
| 120°-130° | 739.1 | 12.0 |
| 130°-140° | 789.7 | 12.8 |
| 140°-150° | 738.4 | 12.0 |
| 150°-160° | 595.6 | 9.7 |
| 160°-170° | 384.4 | 6.2 |
| 170°-180° | 132.5 | 2.2 |
| 0°-30° | 616.0 | 10.0 |
| 0°-40° | 972.9 | 15.8 |
| 0°-60° | 1594.0 | 25.9 |
| 0°-90° | 1906.5 | 31.0 |
| 90°-120° | 872.7 | 14.2 |
| 90°-150° | 3139.9 | 51.0 |
| 90°-180° | 4252.0 | 69.0 |
| 0°-180° | 6159.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 842 | 842 | 842 | 842 | 842 | |
| 5° | 842 | 839 | 831 | 836 | 835 | 80 |
| 15° | 803 | 795 | 777 | 773 | 768 | 226 |
| 25° | 731 | 713 | 682 | 668 | 660 | 336 |
| 35° | 632 | 607 | 566 | 537 | 524 | 396 |
| 45° | 520 | 488 | 436 | 399 | 381 | 401 |
| 55° | 395 | 360 | 303 | 265 | 250 | 354 |
| 65° | 270 | 231 | 179 | 147 | 138 | 267 |
| 75° | 143 | 110 | 72 | 66 | 64 | 152 |
| 85° | 36 | 22 | 19 | 18 | 18 | 41 |
| 90° | 1 | 12 | 25 | 29 | 31 | 5 |
| 95° | 63 | 24 | 32 | 39 | 39 | 78 |
| 105° | 309 | 314 | 227 | 54 | 46 | 327 |
| 115° | 579 | 586 | 595 | 605 | 609 | 571 |
| 125° | 816 | 824 | 829 | 831 | 833 | 729 |
| 135° | 1016 | 1022 | 1027 | 1030 | 1027 | 782 |
| 145° | 1173 | 1180 | 1182 | 1184 | 1184 | 734 |
| 155° | 1292 | 1290 | 1291 | 1295 | 1290 | 595 |
| 165° | 1362 | 1359 | 1358 | 1366 | 1359 | 385 |
| 175° | 1394 | 1390 | 1390 | 1397 | 1389 | 133 |
| 180° | 1394 | 1394 | 1394 | 1394 | 1394 | |



TEST NUMBER: P332297-940

CATALOG NUMBER: S123RDIP-S560D1195U940-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 842.2 | 842.2 | 842.2 | 842.2 | 842.2 | 842.2 | 842.2 | 842.2 | 842.2 | 842.2 | 842.2 |
| 2.5° | 845.0 | 844.5 | 844.0 | 843.5 | 843.0 | 842.0 | 840.6 | 839.1 | 837.7 | 836.2 | 837.6 |
| 5° | 842.2 | 841.5 | 840.7 | 840.0 | 839.2 | 837.9 | 836.1 | 834.3 | 832.4 | 830.6 | 832.0 |
| 7.5° | 834.5 | 833.7 | 832.8 | 832.0 | 831.2 | 829.6 | 827.2 | 824.8 | 822.4 | 820.1 | 820.8 |
| 10° | 827.9 | 826.8 | 825.7 | 824.7 | 823.7 | 821.7 | 819.0 | 816.3 | 813.5 | 810.8 | 810.9 |
| 12.5° | 818.6 | 817.4 | 816.2 | 815.0 | 813.9 | 811.6 | 808.2 | 804.9 | 801.6 | 798.3 | 798.2 |
| 15° | 803.3 | 801.6 | 800.0 | 798.3 | 796.7 | 793.6 | 789.4 | 785.2 | 780.9 | 776.7 | 775.9 |
| 17.5° | 784.0 | 782.1 | 780.2 | 778.2 | 776.2 | 772.6 | 767.1 | 761.8 | 756.3 | 751.0 | 749.4 |
| 20° | 769.8 | 767.4 | 765.0 | 762.5 | 760.1 | 756.0 | 750.2 | 744.5 | 738.7 | 732.9 | 730.9 |
| 22.5° | 753.9 | 751.2 | 748.4 | 745.6 | 742.8 | 738.3 | 732.2 | 726.0 | 720.0 | 713.8 | 711.3 |
| 25° | 730.8 | 727.1 | 723.3 | 719.5 | 715.7 | 710.3 | 703.3 | 696.3 | 689.4 | 682.4 | 679.2 |
| 27.5° | 702.8 | 698.7 | 694.5 | 690.3 | 686.1 | 680.1 | 672.3 | 664.6 | 656.8 | 649.1 | 644.6 |
| 30° | 683.8 | 679.2 | 674.7 | 670.1 | 665.6 | 659.0 | 650.5 | 642.0 | 633.5 | 625.0 | 619.8 |
| 32.5° | 664.6 | 659.5 | 654.3 | 649.2 | 644.0 | 636.9 | 627.9 | 618.9 | 609.9 | 600.9 | 595.3 |
| 35° | 632.5 | 627.1 | 621.6 | 616.2 | 610.6 | 603.2 | 593.8 | 584.4 | 575.0 | 565.6 | 559.0 |
| 37.5° | 600.0 | 594.0 | 587.9 | 581.8 | 575.7 | 567.7 | 557.6 | 547.6 | 537.5 | 527.4 | 520.0 |
| 40° | 579.3 | 572.6 | 565.9 | 559.2 | 552.5 | 543.8 | 533.1 | 522.3 | 511.5 | 500.7 | 492.8 |
| 42.5° | 555.7 | 549.0 | 542.4 | 535.7 | 529.1 | 520.1 | 509.0 | 497.8 | 486.7 | 475.5 | 466.9 |
| 45° | 519.8 | 513.0 | 506.1 | 499.4 | 492.5 | 483.2 | 471.5 | 459.9 | 448.2 | 436.5 | 427.8 |
| 47.5° | 483.8 | 476.4 | 468.9 | 461.4 | 453.9 | 444.3 | 432.6 | 420.9 | 409.2 | 397.5 | 388.2 |
| 50° | 457.6 | 450.5 | 443.4 | 436.2 | 429.1 | 419.4 | 407.1 | 394.8 | 382.5 | 370.2 | 360.8 |
| 52.5° | 434.2 | 426.4 | 418.7 | 410.9 | 403.2 | 393.2 | 381.0 | 368.9 | 356.7 | 344.6 | 334.7 |
| 55° | 394.8 | 387.4 | 380.0 | 372.5 | 365.1 | 354.9 | 342.0 | 329.1 | 316.2 | 303.3 | 294.4 |
| 57.5° | 358.5 | 350.4 | 342.2 | 334.1 | 326.0 | 315.5 | 302.6 | 289.6 | 276.6 | 263.7 | 255.4 |
| 60° | 333.3 | 325.0 | 316.6 | 308.3 | 300.0 | 289.4 | 276.9 | 264.3 | 251.6 | 239.1 | 230.9 |
| 62.5° | 308.2 | 299.9 | 291.5 | 283.1 | 274.8 | 264.3 | 251.7 | 239.2 | 226.5 | 213.9 | 206.3 |
| 65° | 269.8 | 261.4 | 253.2 | 244.8 | 236.4 | 226.3 | 214.5 | 202.7 | 190.8 | 179.0 | 171.6 |
| 67.5° | 231.4 | 223.0 | 214.5 | 206.1 | 197.7 | 187.8 | 176.4 | 165.1 | 153.7 | 142.3 | 136.8 |
| 70° | 206.3 | 198.0 | 189.9 | 181.7 | 173.5 | 164.1 | 153.5 | 142.9 | 132.2 | 121.6 | 116.3 |
| 72.5° | 181.1 | 173.1 | 165.0 | 156.9 | 148.8 | 140.0 | 130.4 | 120.6 | 111.0 | 101.4 | 97.0 |
| 75° | 142.8 | 135.5 | 128.2 | 120.9 | 113.6 | 105.8 | 97.5 | 89.1 | 80.8 | 72.4 | 70.9 |
| 77.5° | 107.8 | 101.2 | 94.6 | 88.0 | 81.4 | 75.4 | 70.1 | 64.7 | 59.3 | 53.9 | 53.1 |
| 80° | 85.4 | 79.2 | 72.9 | 66.7 | 60.5 | 55.8 | 52.6 | 49.4 | 46.2 | 43.1 | 42.5 |
| 82.5° | 64.1 | 58.7 | 53.3 | 48.0 | 42.5 | 39.1 | 37.6 | 36.2 | 34.7 | 33.2 | 32.7 |
| 85° | 36.2 | 32.9 | 29.5 | 26.2 | 22.8 | 21.0 | 20.5 | 20.1 | 19.6 | 19.1 | 18.8 |
| 87.5° | 13.3 | 12.5 | 11.6 | 10.7 | 9.8 | 9.7 | 10.3 | 10.9 | 11.5 | 12.0 | 12.1 |
| 90° | 1.1 | 3.3 | 5.6 | 7.9 | 10.3 | 12.9 | 15.9 | 18.9 | 21.8 | 24.9 | 25.8 |
| 92.5° | 19.3 | 18.6 | 18.0 | 17.3 | 16.7 | 17.5 | 19.8 | 22.0 | 24.3 | 26.5 | 28.0 |
| 95° | 63.2 | 53.8 | 44.3 | 34.9 | 25.4 | 22.0 | 24.5 | 27.0 | 29.6 | 32.1 | 33.7 |
| 97.5° | 127.0 | 122.8 | 118.5 | 114.3 | 110.0 | 99.7 | 83.1 | 66.5 | 49.9 | 33.3 | 35.2 |
| 100° | 175.0 | 179.7 | 184.3 | 188.9 | 193.5 | 177.8 | 142.0 | 106.0 | 70.1 | 34.2 | 36.0 |
| 102.5° | 229.8 | 233.1 | 236.4 | 239.7 | 243.1 | 225.1 | 185.8 | 146.6 | 107.4 | 68.1 | 62.4 |
| 105° | 308.7 | 311.3 | 313.8 | 316.3 | 318.9 | 309.8 | 289.0 | 268.3 | 247.6 | 226.9 | 186.1 |
| 107.5° | 392.0 | 394.0 | 396.1 | 398.1 | 400.1 | 402.8 | 406.1 | 409.3 | 412.6 | 415.9 | 385.9 |
| 110° | 447.5 | 449.4 | 451.2 | 453.1 | 455.0 | 457.1 | 459.7 | 462.2 | 464.7 | 467.3 | 459.7 |



TEST NUMBER: P332297-940

CATALOG NUMBER: S123RDIP-S560D1195U940-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 500.6 | 502.2 | 503.9 | 505.6 | 507.2 | 509.3 | 511.8 | 514.4 | 516.9 | 519.4 | 519.6 |
| 115° | 579.2 | 580.5 | 581.8 | 583.3 | 584.6 | 586.4 | 588.4 | 590.5 | 592.6 | 594.7 | 597.0 |
| 117.5° | 655.1 | 656.8 | 658.5 | 660.3 | 662.0 | 663.3 | 664.4 | 665.5 | 666.6 | 667.6 | 669.4 |
| 120° | 702.4 | 704.5 | 706.6 | 708.6 | 710.7 | 712.1 | 712.7 | 713.5 | 714.2 | 714.8 | 716.7 |
| 122.5° | 750.5 | 752.2 | 753.9 | 755.5 | 757.3 | 758.6 | 759.5 | 760.4 | 761.2 | 762.1 | 763.4 |
| 125° | 816.4 | 818.2 | 820.0 | 821.9 | 823.8 | 825.1 | 826.0 | 827.0 | 827.9 | 828.8 | 829.3 |
| 127.5° | 880.2 | 882.0 | 883.9 | 885.7 | 887.5 | 889.0 | 890.1 | 891.3 | 892.3 | 893.4 | 894.2 |
| 130° | 920.0 | 921.9 | 923.6 | 925.5 | 927.3 | 928.7 | 929.6 | 930.6 | 931.5 | 932.4 | 933.4 |
| 132.5° | 958.1 | 959.9 | 961.8 | 963.6 | 965.5 | 966.7 | 967.5 | 968.2 | 968.9 | 969.7 | 970.6 |
| 135° | 1016.3 | 1017.7 | 1019.0 | 1020.5 | 1021.8 | 1023.0 | 1024.0 | 1024.8 | 1025.7 | 1026.7 | 1027.3 |
| 137.5° | 1066.0 | 1067.8 | 1069.5 | 1071.3 | 1073.1 | 1074.2 | 1074.7 | 1075.2 | 1075.7 | 1076.2 | 1077.3 |
| 140° | 1099.2 | 1100.5 | 1102.0 | 1103.3 | 1104.7 | 1105.7 | 1106.4 | 1107.1 | 1107.9 | 1108.5 | 1109.5 |
| 142.5° | 1129.9 | 1131.2 | 1132.7 | 1134.0 | 1135.4 | 1136.4 | 1137.1 | 1137.8 | 1138.5 | 1139.2 | 1140.0 |
| 145° | 1172.8 | 1174.4 | 1176.0 | 1177.6 | 1179.2 | 1180.3 | 1180.7 | 1181.2 | 1181.6 | 1182.1 | 1182.5 |
| 147.5° | 1213.2 | 1214.2 | 1215.3 | 1216.3 | 1217.4 | 1218.2 | 1218.6 | 1219.1 | 1219.5 | 1219.9 | 1220.5 |
| 150° | 1238.1 | 1238.7 | 1239.4 | 1240.1 | 1240.8 | 1241.4 | 1241.8 | 1242.2 | 1242.8 | 1243.2 | 1243.7 |
| 152.5° | 1260.4 | 1260.7 | 1261.1 | 1261.3 | 1261.7 | 1261.9 | 1262.2 | 1262.6 | 1262.8 | 1263.1 | 1263.9 |
| 155° | 1291.9 | 1291.5 | 1290.9 | 1290.5 | 1290.0 | 1289.9 | 1290.1 | 1290.4 | 1290.7 | 1290.8 | 1292.0 |
| 157.5° | 1316.3 | 1316.3 | 1316.3 | 1316.2 | 1316.2 | 1316.0 | 1315.8 | 1315.5 | 1315.4 | 1315.1 | 1316.5 |
| 160° | 1331.2 | 1331.1 | 1330.8 | 1330.6 | 1330.3 | 1330.1 | 1329.9 | 1329.6 | 1329.5 | 1329.2 | 1330.6 |
| 162.5° | 1345.3 | 1344.8 | 1344.2 | 1343.5 | 1342.9 | 1342.6 | 1342.3 | 1342.1 | 1341.8 | 1341.6 | 1343.2 |
| 165° | 1362.4 | 1361.6 | 1360.9 | 1360.3 | 1359.6 | 1359.1 | 1358.9 | 1358.6 | 1358.4 | 1358.2 | 1360.0 |
| 167.5° | 1375.6 | 1374.7 | 1373.8 | 1372.9 | 1371.9 | 1371.5 | 1371.5 | 1371.5 | 1371.5 | 1371.5 | 1373.3 |
| 170° | 1383.0 | 1382.2 | 1381.3 | 1380.3 | 1379.4 | 1378.9 | 1378.9 | 1378.9 | 1378.9 | 1378.9 | 1380.7 |
| 172.5° | 1388.0 | 1387.0 | 1385.8 | 1384.7 | 1383.6 | 1383.1 | 1383.3 | 1383.5 | 1383.7 | 1383.8 | 1385.7 |
| 175° | 1394.5 | 1393.3 | 1392.1 | 1391.0 | 1389.8 | 1389.4 | 1389.6 | 1389.8 | 1390.1 | 1390.3 | 1392.0 |
| 177.5° | 1396.2 | 1395.2 | 1394.3 | 1393.4 | 1392.4 | 1392.0 | 1392.2 | 1392.4 | 1392.6 | 1392.8 | 1394.3 |
| 180° | 1394.5 | 1394.5 | 1394.5 | 1394.5 | 1394.5 | 1394.5 | 1394.5 | 1394.5 | 1394.5 | 1394.5 | 1394.5 |



TEST NUMBER: P332297-940

CATALOG NUMBER: S123RDIP-S560D1195U940-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 842.2 | 842.2 | 842.2 | 842.2 | 842.2 | 842.2 | 842.2 | 842.2 |
| 2.5° | 838.9 | 840.3 | 841.6 | 842.1 | 841.9 | 841.6 | 841.4 | 841.2 |
| 5° | 833.3 | 834.7 | 836.1 | 836.6 | 836.3 | 836.0 | 835.7 | 835.4 |
| 7.5° | 821.6 | 822.3 | 823.1 | 823.2 | 822.7 | 822.2 | 821.7 | 821.2 |
| 10° | 811.1 | 811.3 | 811.4 | 811.1 | 810.4 | 809.6 | 808.9 | 808.1 |
| 12.5° | 798.1 | 798.0 | 797.9 | 797.4 | 796.5 | 795.6 | 794.8 | 793.9 |
| 15° | 775.2 | 774.4 | 773.6 | 772.7 | 771.6 | 770.6 | 769.5 | 768.5 |
| 17.5° | 747.8 | 746.2 | 744.5 | 743.0 | 741.4 | 739.8 | 738.2 | 736.6 |
| 20° | 729.0 | 727.0 | 725.1 | 723.2 | 721.3 | 719.5 | 717.6 | 715.9 |
| 22.5° | 708.9 | 706.4 | 704.0 | 701.9 | 700.2 | 698.5 | 696.8 | 695.1 |
| 25° | 676.0 | 672.8 | 669.7 | 667.2 | 665.6 | 663.9 | 662.2 | 660.5 |
| 27.5° | 640.2 | 635.8 | 631.3 | 627.9 | 625.3 | 622.8 | 620.2 | 617.6 |
| 30° | 614.7 | 609.5 | 604.4 | 600.6 | 598.2 | 595.8 | 593.3 | 590.8 |
| 32.5° | 589.7 | 584.0 | 578.4 | 574.3 | 571.8 | 569.2 | 566.6 | 564.1 |
| 35° | 552.5 | 546.0 | 539.5 | 534.8 | 532.1 | 529.4 | 526.6 | 523.9 |
| 37.5° | 512.6 | 505.2 | 497.8 | 492.5 | 489.1 | 485.7 | 482.3 | 478.9 |
| 40° | 484.9 | 477.0 | 469.1 | 463.4 | 459.9 | 456.5 | 453.0 | 449.4 |
| 42.5° | 458.3 | 449.7 | 441.0 | 435.2 | 432.0 | 428.9 | 425.8 | 422.7 |
| 45° | 419.2 | 410.5 | 401.9 | 395.7 | 392.1 | 388.4 | 384.8 | 381.1 |
| 47.5° | 378.7 | 369.3 | 359.9 | 353.6 | 350.4 | 347.1 | 343.8 | 340.5 |
| 50° | 351.4 | 342.0 | 332.6 | 326.1 | 322.6 | 319.1 | 315.7 | 312.2 |
| 52.5° | 325.0 | 315.2 | 305.4 | 299.0 | 295.9 | 292.7 | 289.6 | 286.5 |
| 55° | 285.7 | 276.9 | 268.0 | 262.2 | 259.1 | 256.1 | 253.1 | 250.0 |
| 57.5° | 247.0 | 238.7 | 230.4 | 225.0 | 222.4 | 219.8 | 217.2 | 214.6 |
| 60° | 222.7 | 214.5 | 206.3 | 200.9 | 198.3 | 195.7 | 193.1 | 190.6 |
| 62.5° | 198.5 | 190.8 | 183.1 | 177.9 | 175.2 | 172.5 | 169.8 | 167.1 |
| 65° | 164.1 | 156.7 | 149.2 | 144.6 | 143.0 | 141.3 | 139.6 | 137.9 |
| 67.5° | 131.3 | 125.6 | 120.1 | 116.5 | 114.7 | 112.9 | 111.1 | 109.3 |
| 70° | 110.9 | 105.7 | 100.3 | 96.8 | 95.1 | 93.5 | 91.8 | 90.2 |
| 72.5° | 92.6 | 88.4 | 84.0 | 81.5 | 80.8 | 80.1 | 79.4 | 78.6 |
| 75° | 69.4 | 67.9 | 66.3 | 65.5 | 65.1 | 64.8 | 64.5 | 64.2 |
| 77.5° | 52.3 | 51.5 | 50.6 | 50.1 | 49.8 | 49.5 | 49.2 | 48.9 |
| 80° | 42.1 | 41.6 | 41.2 | 40.8 | 40.6 | 40.2 | 39.9 | 39.6 |
| 82.5° | 32.3 | 31.8 | 31.4 | 31.1 | 31.0 | 31.0 | 30.9 | 30.9 |
| 85° | 18.5 | 18.2 | 17.9 | 17.7 | 17.7 | 17.7 | 17.7 | 17.7 |
| 87.5° | 12.2 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | 12.2 | 12.2 |
| 90° | 26.7 | 27.6 | 28.5 | 29.2 | 29.7 | 30.1 | 30.6 | 31.1 |
| 92.5° | 29.4 | 30.9 | 32.5 | 33.3 | 33.5 | 33.9 | 34.2 | 34.4 |
| 95° | 35.3 | 36.9 | 38.5 | 39.3 | 39.3 | 39.3 | 39.3 | 39.3 |
| 97.5° | 37.0 | 38.9 | 40.8 | 41.7 | 42.0 | 42.3 | 42.4 | 42.7 |
| 100° | 37.9 | 39.7 | 41.6 | 42.6 | 42.8 | 43.1 | 43.2 | 43.5 |
| 102.5° | 56.7 | 51.0 | 45.3 | 42.7 | 43.1 | 43.5 | 44.0 | 44.3 |
| 105° | 145.3 | 104.6 | 63.8 | 43.8 | 44.2 | 44.7 | 45.1 | 45.6 |
| 107.5° | 356.1 | 326.2 | 296.3 | 266.0 | 235.3 | 204.6 | 173.9 | 143.2 |
| 110° | 452.0 | 444.4 | 436.8 | 416.6 | 383.7 | 350.7 | 317.8 | 284.9 |



TEST NUMBER: P332297-940

CATALOG NUMBER: S123RDIP-S560D1195U940-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 519.7 | 519.9 | 520.0 | 516.6 | 509.6 | 502.7 | 495.7 | 488.7 |
| 115° | 599.2 | 601.5 | 603.9 | 605.5 | 606.4 | 607.3 | 608.2 | 609.1 |
| 117.5° | 671.3 | 673.2 | 674.9 | 676.0 | 676.2 | 676.4 | 676.5 | 676.7 |
| 120° | 718.5 | 720.3 | 722.2 | 723.1 | 723.1 | 723.1 | 723.1 | 723.1 |
| 122.5° | 764.6 | 766.0 | 767.2 | 767.9 | 768.1 | 768.3 | 768.6 | 768.7 |
| 125° | 829.7 | 830.2 | 830.6 | 831.1 | 831.5 | 832.1 | 832.5 | 832.9 |
| 127.5° | 894.9 | 895.6 | 896.3 | 896.5 | 896.1 | 895.6 | 895.2 | 894.7 |
| 130° | 934.2 | 935.1 | 936.1 | 936.3 | 935.9 | 935.4 | 935.0 | 934.5 |
| 132.5° | 971.5 | 972.5 | 973.4 | 973.5 | 972.9 | 972.2 | 971.6 | 970.9 |
| 135° | 1028.1 | 1028.8 | 1029.5 | 1029.5 | 1028.8 | 1028.1 | 1027.3 | 1026.7 |
| 137.5° | 1078.4 | 1079.5 | 1080.6 | 1080.9 | 1080.5 | 1080.0 | 1079.6 | 1079.1 |
| 140° | 1110.4 | 1111.3 | 1112.2 | 1112.4 | 1112.0 | 1111.5 | 1111.1 | 1110.6 |
| 142.5° | 1140.7 | 1141.4 | 1142.1 | 1142.2 | 1141.6 | 1140.9 | 1140.2 | 1139.6 |
| 145° | 1183.0 | 1183.5 | 1183.9 | 1184.1 | 1184.1 | 1184.1 | 1184.1 | 1184.1 |
| 147.5° | 1220.9 | 1221.4 | 1221.8 | 1221.6 | 1220.5 | 1219.4 | 1218.3 | 1217.3 |
| 150° | 1244.1 | 1244.6 | 1245.0 | 1244.9 | 1244.2 | 1243.6 | 1242.9 | 1242.2 |
| 152.5° | 1264.7 | 1265.6 | 1266.4 | 1266.3 | 1265.2 | 1264.2 | 1263.1 | 1262.0 |
| 155° | 1293.2 | 1294.3 | 1295.5 | 1295.3 | 1294.0 | 1292.6 | 1291.2 | 1289.9 |
| 157.5° | 1317.9 | 1319.2 | 1320.6 | 1320.4 | 1318.7 | 1316.8 | 1315.0 | 1313.2 |
| 160° | 1331.9 | 1333.3 | 1334.7 | 1334.6 | 1333.0 | 1331.4 | 1329.7 | 1328.1 |
| 162.5° | 1344.8 | 1346.3 | 1347.9 | 1347.9 | 1346.5 | 1345.1 | 1343.6 | 1342.2 |
| 165° | 1361.9 | 1363.7 | 1365.6 | 1365.7 | 1364.1 | 1362.4 | 1360.8 | 1359.2 |
| 167.5° | 1375.1 | 1377.0 | 1378.9 | 1378.9 | 1377.0 | 1375.1 | 1373.3 | 1371.5 |
| 170° | 1382.6 | 1384.5 | 1386.3 | 1386.3 | 1384.5 | 1382.6 | 1380.7 | 1378.9 |
| 172.5° | 1387.6 | 1389.4 | 1391.2 | 1391.2 | 1389.1 | 1387.1 | 1385.1 | 1383.0 |
| 175° | 1393.6 | 1395.2 | 1396.8 | 1396.6 | 1394.8 | 1392.9 | 1391.2 | 1389.3 |
| 177.5° | 1395.7 | 1397.2 | 1398.6 | 1398.5 | 1396.7 | 1394.8 | 1392.9 | 1391.2 |
| 180° | 1394.5 | 1394.5 | 1394.5 | 1394.5 | 1394.5 | 1394.5 | 1394.5 | 1394.5 |

(END OF REPORT)