

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: P332267-930

Luminaire Tested: **S123RDIP-S340D1195U930-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332267-930
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-S340D1195U930-4F0-1E-UDD-F
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 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: 4949.8 lumens
Efficiency: N/A
Efficacy: 117.3 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

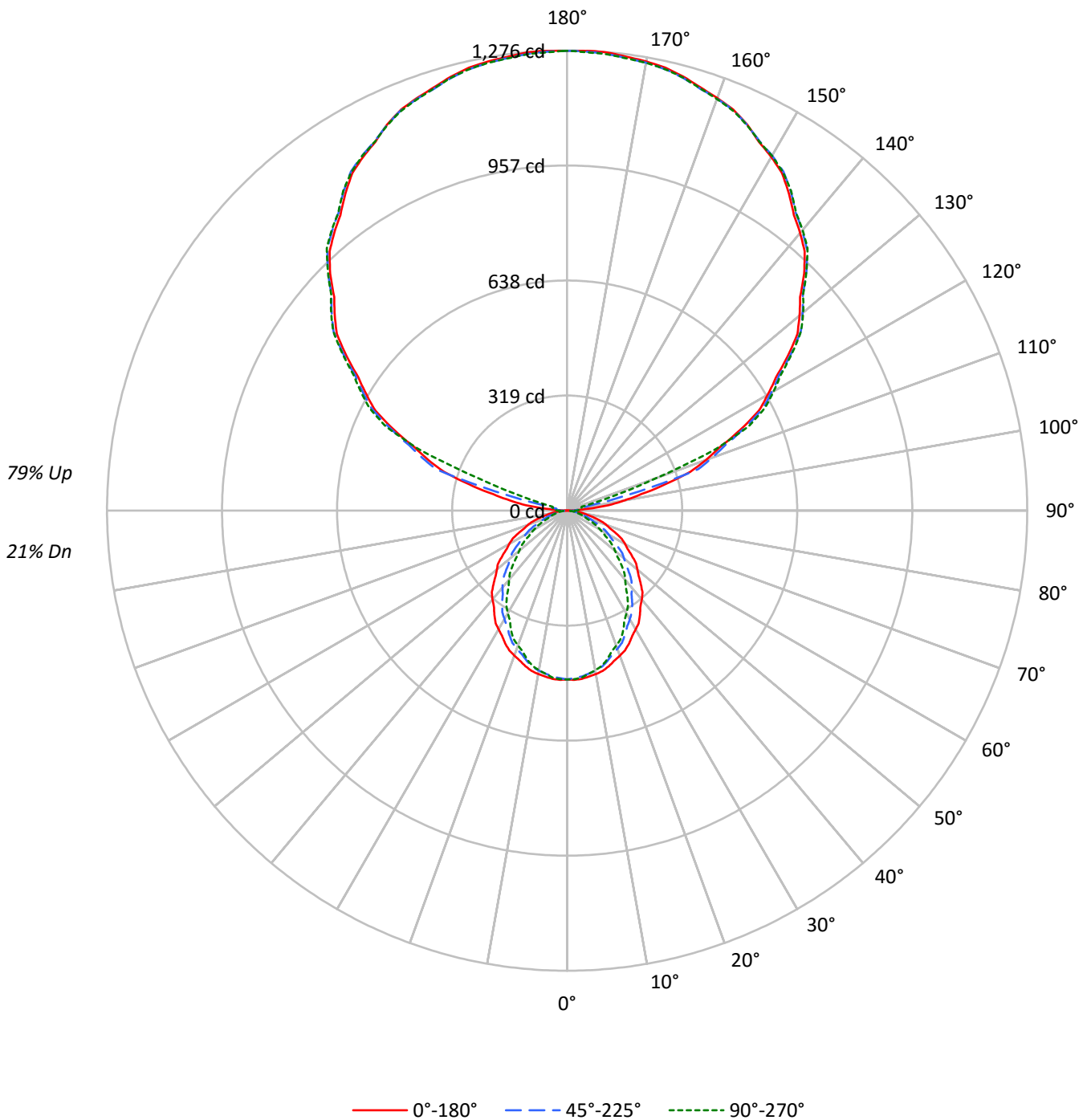
Input Watts (W): 42.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332267-930

CATALOG NUMBER: S123RDIP-S340D1195U930-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P332267-930

CATALOG NUMBER: S123RDIP-S340D1195U930-4F0-1E-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 | 100 | 100 | 100 | 100 | 89 | 89 | 89 | 89 | 67 | 67 | 67 | 48 | 48 | 48 | 30 | 30 | 30 | 21 |
| 1 | 92 | 87 | 84 | 80 | 81 | 78 | 75 | 72 | 59 | 57 | 55 | 42 | 41 | 40 | 27 | 26 | 25 | 18 |
| 2 | 83 | 76 | 71 | 66 | 74 | 68 | 63 | 59 | 52 | 49 | 46 | 37 | 35 | 33 | 24 | 22 | 22 | 16 |
| 3 | 76 | 67 | 60 | 55 | 67 | 60 | 54 | 49 | 46 | 42 | 39 | 33 | 30 | 28 | 21 | 20 | 18 | 13 |
| 4 | 70 | 59 | 52 | 46 | 61 | 53 | 47 | 42 | 41 | 36 | 33 | 29 | 27 | 24 | 19 | 17 | 16 | 12 |
| 5 | 64 | 53 | 45 | 40 | 56 | 47 | 41 | 36 | 36 | 32 | 28 | 26 | 23 | 21 | 17 | 15 | 14 | 10 |
| 6 | 59 | 47 | 40 | 34 | 52 | 42 | 36 | 31 | 33 | 28 | 25 | 24 | 21 | 18 | 15 | 14 | 12 | 9 |
| 7 | 54 | 42 | 35 | 30 | 48 | 38 | 32 | 27 | 29 | 25 | 22 | 21 | 18 | 16 | 14 | 12 | 11 | 8 |
| 8 | 50 | 38 | 31 | 26 | 44 | 34 | 28 | 24 | 27 | 22 | 19 | 20 | 17 | 14 | 13 | 11 | 10 | 7 |
| 9 | 46 | 35 | 28 | 23 | 41 | 31 | 25 | 21 | 24 | 20 | 17 | 18 | 15 | 13 | 12 | 10 | 9 | 6 |
| 10 | 43 | 32 | 25 | 20 | 38 | 29 | 23 | 19 | 22 | 18 | 15 | 17 | 14 | 12 | 11 | 9 | 8 | 6 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 5042 | 5042 | 5042 |
| 5° | 5061 | 4991 | 5020 |
| 10° | 5032 | 4928 | 4912 |
| 15° | 4979 | 4813 | 4763 |
| 20° | 4904 | 4669 | 4560 |
| 25° | 4828 | 4507 | 4363 |
| 30° | 4727 | 4320 | 4084 |
| 35° | 4623 | 4133 | 3829 |
| 40° | 4526 | 3912 | 3513 |
| 45° | 4401 | 3694 | 3227 |
| 50° | 4262 | 3448 | 2907 |
| 55° | 4121 | 3166 | 2609 |
| 60° | 3991 | 2863 | 2282 |
| 65° | 3823 | 2534 | 1954 |
| 70° | 3610 | 2127 | 1577 |
| 75° | 3302 | 1676 | 1485 |
| 80° | 2944 | 1488 | 1364 |
| 85° | 2482 | 1309 | 1223 |



TEST NUMBER: P332267-930

CATALOG NUMBER: S123RDIP-S340D1195U930-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 44.0 | 0.9 |
| 10°-20° | 122.4 | 2.5 |
| 20°-30° | 176.2 | 3.6 |
| 30°-40° | 198.5 | 4.0 |
| 40°-50° | 189.9 | 3.8 |
| 50°-60° | 155.5 | 3.1 |
| 60°-70° | 104.9 | 2.1 |
| 70°-80° | 52.8 | 1.1 |
| 80°-90° | 17.5 | 0.4 |
| 90°-100° | 46.4 | 0.9 |
| 100°-110° | 220.9 | 4.5 |
| 110°-120° | 530.6 | 10.7 |
| 120°-130° | 675.7 | 13.7 |
| 130°-140° | 722.0 | 14.6 |
| 140°-150° | 675.1 | 13.6 |
| 150°-160° | 544.6 | 11.0 |
| 160°-170° | 351.5 | 7.1 |
| 170°-180° | 121.1 | 2.4 |
| 0°-30° | 342.6 | 6.9 |
| 0°-40° | 541.1 | 10.9 |
| 0°-60° | 886.5 | 17.9 |
| 0°-90° | 1061.7 | 21.5 |
| 90°-120° | 797.9 | 16.1 |
| 90°-150° | 2870.8 | 58.0 |
| 90°-180° | 3888.0 | 78.5 |
| 0°-180° | 4949.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 468 | 468 | 468 | 468 | 468 | |
| 5° | 468 | 466 | 462 | 465 | 465 | 44 |
| 15° | 447 | 442 | 432 | 430 | 427 | 126 |
| 25° | 406 | 396 | 380 | 372 | 367 | 187 |
| 35° | 352 | 338 | 314 | 299 | 291 | 220 |
| 45° | 289 | 271 | 243 | 222 | 212 | 223 |
| 55° | 220 | 200 | 169 | 147 | 139 | 197 |
| 65° | 150 | 129 | 100 | 82 | 77 | 148 |
| 75° | 79 | 61 | 40 | 37 | 36 | 85 |
| 85° | 20 | 12 | 11 | 10 | 10 | 23 |
| 90° | 1 | 11 | 23 | 26 | 28 | 4 |
| 95° | 58 | 22 | 29 | 36 | 36 | 71 |
| 105° | 282 | 287 | 207 | 49 | 42 | 299 |
| 115° | 530 | 535 | 544 | 553 | 557 | 522 |
| 125° | 746 | 754 | 758 | 760 | 762 | 666 |
| 135° | 929 | 935 | 939 | 941 | 939 | 715 |
| 145° | 1072 | 1079 | 1081 | 1083 | 1083 | 671 |
| 155° | 1181 | 1179 | 1180 | 1184 | 1179 | 544 |
| 165° | 1246 | 1243 | 1242 | 1249 | 1243 | 352 |
| 175° | 1275 | 1270 | 1271 | 1277 | 1270 | 121 |
| 180° | 1275 | 1275 | 1275 | 1275 | 1275 | |



TEST NUMBER: P332267-930

CATALOG NUMBER: S123RDIP-S340D1195U930-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 |
| 2.5° | 469.9 | 469.6 | 469.4 | 469.1 | 468.9 | 468.3 | 467.5 | 466.7 | 465.9 | 465.0 | 465.8 |
| 5° | 468.4 | 468.0 | 467.6 | 467.2 | 466.7 | 466.0 | 465.0 | 464.0 | 462.9 | 461.9 | 462.7 |
| 7.5° | 464.1 | 463.6 | 463.2 | 462.7 | 462.3 | 461.4 | 460.1 | 458.8 | 457.4 | 456.1 | 456.5 |
| 10° | 460.4 | 459.8 | 459.3 | 458.7 | 458.0 | 457.0 | 455.5 | 454.0 | 452.4 | 450.9 | 451.0 |
| 12.5° | 455.3 | 454.6 | 454.0 | 453.3 | 452.7 | 451.3 | 449.5 | 447.7 | 445.8 | 443.9 | 443.8 |
| 15° | 446.8 | 445.8 | 444.9 | 443.9 | 443.0 | 441.4 | 439.0 | 436.7 | 434.3 | 431.9 | 431.5 |
| 17.5° | 436.0 | 435.0 | 433.9 | 432.8 | 431.7 | 429.7 | 426.6 | 423.6 | 420.7 | 417.7 | 416.8 |
| 20° | 428.1 | 426.8 | 425.4 | 424.1 | 422.7 | 420.4 | 417.3 | 414.0 | 410.8 | 407.6 | 406.5 |
| 22.5° | 419.3 | 417.8 | 416.2 | 414.7 | 413.1 | 410.7 | 407.2 | 403.8 | 400.4 | 397.0 | 395.6 |
| 25° | 406.5 | 404.4 | 402.3 | 400.1 | 398.0 | 395.0 | 391.2 | 387.3 | 383.4 | 379.5 | 377.7 |
| 27.5° | 390.9 | 388.6 | 386.2 | 383.9 | 381.6 | 378.3 | 374.0 | 369.6 | 365.3 | 360.9 | 358.5 |
| 30° | 380.3 | 377.7 | 375.2 | 372.7 | 370.1 | 366.5 | 361.7 | 357.0 | 352.3 | 347.6 | 344.7 |
| 32.5° | 369.7 | 366.7 | 363.9 | 361.0 | 358.2 | 354.2 | 349.2 | 344.2 | 339.2 | 334.2 | 331.1 |
| 35° | 351.8 | 348.7 | 345.7 | 342.7 | 339.7 | 335.5 | 330.3 | 325.0 | 319.8 | 314.5 | 311.0 |
| 37.5° | 333.7 | 330.3 | 326.9 | 323.6 | 320.2 | 315.7 | 310.1 | 304.5 | 299.0 | 293.3 | 289.3 |
| 40° | 322.1 | 318.5 | 314.7 | 311.0 | 307.3 | 302.4 | 296.4 | 290.4 | 284.5 | 278.4 | 274.1 |
| 42.5° | 309.1 | 305.3 | 301.7 | 297.9 | 294.2 | 289.3 | 283.1 | 276.9 | 270.7 | 264.5 | 259.7 |
| 45° | 289.1 | 285.3 | 281.5 | 277.7 | 273.9 | 268.7 | 262.3 | 255.8 | 249.2 | 242.7 | 237.9 |
| 47.5° | 269.1 | 265.0 | 260.7 | 256.6 | 252.4 | 247.1 | 240.6 | 234.1 | 227.6 | 221.1 | 215.9 |
| 50° | 254.5 | 250.5 | 246.6 | 242.6 | 238.6 | 233.3 | 226.4 | 219.6 | 212.7 | 205.9 | 200.6 |
| 52.5° | 241.5 | 237.2 | 232.8 | 228.5 | 224.2 | 218.7 | 211.9 | 205.1 | 198.4 | 191.6 | 186.2 |
| 55° | 219.6 | 215.4 | 211.3 | 207.2 | 203.0 | 197.4 | 190.2 | 183.0 | 175.9 | 168.7 | 163.8 |
| 57.5° | 199.3 | 194.9 | 190.4 | 185.8 | 181.3 | 175.5 | 168.3 | 161.0 | 153.8 | 146.7 | 142.0 |
| 60° | 185.4 | 180.8 | 176.1 | 171.5 | 166.8 | 161.0 | 154.0 | 147.0 | 140.0 | 133.0 | 128.4 |
| 62.5° | 171.4 | 166.7 | 162.1 | 157.5 | 152.9 | 147.0 | 140.0 | 133.0 | 126.0 | 119.0 | 114.7 |
| 65° | 150.1 | 145.4 | 140.8 | 136.2 | 131.5 | 125.9 | 119.3 | 112.7 | 106.2 | 99.5 | 95.4 |
| 67.5° | 128.7 | 124.0 | 119.3 | 114.6 | 109.9 | 104.4 | 98.1 | 91.8 | 85.4 | 79.2 | 76.1 |
| 70° | 114.7 | 110.1 | 105.6 | 101.0 | 96.5 | 91.2 | 85.4 | 79.4 | 73.5 | 67.6 | 64.7 |
| 72.5° | 100.8 | 96.3 | 91.8 | 87.2 | 82.8 | 77.9 | 72.5 | 67.1 | 61.7 | 56.3 | 54.0 |
| 75° | 79.4 | 75.3 | 71.3 | 67.3 | 63.2 | 58.9 | 54.2 | 49.6 | 44.9 | 40.3 | 39.5 |
| 77.5° | 59.9 | 56.3 | 52.6 | 48.9 | 45.3 | 42.0 | 39.0 | 36.0 | 33.0 | 30.0 | 29.6 |
| 80° | 47.5 | 44.0 | 40.6 | 37.1 | 33.7 | 31.1 | 29.3 | 27.5 | 25.7 | 24.0 | 23.6 |
| 82.5° | 35.6 | 32.6 | 29.7 | 26.7 | 23.6 | 21.8 | 21.0 | 20.1 | 19.3 | 18.4 | 18.2 |
| 85° | 20.1 | 18.3 | 16.4 | 14.6 | 12.7 | 11.7 | 11.4 | 11.2 | 10.9 | 10.6 | 10.4 |
| 87.5° | 7.5 | 7.2 | 6.8 | 6.5 | 6.2 | 6.3 | 6.8 | 7.4 | 8.0 | 8.5 | 8.6 |
| 90° | 1.0 | 3.0 | 5.1 | 7.3 | 9.4 | 11.8 | 14.5 | 17.3 | 20.0 | 22.7 | 23.6 |
| 92.5° | 17.6 | 17.0 | 16.5 | 15.8 | 15.2 | 16.0 | 18.1 | 20.1 | 22.2 | 24.2 | 25.6 |
| 95° | 57.8 | 49.2 | 40.5 | 31.9 | 23.2 | 20.1 | 22.4 | 24.7 | 27.1 | 29.4 | 30.8 |
| 97.5° | 116.1 | 112.3 | 108.4 | 104.5 | 100.6 | 91.2 | 76.0 | 60.8 | 45.7 | 30.5 | 32.2 |
| 100° | 160.0 | 164.3 | 168.5 | 172.7 | 176.9 | 162.6 | 129.8 | 96.9 | 64.1 | 31.2 | 32.9 |
| 102.5° | 210.1 | 213.1 | 216.1 | 219.2 | 222.3 | 205.8 | 169.9 | 134.0 | 98.2 | 62.3 | 57.1 |
| 105° | 282.3 | 284.6 | 286.9 | 289.2 | 291.6 | 283.2 | 264.2 | 245.3 | 226.4 | 207.4 | 170.2 |
| 107.5° | 358.4 | 360.3 | 362.2 | 363.9 | 365.8 | 368.3 | 371.3 | 374.2 | 377.2 | 380.3 | 352.9 |
| 110° | 409.2 | 410.9 | 412.5 | 414.3 | 416.0 | 417.9 | 420.3 | 422.6 | 424.9 | 427.2 | 420.3 |



TEST NUMBER: P332267-930

CATALOG NUMBER: S123RDIP-S340D1195U930-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 457.7 | 459.2 | 460.7 | 462.3 | 463.7 | 465.7 | 468.0 | 470.3 | 472.6 | 474.9 | 475.1 |
| 115° | 529.5 | 530.8 | 532.0 | 533.3 | 534.5 | 536.1 | 538.0 | 539.9 | 541.8 | 543.7 | 545.8 |
| 117.5° | 599.0 | 600.5 | 602.1 | 603.7 | 605.3 | 606.5 | 607.5 | 608.5 | 609.4 | 610.4 | 612.0 |
| 120° | 642.2 | 644.1 | 646.0 | 647.9 | 649.8 | 651.1 | 651.7 | 652.3 | 653.0 | 653.5 | 655.3 |
| 122.5° | 686.2 | 687.7 | 689.3 | 690.8 | 692.4 | 693.6 | 694.4 | 695.2 | 695.9 | 696.8 | 698.0 |
| 125° | 746.4 | 748.1 | 749.7 | 751.5 | 753.2 | 754.4 | 755.2 | 756.1 | 756.9 | 757.7 | 758.2 |
| 127.5° | 804.8 | 806.4 | 808.1 | 809.8 | 811.5 | 812.9 | 813.8 | 814.9 | 815.9 | 816.8 | 817.6 |
| 130° | 841.1 | 842.9 | 844.5 | 846.2 | 847.8 | 849.1 | 849.9 | 850.8 | 851.7 | 852.5 | 853.4 |
| 132.5° | 876.0 | 877.7 | 879.4 | 881.0 | 882.7 | 883.9 | 884.6 | 885.3 | 885.9 | 886.6 | 887.5 |
| 135° | 929.2 | 930.5 | 931.7 | 933.0 | 934.3 | 935.3 | 936.2 | 937.0 | 937.8 | 938.7 | 939.3 |
| 137.5° | 974.7 | 976.3 | 977.9 | 979.5 | 981.1 | 982.1 | 982.6 | 983.1 | 983.5 | 984.0 | 985.0 |
| 140° | 1005.0 | 1006.2 | 1007.5 | 1008.8 | 1010.1 | 1011.0 | 1011.6 | 1012.3 | 1012.9 | 1013.5 | 1014.4 |
| 142.5° | 1033.1 | 1034.3 | 1035.6 | 1036.8 | 1038.1 | 1039.0 | 1039.7 | 1040.3 | 1041.0 | 1041.5 | 1042.3 |
| 145° | 1072.3 | 1073.7 | 1075.2 | 1076.7 | 1078.2 | 1079.1 | 1079.5 | 1079.9 | 1080.4 | 1080.8 | 1081.2 |
| 147.5° | 1109.2 | 1110.2 | 1111.2 | 1112.1 | 1113.0 | 1113.8 | 1114.2 | 1114.6 | 1115.0 | 1115.4 | 1115.9 |
| 150° | 1132.0 | 1132.5 | 1133.2 | 1133.8 | 1134.5 | 1135.0 | 1135.4 | 1135.8 | 1136.3 | 1136.7 | 1137.1 |
| 152.5° | 1152.4 | 1152.7 | 1153.0 | 1153.2 | 1153.6 | 1153.8 | 1154.1 | 1154.4 | 1154.6 | 1154.9 | 1155.6 |
| 155° | 1181.2 | 1180.8 | 1180.3 | 1179.9 | 1179.5 | 1179.4 | 1179.6 | 1179.8 | 1180.1 | 1180.2 | 1181.3 |
| 157.5° | 1203.5 | 1203.5 | 1203.5 | 1203.4 | 1203.4 | 1203.2 | 1203.1 | 1202.8 | 1202.6 | 1202.4 | 1203.7 |
| 160° | 1217.2 | 1217.0 | 1216.8 | 1216.6 | 1216.3 | 1216.1 | 1215.9 | 1215.7 | 1215.5 | 1215.3 | 1216.6 |
| 162.5° | 1230.0 | 1229.6 | 1229.0 | 1228.4 | 1227.8 | 1227.5 | 1227.3 | 1227.1 | 1226.9 | 1226.6 | 1228.1 |
| 165° | 1245.6 | 1245.0 | 1244.3 | 1243.7 | 1243.1 | 1242.7 | 1242.4 | 1242.2 | 1242.0 | 1241.8 | 1243.5 |
| 167.5° | 1257.8 | 1256.9 | 1256.1 | 1255.2 | 1254.3 | 1253.9 | 1253.9 | 1253.9 | 1253.9 | 1253.9 | 1255.6 |
| 170° | 1264.5 | 1263.7 | 1262.9 | 1262.0 | 1261.2 | 1260.8 | 1260.8 | 1260.8 | 1260.8 | 1260.8 | 1262.4 |
| 172.5° | 1269.1 | 1268.1 | 1267.1 | 1266.1 | 1265.0 | 1264.6 | 1264.8 | 1264.9 | 1265.1 | 1265.3 | 1267.0 |
| 175° | 1275.0 | 1273.9 | 1272.8 | 1271.8 | 1270.7 | 1270.3 | 1270.6 | 1270.7 | 1271.0 | 1271.1 | 1272.7 |
| 177.5° | 1276.5 | 1275.6 | 1274.8 | 1274.0 | 1273.1 | 1272.8 | 1272.9 | 1273.1 | 1273.3 | 1273.4 | 1274.8 |
| 180° | 1275.0 | 1275.0 | 1275.0 | 1275.0 | 1275.0 | 1275.0 | 1275.0 | 1275.0 | 1275.0 | 1275.0 | 1275.0 |



TEST NUMBER: P332267-930

CATALOG NUMBER: S123RDIP-S340D1195U930-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 | 468.4 |
| 2.5° | 466.5 | 467.2 | 468.1 | 468.3 | 468.2 | 468.1 | 467.9 | 467.8 |
| 5° | 463.5 | 464.2 | 465.0 | 465.3 | 465.1 | 465.0 | 464.8 | 464.6 |
| 7.5° | 457.0 | 457.4 | 457.8 | 457.9 | 457.5 | 457.3 | 457.0 | 456.7 |
| 10° | 451.1 | 451.2 | 451.3 | 451.1 | 450.7 | 450.3 | 449.8 | 449.4 |
| 12.5° | 443.8 | 443.8 | 443.8 | 443.4 | 443.0 | 442.5 | 442.0 | 441.5 |
| 15° | 431.0 | 430.6 | 430.2 | 429.7 | 429.2 | 428.5 | 428.0 | 427.4 |
| 17.5° | 415.9 | 415.0 | 414.1 | 413.2 | 412.3 | 411.4 | 410.6 | 409.7 |
| 20° | 405.4 | 404.3 | 403.2 | 402.2 | 401.1 | 400.1 | 399.2 | 398.1 |
| 22.5° | 394.3 | 392.9 | 391.5 | 390.4 | 389.4 | 388.5 | 387.5 | 386.6 |
| 25° | 375.9 | 374.2 | 372.4 | 371.0 | 370.1 | 369.2 | 368.3 | 367.4 |
| 27.5° | 356.0 | 353.6 | 351.1 | 349.2 | 347.7 | 346.3 | 345.0 | 343.5 |
| 30° | 341.9 | 339.0 | 336.1 | 334.0 | 332.6 | 331.3 | 330.0 | 328.6 |
| 32.5° | 327.9 | 324.8 | 321.6 | 319.4 | 318.0 | 316.6 | 315.1 | 313.7 |
| 35° | 307.3 | 303.6 | 300.0 | 297.4 | 296.0 | 294.4 | 292.9 | 291.4 |
| 37.5° | 285.1 | 281.0 | 276.9 | 273.9 | 272.0 | 270.1 | 268.2 | 266.4 |
| 40° | 269.7 | 265.3 | 260.9 | 257.7 | 255.8 | 253.9 | 251.9 | 250.0 |
| 42.5° | 254.9 | 250.1 | 245.3 | 242.1 | 240.3 | 238.6 | 236.8 | 235.1 |
| 45° | 233.1 | 228.3 | 223.5 | 220.0 | 218.1 | 216.1 | 214.0 | 212.0 |
| 47.5° | 210.6 | 205.4 | 200.2 | 196.7 | 194.9 | 193.1 | 191.2 | 189.4 |
| 50° | 195.4 | 190.2 | 185.0 | 181.4 | 179.4 | 177.5 | 175.5 | 173.6 |
| 52.5° | 180.8 | 175.3 | 169.9 | 166.3 | 164.5 | 162.8 | 161.1 | 159.3 |
| 55° | 158.9 | 154.0 | 149.1 | 145.8 | 144.1 | 142.4 | 140.7 | 139.0 |
| 57.5° | 137.4 | 132.7 | 128.2 | 125.1 | 123.7 | 122.2 | 120.8 | 119.4 |
| 60° | 123.8 | 119.3 | 114.7 | 111.7 | 110.3 | 108.8 | 107.5 | 106.0 |
| 62.5° | 110.4 | 106.2 | 101.8 | 98.9 | 97.4 | 96.0 | 94.4 | 92.9 |
| 65° | 91.2 | 87.2 | 83.0 | 80.5 | 79.5 | 78.6 | 77.7 | 76.7 |
| 67.5° | 73.0 | 69.9 | 66.8 | 64.7 | 63.8 | 62.8 | 61.8 | 60.8 |
| 70° | 61.7 | 58.8 | 55.8 | 53.9 | 52.9 | 52.0 | 51.0 | 50.1 |
| 72.5° | 51.5 | 49.2 | 46.7 | 45.3 | 44.9 | 44.5 | 44.2 | 43.8 |
| 75° | 38.6 | 37.7 | 36.9 | 36.4 | 36.2 | 36.0 | 35.9 | 35.7 |
| 77.5° | 29.1 | 28.6 | 28.2 | 27.9 | 27.7 | 27.6 | 27.4 | 27.2 |
| 80° | 23.4 | 23.2 | 22.9 | 22.7 | 22.5 | 22.3 | 22.2 | 22.0 |
| 82.5° | 17.9 | 17.7 | 17.4 | 17.3 | 17.3 | 17.2 | 17.2 | 17.2 |
| 85° | 10.3 | 10.1 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 | 9.9 |
| 87.5° | 8.7 | 8.8 | 8.9 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 |
| 90° | 24.4 | 25.3 | 26.1 | 26.7 | 27.1 | 27.6 | 28.0 | 28.5 |
| 92.5° | 26.9 | 28.3 | 29.7 | 30.4 | 30.7 | 31.0 | 31.2 | 31.5 |
| 95° | 32.3 | 33.8 | 35.2 | 36.0 | 36.0 | 36.0 | 36.0 | 36.0 |
| 97.5° | 33.8 | 35.5 | 37.3 | 38.2 | 38.4 | 38.6 | 38.8 | 39.1 |
| 100° | 34.7 | 36.3 | 38.0 | 39.0 | 39.1 | 39.4 | 39.5 | 39.8 |
| 102.5° | 51.9 | 46.6 | 41.4 | 39.1 | 39.4 | 39.8 | 40.2 | 40.5 |
| 105° | 132.9 | 95.6 | 58.4 | 40.0 | 40.4 | 40.8 | 41.3 | 41.7 |
| 107.5° | 325.5 | 298.2 | 270.9 | 243.2 | 215.2 | 187.0 | 159.0 | 130.9 |
| 110° | 413.3 | 406.3 | 399.4 | 380.9 | 350.8 | 320.7 | 290.6 | 260.5 |



TEST NUMBER: P332267-930

CATALOG NUMBER: S123RDIP-S340D1195U930-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 475.2 | 475.3 | 475.5 | 472.3 | 465.9 | 459.6 | 453.2 | 446.9 |
| 115° | 547.9 | 550.0 | 552.1 | 553.6 | 554.4 | 555.3 | 556.1 | 556.9 |
| 117.5° | 613.8 | 615.5 | 617.1 | 618.1 | 618.2 | 618.4 | 618.6 | 618.7 |
| 120° | 657.0 | 658.6 | 660.3 | 661.1 | 661.1 | 661.1 | 661.1 | 661.1 |
| 122.5° | 699.1 | 700.3 | 701.5 | 702.1 | 702.3 | 702.5 | 702.7 | 702.9 |
| 125° | 758.6 | 759.0 | 759.5 | 759.9 | 760.3 | 760.8 | 761.2 | 761.6 |
| 127.5° | 818.2 | 818.9 | 819.5 | 819.7 | 819.3 | 818.9 | 818.5 | 818.0 |
| 130° | 854.2 | 855.0 | 855.9 | 856.1 | 855.7 | 855.2 | 854.8 | 854.4 |
| 132.5° | 888.3 | 889.2 | 890.0 | 890.1 | 889.5 | 888.9 | 888.4 | 887.7 |
| 135° | 940.0 | 940.6 | 941.3 | 941.3 | 940.6 | 940.0 | 939.3 | 938.7 |
| 137.5° | 986.0 | 987.0 | 988.0 | 988.3 | 987.9 | 987.5 | 987.1 | 986.6 |
| 140° | 1015.2 | 1016.0 | 1016.9 | 1017.1 | 1016.7 | 1016.3 | 1015.9 | 1015.5 |
| 142.5° | 1042.9 | 1043.6 | 1044.2 | 1044.3 | 1043.7 | 1043.1 | 1042.5 | 1042.0 |
| 145° | 1081.7 | 1082.1 | 1082.5 | 1082.6 | 1082.6 | 1082.6 | 1082.6 | 1082.6 |
| 147.5° | 1116.3 | 1116.7 | 1117.1 | 1116.9 | 1115.9 | 1114.9 | 1113.9 | 1113.0 |
| 150° | 1137.5 | 1137.9 | 1138.3 | 1138.2 | 1137.6 | 1137.0 | 1136.4 | 1135.7 |
| 152.5° | 1156.3 | 1157.2 | 1157.9 | 1157.8 | 1156.8 | 1155.8 | 1154.9 | 1153.9 |
| 155° | 1182.3 | 1183.4 | 1184.5 | 1184.3 | 1183.1 | 1181.9 | 1180.6 | 1179.3 |
| 157.5° | 1204.9 | 1206.2 | 1207.5 | 1207.3 | 1205.7 | 1204.0 | 1202.3 | 1200.7 |
| 160° | 1217.8 | 1219.0 | 1220.3 | 1220.3 | 1218.8 | 1217.3 | 1215.8 | 1214.3 |
| 162.5° | 1229.6 | 1230.9 | 1232.4 | 1232.4 | 1231.1 | 1229.8 | 1228.5 | 1227.2 |
| 165° | 1245.2 | 1246.8 | 1248.5 | 1248.6 | 1247.2 | 1245.7 | 1244.2 | 1242.8 |
| 167.5° | 1257.3 | 1259.0 | 1260.7 | 1260.7 | 1259.0 | 1257.3 | 1255.6 | 1253.9 |
| 170° | 1264.1 | 1265.8 | 1267.5 | 1267.5 | 1265.8 | 1264.1 | 1262.4 | 1260.8 |
| 172.5° | 1268.7 | 1270.3 | 1272.0 | 1271.9 | 1270.1 | 1268.3 | 1266.4 | 1264.5 |
| 175° | 1274.1 | 1275.6 | 1277.1 | 1276.9 | 1275.3 | 1273.6 | 1271.9 | 1270.2 |
| 177.5° | 1276.1 | 1277.5 | 1278.8 | 1278.6 | 1277.0 | 1275.3 | 1273.6 | 1271.9 |
| 180° | 1275.0 | 1275.0 | 1275.0 | 1275.0 | 1275.0 | 1275.0 | 1275.0 | 1275.0 |

(END OF REPORT)