

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: P332261-840

Luminaire Tested: **S123RDIP-S340D1025U840-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332261-840
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-S340D1025U840-4F0-1E-UDD-F
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 1025 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5451.9 lumens
Efficiency: N/A
Efficacy: 146.2 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

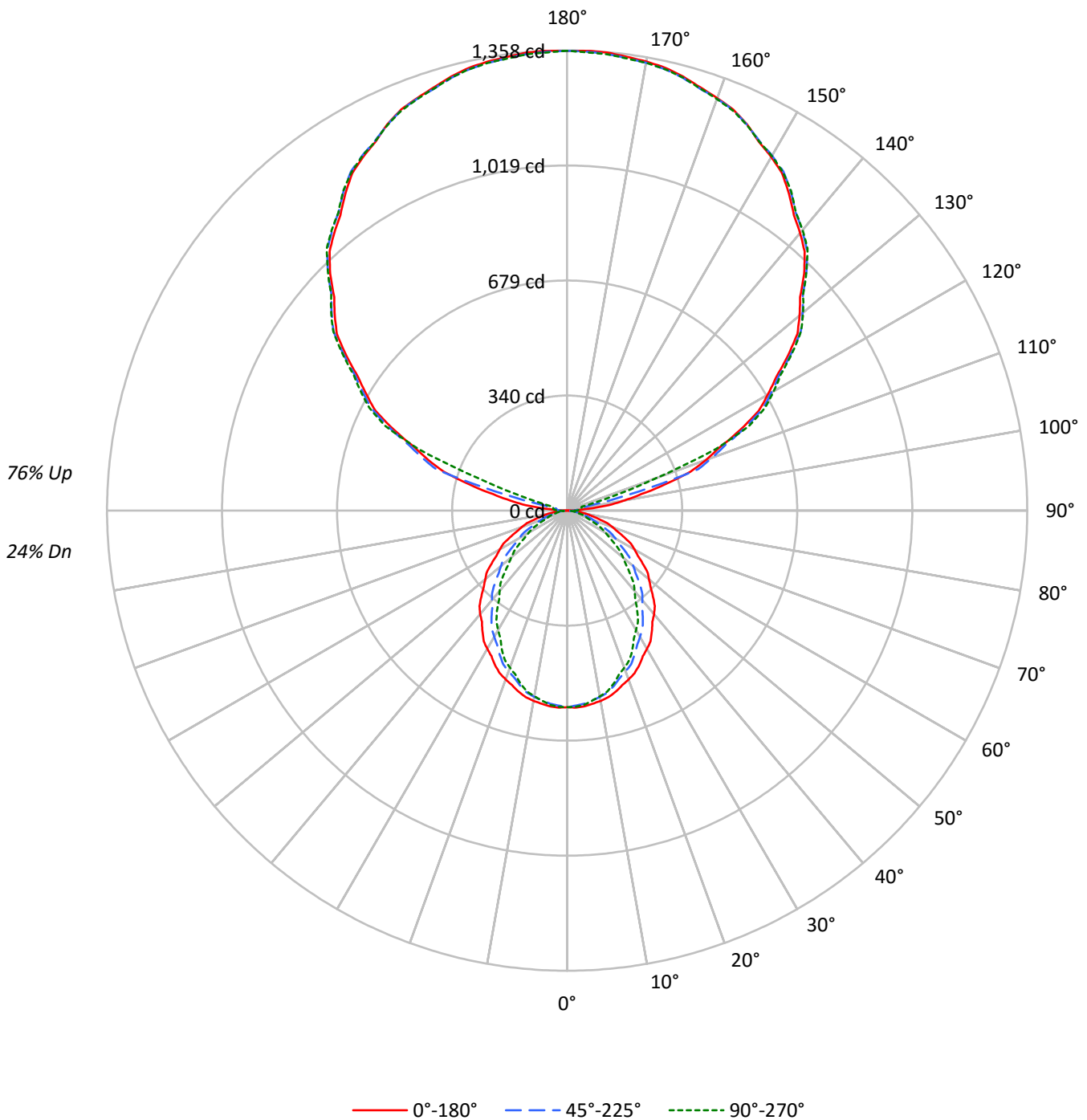
Input Watts (W): 37.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332261-840

CATALOG NUMBER: S123RDIP-S340D1025U840-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P332261-840

CATALOG NUMBER: S123RDIP-S340D1025U840-4F0-1E-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 | 101 | 101 | 101 | 101 | 90 | 90 | 90 | 90 | 69 | 69 | 69 | 50 | 50 | 50 | 32 | 32 | 32 | 24 |
| 1 | 92 | 88 | 84 | 81 | 82 | 78 | 75 | 73 | 60 | 58 | 57 | 44 | 43 | 42 | 29 | 28 | 28 | 21 |
| 2 | 84 | 77 | 71 | 66 | 74 | 69 | 64 | 60 | 53 | 50 | 47 | 39 | 37 | 35 | 25 | 24 | 23 | 17 |
| 3 | 77 | 68 | 61 | 55 | 68 | 61 | 55 | 50 | 47 | 43 | 40 | 34 | 32 | 30 | 23 | 21 | 20 | 15 |
| 4 | 70 | 60 | 52 | 47 | 62 | 54 | 47 | 42 | 42 | 37 | 34 | 31 | 28 | 25 | 20 | 19 | 17 | 13 |
| 5 | 64 | 53 | 46 | 40 | 57 | 48 | 41 | 36 | 37 | 33 | 29 | 27 | 24 | 22 | 18 | 17 | 15 | 11 |
| 6 | 59 | 48 | 40 | 34 | 52 | 43 | 36 | 31 | 33 | 29 | 25 | 25 | 22 | 19 | 17 | 15 | 13 | 10 |
| 7 | 55 | 43 | 35 | 30 | 48 | 39 | 32 | 27 | 30 | 26 | 22 | 22 | 19 | 17 | 15 | 13 | 12 | 9 |
| 8 | 50 | 39 | 31 | 26 | 45 | 35 | 29 | 24 | 27 | 23 | 20 | 21 | 17 | 15 | 14 | 12 | 11 | 8 |
| 9 | 47 | 35 | 28 | 23 | 42 | 32 | 26 | 21 | 25 | 21 | 17 | 19 | 16 | 13 | 13 | 11 | 10 | 7 |
| 10 | 44 | 32 | 25 | 21 | 39 | 29 | 23 | 19 | 23 | 19 | 16 | 17 | 14 | 12 | 12 | 10 | 9 | 7 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 6245 | 6245 | 6245 |
| 5° | 6269 | 6183 | 6218 |
| 10° | 6233 | 6105 | 6084 |
| 15° | 6167 | 5962 | 5899 |
| 20° | 6074 | 5783 | 5648 |
| 25° | 5980 | 5583 | 5404 |
| 30° | 5854 | 5351 | 5059 |
| 35° | 5727 | 5119 | 4742 |
| 40° | 5606 | 4846 | 4350 |
| 45° | 5451 | 4576 | 3997 |
| 50° | 5280 | 4270 | 3600 |
| 55° | 5104 | 3920 | 3232 |
| 60° | 4943 | 3546 | 2827 |
| 65° | 4735 | 3140 | 2420 |
| 70° | 4472 | 2634 | 1954 |
| 75° | 4092 | 2075 | 1838 |
| 80° | 3645 | 1841 | 1692 |
| 85° | 3075 | 1618 | 1507 |



TEST NUMBER: P332261-840

CATALOG NUMBER: S123RDIP-S340D1025U840-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 54.5 | 1.0 |
| 10°-20° | 151.6 | 2.8 |
| 20°-30° | 218.3 | 4.0 |
| 30°-40° | 245.9 | 4.5 |
| 40°-50° | 235.2 | 4.3 |
| 50°-60° | 192.6 | 3.5 |
| 60°-70° | 130.0 | 2.4 |
| 70°-80° | 65.4 | 1.2 |
| 80°-90° | 21.1 | 0.4 |
| 90°-100° | 49.3 | 0.9 |
| 100°-110° | 235.1 | 4.3 |
| 110°-120° | 564.7 | 10.4 |
| 120°-130° | 719.1 | 13.2 |
| 130°-140° | 768.3 | 14.1 |
| 140°-150° | 718.5 | 13.2 |
| 150°-160° | 579.5 | 10.6 |
| 160°-170° | 374.0 | 6.9 |
| 170°-180° | 128.9 | 2.4 |
| 0°-30° | 424.3 | 7.8 |
| 0°-40° | 670.2 | 12.3 |
| 0°-60° | 1098.1 | 20.1 |
| 0°-90° | 1314.5 | 24.1 |
| 90°-120° | 849.1 | 15.6 |
| 90°-150° | 3055.0 | 56.0 |
| 90°-180° | 4137.0 | 75.9 |
| 0°-180° | 5451.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 580 | 580 | 580 | 580 | 580 | |
| 5° | 580 | 578 | 572 | 576 | 576 | 55 |
| 15° | 553 | 548 | 535 | 533 | 529 | 156 |
| 25° | 504 | 491 | 470 | 460 | 455 | 231 |
| 35° | 436 | 418 | 390 | 370 | 361 | 273 |
| 45° | 358 | 336 | 301 | 275 | 263 | 276 |
| 55° | 272 | 248 | 209 | 183 | 172 | 244 |
| 65° | 186 | 159 | 123 | 101 | 95 | 184 |
| 75° | 98 | 76 | 50 | 45 | 44 | 105 |
| 85° | 25 | 15 | 13 | 12 | 12 | 28 |
| 90° | 1 | 11 | 24 | 28 | 30 | 4 |
| 95° | 62 | 23 | 31 | 38 | 38 | 76 |
| 105° | 300 | 306 | 221 | 52 | 44 | 318 |
| 115° | 564 | 570 | 579 | 588 | 593 | 556 |
| 125° | 794 | 802 | 806 | 808 | 810 | 709 |
| 135° | 989 | 995 | 999 | 1002 | 999 | 761 |
| 145° | 1141 | 1148 | 1150 | 1152 | 1152 | 714 |
| 155° | 1257 | 1255 | 1256 | 1260 | 1255 | 579 |
| 165° | 1326 | 1323 | 1322 | 1329 | 1322 | 374 |
| 175° | 1357 | 1352 | 1353 | 1359 | 1352 | 129 |
| 180° | 1357 | 1357 | 1357 | 1357 | 1357 | |



TEST NUMBER: P332261-840

CATALOG NUMBER: S123RDIP-S340D1025U840-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 580.2 | 580.2 | 580.2 | 580.2 | 580.2 | 580.2 | 580.2 | 580.2 | 580.2 | 580.2 | 580.2 |
| 2.5° | 582.1 | 581.7 | 581.4 | 581.1 | 580.8 | 580.1 | 579.1 | 578.0 | 577.0 | 576.0 | 576.9 |
| 5° | 580.2 | 579.7 | 579.2 | 578.7 | 578.0 | 577.2 | 575.9 | 574.7 | 573.4 | 572.2 | 573.1 |
| 7.5° | 574.8 | 574.2 | 573.7 | 573.1 | 572.6 | 571.5 | 569.9 | 568.3 | 566.5 | 564.9 | 565.4 |
| 10° | 570.3 | 569.6 | 568.9 | 568.2 | 567.3 | 566.0 | 564.2 | 562.3 | 560.4 | 558.6 | 558.7 |
| 12.5° | 563.9 | 563.1 | 562.3 | 561.5 | 560.7 | 559.1 | 556.7 | 554.5 | 552.2 | 549.9 | 549.8 |
| 15° | 553.4 | 552.2 | 551.1 | 549.9 | 548.8 | 546.7 | 543.8 | 540.9 | 538.0 | 535.0 | 534.5 |
| 17.5° | 540.1 | 538.8 | 537.5 | 536.0 | 534.7 | 532.2 | 528.5 | 524.7 | 521.1 | 517.4 | 516.2 |
| 20° | 530.3 | 528.7 | 526.9 | 525.3 | 523.6 | 520.8 | 516.8 | 512.8 | 508.9 | 504.9 | 503.5 |
| 22.5° | 519.4 | 517.5 | 515.5 | 513.6 | 511.7 | 508.7 | 504.4 | 500.2 | 495.9 | 491.7 | 490.0 |
| 25° | 503.5 | 500.9 | 498.3 | 495.6 | 493.0 | 489.3 | 484.5 | 479.7 | 474.8 | 470.1 | 467.9 |
| 27.5° | 484.2 | 481.3 | 478.4 | 475.5 | 472.6 | 468.6 | 463.2 | 457.8 | 452.4 | 447.1 | 444.0 |
| 30° | 471.0 | 467.9 | 464.7 | 461.6 | 458.5 | 453.9 | 448.1 | 442.2 | 436.4 | 430.5 | 427.0 |
| 32.5° | 457.9 | 454.2 | 450.7 | 447.2 | 443.6 | 438.8 | 432.5 | 426.4 | 420.2 | 413.9 | 410.1 |
| 35° | 435.8 | 431.9 | 428.2 | 424.4 | 420.7 | 415.6 | 409.1 | 402.5 | 396.1 | 389.6 | 385.2 |
| 37.5° | 413.3 | 409.1 | 405.0 | 400.8 | 396.6 | 391.0 | 384.2 | 377.2 | 370.3 | 363.3 | 358.3 |
| 40° | 399.0 | 394.5 | 389.8 | 385.3 | 380.6 | 374.6 | 367.2 | 359.7 | 352.3 | 344.9 | 339.5 |
| 42.5° | 382.8 | 378.2 | 373.7 | 369.0 | 364.5 | 358.3 | 350.6 | 343.0 | 335.3 | 327.6 | 321.6 |
| 45° | 358.1 | 353.4 | 348.7 | 344.0 | 339.2 | 332.9 | 324.9 | 316.8 | 308.7 | 300.6 | 294.7 |
| 47.5° | 333.4 | 328.2 | 323.0 | 317.8 | 312.7 | 306.1 | 298.0 | 289.9 | 282.0 | 273.9 | 267.4 |
| 50° | 315.3 | 310.3 | 305.5 | 300.5 | 295.6 | 288.9 | 280.4 | 272.0 | 263.5 | 255.0 | 248.5 |
| 52.5° | 299.1 | 293.8 | 288.4 | 283.1 | 277.7 | 270.8 | 262.5 | 254.1 | 245.7 | 237.3 | 230.7 |
| 55° | 272.0 | 266.8 | 261.8 | 256.6 | 251.5 | 244.5 | 235.6 | 226.7 | 217.8 | 208.9 | 202.9 |
| 57.5° | 246.9 | 241.4 | 235.8 | 230.1 | 224.6 | 217.3 | 208.4 | 199.4 | 190.6 | 181.7 | 175.9 |
| 60° | 229.6 | 223.9 | 218.1 | 212.4 | 206.6 | 199.4 | 190.8 | 182.1 | 173.4 | 164.7 | 159.1 |
| 62.5° | 212.3 | 206.5 | 200.8 | 195.1 | 189.3 | 182.1 | 173.4 | 164.7 | 156.0 | 147.3 | 142.1 |
| 65° | 185.9 | 180.2 | 174.4 | 168.6 | 162.9 | 155.9 | 147.7 | 139.6 | 131.5 | 123.3 | 118.2 |
| 67.5° | 159.5 | 153.6 | 147.7 | 142.0 | 136.1 | 129.4 | 121.5 | 113.7 | 105.8 | 98.1 | 94.2 |
| 70° | 142.1 | 136.4 | 130.8 | 125.1 | 119.6 | 113.0 | 105.7 | 98.4 | 91.1 | 83.7 | 80.1 |
| 72.5° | 124.8 | 119.3 | 113.7 | 108.1 | 102.5 | 96.4 | 89.8 | 83.1 | 76.4 | 69.8 | 66.9 |
| 75° | 98.4 | 93.3 | 88.3 | 83.3 | 78.3 | 72.9 | 67.2 | 61.4 | 55.6 | 49.9 | 48.9 |
| 77.5° | 74.2 | 69.7 | 65.1 | 60.6 | 56.1 | 52.0 | 48.3 | 44.5 | 40.9 | 37.2 | 36.7 |
| 80° | 58.8 | 54.5 | 50.3 | 45.9 | 41.7 | 38.5 | 36.3 | 34.0 | 31.8 | 29.7 | 29.3 |
| 82.5° | 44.1 | 40.4 | 36.8 | 33.0 | 29.3 | 27.0 | 26.0 | 24.9 | 23.9 | 22.8 | 22.5 |
| 85° | 24.9 | 22.6 | 20.3 | 18.1 | 15.8 | 14.4 | 14.1 | 13.8 | 13.5 | 13.1 | 12.9 |
| 87.5° | 9.2 | 8.8 | 8.3 | 7.8 | 7.4 | 7.4 | 8.0 | 8.6 | 9.2 | 9.7 | 9.8 |
| 90° | 1.0 | 3.2 | 5.5 | 7.8 | 10.0 | 12.5 | 15.5 | 18.4 | 21.3 | 24.2 | 25.0 |
| 92.5° | 18.8 | 18.1 | 17.5 | 16.9 | 16.3 | 17.1 | 19.2 | 21.4 | 23.6 | 25.9 | 27.3 |
| 95° | 61.5 | 52.3 | 43.1 | 33.9 | 24.7 | 21.4 | 23.8 | 26.4 | 28.8 | 31.2 | 32.8 |
| 97.5° | 123.6 | 119.5 | 115.3 | 111.2 | 107.0 | 96.9 | 80.9 | 64.7 | 48.6 | 32.4 | 34.2 |
| 100° | 170.4 | 174.8 | 179.4 | 183.8 | 188.2 | 173.0 | 138.0 | 103.1 | 68.2 | 33.2 | 35.0 |
| 102.5° | 223.6 | 226.8 | 230.0 | 233.3 | 236.5 | 219.0 | 180.9 | 142.7 | 104.5 | 66.3 | 60.8 |
| 105° | 300.3 | 302.9 | 305.3 | 307.8 | 310.2 | 301.3 | 281.2 | 261.1 | 241.0 | 220.8 | 181.1 |
| 107.5° | 381.4 | 383.4 | 385.4 | 387.4 | 389.3 | 391.9 | 395.1 | 398.3 | 401.4 | 404.7 | 375.6 |
| 110° | 435.5 | 437.3 | 439.0 | 440.8 | 442.6 | 444.7 | 447.2 | 449.7 | 452.1 | 454.6 | 447.2 |



TEST NUMBER: P332261-840

CATALOG NUMBER: S123RDIP-S340D1025U840-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 487.1 | 488.7 | 490.3 | 491.9 | 493.5 | 495.5 | 498.1 | 500.5 | 502.9 | 505.4 | 505.5 |
| 115° | 563.5 | 564.8 | 566.1 | 567.5 | 568.9 | 570.6 | 572.5 | 574.5 | 576.5 | 578.6 | 580.9 |
| 117.5° | 637.4 | 639.1 | 640.8 | 642.5 | 644.1 | 645.4 | 646.4 | 647.5 | 648.5 | 649.5 | 651.4 |
| 120° | 683.4 | 685.4 | 687.4 | 689.4 | 691.5 | 692.9 | 693.5 | 694.2 | 694.9 | 695.5 | 697.3 |
| 122.5° | 730.2 | 731.8 | 733.5 | 735.2 | 736.8 | 738.1 | 738.9 | 739.8 | 740.6 | 741.4 | 742.8 |
| 125° | 794.3 | 796.1 | 797.9 | 799.7 | 801.4 | 802.8 | 803.8 | 804.6 | 805.5 | 806.4 | 806.9 |
| 127.5° | 856.4 | 858.2 | 860.0 | 861.7 | 863.5 | 864.9 | 866.1 | 867.2 | 868.2 | 869.3 | 870.0 |
| 130° | 895.1 | 896.9 | 898.7 | 900.5 | 902.3 | 903.6 | 904.5 | 905.4 | 906.3 | 907.2 | 908.1 |
| 132.5° | 932.2 | 934.0 | 935.7 | 937.6 | 939.4 | 940.6 | 941.3 | 942.0 | 942.8 | 943.5 | 944.4 |
| 135° | 988.9 | 990.2 | 991.5 | 992.9 | 994.2 | 995.3 | 996.2 | 997.1 | 998.0 | 999.0 | 999.6 |
| 137.5° | 1037.2 | 1038.9 | 1040.7 | 1042.4 | 1044.0 | 1045.1 | 1045.6 | 1046.1 | 1046.6 | 1047.1 | 1048.1 |
| 140° | 1069.4 | 1070.9 | 1072.2 | 1073.5 | 1074.9 | 1075.9 | 1076.5 | 1077.2 | 1077.9 | 1078.5 | 1079.4 |
| 142.5° | 1099.3 | 1100.7 | 1102.0 | 1103.4 | 1104.7 | 1105.7 | 1106.4 | 1107.0 | 1107.7 | 1108.4 | 1109.1 |
| 145° | 1141.0 | 1142.7 | 1144.2 | 1145.8 | 1147.3 | 1148.3 | 1148.8 | 1149.2 | 1149.6 | 1150.1 | 1150.5 |
| 147.5° | 1180.3 | 1181.4 | 1182.5 | 1183.5 | 1184.5 | 1185.2 | 1185.7 | 1186.1 | 1186.6 | 1187.0 | 1187.5 |
| 150° | 1204.6 | 1205.3 | 1205.9 | 1206.6 | 1207.2 | 1207.8 | 1208.2 | 1208.7 | 1209.1 | 1209.6 | 1210.0 |
| 152.5° | 1226.3 | 1226.7 | 1227.0 | 1227.3 | 1227.6 | 1227.9 | 1228.1 | 1228.4 | 1228.7 | 1228.9 | 1229.7 |
| 155° | 1257.0 | 1256.5 | 1256.1 | 1255.7 | 1255.2 | 1255.1 | 1255.3 | 1255.5 | 1255.8 | 1256.0 | 1257.1 |
| 157.5° | 1280.7 | 1280.7 | 1280.7 | 1280.6 | 1280.6 | 1280.4 | 1280.2 | 1280.0 | 1279.8 | 1279.5 | 1280.9 |
| 160° | 1295.3 | 1295.1 | 1294.8 | 1294.6 | 1294.3 | 1294.1 | 1293.9 | 1293.7 | 1293.4 | 1293.2 | 1294.6 |
| 162.5° | 1309.0 | 1308.4 | 1307.8 | 1307.3 | 1306.7 | 1306.3 | 1306.1 | 1305.8 | 1305.6 | 1305.4 | 1306.9 |
| 165° | 1325.5 | 1324.8 | 1324.1 | 1323.5 | 1322.8 | 1322.4 | 1322.1 | 1321.9 | 1321.7 | 1321.5 | 1323.2 |
| 167.5° | 1338.4 | 1337.6 | 1336.7 | 1335.7 | 1334.8 | 1334.3 | 1334.3 | 1334.3 | 1334.3 | 1334.3 | 1336.2 |
| 170° | 1345.6 | 1344.7 | 1343.9 | 1343.0 | 1342.1 | 1341.6 | 1341.6 | 1341.6 | 1341.6 | 1341.6 | 1343.4 |
| 172.5° | 1350.5 | 1349.5 | 1348.4 | 1347.3 | 1346.3 | 1345.7 | 1345.9 | 1346.2 | 1346.3 | 1346.5 | 1348.3 |
| 175° | 1356.8 | 1355.6 | 1354.5 | 1353.4 | 1352.3 | 1351.8 | 1352.0 | 1352.3 | 1352.5 | 1352.7 | 1354.3 |
| 177.5° | 1358.4 | 1357.5 | 1356.6 | 1355.6 | 1354.8 | 1354.4 | 1354.6 | 1354.8 | 1354.9 | 1355.1 | 1356.6 |
| 180° | 1356.8 | 1356.8 | 1356.8 | 1356.8 | 1356.8 | 1356.8 | 1356.8 | 1356.8 | 1356.8 | 1356.8 | 1356.8 |



TEST NUMBER: P332261-840

CATALOG NUMBER: S123RDIP-S340D1025U840-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 580.2 | 580.2 | 580.2 | 580.2 | 580.2 | 580.2 | 580.2 | 580.2 |
| 2.5° | 577.8 | 578.8 | 579.8 | 580.1 | 580.0 | 579.8 | 579.6 | 579.5 |
| 5° | 574.1 | 575.0 | 575.9 | 576.3 | 576.1 | 575.9 | 575.7 | 575.5 |
| 7.5° | 566.0 | 566.5 | 567.0 | 567.1 | 566.7 | 566.4 | 566.0 | 565.7 |
| 10° | 558.8 | 558.9 | 559.0 | 558.8 | 558.3 | 557.7 | 557.1 | 556.6 |
| 12.5° | 549.8 | 549.7 | 549.7 | 549.3 | 548.7 | 548.1 | 547.4 | 546.8 |
| 15° | 533.9 | 533.4 | 532.9 | 532.3 | 531.6 | 530.8 | 530.1 | 529.4 |
| 17.5° | 515.1 | 514.0 | 512.9 | 511.8 | 510.7 | 509.6 | 508.6 | 507.5 |
| 20° | 502.2 | 500.8 | 499.5 | 498.2 | 496.9 | 495.6 | 494.4 | 493.1 |
| 22.5° | 488.4 | 486.7 | 484.9 | 483.5 | 482.3 | 481.2 | 480.0 | 478.9 |
| 25° | 465.6 | 463.5 | 461.3 | 459.6 | 458.5 | 457.4 | 456.2 | 455.0 |
| 27.5° | 441.0 | 438.0 | 434.9 | 432.5 | 430.7 | 429.0 | 427.3 | 425.5 |
| 30° | 423.4 | 419.9 | 416.4 | 413.7 | 412.0 | 410.4 | 408.7 | 407.0 |
| 32.5° | 406.2 | 402.3 | 398.4 | 395.6 | 393.8 | 392.1 | 390.3 | 388.6 |
| 35° | 380.6 | 376.1 | 371.6 | 368.4 | 366.6 | 364.7 | 362.7 | 360.9 |
| 37.5° | 353.1 | 348.0 | 343.0 | 339.2 | 336.9 | 334.6 | 332.2 | 329.9 |
| 40° | 334.1 | 328.6 | 323.2 | 319.2 | 316.8 | 314.5 | 312.0 | 309.6 |
| 42.5° | 315.7 | 309.8 | 303.9 | 299.8 | 297.6 | 295.5 | 293.4 | 291.1 |
| 45° | 288.7 | 282.8 | 276.8 | 272.6 | 270.1 | 267.6 | 265.1 | 262.6 |
| 47.5° | 260.8 | 254.4 | 247.9 | 243.6 | 241.4 | 239.1 | 236.8 | 234.6 |
| 50° | 242.1 | 235.6 | 229.1 | 224.7 | 222.3 | 219.8 | 217.4 | 215.0 |
| 52.5° | 223.9 | 217.1 | 210.5 | 206.0 | 203.8 | 201.7 | 199.5 | 197.3 |
| 55° | 196.8 | 190.8 | 184.7 | 180.6 | 178.5 | 176.4 | 174.3 | 172.2 |
| 57.5° | 170.2 | 164.4 | 158.8 | 154.9 | 153.2 | 151.4 | 149.7 | 147.8 |
| 60° | 153.4 | 147.7 | 142.1 | 138.4 | 136.6 | 134.8 | 133.1 | 131.3 |
| 62.5° | 136.7 | 131.5 | 126.1 | 122.5 | 120.7 | 118.9 | 116.9 | 115.1 |
| 65° | 113.0 | 108.0 | 102.8 | 99.7 | 98.5 | 97.4 | 96.2 | 95.0 |
| 67.5° | 90.4 | 86.5 | 82.7 | 80.2 | 79.0 | 77.8 | 76.5 | 75.3 |
| 70° | 76.4 | 72.8 | 69.1 | 66.8 | 65.5 | 64.4 | 63.2 | 62.1 |
| 72.5° | 63.8 | 60.9 | 57.9 | 56.1 | 55.6 | 55.1 | 54.7 | 54.2 |
| 75° | 47.8 | 46.8 | 45.6 | 45.0 | 44.8 | 44.6 | 44.4 | 44.2 |
| 77.5° | 36.1 | 35.4 | 34.9 | 34.5 | 34.3 | 34.1 | 33.9 | 33.7 |
| 80° | 29.0 | 28.7 | 28.4 | 28.2 | 27.9 | 27.7 | 27.5 | 27.3 |
| 82.5° | 22.2 | 21.9 | 21.6 | 21.4 | 21.4 | 21.3 | 21.3 | 21.3 |
| 85° | 12.7 | 12.5 | 12.3 | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 |
| 87.5° | 9.9 | 10.0 | 10.1 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 |
| 90° | 26.0 | 26.9 | 27.8 | 28.5 | 28.9 | 29.4 | 29.8 | 30.2 |
| 92.5° | 28.7 | 30.1 | 31.5 | 32.4 | 32.6 | 32.9 | 33.2 | 33.4 |
| 95° | 34.3 | 36.0 | 37.6 | 38.3 | 38.3 | 38.3 | 38.3 | 38.3 |
| 97.5° | 36.1 | 37.9 | 39.6 | 40.6 | 40.9 | 41.1 | 41.3 | 41.5 |
| 100° | 36.9 | 38.7 | 40.4 | 41.4 | 41.7 | 41.9 | 42.1 | 42.3 |
| 102.5° | 55.2 | 49.7 | 44.1 | 41.5 | 41.9 | 42.3 | 42.7 | 43.1 |
| 105° | 141.5 | 101.8 | 62.2 | 42.5 | 43.0 | 43.4 | 43.9 | 44.3 |
| 107.5° | 346.5 | 317.4 | 288.3 | 258.8 | 228.9 | 199.0 | 169.2 | 139.3 |
| 110° | 439.8 | 432.4 | 425.1 | 405.4 | 373.2 | 341.2 | 309.2 | 277.2 |



TEST NUMBER: P332261-840

CATALOG NUMBER: S123RDIP-S340D1025U840-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 505.6 | 505.8 | 505.9 | 502.6 | 495.8 | 489.1 | 482.3 | 475.5 |
| 115° | 583.1 | 585.3 | 587.5 | 589.2 | 590.0 | 590.9 | 591.8 | 592.7 |
| 117.5° | 653.2 | 654.9 | 656.7 | 657.7 | 657.9 | 658.0 | 658.2 | 658.4 |
| 120° | 699.1 | 700.8 | 702.7 | 703.6 | 703.6 | 703.6 | 703.6 | 703.6 |
| 122.5° | 744.0 | 745.3 | 746.5 | 747.2 | 747.4 | 747.6 | 747.7 | 747.9 |
| 125° | 807.3 | 807.7 | 808.2 | 808.6 | 809.1 | 809.5 | 810.0 | 810.4 |
| 127.5° | 870.7 | 871.4 | 872.1 | 872.3 | 871.8 | 871.4 | 870.9 | 870.5 |
| 130° | 909.0 | 909.9 | 910.8 | 911.0 | 910.6 | 910.1 | 909.7 | 909.2 |
| 132.5° | 945.2 | 946.1 | 947.1 | 947.2 | 946.5 | 945.9 | 945.3 | 944.7 |
| 135° | 1000.3 | 1001.0 | 1001.6 | 1001.6 | 1001.0 | 1000.3 | 999.6 | 999.0 |
| 137.5° | 1049.2 | 1050.4 | 1051.4 | 1051.7 | 1051.3 | 1050.9 | 1050.4 | 1050.0 |
| 140° | 1080.4 | 1081.3 | 1082.2 | 1082.4 | 1081.9 | 1081.5 | 1081.1 | 1080.6 |
| 142.5° | 1109.8 | 1110.5 | 1111.3 | 1111.3 | 1110.6 | 1110.0 | 1109.4 | 1108.8 |
| 145° | 1151.0 | 1151.4 | 1152.0 | 1152.2 | 1152.2 | 1152.2 | 1152.2 | 1152.2 |
| 147.5° | 1187.9 | 1188.3 | 1188.8 | 1188.5 | 1187.5 | 1186.5 | 1185.4 | 1184.4 |
| 150° | 1210.5 | 1210.9 | 1211.4 | 1211.2 | 1210.6 | 1209.9 | 1209.2 | 1208.6 |
| 152.5° | 1230.5 | 1231.3 | 1232.1 | 1232.0 | 1231.0 | 1230.0 | 1229.0 | 1227.9 |
| 155° | 1258.2 | 1259.3 | 1260.4 | 1260.3 | 1259.0 | 1257.7 | 1256.3 | 1255.0 |
| 157.5° | 1282.2 | 1283.5 | 1285.0 | 1284.8 | 1282.9 | 1281.2 | 1279.5 | 1277.8 |
| 160° | 1296.0 | 1297.3 | 1298.6 | 1298.5 | 1297.0 | 1295.4 | 1293.8 | 1292.2 |
| 162.5° | 1308.4 | 1309.9 | 1311.4 | 1311.5 | 1310.1 | 1308.7 | 1307.4 | 1306.0 |
| 165° | 1325.0 | 1326.9 | 1328.7 | 1328.8 | 1327.2 | 1325.6 | 1324.0 | 1322.5 |
| 167.5° | 1338.0 | 1339.8 | 1341.5 | 1341.5 | 1339.8 | 1338.0 | 1336.2 | 1334.3 |
| 170° | 1345.2 | 1347.1 | 1348.8 | 1348.8 | 1347.1 | 1345.2 | 1343.4 | 1341.6 |
| 172.5° | 1350.1 | 1351.8 | 1353.6 | 1353.5 | 1351.6 | 1349.6 | 1347.7 | 1345.6 |
| 175° | 1355.8 | 1357.5 | 1359.0 | 1358.9 | 1357.1 | 1355.3 | 1353.5 | 1351.7 |
| 177.5° | 1358.0 | 1359.5 | 1360.9 | 1360.7 | 1358.9 | 1357.2 | 1355.3 | 1353.5 |
| 180° | 1356.8 | 1356.8 | 1356.8 | 1356.8 | 1356.8 | 1356.8 | 1356.8 | 1356.8 |

(END OF REPORT)