

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: P332400-927

Luminaire Tested: **S123RDIW-S340D1030U927-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332400-927
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: S123RDIW-S340D1030U927-4F0-1E-UDD-F
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 1030 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4297.1 lumens
Efficiency: N/A
Efficacy: 113.1 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

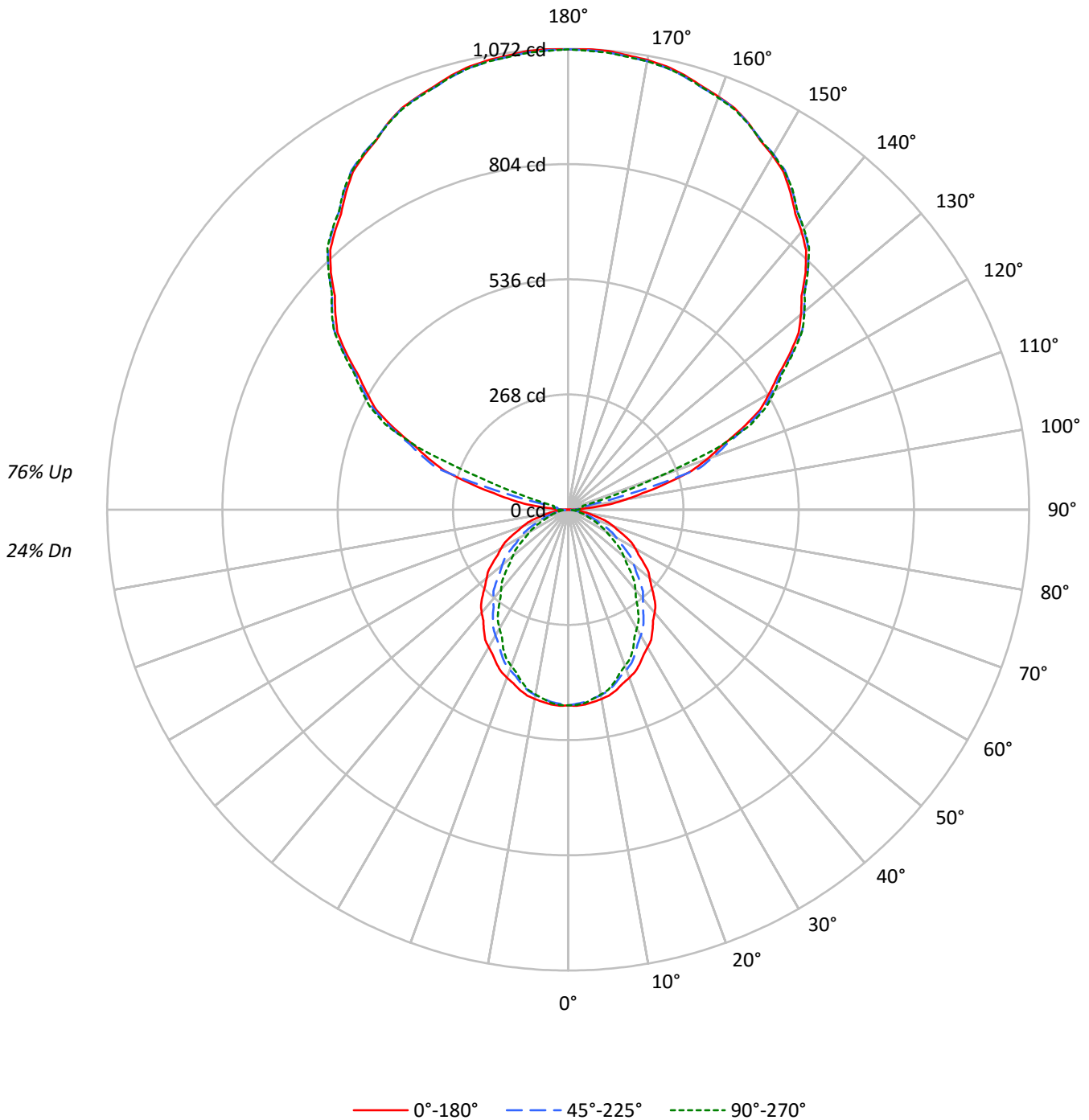
Input Watts (W): 38
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332400-927

CATALOG NUMBER: S123RDIW-S340D1030U927-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P332400-927

CATALOG NUMBER: S123RDIW-S340D1030U927-4F0-1E-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 | 27 | 20 |
| 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 | 60 | 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 | 54 | 43 | 35 | 30 | 48 | 38 | 32 | 27 | 30 | 26 | 22 | 22 | 19 | 17 | 15 | 13 | 12 | 9 |
| 8 | 50 | 39 | 31 | 26 | 45 | 35 | 29 | 24 | 27 | 23 | 20 | 20 | 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° | 4899 | 4899 | 4899 |
| 5° | 4917 | 4850 | 4878 |
| 10° | 4889 | 4790 | 4773 |
| 15° | 4837 | 4677 | 4628 |
| 20° | 4765 | 4537 | 4431 |
| 25° | 4691 | 4380 | 4240 |
| 30° | 4593 | 4197 | 3967 |
| 35° | 4491 | 4016 | 3720 |
| 40° | 4398 | 3801 | 3413 |
| 45° | 4276 | 3589 | 3136 |
| 50° | 4141 | 3349 | 2825 |
| 55° | 4003 | 3076 | 2535 |
| 60° | 3877 | 2781 | 2217 |
| 65° | 3713 | 2463 | 1897 |
| 70° | 3509 | 2068 | 1533 |
| 75° | 3211 | 1626 | 1443 |
| 80° | 2858 | 1444 | 1327 |
| 85° | 2421 | 1272 | 1186 |



TEST NUMBER: P332400-927

CATALOG NUMBER: S123RDIW-S340D1030U927-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 42.7 | 1.0 |
| 10°-20° | 118.9 | 2.8 |
| 20°-30° | 171.2 | 4.0 |
| 30°-40° | 192.9 | 4.5 |
| 40°-50° | 184.5 | 4.3 |
| 50°-60° | 151.1 | 3.5 |
| 60°-70° | 101.9 | 2.4 |
| 70°-80° | 51.3 | 1.2 |
| 80°-90° | 16.6 | 0.4 |
| 90°-100° | 38.9 | 0.9 |
| 100°-110° | 185.6 | 4.3 |
| 110°-120° | 445.8 | 10.4 |
| 120°-130° | 567.6 | 13.2 |
| 130°-140° | 606.5 | 14.1 |
| 140°-150° | 567.1 | 13.2 |
| 150°-160° | 457.5 | 10.6 |
| 160°-170° | 295.2 | 6.9 |
| 170°-180° | 101.8 | 2.4 |
| 0°-30° | 332.9 | 7.7 |
| 0°-40° | 525.7 | 12.2 |
| 0°-60° | 861.4 | 20.0 |
| 0°-90° | 1031.2 | 24.0 |
| 90°-120° | 670.3 | 15.6 |
| 90°-150° | 2411.5 | 56.1 |
| 90°-180° | 3266.0 | 76.0 |
| 0°-180° | 4297.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 455 | 455 | 455 | 455 | 455 | |
| 5° | 455 | 453 | 449 | 452 | 452 | 43 |
| 15° | 434 | 430 | 420 | 418 | 415 | 122 |
| 25° | 395 | 385 | 369 | 361 | 357 | 182 |
| 35° | 342 | 328 | 306 | 290 | 283 | 214 |
| 45° | 281 | 264 | 236 | 215 | 206 | 217 |
| 55° | 213 | 195 | 164 | 143 | 135 | 191 |
| 65° | 146 | 125 | 97 | 79 | 74 | 144 |
| 75° | 77 | 59 | 39 | 36 | 35 | 82 |
| 85° | 20 | 12 | 10 | 10 | 10 | 22 |
| 90° | 1 | 9 | 19 | 22 | 24 | 3 |
| 95° | 49 | 18 | 25 | 30 | 30 | 60 |
| 105° | 237 | 241 | 174 | 41 | 35 | 251 |
| 115° | 445 | 450 | 457 | 464 | 468 | 439 |
| 125° | 627 | 633 | 636 | 638 | 640 | 560 |
| 135° | 780 | 785 | 788 | 791 | 788 | 601 |
| 145° | 901 | 906 | 908 | 909 | 909 | 564 |
| 155° | 992 | 991 | 991 | 995 | 991 | 457 |
| 165° | 1046 | 1044 | 1043 | 1049 | 1044 | 295 |
| 175° | 1071 | 1067 | 1068 | 1073 | 1067 | 102 |
| 180° | 1071 | 1071 | 1071 | 1071 | 1071 | |



TEST NUMBER: P332400-927

CATALOG NUMBER: S123RDIW-S340D1030U927-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 455.1 | 455.1 | 455.1 | 455.1 | 455.1 | 455.1 | 455.1 | 455.1 | 455.1 | 455.1 | 455.1 |
| 2.5° | 456.6 | 456.3 | 456.1 | 455.8 | 455.6 | 455.0 | 454.2 | 453.4 | 452.7 | 451.9 | 452.6 |
| 5° | 455.1 | 454.7 | 454.3 | 453.9 | 453.4 | 452.8 | 451.8 | 450.8 | 449.8 | 448.9 | 449.6 |
| 7.5° | 450.9 | 450.4 | 450.0 | 449.6 | 449.2 | 448.3 | 447.0 | 445.8 | 444.4 | 443.1 | 443.5 |
| 10° | 447.3 | 446.8 | 446.2 | 445.7 | 445.0 | 444.0 | 442.6 | 441.1 | 439.6 | 438.2 | 438.2 |
| 12.5° | 442.4 | 441.7 | 441.1 | 440.5 | 439.8 | 438.6 | 436.7 | 435.0 | 433.2 | 431.3 | 431.3 |
| 15° | 434.1 | 433.2 | 432.3 | 431.3 | 430.5 | 428.9 | 426.6 | 424.3 | 422.0 | 419.7 | 419.3 |
| 17.5° | 423.7 | 422.6 | 421.6 | 420.5 | 419.5 | 417.5 | 414.5 | 411.6 | 408.8 | 405.8 | 405.0 |
| 20° | 416.0 | 414.7 | 413.4 | 412.1 | 410.7 | 408.5 | 405.4 | 402.3 | 399.2 | 396.1 | 395.0 |
| 22.5° | 407.4 | 405.9 | 404.4 | 402.9 | 401.4 | 399.0 | 395.7 | 392.4 | 389.0 | 385.7 | 384.4 |
| 25° | 395.0 | 392.9 | 390.9 | 388.8 | 386.7 | 383.8 | 380.1 | 376.3 | 372.5 | 368.8 | 367.0 |
| 27.5° | 379.9 | 377.6 | 375.3 | 373.0 | 370.7 | 367.6 | 363.4 | 359.1 | 354.9 | 350.7 | 348.3 |
| 30° | 369.5 | 367.0 | 364.6 | 362.1 | 359.7 | 356.1 | 351.5 | 346.9 | 342.3 | 337.7 | 334.9 |
| 32.5° | 359.2 | 356.3 | 353.6 | 350.8 | 348.0 | 344.2 | 339.3 | 334.5 | 329.6 | 324.7 | 321.7 |
| 35° | 341.8 | 338.8 | 335.9 | 333.0 | 330.0 | 326.0 | 320.9 | 315.8 | 310.7 | 305.6 | 302.1 |
| 37.5° | 324.2 | 320.9 | 317.7 | 314.4 | 311.1 | 306.7 | 301.3 | 295.9 | 290.5 | 285.0 | 281.1 |
| 40° | 313.0 | 309.4 | 305.8 | 302.2 | 298.6 | 293.8 | 288.0 | 282.2 | 276.4 | 270.5 | 266.3 |
| 42.5° | 300.3 | 296.7 | 293.1 | 289.5 | 285.9 | 281.1 | 275.0 | 269.0 | 263.0 | 257.0 | 252.3 |
| 45° | 280.9 | 277.2 | 273.5 | 269.8 | 266.1 | 261.1 | 254.8 | 248.5 | 242.2 | 235.8 | 231.2 |
| 47.5° | 261.5 | 257.5 | 253.3 | 249.3 | 245.3 | 240.1 | 233.8 | 227.4 | 221.2 | 214.8 | 209.8 |
| 50° | 247.3 | 243.4 | 239.6 | 235.8 | 231.9 | 226.6 | 220.0 | 213.3 | 206.7 | 200.0 | 195.0 |
| 52.5° | 234.6 | 230.4 | 226.2 | 222.0 | 217.9 | 212.5 | 205.9 | 199.3 | 192.7 | 186.2 | 180.9 |
| 55° | 213.3 | 209.3 | 205.3 | 201.3 | 197.3 | 191.8 | 184.8 | 177.8 | 170.9 | 163.9 | 159.1 |
| 57.5° | 193.7 | 189.3 | 185.0 | 180.5 | 176.2 | 170.5 | 163.5 | 156.5 | 149.5 | 142.5 | 138.0 |
| 60° | 180.1 | 175.6 | 171.1 | 166.6 | 162.1 | 156.5 | 149.6 | 142.8 | 136.0 | 129.2 | 124.8 |
| 62.5° | 166.5 | 162.0 | 157.5 | 153.0 | 148.5 | 142.8 | 136.0 | 129.2 | 122.4 | 115.6 | 111.5 |
| 65° | 145.8 | 141.3 | 136.8 | 132.3 | 127.8 | 122.3 | 115.9 | 109.5 | 103.1 | 96.7 | 92.7 |
| 67.5° | 125.1 | 120.5 | 115.9 | 111.4 | 106.8 | 101.5 | 95.3 | 89.2 | 83.0 | 76.9 | 73.9 |
| 70° | 111.5 | 107.0 | 102.6 | 98.2 | 93.8 | 88.6 | 82.9 | 77.2 | 71.5 | 65.7 | 62.8 |
| 72.5° | 97.9 | 93.6 | 89.2 | 84.8 | 80.4 | 75.7 | 70.4 | 65.2 | 60.0 | 54.7 | 52.4 |
| 75° | 77.2 | 73.2 | 69.2 | 65.4 | 61.4 | 57.2 | 52.7 | 48.2 | 43.6 | 39.1 | 38.3 |
| 77.5° | 58.2 | 54.7 | 51.1 | 47.5 | 44.0 | 40.8 | 37.9 | 34.9 | 32.1 | 29.2 | 28.8 |
| 80° | 46.1 | 42.8 | 39.5 | 36.0 | 32.7 | 30.2 | 28.4 | 26.7 | 25.0 | 23.3 | 23.0 |
| 82.5° | 34.6 | 31.7 | 28.8 | 25.9 | 23.0 | 21.2 | 20.4 | 19.6 | 18.8 | 17.9 | 17.7 |
| 85° | 19.6 | 17.7 | 15.9 | 14.2 | 12.4 | 11.3 | 11.1 | 10.9 | 10.6 | 10.3 | 10.1 |
| 87.5° | 7.2 | 6.9 | 6.5 | 6.2 | 5.8 | 5.8 | 6.3 | 6.7 | 7.2 | 7.7 | 7.8 |
| 90° | 0.8 | 2.5 | 4.4 | 6.1 | 7.8 | 9.9 | 12.2 | 14.5 | 16.8 | 19.1 | 19.8 |
| 92.5° | 14.8 | 14.3 | 13.8 | 13.3 | 12.8 | 13.5 | 15.2 | 16.9 | 18.6 | 20.4 | 21.5 |
| 95° | 48.6 | 41.3 | 34.1 | 26.8 | 19.6 | 16.9 | 18.9 | 20.8 | 22.7 | 24.6 | 25.9 |
| 97.5° | 97.5 | 94.3 | 91.0 | 87.8 | 84.5 | 76.5 | 63.8 | 51.1 | 38.3 | 25.6 | 27.0 |
| 100° | 134.4 | 138.0 | 141.6 | 145.0 | 148.6 | 136.6 | 109.0 | 81.4 | 53.9 | 26.2 | 27.6 |
| 102.5° | 176.5 | 179.0 | 181.6 | 184.1 | 186.6 | 172.9 | 142.8 | 112.6 | 82.5 | 52.4 | 48.0 |
| 105° | 237.1 | 239.1 | 241.0 | 243.0 | 244.9 | 237.9 | 222.0 | 206.0 | 190.2 | 174.3 | 143.0 |
| 107.5° | 301.1 | 302.6 | 304.2 | 305.8 | 307.3 | 309.3 | 311.9 | 314.3 | 316.9 | 319.4 | 296.4 |
| 110° | 343.7 | 345.2 | 346.6 | 348.0 | 349.4 | 351.1 | 353.0 | 355.0 | 356.9 | 358.9 | 353.0 |



TEST NUMBER: P332400-927

CATALOG NUMBER: S123RDIW-S340D1030U927-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 384.4 | 385.7 | 387.0 | 388.3 | 389.6 | 391.2 | 393.1 | 395.1 | 397.0 | 398.9 | 399.0 |
| 115° | 444.8 | 445.8 | 446.9 | 448.0 | 449.0 | 450.4 | 451.9 | 453.5 | 455.1 | 456.7 | 458.5 |
| 117.5° | 503.2 | 504.5 | 505.8 | 507.1 | 508.4 | 509.5 | 510.3 | 511.1 | 511.9 | 512.7 | 514.1 |
| 120° | 539.5 | 541.1 | 542.6 | 544.2 | 545.8 | 546.9 | 547.4 | 548.0 | 548.5 | 549.0 | 550.4 |
| 122.5° | 576.4 | 577.7 | 579.0 | 580.3 | 581.6 | 582.6 | 583.3 | 583.9 | 584.6 | 585.3 | 586.3 |
| 125° | 627.0 | 628.4 | 629.8 | 631.2 | 632.6 | 633.7 | 634.4 | 635.1 | 635.8 | 636.5 | 636.9 |
| 127.5° | 676.0 | 677.4 | 678.8 | 680.2 | 681.7 | 682.8 | 683.7 | 684.5 | 685.3 | 686.2 | 686.7 |
| 130° | 706.5 | 708.0 | 709.4 | 710.8 | 712.3 | 713.3 | 714.0 | 714.7 | 715.4 | 716.1 | 716.8 |
| 132.5° | 735.9 | 737.3 | 738.6 | 740.1 | 741.5 | 742.5 | 743.1 | 743.6 | 744.2 | 744.7 | 745.4 |
| 135° | 780.5 | 781.6 | 782.7 | 783.7 | 784.8 | 785.7 | 786.4 | 787.1 | 787.8 | 788.5 | 789.0 |
| 137.5° | 818.7 | 820.1 | 821.4 | 822.8 | 824.1 | 825.0 | 825.4 | 825.8 | 826.2 | 826.6 | 827.4 |
| 140° | 844.2 | 845.3 | 846.4 | 847.4 | 848.4 | 849.2 | 849.8 | 850.3 | 850.8 | 851.4 | 852.1 |
| 142.5° | 867.8 | 868.8 | 869.9 | 870.9 | 872.0 | 872.8 | 873.3 | 873.9 | 874.4 | 874.9 | 875.5 |
| 145° | 900.7 | 901.9 | 903.2 | 904.4 | 905.6 | 906.4 | 906.8 | 907.1 | 907.5 | 907.8 | 908.2 |
| 147.5° | 931.8 | 932.6 | 933.3 | 934.1 | 935.0 | 935.6 | 935.9 | 936.3 | 936.6 | 937.0 | 937.3 |
| 150° | 950.9 | 951.3 | 951.9 | 952.4 | 952.9 | 953.4 | 953.7 | 954.1 | 954.4 | 954.8 | 955.1 |
| 152.5° | 968.0 | 968.3 | 968.5 | 968.8 | 969.0 | 969.2 | 969.5 | 969.6 | 969.9 | 970.1 | 970.7 |
| 155° | 992.2 | 991.8 | 991.5 | 991.2 | 990.8 | 990.7 | 990.9 | 991.0 | 991.3 | 991.4 | 992.3 |
| 157.5° | 1011.0 | 1011.0 | 1010.9 | 1010.9 | 1010.8 | 1010.7 | 1010.6 | 1010.3 | 1010.2 | 1010.0 | 1011.1 |
| 160° | 1022.5 | 1022.2 | 1022.1 | 1021.9 | 1021.8 | 1021.5 | 1021.4 | 1021.2 | 1021.0 | 1020.9 | 1021.9 |
| 162.5° | 1033.2 | 1032.8 | 1032.4 | 1031.9 | 1031.4 | 1031.1 | 1030.9 | 1030.8 | 1030.5 | 1030.4 | 1031.6 |
| 165° | 1046.3 | 1045.8 | 1045.3 | 1044.7 | 1044.2 | 1043.9 | 1043.6 | 1043.5 | 1043.3 | 1043.1 | 1044.6 |
| 167.5° | 1056.5 | 1055.8 | 1055.1 | 1054.4 | 1053.7 | 1053.3 | 1053.3 | 1053.3 | 1053.3 | 1053.3 | 1054.7 |
| 170° | 1062.2 | 1061.5 | 1060.8 | 1060.1 | 1059.4 | 1059.1 | 1059.1 | 1059.1 | 1059.1 | 1059.1 | 1060.4 |
| 172.5° | 1066.0 | 1065.2 | 1064.4 | 1063.5 | 1062.6 | 1062.3 | 1062.4 | 1062.6 | 1062.7 | 1062.9 | 1064.3 |
| 175° | 1071.0 | 1070.1 | 1069.2 | 1068.3 | 1067.5 | 1067.1 | 1067.2 | 1067.5 | 1067.6 | 1067.8 | 1069.1 |
| 177.5° | 1072.2 | 1071.5 | 1070.9 | 1070.2 | 1069.4 | 1069.1 | 1069.3 | 1069.4 | 1069.5 | 1069.7 | 1070.9 |
| 180° | 1071.0 | 1071.0 | 1071.0 | 1071.0 | 1071.0 | 1071.0 | 1071.0 | 1071.0 | 1071.0 | 1071.0 | 1071.0 |



TEST NUMBER: P332400-927

CATALOG NUMBER: S123RDIW-S340D1030U927-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 455.1 | 455.1 | 455.1 | 455.1 | 455.1 | 455.1 | 455.1 | 455.1 |
| 2.5° | 453.3 | 454.0 | 454.8 | 455.0 | 455.0 | 454.8 | 454.6 | 454.6 |
| 5° | 450.4 | 451.1 | 451.8 | 452.1 | 451.9 | 451.8 | 451.6 | 451.5 |
| 7.5° | 444.0 | 444.4 | 444.8 | 444.9 | 444.6 | 444.3 | 444.0 | 443.8 |
| 10° | 438.3 | 438.4 | 438.5 | 438.3 | 437.9 | 437.5 | 437.0 | 436.7 |
| 12.5° | 431.3 | 431.2 | 431.2 | 430.9 | 430.4 | 429.9 | 429.4 | 429.0 |
| 15° | 418.8 | 418.4 | 418.0 | 417.6 | 417.0 | 416.4 | 415.8 | 415.3 |
| 17.5° | 404.1 | 403.2 | 402.3 | 401.5 | 400.6 | 399.7 | 398.9 | 398.1 |
| 20° | 394.0 | 392.8 | 391.8 | 390.8 | 389.8 | 388.8 | 387.9 | 386.8 |
| 22.5° | 383.1 | 381.8 | 380.4 | 379.3 | 378.3 | 377.5 | 376.5 | 375.7 |
| 25° | 365.3 | 363.6 | 361.9 | 360.5 | 359.7 | 358.8 | 357.8 | 357.0 |
| 27.5° | 345.9 | 343.6 | 341.2 | 339.3 | 337.9 | 336.5 | 335.2 | 333.7 |
| 30° | 332.2 | 329.4 | 326.6 | 324.6 | 323.2 | 321.9 | 320.6 | 319.2 |
| 32.5° | 318.6 | 315.6 | 312.5 | 310.3 | 309.0 | 307.6 | 306.2 | 304.8 |
| 35° | 298.6 | 295.0 | 291.5 | 289.0 | 287.6 | 286.1 | 284.6 | 283.1 |
| 37.5° | 277.0 | 273.0 | 269.0 | 266.1 | 264.3 | 262.4 | 260.6 | 258.8 |
| 40° | 262.1 | 257.8 | 253.5 | 250.4 | 248.5 | 246.7 | 244.8 | 242.9 |
| 42.5° | 247.6 | 243.0 | 238.4 | 235.2 | 233.5 | 231.8 | 230.1 | 228.4 |
| 45° | 226.5 | 221.8 | 217.1 | 213.8 | 211.9 | 209.9 | 207.9 | 206.0 |
| 47.5° | 204.6 | 199.6 | 194.5 | 191.1 | 189.3 | 187.6 | 185.8 | 184.0 |
| 50° | 189.9 | 184.8 | 179.7 | 176.3 | 174.4 | 172.5 | 170.6 | 168.7 |
| 52.5° | 175.6 | 170.3 | 165.1 | 161.6 | 159.9 | 158.2 | 156.5 | 154.8 |
| 55° | 154.4 | 149.6 | 144.9 | 141.6 | 140.1 | 138.4 | 136.7 | 135.1 |
| 57.5° | 133.5 | 129.0 | 124.5 | 121.5 | 120.2 | 118.7 | 117.4 | 116.0 |
| 60° | 120.3 | 115.9 | 111.5 | 108.5 | 107.2 | 105.8 | 104.4 | 103.0 |
| 62.5° | 107.3 | 103.1 | 98.9 | 96.1 | 94.7 | 93.2 | 91.7 | 90.3 |
| 65° | 88.6 | 84.7 | 80.6 | 78.2 | 77.2 | 76.4 | 75.5 | 74.5 |
| 67.5° | 70.9 | 67.9 | 64.9 | 62.9 | 61.9 | 61.0 | 60.0 | 59.1 |
| 70° | 60.0 | 57.1 | 54.2 | 52.4 | 51.4 | 50.5 | 49.6 | 48.7 |
| 72.5° | 50.1 | 47.8 | 45.4 | 44.0 | 43.6 | 43.3 | 42.9 | 42.5 |
| 75° | 37.5 | 36.7 | 35.8 | 35.3 | 35.2 | 35.0 | 34.9 | 34.7 |
| 77.5° | 28.3 | 27.8 | 27.4 | 27.1 | 26.9 | 26.8 | 26.6 | 26.5 |
| 80° | 22.7 | 22.5 | 22.3 | 22.1 | 21.9 | 21.7 | 21.5 | 21.4 |
| 82.5° | 17.4 | 17.2 | 17.0 | 16.8 | 16.8 | 16.7 | 16.7 | 16.7 |
| 85° | 10.0 | 9.8 | 9.7 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 |
| 87.5° | 7.8 | 7.9 | 7.9 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |
| 90° | 20.5 | 21.2 | 21.9 | 22.4 | 22.8 | 23.1 | 23.5 | 23.8 |
| 92.5° | 22.7 | 23.8 | 24.9 | 25.6 | 25.7 | 26.0 | 26.2 | 26.4 |
| 95° | 27.2 | 28.4 | 29.6 | 30.3 | 30.3 | 30.3 | 30.3 | 30.3 |
| 97.5° | 28.4 | 29.9 | 31.3 | 32.1 | 32.2 | 32.4 | 32.6 | 32.8 |
| 100° | 29.1 | 30.5 | 31.9 | 32.7 | 32.9 | 33.0 | 33.3 | 33.4 |
| 102.5° | 43.6 | 39.2 | 34.8 | 32.8 | 33.1 | 33.4 | 33.7 | 34.1 |
| 105° | 111.7 | 80.3 | 49.0 | 33.6 | 34.0 | 34.3 | 34.6 | 35.0 |
| 107.5° | 273.5 | 250.6 | 227.6 | 204.3 | 180.7 | 157.2 | 133.6 | 110.0 |
| 110° | 347.2 | 341.4 | 335.5 | 320.0 | 294.7 | 269.3 | 244.1 | 218.8 |



TEST NUMBER: P332400-927

CATALOG NUMBER: S123RDIW-S340D1030U927-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 399.2 | 399.3 | 399.3 | 396.7 | 391.4 | 386.1 | 380.7 | 375.4 |
| 115° | 460.3 | 462.0 | 463.8 | 465.0 | 465.7 | 466.4 | 467.1 | 467.9 |
| 117.5° | 515.6 | 517.0 | 518.4 | 519.2 | 519.3 | 519.4 | 519.6 | 519.8 |
| 120° | 551.8 | 553.3 | 554.7 | 555.4 | 555.4 | 555.4 | 555.4 | 555.4 |
| 122.5° | 587.2 | 588.3 | 589.2 | 589.9 | 589.9 | 590.1 | 590.3 | 590.4 |
| 125° | 637.2 | 637.6 | 637.9 | 638.3 | 638.7 | 639.0 | 639.4 | 639.7 |
| 127.5° | 687.3 | 687.9 | 688.5 | 688.6 | 688.2 | 687.9 | 687.5 | 687.1 |
| 130° | 717.6 | 718.2 | 718.9 | 719.1 | 718.7 | 718.4 | 718.0 | 717.7 |
| 132.5° | 746.2 | 746.9 | 747.6 | 747.7 | 747.2 | 746.7 | 746.2 | 745.7 |
| 135° | 789.6 | 790.1 | 790.6 | 790.6 | 790.1 | 789.6 | 789.0 | 788.5 |
| 137.5° | 828.2 | 829.1 | 830.0 | 830.2 | 829.8 | 829.5 | 829.1 | 828.8 |
| 140° | 852.8 | 853.5 | 854.2 | 854.4 | 854.1 | 853.7 | 853.3 | 852.9 |
| 142.5° | 876.1 | 876.6 | 877.2 | 877.2 | 876.7 | 876.2 | 875.8 | 875.2 |
| 145° | 908.6 | 908.9 | 909.3 | 909.4 | 909.4 | 909.4 | 909.4 | 909.4 |
| 147.5° | 937.7 | 938.0 | 938.4 | 938.2 | 937.4 | 936.5 | 935.7 | 934.9 |
| 150° | 955.5 | 955.8 | 956.2 | 956.2 | 955.6 | 955.1 | 954.6 | 954.0 |
| 152.5° | 971.4 | 972.0 | 972.6 | 972.6 | 971.7 | 970.9 | 970.1 | 969.3 |
| 155° | 993.2 | 994.0 | 995.0 | 994.8 | 993.8 | 992.8 | 991.7 | 990.6 |
| 157.5° | 1012.2 | 1013.2 | 1014.2 | 1014.1 | 1012.7 | 1011.4 | 1010.0 | 1008.6 |
| 160° | 1022.9 | 1024.1 | 1025.1 | 1025.0 | 1023.7 | 1022.5 | 1021.3 | 1020.0 |
| 162.5° | 1032.8 | 1034.0 | 1035.2 | 1035.2 | 1034.2 | 1033.1 | 1032.0 | 1030.9 |
| 165° | 1045.9 | 1047.3 | 1048.8 | 1048.8 | 1047.7 | 1046.4 | 1045.1 | 1043.9 |
| 167.5° | 1056.1 | 1057.6 | 1059.0 | 1059.0 | 1057.6 | 1056.1 | 1054.7 | 1053.3 |
| 170° | 1061.8 | 1063.3 | 1064.7 | 1064.7 | 1063.3 | 1061.8 | 1060.4 | 1059.1 |
| 172.5° | 1065.7 | 1067.1 | 1068.5 | 1068.4 | 1066.9 | 1065.3 | 1063.7 | 1062.2 |
| 175° | 1070.2 | 1071.5 | 1072.8 | 1072.7 | 1071.3 | 1069.8 | 1068.4 | 1067.0 |
| 177.5° | 1072.0 | 1073.1 | 1074.2 | 1074.1 | 1072.7 | 1071.3 | 1069.8 | 1068.4 |
| 180° | 1071.0 | 1071.0 | 1071.0 | 1071.0 | 1071.0 | 1071.0 | 1071.0 | 1071.0 |

(END OF REPORT)