

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: P332249-930

Luminaire Tested: **S123RDIP-S340D585U930-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332249-930
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-S340D585U930-4F0-1E-UDD-F
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 585 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2968.6 lumens
Efficiency: N/A
Efficacy: 116.0 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

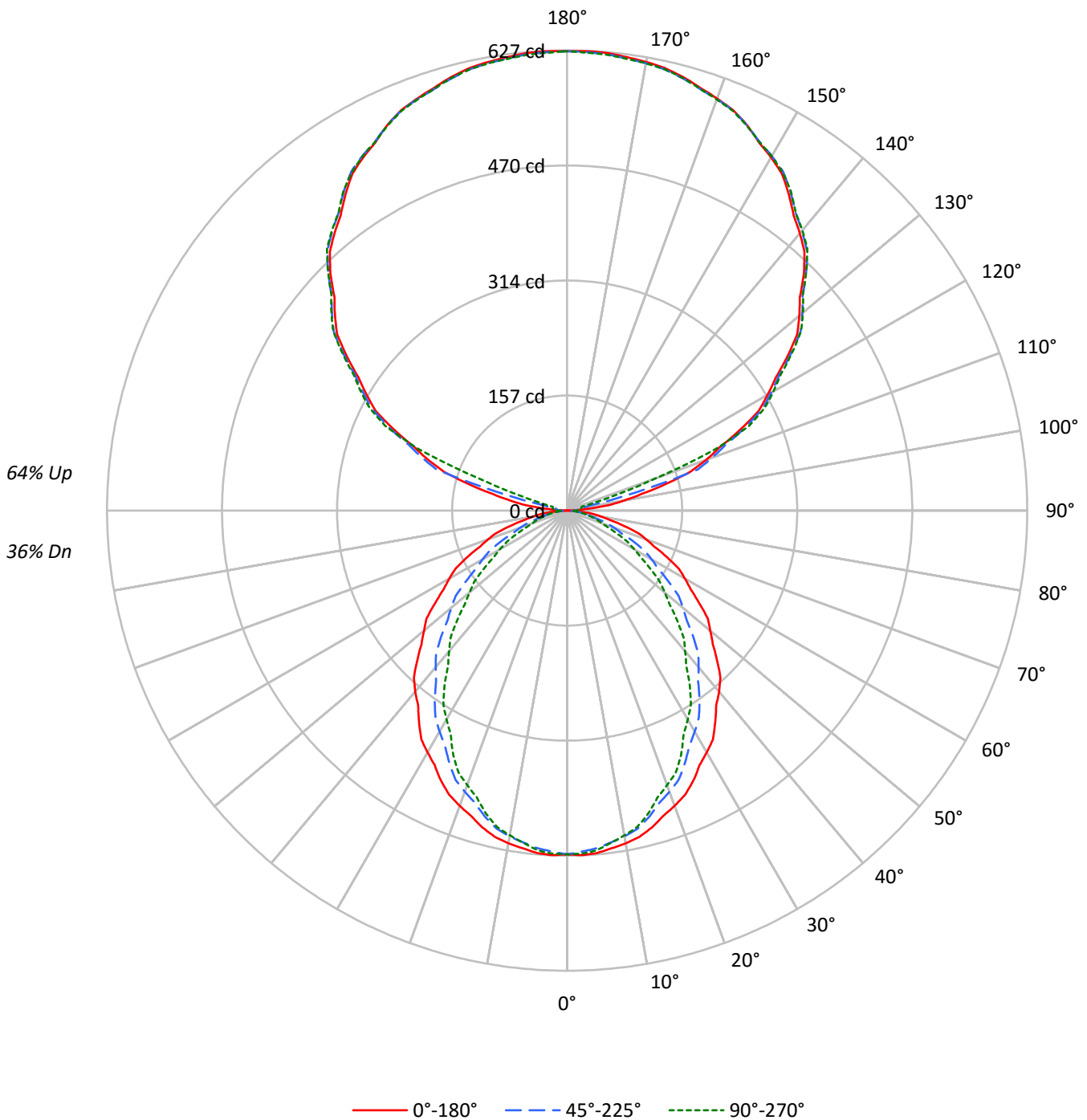
Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332249-930

CATALOG NUMBER: S123RDIP-S340D585U930-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P332249-930

CATALOG NUMBER: S123RDIP-S340D585U930-4F0-1E-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 | 104 | 104 | 104 | 104 | 94 | 94 | 94 | 94 | 75 | 75 | 75 | 59 | 59 | 59 | 43 | 43 | 43 | 36 |
| 1 | 95 | 91 | 87 | 84 | 86 | 82 | 79 | 76 | 66 | 64 | 62 | 52 | 50 | 49 | 38 | 37 | 37 | 31 |
| 2 | 86 | 79 | 74 | 69 | 78 | 72 | 67 | 63 | 58 | 55 | 52 | 46 | 43 | 41 | 34 | 33 | 31 | 26 |
| 3 | 79 | 70 | 63 | 57 | 71 | 64 | 58 | 53 | 52 | 47 | 44 | 41 | 38 | 35 | 30 | 28 | 27 | 22 |
| 4 | 72 | 62 | 54 | 49 | 65 | 56 | 50 | 45 | 46 | 41 | 37 | 36 | 33 | 30 | 27 | 25 | 23 | 19 |
| 5 | 66 | 55 | 47 | 42 | 60 | 50 | 44 | 38 | 41 | 36 | 32 | 33 | 29 | 26 | 25 | 22 | 20 | 17 |
| 6 | 61 | 49 | 42 | 36 | 55 | 45 | 38 | 33 | 37 | 32 | 28 | 29 | 26 | 23 | 22 | 20 | 18 | 15 |
| 7 | 56 | 45 | 37 | 32 | 51 | 41 | 34 | 29 | 34 | 29 | 25 | 27 | 23 | 20 | 20 | 18 | 16 | 13 |
| 8 | 52 | 40 | 33 | 28 | 47 | 37 | 30 | 26 | 31 | 26 | 22 | 25 | 21 | 18 | 19 | 16 | 14 | 12 |
| 9 | 49 | 37 | 30 | 25 | 44 | 34 | 27 | 23 | 28 | 23 | 20 | 23 | 19 | 16 | 17 | 15 | 13 | 11 |
| 10 | 45 | 34 | 27 | 22 | 41 | 31 | 25 | 21 | 26 | 21 | 18 | 21 | 17 | 15 | 16 | 14 | 12 | 10 |

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: P332249-930

CATALOG NUMBER: S123RDIP-S340D585U930-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 44.0 | 1.5 |
| 10°-20° | 122.4 | 4.1 |
| 20°-30° | 176.2 | 5.9 |
| 30°-40° | 198.5 | 6.7 |
| 40°-50° | 189.9 | 6.4 |
| 50°-60° | 155.5 | 5.2 |
| 60°-70° | 104.9 | 3.5 |
| 70°-80° | 52.8 | 1.8 |
| 80°-90° | 15.7 | 0.5 |
| 90°-100° | 22.8 | 0.8 |
| 100°-110° | 108.4 | 3.7 |
| 110°-120° | 260.5 | 8.8 |
| 120°-130° | 331.7 | 11.2 |
| 130°-140° | 354.4 | 11.9 |
| 140°-150° | 331.4 | 11.2 |
| 150°-160° | 267.4 | 9.0 |
| 160°-170° | 172.6 | 5.8 |
| 170°-180° | 59.5 | 2.0 |
| 0°-30° | 342.6 | 11.5 |
| 0°-40° | 541.1 | 18.2 |
| 0°-60° | 886.5 | 29.9 |
| 0°-90° | 1059.9 | 35.7 |
| 90°-120° | 391.7 | 13.2 |
| 90°-150° | 1409.3 | 47.5 |
| 90°-180° | 1909.0 | 64.3 |
| 0°-180° | 2968.6 | 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° | 0 | 5 | 11 | 13 | 14 | 2 |
| 95° | 28 | 11 | 14 | 18 | 18 | 35 |
| 105° | 139 | 141 | 102 | 24 | 20 | 147 |
| 115° | 260 | 263 | 267 | 271 | 274 | 257 |
| 125° | 366 | 370 | 372 | 373 | 374 | 327 |
| 135° | 456 | 459 | 461 | 462 | 461 | 351 |
| 145° | 526 | 530 | 531 | 531 | 532 | 329 |
| 155° | 580 | 579 | 579 | 581 | 579 | 267 |
| 165° | 612 | 610 | 610 | 613 | 610 | 173 |
| 175° | 626 | 624 | 624 | 627 | 624 | 60 |
| 180° | 626 | 626 | 626 | 626 | 626 | |



TEST NUMBER: P332249-930

CATALOG NUMBER: S123RDIP-S340D585U930-4F0-1E-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° | 7.4 | 6.8 | 6.3 | 5.8 | 5.2 | 5.1 | 5.4 | 5.6 | 6.0 | 6.2 | 6.2 |
| 90° | 0.5 | 1.5 | 2.5 | 3.6 | 4.6 | 5.8 | 7.1 | 8.5 | 9.8 | 11.2 | 11.6 |
| 92.5° | 8.6 | 8.4 | 8.1 | 7.7 | 7.5 | 7.8 | 8.9 | 9.9 | 10.9 | 11.9 | 12.6 |
| 95° | 28.4 | 24.1 | 19.9 | 15.7 | 11.4 | 9.9 | 11.0 | 12.1 | 13.3 | 14.4 | 15.2 |
| 97.5° | 57.0 | 55.1 | 53.2 | 51.3 | 49.4 | 44.8 | 37.3 | 29.8 | 22.4 | 15.0 | 15.8 |
| 100° | 78.6 | 80.6 | 82.8 | 84.8 | 86.8 | 79.8 | 63.7 | 47.6 | 31.5 | 15.3 | 16.1 |
| 102.5° | 103.1 | 104.6 | 106.2 | 107.6 | 109.1 | 101.0 | 83.4 | 65.8 | 48.2 | 30.6 | 28.0 |
| 105° | 138.6 | 139.7 | 140.9 | 141.9 | 143.1 | 139.0 | 129.7 | 120.4 | 111.1 | 101.8 | 83.6 |
| 107.5° | 175.9 | 176.8 | 177.8 | 178.7 | 179.6 | 180.8 | 182.2 | 183.7 | 185.2 | 186.6 | 173.3 |
| 110° | 200.9 | 201.7 | 202.5 | 203.3 | 204.2 | 205.2 | 206.3 | 207.4 | 208.6 | 209.7 | 206.3 |



TEST NUMBER: P332249-930

CATALOG NUMBER: S123RDIP-S340D585U930-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 224.7 | 225.4 | 226.2 | 226.9 | 227.6 | 228.6 | 229.8 | 230.9 | 232.0 | 233.2 | 233.3 |
| 115° | 259.9 | 260.6 | 261.1 | 261.8 | 262.4 | 263.2 | 264.2 | 265.1 | 266.0 | 266.9 | 268.0 |
| 117.5° | 294.1 | 294.8 | 295.6 | 296.4 | 297.1 | 297.7 | 298.2 | 298.7 | 299.2 | 299.6 | 300.5 |
| 120° | 315.3 | 316.2 | 317.2 | 318.0 | 319.0 | 319.6 | 319.9 | 320.2 | 320.6 | 320.8 | 321.7 |
| 122.5° | 336.9 | 337.6 | 338.3 | 339.2 | 339.9 | 340.5 | 340.9 | 341.3 | 341.7 | 342.1 | 342.7 |
| 125° | 366.4 | 367.3 | 368.1 | 368.9 | 369.7 | 370.4 | 370.8 | 371.2 | 371.6 | 372.0 | 372.2 |
| 127.5° | 395.1 | 395.9 | 396.7 | 397.5 | 398.4 | 399.0 | 399.5 | 400.1 | 400.6 | 401.0 | 401.4 |
| 130° | 412.9 | 413.8 | 414.6 | 415.4 | 416.2 | 416.9 | 417.3 | 417.7 | 418.1 | 418.5 | 418.9 |
| 132.5° | 430.1 | 430.9 | 431.7 | 432.5 | 433.3 | 433.9 | 434.2 | 434.6 | 434.9 | 435.3 | 435.7 |
| 135° | 456.2 | 456.8 | 457.4 | 458.0 | 458.7 | 459.2 | 459.6 | 460.0 | 460.4 | 460.8 | 461.1 |
| 137.5° | 478.5 | 479.3 | 480.0 | 480.9 | 481.6 | 482.2 | 482.3 | 482.6 | 482.8 | 483.1 | 483.6 |
| 140° | 493.3 | 494.0 | 494.6 | 495.2 | 495.9 | 496.4 | 496.6 | 496.9 | 497.3 | 497.6 | 498.0 |
| 142.5° | 507.1 | 507.8 | 508.4 | 509.0 | 509.6 | 510.1 | 510.4 | 510.7 | 511.0 | 511.4 | 511.7 |
| 145° | 526.4 | 527.1 | 527.8 | 528.6 | 529.3 | 529.8 | 529.9 | 530.2 | 530.4 | 530.6 | 530.8 |
| 147.5° | 544.5 | 545.0 | 545.5 | 545.9 | 546.4 | 546.7 | 547.0 | 547.1 | 547.4 | 547.6 | 547.8 |
| 150° | 555.7 | 556.0 | 556.3 | 556.6 | 556.9 | 557.2 | 557.4 | 557.6 | 557.8 | 558.0 | 558.2 |
| 152.5° | 565.7 | 565.9 | 566.0 | 566.1 | 566.3 | 566.5 | 566.6 | 566.7 | 566.8 | 567.0 | 567.3 |
| 155° | 579.8 | 579.7 | 579.4 | 579.3 | 579.0 | 579.0 | 579.1 | 579.2 | 579.3 | 579.4 | 579.9 |
| 157.5° | 590.8 | 590.8 | 590.8 | 590.8 | 590.8 | 590.7 | 590.6 | 590.5 | 590.4 | 590.3 | 590.9 |
| 160° | 597.5 | 597.5 | 597.4 | 597.2 | 597.1 | 597.0 | 596.9 | 596.8 | 596.7 | 596.6 | 597.2 |
| 162.5° | 603.9 | 603.6 | 603.3 | 603.1 | 602.8 | 602.6 | 602.5 | 602.4 | 602.3 | 602.2 | 602.9 |
| 165° | 611.5 | 611.1 | 610.9 | 610.6 | 610.3 | 610.0 | 609.9 | 609.8 | 609.8 | 609.6 | 610.5 |
| 167.5° | 617.4 | 617.0 | 616.6 | 616.2 | 615.8 | 615.6 | 615.6 | 615.6 | 615.6 | 615.6 | 616.4 |
| 170° | 620.8 | 620.4 | 620.0 | 619.5 | 619.1 | 618.9 | 618.9 | 618.9 | 618.9 | 618.9 | 619.8 |
| 172.5° | 623.1 | 622.6 | 622.0 | 621.5 | 621.0 | 620.9 | 620.9 | 621.0 | 621.1 | 621.2 | 622.0 |
| 175° | 625.9 | 625.4 | 624.8 | 624.4 | 623.9 | 623.6 | 623.7 | 623.9 | 623.9 | 624.0 | 624.8 |
| 177.5° | 626.6 | 626.2 | 625.8 | 625.4 | 625.0 | 624.8 | 624.9 | 625.0 | 625.1 | 625.2 | 625.8 |
| 180° | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 |



TEST NUMBER: P332249-930

CATALOG NUMBER: S123RDIP-S340D585U930-4F0-1E-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° | 6.2 | 6.2 | 6.3 | 6.3 | 6.2 | 6.2 | 6.2 | 6.1 |
| 90° | 12.0 | 12.4 | 12.8 | 13.1 | 13.4 | 13.5 | 13.8 | 13.9 |
| 92.5° | 13.2 | 13.9 | 14.5 | 14.9 | 15.1 | 15.2 | 15.3 | 15.4 |
| 95° | 15.9 | 16.6 | 17.3 | 17.7 | 17.7 | 17.7 | 17.7 | 17.7 |
| 97.5° | 16.6 | 17.4 | 18.3 | 18.8 | 18.8 | 18.9 | 19.1 | 19.2 |
| 100° | 17.0 | 17.9 | 18.7 | 19.1 | 19.2 | 19.3 | 19.4 | 19.6 |
| 102.5° | 25.4 | 22.9 | 20.4 | 19.2 | 19.3 | 19.6 | 19.7 | 19.9 |
| 105° | 65.2 | 47.0 | 28.7 | 19.6 | 19.8 | 20.1 | 20.2 | 20.5 |
| 107.5° | 159.8 | 146.4 | 133.0 | 119.4 | 105.6 | 91.8 | 78.0 | 64.2 |
| 110° | 202.9 | 199.5 | 196.1 | 186.9 | 172.2 | 157.4 | 142.7 | 127.8 |



TEST NUMBER: P332249-930

CATALOG NUMBER: S123RDIP-S340D585U930-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 233.3 | 233.3 | 233.4 | 231.9 | 228.8 | 225.6 | 222.5 | 219.4 |
| 115° | 269.0 | 270.0 | 271.1 | 271.7 | 272.1 | 272.6 | 273.0 | 273.5 |
| 117.5° | 301.3 | 302.1 | 303.0 | 303.5 | 303.5 | 303.6 | 303.7 | 303.8 |
| 120° | 322.5 | 323.3 | 324.2 | 324.6 | 324.6 | 324.6 | 324.6 | 324.6 |
| 122.5° | 343.2 | 343.8 | 344.4 | 344.7 | 344.8 | 344.9 | 345.0 | 345.0 |
| 125° | 372.4 | 372.6 | 372.8 | 373.1 | 373.2 | 373.5 | 373.7 | 373.9 |
| 127.5° | 401.7 | 402.0 | 402.4 | 402.4 | 402.2 | 402.0 | 401.8 | 401.6 |
| 130° | 419.3 | 419.7 | 420.1 | 420.3 | 420.0 | 419.9 | 419.6 | 419.5 |
| 132.5° | 436.1 | 436.5 | 436.9 | 437.0 | 436.7 | 436.3 | 436.1 | 435.8 |
| 135° | 461.5 | 461.8 | 462.0 | 462.0 | 461.8 | 461.5 | 461.1 | 460.8 |
| 137.5° | 484.0 | 484.5 | 485.0 | 485.2 | 484.9 | 484.8 | 484.5 | 484.4 |
| 140° | 498.4 | 498.8 | 499.2 | 499.3 | 499.1 | 498.9 | 498.7 | 498.5 |
| 142.5° | 512.0 | 512.3 | 512.7 | 512.7 | 512.4 | 512.1 | 511.8 | 511.5 |
| 145° | 531.0 | 531.2 | 531.4 | 531.5 | 531.5 | 531.5 | 531.5 | 531.5 |
| 147.5° | 548.0 | 548.2 | 548.5 | 548.3 | 547.8 | 547.3 | 546.9 | 546.4 |
| 150° | 558.4 | 558.6 | 558.8 | 558.8 | 558.5 | 558.2 | 557.8 | 557.6 |
| 152.5° | 567.7 | 568.0 | 568.4 | 568.3 | 567.9 | 567.4 | 567.0 | 566.5 |
| 155° | 580.4 | 581.0 | 581.5 | 581.4 | 580.8 | 580.2 | 579.6 | 578.9 |
| 157.5° | 591.5 | 592.2 | 592.8 | 592.6 | 591.8 | 591.1 | 590.3 | 589.5 |
| 160° | 597.9 | 598.4 | 599.1 | 599.0 | 598.3 | 597.6 | 596.9 | 596.1 |
| 162.5° | 603.6 | 604.3 | 605.0 | 605.0 | 604.4 | 603.7 | 603.1 | 602.5 |
| 165° | 611.3 | 612.1 | 612.9 | 613.0 | 612.3 | 611.6 | 610.8 | 610.1 |
| 167.5° | 617.3 | 618.1 | 618.9 | 618.9 | 618.1 | 617.3 | 616.4 | 615.6 |
| 170° | 620.6 | 621.4 | 622.2 | 622.2 | 621.4 | 620.6 | 619.8 | 618.9 |
| 172.5° | 622.8 | 623.6 | 624.4 | 624.4 | 623.5 | 622.6 | 621.7 | 620.8 |
| 175° | 625.5 | 626.2 | 627.0 | 626.9 | 626.1 | 625.3 | 624.4 | 623.5 |
| 177.5° | 626.5 | 627.1 | 627.8 | 627.7 | 626.9 | 626.1 | 625.3 | 624.4 |
| 180° | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 | 625.9 |

(END OF REPORT)