

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: P332250-930

Luminaire Tested: **S123RDIP-S340D585U930-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332250-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
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-F1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 585 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2700.1 lumens
Efficiency: N/A
Efficacy: 105.5 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

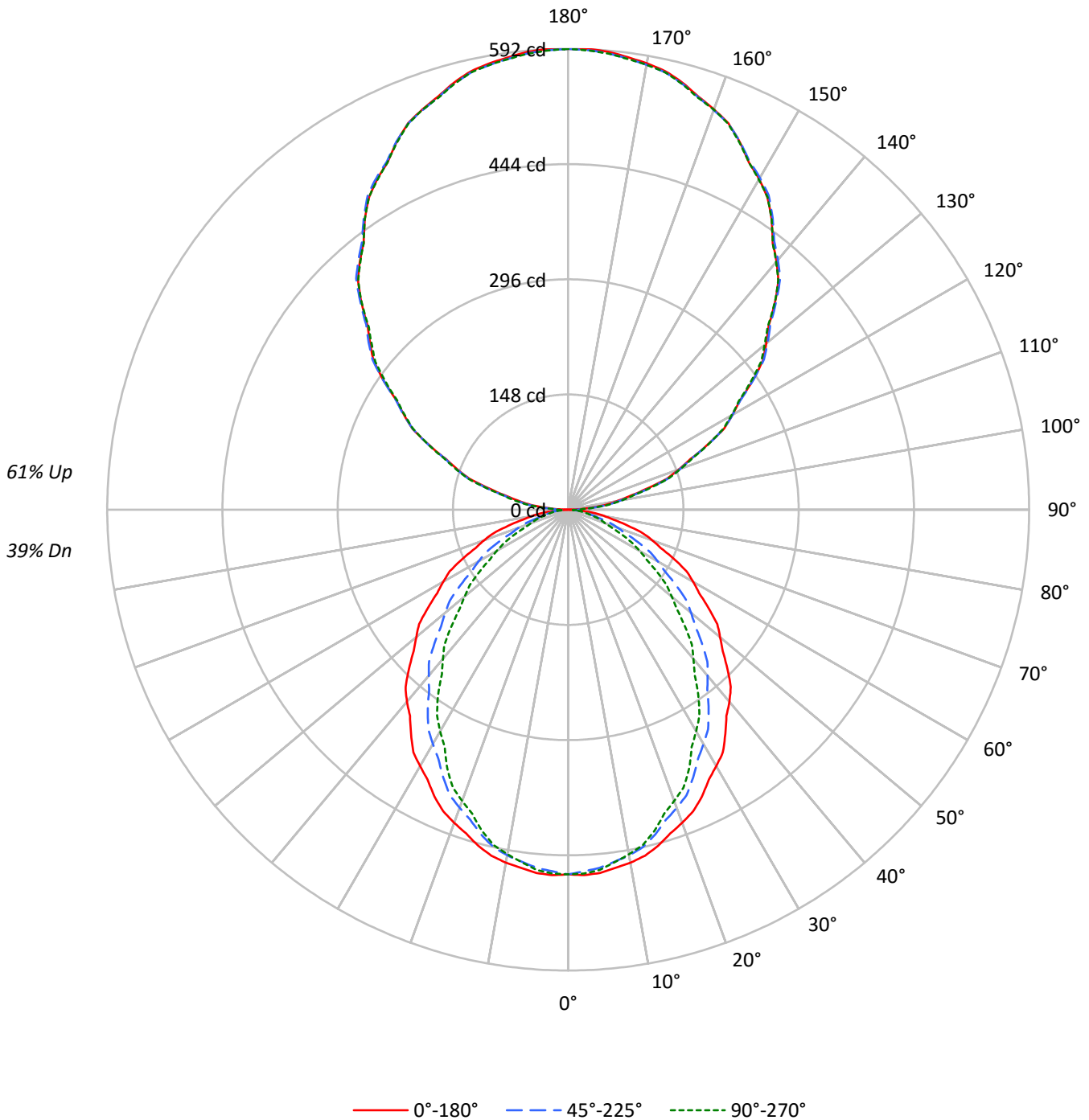
Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332250-930

CATALOG NUMBER: S123RDIP-S340D585U930-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P332250-930

CATALOG NUMBER: S123RDIP-S340D585U930-4F0-1E-UDD-F1

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 | 105 | 105 | 105 | 105 | 95 | 95 | 95 | 95 | 77 | 77 | 77 | 61 | 61 | 61 | 46 | 46 | 46 | 39 |
| 1 | 96 | 91 | 88 | 84 | 87 | 83 | 80 | 77 | 68 | 66 | 64 | 54 | 53 | 51 | 41 | 40 | 40 | 34 |
| 2 | 87 | 80 | 74 | 69 | 79 | 73 | 68 | 64 | 60 | 56 | 53 | 48 | 45 | 43 | 37 | 35 | 34 | 29 |
| 3 | 80 | 71 | 64 | 58 | 72 | 65 | 58 | 54 | 53 | 49 | 45 | 42 | 39 | 37 | 33 | 31 | 29 | 24 |
| 4 | 73 | 63 | 55 | 49 | 66 | 57 | 51 | 46 | 47 | 42 | 39 | 38 | 34 | 32 | 29 | 27 | 25 | 21 |
| 5 | 67 | 56 | 48 | 42 | 61 | 51 | 44 | 39 | 42 | 37 | 33 | 34 | 30 | 28 | 26 | 24 | 22 | 19 |
| 6 | 62 | 50 | 42 | 37 | 56 | 46 | 39 | 34 | 38 | 33 | 29 | 31 | 27 | 24 | 24 | 21 | 19 | 16 |
| 7 | 57 | 45 | 37 | 32 | 52 | 42 | 35 | 30 | 35 | 29 | 26 | 28 | 24 | 21 | 22 | 19 | 17 | 15 |
| 8 | 53 | 41 | 33 | 28 | 48 | 38 | 31 | 26 | 32 | 26 | 23 | 26 | 22 | 19 | 20 | 18 | 16 | 13 |
| 9 | 49 | 37 | 30 | 25 | 45 | 34 | 28 | 24 | 29 | 24 | 20 | 24 | 20 | 17 | 19 | 16 | 14 | 12 |
| 10 | 46 | 34 | 27 | 23 | 42 | 32 | 25 | 21 | 27 | 22 | 18 | 22 | 18 | 16 | 17 | 15 | 13 | 11 |

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: P332250-930

CATALOG NUMBER: S123RDIP-S340D585U930-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 44.0 | 1.6 |
| 10°-20° | 122.4 | 4.5 |
| 20°-30° | 176.2 | 6.5 |
| 30°-40° | 198.5 | 7.4 |
| 40°-50° | 189.9 | 7.0 |
| 50°-60° | 155.5 | 5.8 |
| 60°-70° | 104.9 | 3.9 |
| 70°-80° | 52.8 | 2.0 |
| 80°-90° | 15.7 | 0.6 |
| 90°-100° | 38.6 | 1.4 |
| 100°-110° | 115.4 | 4.3 |
| 110°-120° | 196.3 | 7.3 |
| 120°-130° | 258.2 | 9.6 |
| 130°-140° | 290.3 | 10.7 |
| 140°-150° | 285.3 | 10.6 |
| 150°-160° | 240.2 | 8.9 |
| 160°-170° | 159.9 | 5.9 |
| 170°-180° | 56.0 | 2.1 |
| 0°-30° | 342.6 | 12.7 |
| 0°-40° | 541.1 | 20.0 |
| 0°-60° | 886.5 | 32.8 |
| 0°-90° | 1059.9 | 39.3 |
| 90°-120° | 350.3 | 13.0 |
| 90°-150° | 1184.1 | 43.9 |
| 90°-180° | 1640.0 | 60.7 |
| 0°-180° | 2700.1 | 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 | 3 |
| 95° | 28 | 31 | 34 | 36 | 36 | 31 |
| 105° | 105 | 106 | 110 | 110 | 111 | 112 |
| 115° | 198 | 199 | 198 | 198 | 198 | 195 |
| 125° | 289 | 291 | 290 | 288 | 286 | 258 |
| 135° | 375 | 378 | 378 | 376 | 375 | 289 |
| 145° | 455 | 456 | 458 | 457 | 455 | 284 |
| 155° | 521 | 521 | 522 | 523 | 520 | 240 |
| 165° | 568 | 566 | 566 | 569 | 566 | 160 |
| 175° | 591 | 589 | 589 | 591 | 588 | 56 |
| 180° | 592 | 592 | 592 | 592 | 592 | |



TEST NUMBER: P332250-930

CATALOG NUMBER: S123RDIP-S340D585U930-4F0-1E-UDD-F1

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° | 11.3 | 12.0 | 12.6 | 13.4 | 14.1 | 14.8 | 15.6 | 16.3 | 17.1 | 17.9 | 18.2 |
| 95° | 27.5 | 28.1 | 28.9 | 29.6 | 30.3 | 31.1 | 32.0 | 32.8 | 33.6 | 34.4 | 34.8 |
| 97.5° | 48.8 | 49.2 | 49.8 | 50.4 | 50.9 | 51.4 | 52.0 | 52.7 | 53.2 | 53.9 | 54.3 |
| 100° | 63.3 | 63.8 | 64.5 | 65.1 | 65.7 | 66.3 | 66.8 | 67.3 | 67.8 | 68.3 | 68.6 |
| 102.5° | 80.0 | 80.4 | 80.7 | 81.1 | 81.4 | 82.0 | 82.7 | 83.4 | 84.1 | 84.7 | 85.0 |
| 105° | 104.6 | 104.8 | 105.0 | 105.3 | 105.5 | 106.0 | 107.0 | 107.9 | 108.8 | 109.7 | 109.7 |
| 107.5° | 133.3 | 133.4 | 133.5 | 133.6 | 133.8 | 134.0 | 134.4 | 134.8 | 135.2 | 135.5 | 135.8 |
| 110° | 151.2 | 151.3 | 151.6 | 151.7 | 152.0 | 152.1 | 152.4 | 152.6 | 152.8 | 153.0 | 153.4 |



TEST NUMBER: P332250-930

CATALOG NUMBER: S123RDIP-S340D585U930-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 169.7 | 169.8 | 170.0 | 170.1 | 170.2 | 170.3 | 170.4 | 170.4 | 170.5 | 170.5 | 171.0 |
| 115° | 197.6 | 198.0 | 198.3 | 198.6 | 198.9 | 198.9 | 198.7 | 198.5 | 198.3 | 198.1 | 198.2 |
| 117.5° | 225.8 | 225.9 | 226.2 | 226.3 | 226.6 | 226.5 | 226.2 | 226.0 | 225.8 | 225.4 | 225.4 |
| 120° | 243.2 | 243.9 | 244.4 | 245.1 | 245.7 | 245.7 | 245.2 | 244.8 | 244.2 | 243.7 | 243.6 |
| 122.5° | 261.5 | 261.9 | 262.4 | 262.8 | 263.3 | 263.3 | 263.1 | 262.9 | 262.5 | 262.3 | 262.0 |
| 125° | 289.3 | 289.6 | 289.8 | 290.2 | 290.5 | 290.6 | 290.3 | 290.2 | 289.9 | 289.8 | 289.3 |
| 127.5° | 315.0 | 315.6 | 316.3 | 316.9 | 317.6 | 317.8 | 317.6 | 317.3 | 317.1 | 316.9 | 316.3 |
| 130° | 332.1 | 332.9 | 333.7 | 334.5 | 335.3 | 335.6 | 335.3 | 335.0 | 334.7 | 334.4 | 333.9 |
| 132.5° | 349.1 | 350.0 | 350.8 | 351.6 | 352.5 | 352.8 | 352.5 | 352.3 | 352.0 | 351.9 | 351.3 |
| 135° | 375.3 | 375.9 | 376.5 | 377.2 | 377.7 | 378.1 | 377.9 | 377.8 | 377.7 | 377.6 | 377.2 |
| 137.5° | 399.5 | 400.0 | 400.5 | 401.0 | 401.5 | 401.9 | 402.2 | 402.4 | 402.8 | 403.0 | 402.6 |
| 140° | 416.2 | 416.7 | 417.3 | 417.8 | 418.2 | 418.6 | 418.7 | 418.8 | 418.9 | 419.0 | 418.9 |
| 142.5° | 431.5 | 431.9 | 432.5 | 433.0 | 433.5 | 433.9 | 434.1 | 434.2 | 434.5 | 434.6 | 434.6 |
| 145° | 455.3 | 455.5 | 455.7 | 455.9 | 456.1 | 456.3 | 456.6 | 457.0 | 457.3 | 457.6 | 457.5 |
| 147.5° | 476.1 | 476.5 | 476.9 | 477.2 | 477.6 | 477.9 | 478.3 | 478.5 | 478.8 | 479.1 | 479.1 |
| 150° | 490.6 | 490.8 | 491.1 | 491.2 | 491.5 | 491.6 | 491.9 | 492.0 | 492.3 | 492.4 | 492.4 |
| 152.5° | 502.6 | 502.8 | 503.1 | 503.4 | 503.7 | 503.9 | 504.0 | 504.1 | 504.3 | 504.3 | 504.5 |
| 155° | 521.3 | 521.3 | 521.3 | 521.3 | 521.3 | 521.4 | 521.5 | 521.5 | 521.7 | 521.8 | 522.2 |
| 157.5° | 537.3 | 537.2 | 537.0 | 537.0 | 536.8 | 536.8 | 536.9 | 537.0 | 537.0 | 537.1 | 537.5 |
| 160° | 547.3 | 547.1 | 546.9 | 546.7 | 546.5 | 546.4 | 546.4 | 546.4 | 546.4 | 546.4 | 546.9 |
| 162.5° | 556.3 | 556.0 | 555.7 | 555.4 | 555.1 | 555.1 | 555.1 | 555.2 | 555.3 | 555.4 | 555.9 |
| 165° | 567.8 | 567.5 | 567.2 | 566.9 | 566.6 | 566.4 | 566.4 | 566.4 | 566.4 | 566.4 | 567.0 |
| 167.5° | 577.0 | 576.6 | 576.2 | 575.8 | 575.4 | 575.2 | 575.3 | 575.4 | 575.4 | 575.5 | 576.2 |
| 170° | 582.2 | 581.8 | 581.4 | 581.0 | 580.6 | 580.3 | 580.3 | 580.3 | 580.3 | 580.3 | 581.1 |
| 172.5° | 586.3 | 585.9 | 585.5 | 585.1 | 584.7 | 584.5 | 584.5 | 584.5 | 584.5 | 584.5 | 585.1 |
| 175° | 590.6 | 590.2 | 589.8 | 589.4 | 589.0 | 588.7 | 588.7 | 588.7 | 588.7 | 588.7 | 589.4 |
| 177.5° | 592.4 | 592.1 | 591.7 | 591.3 | 591.0 | 590.8 | 590.8 | 590.8 | 590.8 | 590.8 | 591.3 |
| 180° | 592.0 | 592.0 | 592.0 | 592.0 | 592.0 | 592.0 | 592.0 | 592.0 | 592.0 | 592.0 | 592.0 |



TEST NUMBER: P332250-930

CATALOG NUMBER: S123RDIP-S340D585U930-4F0-1E-UDD-F1

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° | 18.5 | 18.8 | 19.2 | 19.3 | 19.2 | 19.0 | 18.9 | 18.8 |
| 95° | 35.2 | 35.6 | 36.0 | 36.3 | 36.3 | 36.3 | 36.3 | 36.3 |
| 97.5° | 54.8 | 55.3 | 55.8 | 55.9 | 55.9 | 55.8 | 55.8 | 55.8 |
| 100° | 69.0 | 69.3 | 69.6 | 69.9 | 70.0 | 70.3 | 70.4 | 70.7 |
| 102.5° | 85.4 | 85.7 | 85.9 | 86.1 | 86.1 | 86.0 | 86.0 | 85.9 |
| 105° | 109.7 | 109.7 | 109.7 | 109.8 | 110.1 | 110.2 | 110.5 | 110.7 |
| 107.5° | 136.2 | 136.5 | 136.8 | 137.0 | 136.8 | 136.7 | 136.6 | 136.5 |
| 110° | 153.8 | 154.3 | 154.7 | 154.7 | 154.6 | 154.3 | 154.2 | 153.9 |



TEST NUMBER: P332250-930

CATALOG NUMBER: S123RDIP-S340D585U930-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 171.5 | 171.9 | 172.4 | 172.7 | 172.7 | 172.6 | 172.6 | 172.5 |
| 115° | 198.3 | 198.4 | 198.5 | 198.5 | 198.4 | 198.3 | 198.2 | 198.1 |
| 117.5° | 225.4 | 225.3 | 225.3 | 225.2 | 224.9 | 224.6 | 224.4 | 224.0 |
| 120° | 243.4 | 243.4 | 243.3 | 243.1 | 242.9 | 242.7 | 242.5 | 242.3 |
| 122.5° | 261.7 | 261.5 | 261.2 | 260.9 | 260.7 | 260.3 | 260.1 | 259.8 |
| 125° | 288.9 | 288.5 | 288.0 | 287.6 | 287.2 | 286.8 | 286.4 | 286.0 |
| 127.5° | 315.7 | 315.1 | 314.5 | 314.1 | 313.6 | 313.1 | 312.6 | 312.1 |
| 130° | 333.5 | 333.1 | 332.7 | 332.2 | 331.4 | 330.7 | 330.0 | 329.2 |
| 132.5° | 350.8 | 350.3 | 349.8 | 349.4 | 348.8 | 348.2 | 347.6 | 347.1 |
| 135° | 376.7 | 376.3 | 375.9 | 375.6 | 375.4 | 375.2 | 375.0 | 374.8 |
| 137.5° | 402.1 | 401.7 | 401.3 | 400.9 | 400.5 | 400.1 | 399.7 | 399.3 |
| 140° | 418.8 | 418.7 | 418.6 | 418.2 | 417.4 | 416.7 | 416.0 | 415.3 |
| 142.5° | 434.4 | 434.3 | 434.2 | 433.9 | 433.3 | 432.8 | 432.2 | 431.6 |
| 145° | 457.4 | 457.3 | 457.2 | 456.9 | 456.5 | 456.1 | 455.7 | 455.3 |
| 147.5° | 479.1 | 479.1 | 479.1 | 478.7 | 478.2 | 477.5 | 477.0 | 476.3 |
| 150° | 492.4 | 492.4 | 492.4 | 492.2 | 491.5 | 490.9 | 490.3 | 489.7 |
| 152.5° | 504.8 | 504.9 | 505.1 | 504.8 | 504.3 | 503.8 | 503.3 | 502.7 |
| 155° | 522.6 | 523.0 | 523.4 | 523.3 | 522.5 | 521.8 | 521.1 | 520.4 |
| 157.5° | 538.0 | 538.4 | 538.8 | 538.7 | 538.2 | 537.6 | 537.0 | 536.5 |
| 160° | 547.5 | 548.0 | 548.5 | 548.5 | 548.1 | 547.7 | 547.3 | 546.9 |
| 162.5° | 556.4 | 556.9 | 557.4 | 557.3 | 556.7 | 556.0 | 555.4 | 554.7 |
| 165° | 567.7 | 568.3 | 568.9 | 568.8 | 568.1 | 567.4 | 566.7 | 566.0 |
| 167.5° | 576.8 | 577.5 | 578.1 | 578.1 | 577.5 | 576.8 | 576.2 | 575.5 |
| 170° | 581.8 | 582.5 | 583.3 | 583.3 | 582.5 | 581.8 | 581.1 | 580.3 |
| 172.5° | 585.7 | 586.4 | 587.0 | 587.0 | 586.3 | 585.5 | 584.8 | 584.1 |
| 175° | 590.0 | 590.6 | 591.3 | 591.2 | 590.4 | 589.7 | 589.0 | 588.2 |
| 177.5° | 591.9 | 592.4 | 592.9 | 592.8 | 592.2 | 591.7 | 591.1 | 590.5 |
| 180° | 592.0 | 592.0 | 592.0 | 592.0 | 592.0 | 592.0 | 592.0 | 592.0 |

(END OF REPORT)