

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: P333018-840

Luminaire Tested: **S124RDIW-S350D470U840-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333018-840
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDIW-S350D470U840-4F0-1E-UDD-F1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 470 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3085.7 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: General Diffuse

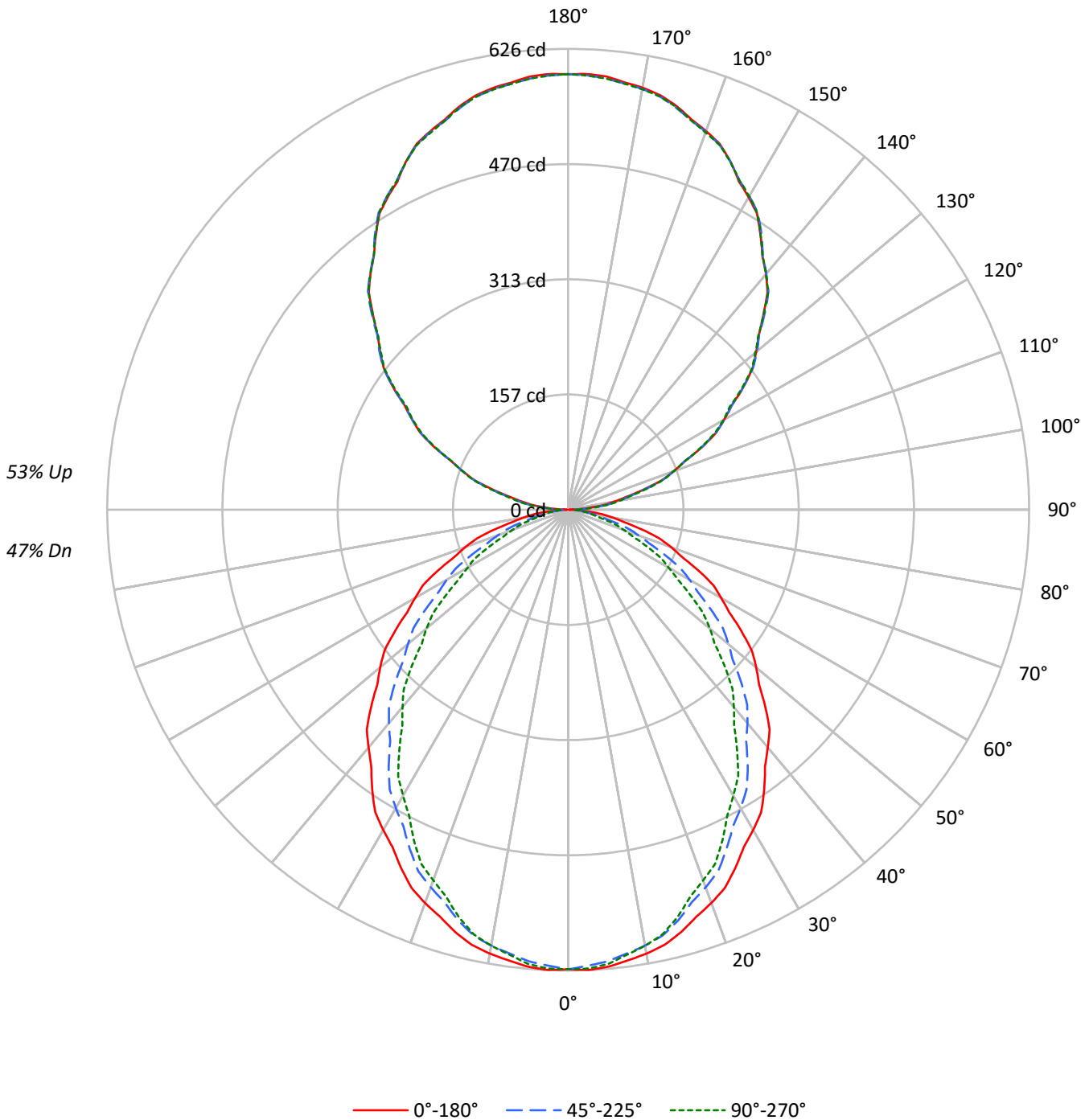
Input Watts (W): 23
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333018-840

CATALOG NUMBER: S124RDIW-S350D470U840-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P333018-840

CATALOG NUMBER: S124RDIW-S350D470U840-4F0-1E-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 | 106 | 106 | 106 | 106 | 98 | 98 | 98 | 98 | 82 | 82 | 82 | 67 | 67 | 67 | 53 | 53 | 53 | 47 |
| 1 | 97 | 93 | 89 | 86 | 89 | 86 | 82 | 80 | 72 | 70 | 67 | 59 | 58 | 56 | 47 | 46 | 45 | 40 |
| 2 | 89 | 82 | 76 | 71 | 81 | 75 | 70 | 66 | 63 | 59 | 56 | 52 | 50 | 47 | 42 | 40 | 39 | 34 |
| 3 | 81 | 72 | 65 | 59 | 74 | 66 | 60 | 55 | 56 | 51 | 48 | 46 | 43 | 40 | 37 | 35 | 33 | 29 |
| 4 | 74 | 64 | 56 | 50 | 68 | 59 | 52 | 47 | 50 | 45 | 41 | 41 | 38 | 35 | 34 | 31 | 29 | 25 |
| 5 | 68 | 57 | 49 | 43 | 63 | 53 | 46 | 40 | 45 | 39 | 35 | 37 | 33 | 30 | 30 | 27 | 25 | 22 |
| 6 | 63 | 51 | 43 | 37 | 58 | 47 | 40 | 35 | 40 | 35 | 31 | 34 | 30 | 26 | 28 | 25 | 22 | 19 |
| 7 | 58 | 46 | 38 | 33 | 53 | 43 | 36 | 31 | 37 | 31 | 27 | 31 | 27 | 23 | 25 | 22 | 20 | 17 |
| 8 | 54 | 42 | 34 | 29 | 50 | 39 | 32 | 27 | 33 | 28 | 24 | 28 | 24 | 21 | 23 | 20 | 18 | 15 |
| 9 | 50 | 38 | 31 | 26 | 46 | 36 | 29 | 25 | 31 | 25 | 22 | 26 | 22 | 19 | 21 | 18 | 16 | 14 |
| 10 | 47 | 35 | 28 | 23 | 43 | 33 | 26 | 22 | 28 | 23 | 20 | 24 | 20 | 17 | 20 | 17 | 15 | 13 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 5040 | 5040 | 5040 |
| 5° | 5051 | 4989 | 5020 |
| 10° | 5019 | 4930 | 4930 |
| 15° | 4962 | 4826 | 4790 |
| 20° | 4883 | 4689 | 4603 |
| 25° | 4782 | 4530 | 4415 |
| 30° | 4683 | 4363 | 4180 |
| 35° | 4574 | 4188 | 3943 |
| 40° | 4443 | 3990 | 3687 |
| 45° | 4322 | 3793 | 3427 |
| 50° | 4185 | 3567 | 3152 |
| 55° | 4037 | 3330 | 2853 |
| 60° | 3873 | 3073 | 2546 |
| 65° | 3725 | 2749 | 2245 |
| 70° | 3510 | 2391 | 1907 |
| 75° | 3235 | 1984 | 1550 |
| 80° | 2822 | 1511 | 1423 |
| 85° | 2399 | 1371 | 1278 |



TEST NUMBER: P333018-840

CATALOG NUMBER: S124RDIW-S350D470U840-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 58.6 | 1.9 |
| 10°-20° | 163.5 | 5.3 |
| 20°-30° | 236.1 | 7.7 |
| 30°-40° | 267.7 | 8.7 |
| 40°-50° | 258.5 | 8.4 |
| 50°-60° | 214.9 | 7.0 |
| 60°-70° | 148.4 | 4.8 |
| 70°-80° | 75.2 | 2.4 |
| 80°-90° | 21.1 | 0.7 |
| 90°-100° | 39.0 | 1.3 |
| 100°-110° | 115.6 | 3.7 |
| 110°-120° | 196.2 | 6.4 |
| 120°-130° | 258.7 | 8.4 |
| 130°-140° | 290.6 | 9.4 |
| 140°-150° | 285.5 | 9.3 |
| 150°-160° | 240.2 | 7.8 |
| 160°-170° | 159.8 | 5.2 |
| 170°-180° | 56.0 | 1.8 |
| 0°-30° | 458.3 | 14.9 |
| 0°-40° | 726.0 | 23.5 |
| 0°-60° | 1199.4 | 38.9 |
| 0°-90° | 1444.1 | 46.8 |
| 90°-120° | 350.9 | 11.4 |
| 90°-150° | 1185.7 | 38.4 |
| 90°-180° | 1642.0 | 53.2 |
| 0°-180° | 3085.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 624 | 624 | 624 | 624 | 624 | |
| 5° | 623 | 621 | 616 | 620 | 620 | 59 |
| 15° | 594 | 589 | 577 | 576 | 573 | 167 |
| 25° | 537 | 528 | 509 | 501 | 496 | 247 |
| 35° | 464 | 448 | 425 | 409 | 400 | 290 |
| 45° | 379 | 360 | 332 | 310 | 300 | 292 |
| 55° | 287 | 267 | 237 | 213 | 203 | 256 |
| 65° | 195 | 174 | 144 | 124 | 118 | 193 |
| 75° | 104 | 86 | 64 | 53 | 50 | 110 |
| 85° | 26 | 17 | 15 | 14 | 14 | 29 |
| 90° | 1 | 6 | 10 | 13 | 14 | 3 |
| 95° | 28 | 32 | 35 | 36 | 36 | 31 |
| 105° | 107 | 107 | 109 | 110 | 112 | 113 |
| 115° | 200 | 199 | 199 | 198 | 198 | 197 |
| 125° | 290 | 290 | 290 | 289 | 288 | 259 |
| 135° | 375 | 377 | 378 | 377 | 375 | 290 |
| 145° | 455 | 457 | 458 | 457 | 456 | 285 |
| 155° | 522 | 522 | 521 | 523 | 521 | 240 |
| 165° | 568 | 566 | 566 | 568 | 566 | 160 |
| 175° | 591 | 589 | 588 | 591 | 588 | 56 |
| 180° | 592 | 592 | 592 | 592 | 592 | |



TEST NUMBER: P333018-840

CATALOG NUMBER: S124RDIW-S350D470U840-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 624.3 | 624.3 | 624.3 | 624.3 | 624.3 | 624.3 | 624.3 | 624.3 | 624.3 | 624.3 | 624.3 |
| 2.5° | 625.8 | 625.4 | 625.1 | 624.8 | 624.4 | 623.8 | 622.9 | 622.0 | 621.0 | 620.1 | 621.0 |
| 5° | 623.3 | 622.9 | 622.5 | 622.1 | 621.6 | 620.8 | 619.5 | 618.2 | 616.9 | 615.7 | 616.7 |
| 7.5° | 617.6 | 617.2 | 616.8 | 616.3 | 615.9 | 614.8 | 613.2 | 611.5 | 609.9 | 608.2 | 608.8 |
| 10° | 612.3 | 611.8 | 611.3 | 610.8 | 610.2 | 608.9 | 607.0 | 605.1 | 603.2 | 601.4 | 601.8 |
| 12.5° | 605.4 | 604.8 | 604.2 | 603.6 | 603.0 | 601.6 | 599.3 | 597.0 | 594.8 | 592.5 | 592.8 |
| 15° | 593.7 | 592.7 | 591.8 | 590.8 | 589.9 | 588.0 | 585.4 | 582.7 | 580.1 | 577.4 | 577.2 |
| 17.5° | 579.5 | 578.0 | 576.6 | 575.3 | 573.9 | 571.6 | 568.5 | 565.2 | 562.1 | 558.9 | 558.3 |
| 20° | 568.4 | 566.9 | 565.6 | 564.2 | 562.8 | 560.4 | 556.7 | 553.1 | 549.5 | 545.8 | 545.0 |
| 22.5° | 556.1 | 554.5 | 553.0 | 551.5 | 549.9 | 547.1 | 543.3 | 539.5 | 535.6 | 531.7 | 530.5 |
| 25° | 536.8 | 534.9 | 533.0 | 531.1 | 529.2 | 526.0 | 521.7 | 517.4 | 512.9 | 508.6 | 506.8 |
| 27.5° | 516.5 | 514.1 | 511.7 | 509.4 | 507.0 | 503.4 | 498.8 | 494.1 | 489.5 | 484.8 | 482.5 |
| 30° | 502.4 | 499.7 | 497.1 | 494.4 | 491.8 | 488.0 | 482.9 | 478.0 | 472.9 | 468.0 | 465.3 |
| 32.5° | 487.5 | 484.4 | 481.5 | 478.5 | 475.4 | 471.4 | 466.3 | 461.1 | 456.0 | 450.8 | 447.7 |
| 35° | 464.1 | 460.7 | 457.4 | 453.9 | 450.5 | 446.2 | 440.9 | 435.6 | 430.3 | 425.0 | 421.3 |
| 37.5° | 439.2 | 435.7 | 432.2 | 428.7 | 425.2 | 420.5 | 414.5 | 408.7 | 402.8 | 397.0 | 392.9 |
| 40° | 421.6 | 418.1 | 414.5 | 411.1 | 407.6 | 402.8 | 396.8 | 390.7 | 384.7 | 378.6 | 374.2 |
| 42.5° | 404.8 | 401.1 | 397.4 | 393.7 | 390.1 | 385.1 | 378.8 | 372.4 | 366.2 | 359.8 | 355.3 |
| 45° | 378.6 | 374.7 | 370.7 | 366.8 | 362.8 | 357.7 | 351.3 | 345.0 | 338.6 | 332.2 | 327.0 |
| 47.5° | 351.5 | 347.5 | 343.5 | 339.3 | 335.3 | 329.9 | 323.4 | 316.7 | 310.0 | 303.5 | 298.0 |
| 50° | 333.2 | 329.0 | 324.9 | 320.7 | 316.6 | 311.1 | 304.4 | 297.5 | 290.7 | 284.0 | 278.6 |
| 52.5° | 314.5 | 310.3 | 306.3 | 302.3 | 298.2 | 292.7 | 285.7 | 278.7 | 271.8 | 264.8 | 259.4 |
| 55° | 286.8 | 282.6 | 278.3 | 274.1 | 269.8 | 264.2 | 257.3 | 250.4 | 243.5 | 236.6 | 231.1 |
| 57.5° | 259.4 | 255.0 | 250.6 | 246.2 | 241.8 | 236.2 | 229.3 | 222.6 | 215.8 | 208.9 | 203.4 |
| 60° | 239.9 | 235.7 | 231.5 | 227.2 | 223.0 | 217.4 | 210.7 | 203.8 | 197.0 | 190.3 | 184.7 |
| 62.5° | 222.4 | 217.9 | 213.5 | 209.1 | 204.7 | 199.0 | 192.1 | 185.1 | 178.1 | 171.2 | 166.0 |
| 65° | 195.0 | 190.5 | 185.9 | 181.4 | 176.7 | 171.1 | 164.3 | 157.4 | 150.7 | 143.9 | 139.4 |
| 67.5° | 166.6 | 162.3 | 157.8 | 153.5 | 149.2 | 143.8 | 137.4 | 131.2 | 124.8 | 118.6 | 114.6 |
| 70° | 148.7 | 144.2 | 139.8 | 135.3 | 130.8 | 125.5 | 119.5 | 113.4 | 107.3 | 101.3 | 97.9 |
| 72.5° | 129.6 | 125.5 | 121.5 | 117.4 | 113.4 | 108.6 | 102.8 | 97.0 | 91.4 | 85.6 | 82.7 |
| 75° | 103.7 | 99.8 | 95.8 | 91.9 | 88.0 | 83.5 | 78.6 | 73.5 | 68.6 | 63.6 | 61.1 |
| 77.5° | 77.6 | 74.2 | 70.9 | 67.6 | 64.2 | 60.5 | 56.5 | 52.4 | 48.4 | 44.3 | 42.9 |
| 80° | 60.7 | 57.7 | 54.5 | 51.5 | 48.4 | 45.2 | 42.1 | 38.9 | 35.6 | 32.5 | 32.2 |
| 82.5° | 46.2 | 43.3 | 40.5 | 37.7 | 34.8 | 32.5 | 30.7 | 28.9 | 27.1 | 25.2 | 25.0 |
| 85° | 25.9 | 23.7 | 21.6 | 19.4 | 17.3 | 16.1 | 15.8 | 15.5 | 15.1 | 14.8 | 14.6 |
| 87.5° | 9.1 | 8.6 | 8.2 | 7.7 | 7.3 | 7.1 | 7.2 | 7.2 | 7.3 | 7.4 | 7.4 |
| 90° | 1.4 | 2.5 | 3.6 | 4.7 | 5.9 | 6.8 | 7.7 | 8.5 | 9.3 | 10.1 | 10.7 |
| 92.5° | 9.8 | 11.1 | 12.3 | 13.6 | 14.9 | 15.9 | 16.5 | 17.0 | 17.6 | 18.1 | 18.5 |
| 95° | 27.5 | 28.4 | 29.3 | 30.2 | 31.1 | 31.9 | 32.6 | 33.3 | 34.0 | 34.7 | 35.0 |
| 97.5° | 48.0 | 48.7 | 49.4 | 50.2 | 50.9 | 51.7 | 52.5 | 53.3 | 54.1 | 55.0 | 55.3 |
| 100° | 64.0 | 64.4 | 64.8 | 65.2 | 65.7 | 66.3 | 67.3 | 68.2 | 69.1 | 70.0 | 70.2 |
| 102.5° | 80.9 | 81.1 | 81.2 | 81.4 | 81.6 | 82.1 | 82.9 | 83.7 | 84.5 | 85.4 | 85.6 |
| 105° | 106.6 | 106.7 | 106.8 | 106.9 | 107.0 | 107.2 | 107.7 | 108.1 | 108.5 | 108.9 | 109.2 |
| 107.5° | 133.6 | 133.7 | 133.9 | 134.0 | 134.1 | 134.2 | 134.3 | 134.3 | 134.4 | 134.4 | 134.7 |
| 110° | 151.9 | 152.1 | 152.3 | 152.5 | 152.7 | 152.8 | 152.7 | 152.6 | 152.5 | 152.4 | 152.2 |



TEST NUMBER: P333018-840

CATALOG NUMBER: S124RDIW-S350D470U840-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 171.0 | 171.0 | 171.1 | 171.1 | 171.2 | 171.1 | 170.9 | 170.7 | 170.5 | 170.4 | 170.3 |
| 115° | 199.5 | 199.5 | 199.5 | 199.5 | 199.5 | 199.4 | 199.2 | 199.0 | 198.8 | 198.6 | 198.5 |
| 117.5° | 226.4 | 226.5 | 226.6 | 226.7 | 226.7 | 226.7 | 226.6 | 226.4 | 226.3 | 226.1 | 225.8 |
| 120° | 244.4 | 244.8 | 245.2 | 245.6 | 246.0 | 246.0 | 245.7 | 245.4 | 245.1 | 244.8 | 244.3 |
| 122.5° | 263.1 | 263.2 | 263.4 | 263.5 | 263.7 | 263.7 | 263.6 | 263.4 | 263.3 | 263.2 | 262.8 |
| 125° | 290.5 | 290.5 | 290.5 | 290.5 | 290.5 | 290.5 | 290.4 | 290.3 | 290.2 | 290.1 | 289.9 |
| 127.5° | 315.6 | 315.9 | 316.2 | 316.5 | 316.8 | 316.9 | 316.7 | 316.5 | 316.4 | 316.2 | 316.0 |
| 130° | 333.2 | 333.5 | 333.8 | 334.1 | 334.4 | 334.5 | 334.5 | 334.5 | 334.5 | 334.5 | 334.3 |
| 132.5° | 351.0 | 351.3 | 351.5 | 351.7 | 351.9 | 352.0 | 351.9 | 351.8 | 351.8 | 351.7 | 351.5 |
| 135° | 374.8 | 375.4 | 376.0 | 376.6 | 377.2 | 377.5 | 377.5 | 377.5 | 377.5 | 377.5 | 377.3 |
| 137.5° | 400.6 | 400.9 | 401.1 | 401.4 | 401.7 | 401.9 | 402.1 | 402.3 | 402.4 | 402.6 | 402.3 |
| 140° | 417.8 | 418.0 | 418.2 | 418.4 | 418.6 | 418.7 | 418.7 | 418.7 | 418.7 | 418.7 | 418.6 |
| 142.5° | 433.5 | 433.7 | 433.9 | 434.1 | 434.3 | 434.4 | 434.3 | 434.2 | 434.1 | 434.0 | 434.0 |
| 145° | 455.3 | 455.8 | 456.2 | 456.6 | 457.0 | 457.2 | 457.3 | 457.4 | 457.5 | 457.6 | 457.5 |
| 147.5° | 477.0 | 477.4 | 477.9 | 478.4 | 478.9 | 479.1 | 479.0 | 478.9 | 478.9 | 478.8 | 478.7 |
| 150° | 490.1 | 490.5 | 490.9 | 491.3 | 491.7 | 491.9 | 491.9 | 491.9 | 491.9 | 491.9 | 491.9 |
| 152.5° | 502.5 | 502.8 | 503.0 | 503.3 | 503.5 | 503.7 | 503.7 | 503.8 | 503.9 | 504.0 | 504.2 |
| 155° | 521.7 | 521.7 | 521.7 | 521.7 | 521.7 | 521.6 | 521.5 | 521.4 | 521.3 | 521.2 | 521.6 |
| 157.5° | 537.8 | 537.6 | 537.5 | 537.2 | 537.0 | 536.9 | 536.9 | 536.9 | 536.8 | 536.8 | 537.1 |
| 160° | 547.3 | 547.2 | 547.1 | 547.0 | 546.9 | 546.8 | 546.7 | 546.6 | 546.5 | 546.4 | 546.7 |
| 162.5° | 556.1 | 555.8 | 555.5 | 555.3 | 555.0 | 554.8 | 554.7 | 554.6 | 554.5 | 554.4 | 555.0 |
| 165° | 567.8 | 567.5 | 567.2 | 566.9 | 566.6 | 566.4 | 566.2 | 566.0 | 565.8 | 565.6 | 566.2 |
| 167.5° | 576.9 | 576.5 | 576.1 | 575.7 | 575.2 | 575.0 | 575.0 | 575.1 | 575.1 | 575.1 | 575.7 |
| 170° | 582.1 | 581.6 | 581.1 | 580.6 | 580.1 | 579.9 | 580.0 | 580.1 | 580.2 | 580.3 | 580.9 |
| 172.5° | 585.7 | 585.3 | 584.9 | 584.5 | 584.0 | 583.8 | 583.8 | 583.9 | 583.9 | 583.9 | 584.6 |
| 175° | 590.8 | 590.3 | 589.8 | 589.3 | 588.8 | 588.4 | 588.3 | 588.2 | 588.1 | 588.0 | 588.8 |
| 177.5° | 592.4 | 592.0 | 591.6 | 591.2 | 590.8 | 590.6 | 590.6 | 590.6 | 590.6 | 590.6 | 591.2 |
| 180° | 591.7 | 591.7 | 591.7 | 591.7 | 591.7 | 591.7 | 591.7 | 591.7 | 591.7 | 591.7 | 591.7 |



TEST NUMBER: P333018-840

CATALOG NUMBER: S124RDIW-S350D470U840-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 624.3 | 624.3 | 624.3 | 624.3 | 624.3 | 624.3 | 624.3 | 624.3 |
| 2.5° | 622.0 | 622.9 | 623.8 | 624.2 | 624.1 | 624.1 | 624.0 | 623.9 |
| 5° | 617.8 | 618.8 | 620.0 | 620.4 | 620.2 | 620.0 | 619.7 | 619.5 |
| 7.5° | 609.6 | 610.3 | 611.0 | 611.1 | 610.8 | 610.5 | 610.1 | 609.8 |
| 10° | 602.2 | 602.6 | 603.0 | 603.0 | 602.6 | 602.2 | 601.8 | 601.4 |
| 12.5° | 593.0 | 593.3 | 593.6 | 593.4 | 592.8 | 592.2 | 591.6 | 591.0 |
| 15° | 577.0 | 576.8 | 576.5 | 576.1 | 575.3 | 574.6 | 573.9 | 573.1 |
| 17.5° | 557.6 | 557.1 | 556.5 | 555.6 | 554.5 | 553.4 | 552.3 | 551.2 |
| 20° | 544.2 | 543.3 | 542.5 | 541.4 | 540.0 | 538.6 | 537.2 | 535.8 |
| 22.5° | 529.2 | 527.9 | 526.6 | 525.4 | 524.3 | 523.2 | 522.1 | 520.9 |
| 25° | 504.9 | 503.2 | 501.4 | 500.0 | 498.9 | 497.8 | 496.8 | 495.6 |
| 27.5° | 480.3 | 478.1 | 475.8 | 474.0 | 472.4 | 470.9 | 469.4 | 467.9 |
| 30° | 462.6 | 460.0 | 457.4 | 455.1 | 453.4 | 451.8 | 450.1 | 448.4 |
| 32.5° | 444.6 | 441.5 | 438.5 | 436.1 | 434.4 | 432.8 | 431.2 | 429.6 |
| 35° | 417.7 | 414.1 | 410.5 | 407.8 | 405.9 | 403.9 | 402.0 | 400.1 |
| 37.5° | 388.9 | 384.9 | 380.8 | 377.8 | 375.9 | 374.0 | 372.0 | 370.1 |
| 40° | 369.6 | 365.2 | 360.7 | 357.6 | 355.7 | 353.8 | 351.8 | 349.9 |
| 42.5° | 350.7 | 346.2 | 341.6 | 338.4 | 336.4 | 334.4 | 332.3 | 330.4 |
| 45° | 321.8 | 316.6 | 311.3 | 307.8 | 305.9 | 304.0 | 302.1 | 300.2 |
| 47.5° | 292.7 | 287.2 | 281.9 | 278.1 | 276.0 | 273.9 | 271.8 | 269.7 |
| 50° | 273.3 | 268.0 | 262.7 | 259.0 | 257.0 | 255.0 | 253.0 | 251.0 |
| 52.5° | 254.0 | 248.6 | 243.3 | 239.4 | 237.4 | 235.3 | 233.2 | 231.1 |
| 55° | 225.6 | 220.0 | 214.5 | 210.8 | 208.7 | 206.7 | 204.7 | 202.7 |
| 57.5° | 197.7 | 192.2 | 186.5 | 183.0 | 181.5 | 180.0 | 178.3 | 176.8 |
| 60° | 179.2 | 173.7 | 168.1 | 164.5 | 162.8 | 161.2 | 159.5 | 157.7 |
| 62.5° | 161.0 | 155.8 | 150.8 | 147.5 | 146.1 | 144.8 | 143.4 | 142.1 |
| 65° | 134.7 | 130.2 | 125.6 | 122.7 | 121.4 | 120.2 | 118.9 | 117.5 |
| 67.5° | 110.7 | 106.7 | 102.8 | 100.2 | 98.8 | 97.4 | 95.9 | 94.5 |
| 70° | 94.3 | 90.8 | 87.4 | 85.0 | 83.9 | 82.9 | 81.8 | 80.8 |
| 72.5° | 79.7 | 76.6 | 73.7 | 71.7 | 70.7 | 69.8 | 68.8 | 67.8 |
| 75° | 58.7 | 56.2 | 53.8 | 52.3 | 51.6 | 51.0 | 50.4 | 49.7 |
| 77.5° | 41.5 | 40.1 | 38.7 | 37.9 | 37.7 | 37.5 | 37.3 | 37.1 |
| 80° | 31.9 | 31.5 | 31.2 | 31.0 | 30.9 | 30.8 | 30.7 | 30.6 |
| 82.5° | 24.7 | 24.5 | 24.3 | 24.1 | 24.0 | 23.9 | 23.8 | 23.7 |
| 85° | 14.4 | 14.1 | 13.9 | 13.8 | 13.8 | 13.8 | 13.8 | 13.8 |
| 87.5° | 7.5 | 7.5 | 7.5 | 7.6 | 7.7 | 7.9 | 8.0 | 8.1 |
| 90° | 11.3 | 11.9 | 12.5 | 12.9 | 13.1 | 13.3 | 13.5 | 13.7 |
| 92.5° | 18.9 | 19.2 | 19.6 | 19.8 | 20.0 | 20.1 | 20.2 | 20.3 |
| 95° | 35.3 | 35.6 | 36.0 | 36.2 | 36.2 | 36.2 | 36.2 | 36.2 |
| 97.5° | 55.7 | 56.1 | 56.5 | 56.7 | 56.7 | 56.7 | 56.7 | 56.7 |
| 100° | 70.4 | 70.6 | 70.8 | 70.9 | 70.9 | 70.9 | 70.9 | 70.9 |
| 102.5° | 85.9 | 86.2 | 86.5 | 86.7 | 86.7 | 86.8 | 86.9 | 87.1 |
| 105° | 109.6 | 109.9 | 110.2 | 110.5 | 110.8 | 111.1 | 111.4 | 111.7 |
| 107.5° | 135.0 | 135.3 | 135.6 | 135.7 | 135.7 | 135.7 | 135.6 | 135.6 |
| 110° | 152.0 | 151.8 | 151.6 | 151.6 | 151.9 | 152.2 | 152.5 | 152.8 |



TEST NUMBER: P333018-840

CATALOG NUMBER: S124RDIW-S350D470U840-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 170.3 | 170.2 | 170.2 | 170.2 | 170.3 | 170.3 | 170.4 | 170.4 |
| 115° | 198.4 | 198.3 | 198.2 | 198.1 | 198.0 | 197.9 | 197.8 | 197.7 |
| 117.5° | 225.5 | 225.1 | 224.8 | 224.5 | 224.3 | 224.1 | 223.9 | 223.7 |
| 120° | 243.8 | 243.3 | 242.8 | 242.7 | 242.9 | 243.1 | 243.3 | 243.5 |
| 122.5° | 262.5 | 262.1 | 261.8 | 261.4 | 261.1 | 260.6 | 260.2 | 259.9 |
| 125° | 289.7 | 289.5 | 289.3 | 289.1 | 288.9 | 288.7 | 288.5 | 288.3 |
| 127.5° | 315.8 | 315.6 | 315.4 | 315.2 | 315.1 | 314.9 | 314.8 | 314.6 |
| 130° | 334.1 | 333.9 | 333.7 | 333.4 | 333.0 | 332.5 | 332.1 | 331.7 |
| 132.5° | 351.3 | 351.1 | 350.9 | 350.7 | 350.5 | 350.4 | 350.2 | 350.1 |
| 135° | 377.1 | 376.9 | 376.7 | 376.5 | 376.2 | 375.9 | 375.6 | 375.3 |
| 137.5° | 402.0 | 401.8 | 401.5 | 401.4 | 401.5 | 401.5 | 401.6 | 401.7 |
| 140° | 418.5 | 418.4 | 418.3 | 418.2 | 418.1 | 418.0 | 417.9 | 417.8 |
| 142.5° | 434.0 | 434.0 | 434.0 | 433.9 | 433.9 | 433.9 | 433.9 | 433.9 |
| 145° | 457.4 | 457.3 | 457.2 | 457.0 | 456.7 | 456.4 | 456.1 | 455.8 |
| 147.5° | 478.6 | 478.5 | 478.5 | 478.4 | 478.3 | 478.2 | 478.1 | 478.0 |
| 150° | 491.9 | 491.9 | 491.9 | 491.9 | 491.8 | 491.7 | 491.6 | 491.5 |
| 152.5° | 504.5 | 504.7 | 505.0 | 504.9 | 504.7 | 504.4 | 504.2 | 503.9 |
| 155° | 522.0 | 522.4 | 522.8 | 522.8 | 522.4 | 522.0 | 521.6 | 521.2 |
| 157.5° | 537.5 | 537.8 | 538.1 | 538.1 | 537.8 | 537.3 | 537.0 | 536.6 |
| 160° | 547.0 | 547.3 | 547.6 | 547.5 | 547.0 | 546.5 | 545.9 | 545.4 |
| 162.5° | 555.5 | 556.1 | 556.6 | 556.6 | 556.1 | 555.6 | 555.1 | 554.6 |
| 165° | 566.8 | 567.4 | 568.0 | 568.2 | 567.7 | 567.3 | 566.9 | 566.5 |
| 167.5° | 576.3 | 576.9 | 577.5 | 577.5 | 576.9 | 576.3 | 575.6 | 575.0 |
| 170° | 581.5 | 582.1 | 582.7 | 582.6 | 581.9 | 581.2 | 580.5 | 579.8 |
| 172.5° | 585.3 | 586.0 | 586.6 | 586.6 | 585.9 | 585.2 | 584.5 | 583.8 |
| 175° | 589.5 | 590.2 | 590.9 | 590.9 | 590.2 | 589.5 | 588.8 | 588.0 |
| 177.5° | 591.8 | 592.3 | 592.9 | 592.8 | 592.2 | 591.6 | 590.9 | 590.3 |
| 180° | 591.7 | 591.7 | 591.7 | 591.7 | 591.7 | 591.7 | 591.7 | 591.7 |

(END OF REPORT)