

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: P332720-840

Luminaire Tested: **S124DIW-S350D470U840-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332720-840
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: S124DIW-S350D470U840-4F0-1E-UDD-F1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 470 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3174.2 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: General Diffuse

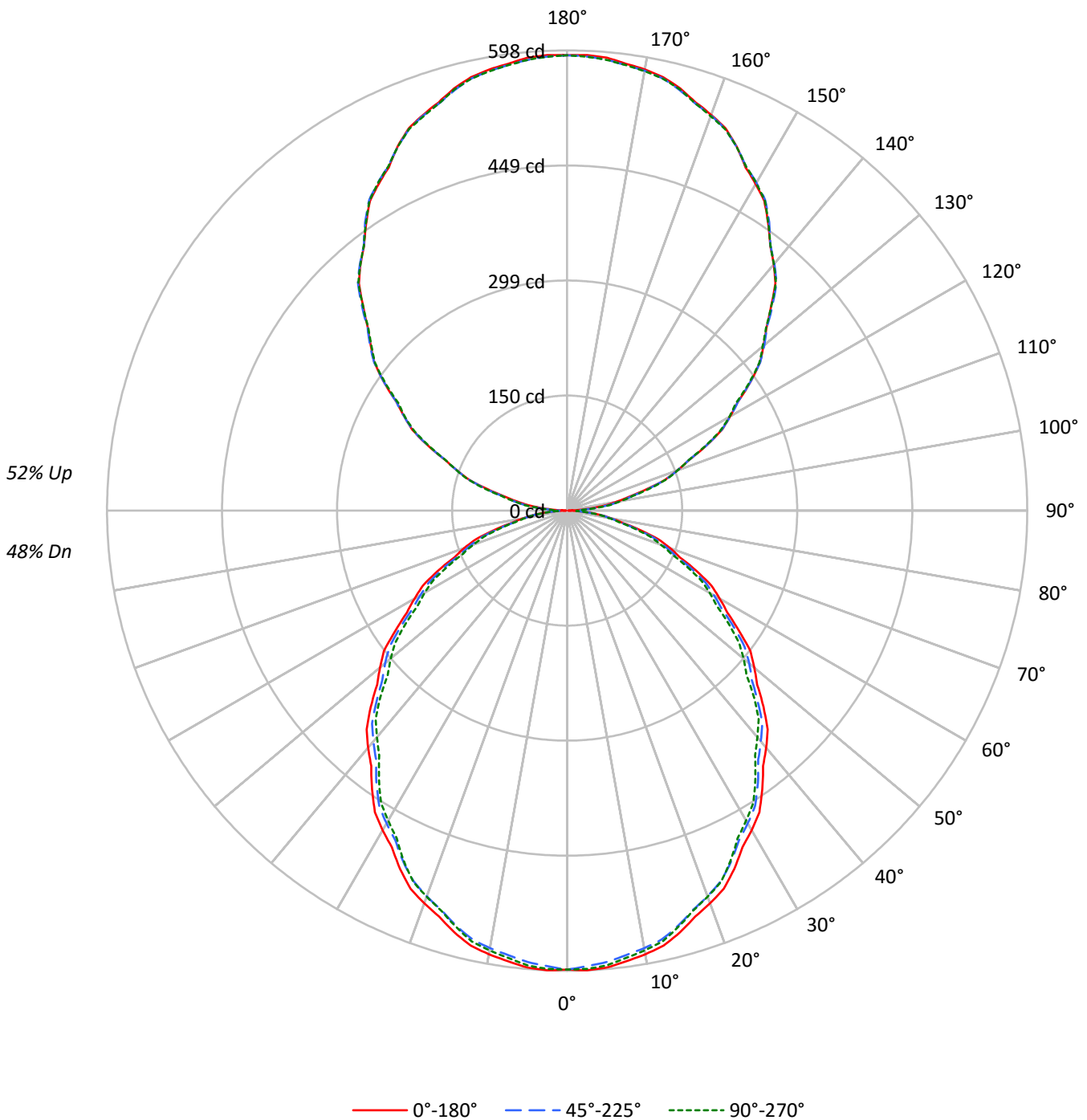
Input Watts (W): 23
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332720-840

CATALOG NUMBER: S124DIW-S350D470U840-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P332720-840

CATALOG NUMBER: S124DIW-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 | 107 | 107 | 107 | 107 | 98 | 98 | 98 | 98 | 82 | 82 | 82 | 68 | 68 | 68 | 55 | 55 | 55 | 48 |
| 1 | 97 | 93 | 89 | 86 | 89 | 86 | 82 | 79 | 72 | 70 | 68 | 60 | 58 | 56 | 48 | 47 | 46 | 41 |
| 2 | 89 | 81 | 75 | 70 | 81 | 75 | 70 | 65 | 63 | 59 | 56 | 52 | 50 | 47 | 42 | 40 | 39 | 34 |
| 3 | 81 | 71 | 64 | 58 | 74 | 66 | 60 | 54 | 56 | 51 | 47 | 46 | 43 | 40 | 38 | 35 | 33 | 29 |
| 4 | 74 | 63 | 55 | 49 | 68 | 58 | 51 | 46 | 50 | 44 | 40 | 41 | 37 | 34 | 34 | 31 | 28 | 25 |
| 5 | 68 | 56 | 48 | 42 | 62 | 52 | 45 | 40 | 44 | 39 | 34 | 37 | 33 | 30 | 30 | 27 | 25 | 21 |
| 6 | 63 | 50 | 42 | 37 | 57 | 47 | 40 | 34 | 40 | 34 | 30 | 33 | 29 | 26 | 27 | 24 | 22 | 19 |
| 7 | 58 | 46 | 38 | 32 | 53 | 42 | 35 | 30 | 36 | 31 | 26 | 30 | 26 | 23 | 25 | 22 | 19 | 17 |
| 8 | 54 | 41 | 34 | 28 | 49 | 38 | 32 | 27 | 33 | 27 | 24 | 28 | 24 | 20 | 23 | 20 | 17 | 15 |
| 9 | 50 | 38 | 30 | 25 | 46 | 35 | 28 | 24 | 30 | 25 | 21 | 26 | 21 | 18 | 21 | 18 | 16 | 13 |
| 10 | 47 | 35 | 27 | 23 | 43 | 32 | 26 | 21 | 28 | 23 | 19 | 24 | 19 | 17 | 20 | 17 | 14 | 12 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4816 | 4816 | 4816 |
| 5° | 4830 | 4772 | 4807 |
| 10° | 4800 | 4733 | 4757 |
| 15° | 4741 | 4667 | 4679 |
| 20° | 4665 | 4582 | 4587 |
| 25° | 4577 | 4488 | 4475 |
| 30° | 4470 | 4376 | 4336 |
| 35° | 4357 | 4258 | 4202 |
| 40° | 4241 | 4126 | 4051 |
| 45° | 4120 | 3995 | 3919 |
| 50° | 3986 | 3878 | 3758 |
| 55° | 3842 | 3727 | 3606 |
| 60° | 3696 | 3559 | 3450 |
| 65° | 3534 | 3396 | 3261 |
| 70° | 3352 | 3182 | 3059 |
| 75° | 3072 | 2923 | 2848 |
| 80° | 2734 | 2627 | 2552 |
| 85° | 2399 | 2297 | 2251 |



TEST NUMBER: P332720-840

CATALOG NUMBER: S124DIW-S350D470U840-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 56.2 | 1.8 |
| 10°-20° | 158.3 | 5.0 |
| 20°-30° | 233.0 | 7.3 |
| 30°-40° | 270.8 | 8.5 |
| 40°-50° | 270.9 | 8.5 |
| 50°-60° | 236.9 | 7.5 |
| 60°-70° | 175.9 | 5.5 |
| 70°-80° | 100.0 | 3.1 |
| 80°-90° | 30.6 | 1.0 |
| 90°-100° | 39.0 | 1.2 |
| 100°-110° | 115.6 | 3.6 |
| 110°-120° | 196.2 | 6.2 |
| 120°-130° | 258.7 | 8.2 |
| 130°-140° | 290.6 | 9.2 |
| 140°-150° | 285.5 | 9.0 |
| 150°-160° | 240.2 | 7.6 |
| 160°-170° | 159.8 | 5.0 |
| 170°-180° | 56.0 | 1.8 |
| 0°-30° | 447.4 | 14.1 |
| 0°-40° | 718.3 | 22.6 |
| 0°-60° | 1226.1 | 38.6 |
| 0°-90° | 1532.6 | 48.3 |
| 90°-120° | 350.9 | 11.1 |
| 90°-150° | 1185.7 | 37.4 |
| 90°-180° | 1642.0 | 51.7 |
| 0°-180° | 3174.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 596 | 596 | 596 | 596 | 596 | |
| 5° | 596 | 594 | 589 | 594 | 593 | 57 |
| 15° | 567 | 565 | 558 | 561 | 560 | 160 |
| 25° | 514 | 510 | 504 | 504 | 502 | 236 |
| 35° | 442 | 439 | 432 | 429 | 426 | 276 |
| 45° | 361 | 357 | 350 | 345 | 343 | 278 |
| 55° | 273 | 271 | 265 | 259 | 256 | 244 |
| 65° | 185 | 182 | 178 | 173 | 171 | 183 |
| 75° | 98 | 96 | 94 | 92 | 91 | 105 |
| 85° | 26 | 26 | 25 | 25 | 24 | 28 |
| 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: P332720-840

CATALOG NUMBER: S124DIW-S350D470U840-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 |
| 2.5° | 598.0 | 597.8 | 597.5 | 597.3 | 597.0 | 596.4 | 595.5 | 594.6 | 593.7 | 592.7 | 593.6 |
| 5° | 596.0 | 595.6 | 595.2 | 594.8 | 594.4 | 593.6 | 592.4 | 591.3 | 590.1 | 588.9 | 590.1 |
| 7.5° | 590.6 | 590.1 | 589.7 | 589.3 | 588.9 | 587.9 | 586.6 | 585.4 | 584.1 | 582.8 | 583.7 |
| 10° | 585.5 | 585.1 | 584.7 | 584.3 | 583.9 | 583.0 | 581.6 | 580.2 | 578.9 | 577.4 | 578.2 |
| 12.5° | 579.1 | 578.7 | 578.2 | 577.7 | 577.3 | 576.4 | 574.9 | 573.5 | 572.0 | 570.6 | 571.5 |
| 15° | 567.3 | 566.9 | 566.5 | 566.1 | 565.7 | 564.7 | 563.1 | 561.5 | 559.9 | 558.4 | 559.0 |
| 17.5° | 553.3 | 552.8 | 552.3 | 551.8 | 551.2 | 550.2 | 548.7 | 547.1 | 545.6 | 544.1 | 544.5 |
| 20° | 543.0 | 542.5 | 542.0 | 541.4 | 540.9 | 539.9 | 538.3 | 536.6 | 535.0 | 533.4 | 533.8 |
| 22.5° | 531.9 | 531.2 | 530.5 | 529.8 | 529.1 | 528.0 | 526.3 | 524.8 | 523.2 | 521.6 | 522.2 |
| 25° | 513.8 | 513.1 | 512.4 | 511.6 | 510.9 | 509.8 | 508.3 | 506.8 | 505.3 | 503.8 | 503.9 |
| 27.5° | 493.2 | 492.4 | 491.7 | 490.9 | 490.2 | 489.1 | 487.7 | 486.4 | 484.9 | 483.5 | 483.3 |
| 30° | 479.5 | 478.6 | 477.8 | 476.9 | 476.1 | 474.9 | 473.5 | 472.1 | 470.8 | 469.4 | 469.0 |
| 32.5° | 464.9 | 464.1 | 463.3 | 462.6 | 461.8 | 460.7 | 459.3 | 457.8 | 456.4 | 454.8 | 454.3 |
| 35° | 442.1 | 441.4 | 440.7 | 439.9 | 439.2 | 438.1 | 436.6 | 435.0 | 433.6 | 432.1 | 431.4 |
| 37.5° | 418.2 | 417.5 | 416.8 | 416.2 | 415.5 | 414.3 | 412.7 | 411.1 | 409.5 | 407.9 | 407.1 |
| 40° | 402.4 | 401.6 | 400.8 | 399.9 | 399.1 | 397.9 | 396.3 | 394.7 | 393.0 | 391.5 | 390.4 |
| 42.5° | 385.7 | 385.2 | 384.7 | 384.2 | 383.6 | 382.4 | 380.7 | 378.9 | 377.2 | 375.5 | 374.2 |
| 45° | 360.9 | 360.1 | 359.4 | 358.7 | 357.9 | 356.7 | 355.0 | 353.3 | 351.6 | 349.9 | 348.7 |
| 47.5° | 335.0 | 334.5 | 334.0 | 333.5 | 333.0 | 331.9 | 330.3 | 328.7 | 327.2 | 325.6 | 324.3 |
| 50° | 317.4 | 317.0 | 316.6 | 316.1 | 315.7 | 314.8 | 313.3 | 311.7 | 310.2 | 308.8 | 307.3 |
| 52.5° | 300.2 | 299.6 | 299.1 | 298.6 | 298.1 | 297.1 | 295.5 | 294.0 | 292.4 | 290.8 | 289.5 |
| 55° | 273.0 | 272.7 | 272.3 | 272.0 | 271.7 | 270.7 | 269.2 | 267.8 | 266.3 | 264.8 | 263.6 |
| 57.5° | 246.9 | 246.6 | 246.2 | 245.9 | 245.5 | 244.6 | 243.1 | 241.7 | 240.1 | 238.7 | 237.5 |
| 60° | 228.9 | 228.4 | 227.9 | 227.3 | 226.8 | 225.9 | 224.5 | 223.1 | 221.8 | 220.4 | 219.4 |
| 62.5° | 211.4 | 211.0 | 210.5 | 210.1 | 209.5 | 208.6 | 207.1 | 205.7 | 204.2 | 202.8 | 201.9 |
| 65° | 185.0 | 184.5 | 183.9 | 183.4 | 182.9 | 182.1 | 181.0 | 180.0 | 178.8 | 177.8 | 176.7 |
| 67.5° | 158.4 | 157.9 | 157.4 | 156.9 | 156.4 | 155.7 | 154.7 | 153.7 | 152.7 | 151.6 | 150.6 |
| 70° | 142.0 | 141.2 | 140.5 | 139.8 | 139.0 | 138.1 | 137.3 | 136.5 | 135.6 | 134.8 | 133.9 |
| 72.5° | 124.4 | 123.6 | 122.9 | 122.2 | 121.4 | 120.7 | 120.0 | 119.4 | 118.7 | 118.0 | 117.2 |
| 75° | 98.5 | 98.0 | 97.5 | 96.8 | 96.3 | 95.8 | 95.3 | 94.7 | 94.2 | 93.7 | 93.3 |
| 77.5° | 73.7 | 73.5 | 73.2 | 73.0 | 72.8 | 72.4 | 72.0 | 71.5 | 71.0 | 70.6 | 70.4 |
| 80° | 58.8 | 58.5 | 58.2 | 57.9 | 57.6 | 57.3 | 57.1 | 56.9 | 56.7 | 56.5 | 56.1 |
| 82.5° | 44.2 | 44.1 | 43.9 | 43.8 | 43.6 | 43.5 | 43.5 | 43.5 | 43.4 | 43.4 | 43.3 |
| 85° | 25.9 | 25.9 | 25.9 | 25.9 | 25.9 | 25.8 | 25.4 | 25.2 | 25.0 | 24.8 | 24.8 |
| 87.5° | 10.2 | 10.4 | 10.5 | 10.6 | 10.8 | 10.9 | 11.0 | 11.0 | 11.1 | 11.2 | 11.3 |
| 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: P332720-840

CATALOG NUMBER: S124DIW-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: P332720-840

CATALOG NUMBER: S124DIW-S350D470U840-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 | 596.5 |
| 2.5° | 594.4 | 595.3 | 596.1 | 596.5 | 596.4 | 596.3 | 596.2 | 596.1 |
| 5° | 591.3 | 592.4 | 593.6 | 594.0 | 593.8 | 593.6 | 593.4 | 593.2 |
| 7.5° | 584.6 | 585.6 | 586.5 | 586.9 | 586.8 | 586.6 | 586.5 | 586.4 |
| 10° | 579.2 | 580.0 | 580.9 | 581.2 | 581.0 | 580.7 | 580.5 | 580.3 |
| 12.5° | 572.4 | 573.3 | 574.3 | 574.6 | 574.3 | 574.0 | 573.7 | 573.4 |
| 15° | 559.6 | 560.2 | 560.9 | 561.0 | 560.7 | 560.4 | 560.1 | 559.8 |
| 17.5° | 544.9 | 545.3 | 545.7 | 545.8 | 545.6 | 545.4 | 545.2 | 545.0 |
| 20° | 534.1 | 534.4 | 534.7 | 534.8 | 534.5 | 534.3 | 534.1 | 533.9 |
| 22.5° | 522.7 | 523.3 | 523.9 | 524.0 | 523.6 | 523.2 | 522.8 | 522.5 |
| 25° | 504.0 | 504.1 | 504.2 | 504.1 | 503.6 | 503.2 | 502.8 | 502.4 |
| 27.5° | 483.0 | 482.8 | 482.5 | 482.1 | 481.6 | 481.1 | 480.5 | 480.0 |
| 30° | 468.6 | 468.2 | 467.7 | 467.3 | 466.7 | 466.2 | 465.6 | 465.1 |
| 32.5° | 453.8 | 453.3 | 452.8 | 452.3 | 451.8 | 451.2 | 450.7 | 450.2 |
| 35° | 430.6 | 429.9 | 429.1 | 428.5 | 428.0 | 427.5 | 426.9 | 426.4 |
| 37.5° | 406.3 | 405.5 | 404.7 | 403.9 | 403.2 | 402.5 | 401.8 | 401.1 |
| 40° | 389.4 | 388.3 | 387.3 | 386.5 | 385.9 | 385.4 | 384.9 | 384.4 |
| 42.5° | 372.9 | 371.7 | 370.5 | 369.7 | 369.3 | 369.0 | 368.6 | 368.3 |
| 45° | 347.6 | 346.4 | 345.3 | 344.5 | 344.2 | 343.9 | 343.6 | 343.3 |
| 47.5° | 323.0 | 321.6 | 320.3 | 319.3 | 318.5 | 317.7 | 316.9 | 316.1 |
| 50° | 305.8 | 304.4 | 302.9 | 301.7 | 301.1 | 300.5 | 299.8 | 299.2 |
| 52.5° | 288.2 | 286.9 | 285.6 | 284.5 | 283.7 | 282.9 | 282.1 | 281.2 |
| 55° | 262.3 | 260.9 | 259.7 | 258.7 | 258.1 | 257.5 | 256.8 | 256.2 |
| 57.5° | 236.3 | 235.1 | 233.9 | 233.0 | 232.4 | 231.8 | 231.2 | 230.5 |
| 60° | 218.4 | 217.5 | 216.5 | 215.8 | 215.3 | 214.7 | 214.2 | 213.7 |
| 62.5° | 201.1 | 200.2 | 199.2 | 198.5 | 198.0 | 197.5 | 197.0 | 196.4 |
| 65° | 175.7 | 174.6 | 173.6 | 172.8 | 172.3 | 171.7 | 171.2 | 170.7 |
| 67.5° | 149.6 | 148.6 | 147.5 | 146.9 | 146.8 | 146.6 | 146.5 | 146.3 |
| 70° | 133.1 | 132.3 | 131.4 | 130.8 | 130.5 | 130.2 | 129.9 | 129.6 |
| 72.5° | 116.6 | 115.9 | 115.2 | 114.7 | 114.4 | 114.1 | 113.8 | 113.5 |
| 75° | 92.8 | 92.4 | 92.0 | 91.7 | 91.6 | 91.5 | 91.4 | 91.3 |
| 77.5° | 70.3 | 70.2 | 70.1 | 69.9 | 69.6 | 69.3 | 69.0 | 68.8 |
| 80° | 55.9 | 55.7 | 55.5 | 55.4 | 55.2 | 55.1 | 55.0 | 54.9 |
| 82.5° | 43.1 | 43.0 | 42.9 | 42.8 | 42.7 | 42.5 | 42.4 | 42.3 |
| 85° | 24.8 | 24.8 | 24.8 | 24.8 | 24.7 | 24.6 | 24.4 | 24.3 |
| 87.5° | 11.4 | 11.5 | 11.7 | 11.7 | 11.8 | 11.8 | 11.9 | 11.9 |
| 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: P332720-840

CATALOG NUMBER: S124DIW-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)