

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: P332874-927

Luminaire Tested: **S124RDIP-S350D590U927-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332874-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDIP-S350D590U927-4F0-1E-UDD-F
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 590 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3002.0 lumens
Efficiency: N/A
Efficacy: 117.3 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: Semi-Indirect

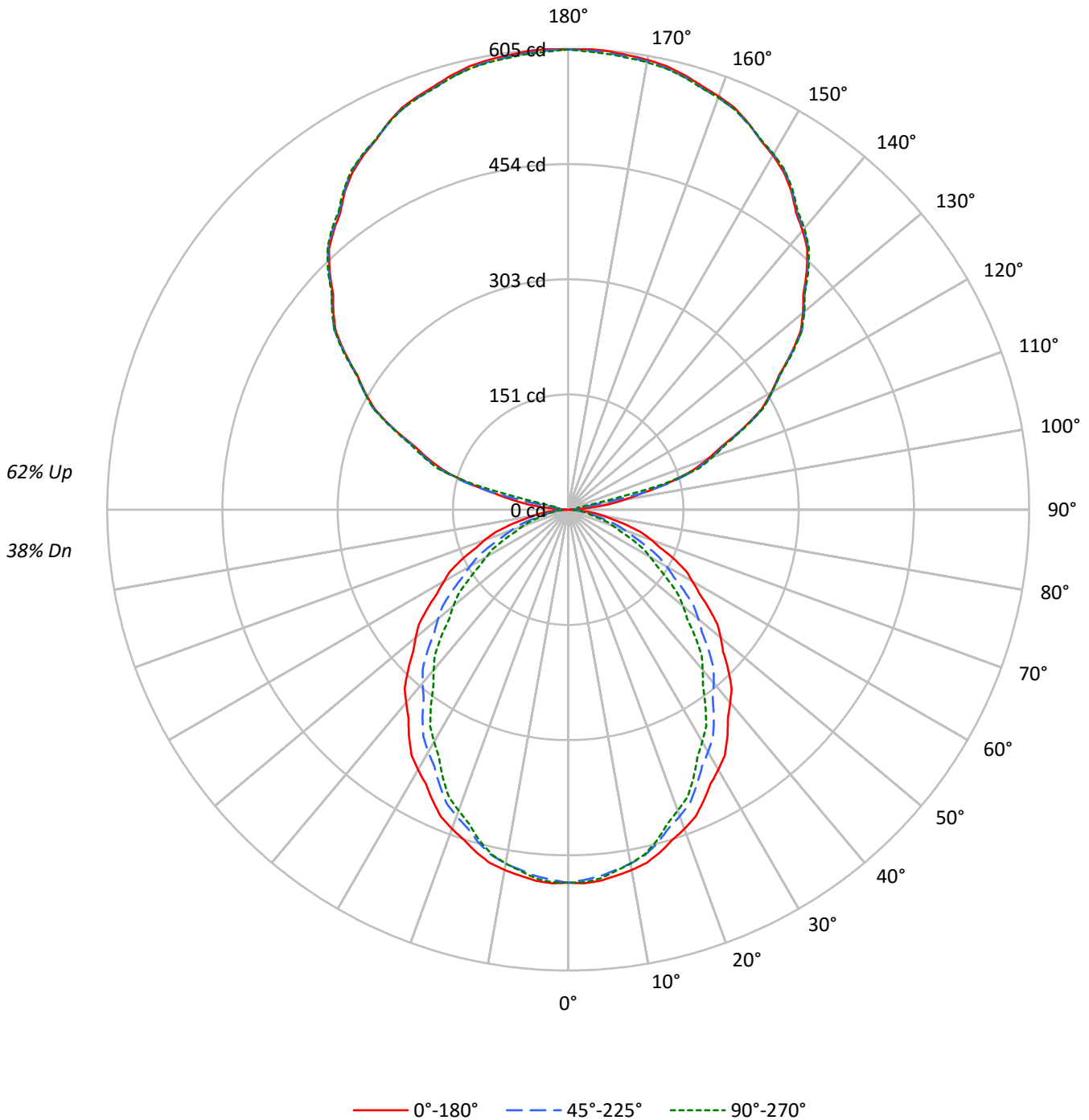
Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332874-927

CATALOG NUMBER: S124RDIP-S350D590U927-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P332874-927

CATALOG NUMBER: S124RDIP-S350D590U927-4F0-1E-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 | 95 | 95 | 95 | 95 | 77 | 77 | 77 | 60 | 60 | 60 | 45 | 45 | 45 | 38 |
| 1 | 95 | 91 | 87 | 84 | 86 | 83 | 80 | 77 | 67 | 65 | 63 | 53 | 52 | 50 | 40 | 39 | 38 | 32 |
| 2 | 87 | 80 | 74 | 69 | 79 | 73 | 68 | 63 | 59 | 56 | 53 | 47 | 44 | 42 | 35 | 34 | 32 | 27 |
| 3 | 79 | 70 | 63 | 58 | 72 | 64 | 58 | 53 | 52 | 48 | 44 | 42 | 38 | 36 | 31 | 30 | 28 | 23 |
| 4 | 73 | 62 | 55 | 49 | 66 | 57 | 50 | 45 | 47 | 42 | 38 | 37 | 34 | 31 | 28 | 26 | 24 | 20 |
| 5 | 67 | 55 | 48 | 42 | 60 | 51 | 44 | 39 | 42 | 37 | 33 | 33 | 30 | 27 | 26 | 23 | 21 | 18 |
| 6 | 61 | 50 | 42 | 36 | 56 | 45 | 39 | 34 | 38 | 32 | 29 | 30 | 26 | 24 | 23 | 21 | 19 | 16 |
| 7 | 57 | 45 | 37 | 32 | 51 | 41 | 34 | 29 | 34 | 29 | 25 | 27 | 24 | 21 | 21 | 19 | 17 | 14 |
| 8 | 53 | 41 | 33 | 28 | 48 | 37 | 31 | 26 | 31 | 26 | 22 | 25 | 21 | 19 | 19 | 17 | 15 | 12 |
| 9 | 49 | 37 | 30 | 25 | 44 | 34 | 28 | 23 | 28 | 23 | 20 | 23 | 19 | 17 | 18 | 15 | 13 | 11 |
| 10 | 46 | 34 | 27 | 22 | 41 | 31 | 25 | 21 | 26 | 21 | 18 | 21 | 18 | 15 | 17 | 14 | 12 | 10 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3953 | 3953 | 3953 |
| 5° | 3962 | 3914 | 3938 |
| 10° | 3937 | 3867 | 3867 |
| 15° | 3892 | 3786 | 3758 |
| 20° | 3830 | 3679 | 3611 |
| 25° | 3751 | 3553 | 3463 |
| 30° | 3674 | 3422 | 3278 |
| 35° | 3588 | 3286 | 3094 |
| 40° | 3485 | 3130 | 2893 |
| 45° | 3391 | 2975 | 2689 |
| 50° | 3282 | 2798 | 2473 |
| 55° | 3167 | 2612 | 2238 |
| 60° | 3039 | 2409 | 1997 |
| 65° | 2923 | 2157 | 1761 |
| 70° | 2752 | 1876 | 1496 |
| 75° | 2539 | 1556 | 1216 |
| 80° | 2213 | 1186 | 1116 |
| 85° | 1880 | 1074 | 1010 |



TEST NUMBER: P332874-927

CATALOG NUMBER: S124RDIP-S350D590U927-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 46.0 | 1.5 |
| 10°-20° | 128.3 | 4.3 |
| 20°-30° | 185.2 | 6.2 |
| 30°-40° | 210.0 | 7.0 |
| 40°-50° | 202.8 | 6.8 |
| 50°-60° | 168.6 | 5.6 |
| 60°-70° | 116.4 | 3.9 |
| 70°-80° | 59.0 | 2.0 |
| 80°-90° | 16.9 | 0.6 |
| 90°-100° | 20.7 | 0.7 |
| 100°-110° | 131.7 | 4.4 |
| 110°-120° | 252.0 | 8.4 |
| 120°-130° | 319.9 | 10.7 |
| 130°-140° | 342.3 | 11.4 |
| 140°-150° | 320.1 | 10.7 |
| 150°-160° | 258.1 | 8.6 |
| 160°-170° | 166.5 | 5.5 |
| 170°-180° | 57.4 | 1.9 |
| 0°-30° | 359.5 | 12.0 |
| 0°-40° | 569.5 | 19.0 |
| 0°-60° | 940.8 | 31.3 |
| 0°-90° | 1133.2 | 37.7 |
| 90°-120° | 404.5 | 13.5 |
| 90°-150° | 1386.8 | 46.2 |
| 90°-180° | 1869.0 | 62.3 |
| 0°-180° | 3002.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 490 | 490 | 490 | 490 | 490 | |
| 5° | 489 | 487 | 483 | 486 | 486 | 46 |
| 15° | 466 | 462 | 453 | 452 | 450 | 131 |
| 25° | 421 | 414 | 399 | 393 | 389 | 194 |
| 35° | 364 | 352 | 333 | 321 | 314 | 227 |
| 45° | 297 | 283 | 261 | 243 | 236 | 229 |
| 55° | 225 | 209 | 186 | 167 | 159 | 201 |
| 65° | 153 | 136 | 113 | 97 | 92 | 151 |
| 75° | 81 | 67 | 50 | 42 | 39 | 86 |
| 85° | 20 | 13 | 12 | 11 | 11 | 23 |
| 90° | 1 | 6 | 10 | 13 | 14 | 2 |
| 95° | 25 | 10 | 10 | 13 | 13 | 32 |
| 105° | 136 | 139 | 141 | 144 | 129 | 142 |
| 115° | 254 | 255 | 255 | 256 | 256 | 250 |
| 125° | 357 | 359 | 358 | 359 | 360 | 319 |
| 135° | 443 | 442 | 444 | 445 | 446 | 341 |
| 145° | 511 | 512 | 512 | 512 | 513 | 319 |
| 155° | 560 | 560 | 559 | 561 | 559 | 258 |
| 165° | 591 | 588 | 588 | 592 | 588 | 167 |
| 175° | 604 | 602 | 602 | 605 | 601 | 58 |
| 180° | 604 | 604 | 604 | 604 | 604 | |



TEST NUMBER: P332874-927

CATALOG NUMBER: S124RDIP-S350D590U927-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 489.7 | 489.7 | 489.7 | 489.7 | 489.7 | 489.7 | 489.7 | 489.7 | 489.7 | 489.7 | 489.7 |
| 2.5° | 490.9 | 490.6 | 490.4 | 490.1 | 489.8 | 489.3 | 488.6 | 487.9 | 487.1 | 486.4 | 487.1 |
| 5° | 488.9 | 488.6 | 488.3 | 488.0 | 487.6 | 487.0 | 485.9 | 485.0 | 483.9 | 483.0 | 483.8 |
| 7.5° | 484.5 | 484.2 | 483.9 | 483.5 | 483.2 | 482.3 | 481.0 | 479.7 | 478.4 | 477.1 | 477.6 |
| 10° | 480.3 | 479.9 | 479.5 | 479.1 | 478.6 | 477.7 | 476.2 | 474.7 | 473.2 | 471.7 | 472.1 |
| 12.5° | 474.9 | 474.4 | 474.0 | 473.5 | 473.0 | 471.9 | 470.1 | 468.3 | 466.6 | 464.8 | 465.0 |
| 15° | 465.7 | 464.9 | 464.2 | 463.4 | 462.7 | 461.3 | 459.2 | 457.1 | 455.0 | 453.0 | 452.8 |
| 17.5° | 454.6 | 453.4 | 452.3 | 451.3 | 450.2 | 448.4 | 445.9 | 443.4 | 440.9 | 438.4 | 437.9 |
| 20° | 445.8 | 444.7 | 443.7 | 442.6 | 441.5 | 439.6 | 436.7 | 433.9 | 431.0 | 428.2 | 427.5 |
| 22.5° | 436.3 | 435.0 | 433.8 | 432.6 | 431.3 | 429.2 | 426.2 | 423.2 | 420.2 | 417.1 | 416.1 |
| 25° | 421.1 | 419.6 | 418.1 | 416.6 | 415.1 | 412.6 | 409.2 | 405.8 | 402.3 | 398.9 | 397.5 |
| 27.5° | 405.2 | 403.3 | 401.4 | 399.6 | 397.7 | 394.9 | 391.3 | 387.6 | 384.0 | 380.3 | 378.5 |
| 30° | 394.1 | 392.0 | 389.9 | 387.9 | 385.8 | 382.8 | 378.8 | 374.9 | 371.0 | 367.1 | 365.0 |
| 32.5° | 382.4 | 380.0 | 377.7 | 375.3 | 373.0 | 369.8 | 365.8 | 361.7 | 357.7 | 353.6 | 351.2 |
| 35° | 364.1 | 361.4 | 358.8 | 356.1 | 353.4 | 350.0 | 345.9 | 341.7 | 337.5 | 333.4 | 330.5 |
| 37.5° | 344.5 | 341.7 | 339.1 | 336.3 | 333.5 | 329.9 | 325.2 | 320.6 | 316.0 | 311.4 | 308.2 |
| 40° | 330.7 | 328.0 | 325.2 | 322.5 | 319.7 | 316.0 | 311.2 | 306.5 | 301.7 | 297.0 | 293.5 |
| 42.5° | 317.5 | 314.7 | 311.7 | 308.9 | 306.0 | 302.1 | 297.1 | 292.2 | 287.2 | 282.3 | 278.7 |
| 45° | 297.0 | 293.9 | 290.8 | 287.7 | 284.6 | 280.6 | 275.6 | 270.6 | 265.6 | 260.6 | 256.5 |
| 47.5° | 275.8 | 272.6 | 269.4 | 266.2 | 263.0 | 258.8 | 253.7 | 248.4 | 243.2 | 238.1 | 233.8 |
| 50° | 261.3 | 258.1 | 254.8 | 251.6 | 248.3 | 244.1 | 238.8 | 233.4 | 228.1 | 222.8 | 218.6 |
| 52.5° | 246.7 | 243.4 | 240.3 | 237.1 | 233.9 | 229.6 | 224.1 | 218.6 | 213.2 | 207.7 | 203.5 |
| 55° | 225.0 | 221.7 | 218.3 | 215.0 | 211.7 | 207.2 | 201.8 | 196.5 | 191.0 | 185.6 | 181.3 |
| 57.5° | 203.5 | 200.0 | 196.6 | 193.1 | 189.6 | 185.3 | 179.9 | 174.6 | 169.3 | 163.9 | 159.5 |
| 60° | 188.2 | 184.9 | 181.6 | 178.2 | 174.9 | 170.6 | 165.2 | 159.9 | 154.6 | 149.2 | 144.9 |
| 62.5° | 174.4 | 171.0 | 167.5 | 164.1 | 160.6 | 156.1 | 150.7 | 145.2 | 139.7 | 134.3 | 130.2 |
| 65° | 153.0 | 149.4 | 145.8 | 142.3 | 138.6 | 134.2 | 128.9 | 123.5 | 118.2 | 112.9 | 109.3 |
| 67.5° | 130.7 | 127.3 | 123.8 | 120.4 | 117.0 | 112.8 | 107.8 | 102.9 | 97.9 | 93.0 | 89.9 |
| 70° | 116.6 | 113.1 | 109.6 | 106.2 | 102.6 | 98.5 | 93.7 | 89.0 | 84.2 | 79.5 | 76.8 |
| 72.5° | 101.6 | 98.5 | 95.3 | 92.1 | 89.0 | 85.2 | 80.6 | 76.1 | 71.7 | 67.2 | 64.9 |
| 75° | 81.4 | 78.3 | 75.2 | 72.1 | 69.0 | 65.5 | 61.6 | 57.7 | 53.8 | 49.9 | 47.9 |
| 77.5° | 60.8 | 58.2 | 55.6 | 53.0 | 50.4 | 47.5 | 44.3 | 41.1 | 37.9 | 34.8 | 33.7 |
| 80° | 47.6 | 45.2 | 42.8 | 40.4 | 37.9 | 35.5 | 33.0 | 30.5 | 28.0 | 25.5 | 25.3 |
| 82.5° | 36.2 | 34.0 | 31.8 | 29.5 | 27.3 | 25.5 | 24.1 | 22.7 | 21.2 | 19.8 | 19.6 |
| 85° | 20.3 | 18.6 | 17.0 | 15.2 | 13.5 | 12.6 | 12.4 | 12.1 | 11.9 | 11.6 | 11.5 |
| 87.5° | 7.2 | 6.9 | 6.6 | 6.3 | 5.9 | 5.8 | 5.9 | 6.0 | 6.1 | 6.2 | 6.3 |
| 90° | 1.3 | 2.5 | 3.6 | 4.7 | 5.8 | 6.7 | 7.5 | 8.3 | 9.1 | 9.9 | 10.5 |
| 92.5° | 5.7 | 5.8 | 5.8 | 5.9 | 5.9 | 6.3 | 7.2 | 8.0 | 8.8 | 9.6 | 10.2 |
| 95° | 24.9 | 21.5 | 18.1 | 14.6 | 11.2 | 9.5 | 9.7 | 9.7 | 9.8 | 9.9 | 10.5 |
| 97.5° | 52.8 | 54.9 | 57.0 | 59.2 | 61.3 | 56.7 | 45.6 | 34.4 | 23.1 | 12.0 | 12.0 |
| 100° | 74.1 | 75.9 | 77.7 | 79.5 | 81.4 | 75.3 | 61.5 | 47.6 | 33.7 | 19.9 | 18.1 |
| 102.5° | 98.0 | 99.3 | 100.6 | 102.0 | 103.3 | 103.1 | 101.2 | 99.4 | 97.6 | 95.8 | 77.4 |
| 105° | 136.0 | 136.7 | 137.2 | 137.8 | 138.4 | 138.9 | 139.5 | 140.0 | 140.5 | 141.0 | 141.9 |
| 107.5° | 171.3 | 171.7 | 172.0 | 172.2 | 172.5 | 173.0 | 173.7 | 174.4 | 175.1 | 175.8 | 176.3 |
| 110° | 195.2 | 195.5 | 195.8 | 196.1 | 196.4 | 196.9 | 197.5 | 198.0 | 198.7 | 199.3 | 199.5 |



TEST NUMBER: P332874-927

CATALOG NUMBER: S124RDIP-S350D590U927-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 218.3 | 218.9 | 219.4 | 220.0 | 220.5 | 220.9 | 221.2 | 221.5 | 221.8 | 222.0 | 222.0 |
| 115° | 254.0 | 254.3 | 254.5 | 254.8 | 255.2 | 255.2 | 255.2 | 255.1 | 254.9 | 254.8 | 255.1 |
| 117.5° | 286.1 | 286.5 | 286.8 | 287.2 | 287.6 | 288.0 | 288.2 | 288.4 | 288.6 | 288.8 | 288.8 |
| 120° | 307.8 | 308.2 | 308.6 | 309.0 | 309.3 | 309.5 | 309.4 | 309.3 | 309.2 | 309.1 | 309.3 |
| 122.5° | 328.0 | 328.2 | 328.4 | 328.7 | 328.9 | 329.2 | 329.3 | 329.4 | 329.5 | 329.7 | 329.8 |
| 125° | 357.0 | 357.4 | 357.8 | 358.2 | 358.6 | 358.7 | 358.5 | 358.3 | 358.1 | 357.9 | 358.2 |
| 127.5° | 384.4 | 384.5 | 384.7 | 384.8 | 384.8 | 385.2 | 385.6 | 386.0 | 386.5 | 387.0 | 386.9 |
| 130° | 402.2 | 402.3 | 402.3 | 402.5 | 402.6 | 402.7 | 403.1 | 403.4 | 403.7 | 404.0 | 404.1 |
| 132.5° | 418.4 | 418.6 | 418.8 | 419.0 | 419.1 | 419.5 | 419.9 | 420.2 | 420.6 | 421.0 | 421.0 |
| 135° | 442.8 | 442.8 | 442.7 | 442.5 | 442.4 | 442.6 | 443.0 | 443.4 | 443.8 | 444.2 | 444.4 |
| 137.5° | 464.5 | 464.5 | 464.5 | 464.5 | 464.6 | 464.9 | 465.2 | 465.7 | 466.2 | 466.6 | 466.8 |
| 140° | 478.6 | 478.7 | 479.0 | 479.1 | 479.3 | 479.5 | 479.7 | 480.0 | 480.1 | 480.4 | 480.6 |
| 142.5° | 491.2 | 491.5 | 491.9 | 492.3 | 492.7 | 492.9 | 493.0 | 493.1 | 493.2 | 493.4 | 493.6 |
| 145° | 510.6 | 511.0 | 511.2 | 511.5 | 511.8 | 512.0 | 512.0 | 512.0 | 512.0 | 512.0 | 512.1 |
| 147.5° | 526.1 | 526.6 | 527.2 | 527.8 | 528.3 | 528.5 | 528.5 | 528.4 | 528.2 | 528.1 | 528.2 |
| 150° | 537.3 | 537.7 | 538.1 | 538.5 | 538.9 | 539.1 | 538.9 | 538.8 | 538.8 | 538.6 | 538.6 |
| 152.5° | 546.7 | 547.0 | 547.3 | 547.6 | 548.0 | 548.0 | 547.9 | 547.7 | 547.5 | 547.3 | 547.5 |
| 155° | 559.9 | 560.0 | 560.1 | 560.2 | 560.3 | 560.2 | 559.9 | 559.6 | 559.3 | 559.0 | 559.4 |
| 157.5° | 571.0 | 570.9 | 570.8 | 570.8 | 570.8 | 570.5 | 570.2 | 569.9 | 569.5 | 569.2 | 569.7 |
| 160° | 577.5 | 577.2 | 576.9 | 576.6 | 576.3 | 576.1 | 576.0 | 575.9 | 575.8 | 575.7 | 576.3 |
| 162.5° | 583.3 | 582.9 | 582.5 | 582.2 | 581.8 | 581.5 | 581.4 | 581.3 | 581.2 | 581.1 | 581.7 |
| 165° | 590.6 | 590.1 | 589.6 | 589.1 | 588.6 | 588.4 | 588.4 | 588.4 | 588.4 | 588.4 | 589.1 |
| 167.5° | 596.4 | 595.9 | 595.3 | 594.8 | 594.3 | 594.0 | 594.0 | 593.9 | 593.8 | 593.7 | 594.7 |
| 170° | 599.7 | 599.0 | 598.4 | 597.9 | 597.2 | 597.0 | 597.1 | 597.1 | 597.3 | 597.4 | 598.2 |
| 172.5° | 601.8 | 601.2 | 600.6 | 600.0 | 599.4 | 599.1 | 599.3 | 599.4 | 599.4 | 599.5 | 600.4 |
| 175° | 604.2 | 603.6 | 602.9 | 602.4 | 601.7 | 601.5 | 601.6 | 601.7 | 601.8 | 601.9 | 602.8 |
| 177.5° | 605.2 | 604.7 | 604.1 | 603.6 | 603.0 | 602.8 | 602.9 | 603.1 | 603.2 | 603.4 | 604.1 |
| 180° | 604.2 | 604.2 | 604.2 | 604.2 | 604.2 | 604.2 | 604.2 | 604.2 | 604.2 | 604.2 | 604.2 |



TEST NUMBER: P332874-927

CATALOG NUMBER: S124RDIP-S350D590U927-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 489.7 | 489.7 | 489.7 | 489.7 | 489.7 | 489.7 | 489.7 | 489.7 |
| 2.5° | 487.9 | 488.6 | 489.3 | 489.6 | 489.6 | 489.6 | 489.5 | 489.4 |
| 5° | 484.7 | 485.4 | 486.3 | 486.6 | 486.5 | 486.3 | 486.1 | 485.9 |
| 7.5° | 478.2 | 478.7 | 479.3 | 479.3 | 479.1 | 478.9 | 478.6 | 478.3 |
| 10° | 472.4 | 472.7 | 473.0 | 473.0 | 472.7 | 472.4 | 472.1 | 471.7 |
| 12.5° | 465.2 | 465.4 | 465.6 | 465.5 | 465.0 | 464.5 | 464.1 | 463.6 |
| 15° | 452.7 | 452.5 | 452.3 | 451.9 | 451.3 | 450.8 | 450.2 | 449.6 |
| 17.5° | 437.4 | 437.0 | 436.6 | 435.9 | 435.0 | 434.1 | 433.2 | 432.4 |
| 20° | 426.9 | 426.2 | 425.6 | 424.7 | 423.6 | 422.5 | 421.4 | 420.3 |
| 22.5° | 415.1 | 414.1 | 413.1 | 412.2 | 411.3 | 410.4 | 409.6 | 408.6 |
| 25° | 396.1 | 394.7 | 393.3 | 392.2 | 391.3 | 390.5 | 389.7 | 388.8 |
| 27.5° | 376.8 | 375.0 | 373.3 | 371.9 | 370.6 | 369.4 | 368.2 | 367.0 |
| 30° | 362.9 | 360.8 | 358.8 | 357.0 | 355.7 | 354.4 | 353.1 | 351.7 |
| 32.5° | 348.8 | 346.3 | 344.0 | 342.1 | 340.8 | 339.5 | 338.3 | 337.0 |
| 35° | 327.6 | 324.9 | 322.0 | 319.9 | 318.4 | 316.9 | 315.4 | 313.9 |
| 37.5° | 305.1 | 301.9 | 298.7 | 296.4 | 294.9 | 293.3 | 291.8 | 290.3 |
| 40° | 289.9 | 286.5 | 283.0 | 280.5 | 279.0 | 277.5 | 276.0 | 274.5 |
| 42.5° | 275.1 | 271.6 | 268.0 | 265.5 | 263.9 | 262.3 | 260.7 | 259.2 |
| 45° | 252.5 | 248.3 | 244.2 | 241.5 | 240.0 | 238.4 | 236.9 | 235.5 |
| 47.5° | 229.6 | 225.3 | 221.1 | 218.2 | 216.5 | 214.8 | 213.2 | 211.6 |
| 50° | 214.4 | 210.2 | 206.0 | 203.2 | 201.6 | 200.0 | 198.4 | 196.9 |
| 52.5° | 199.2 | 195.0 | 190.8 | 187.8 | 186.2 | 184.6 | 182.9 | 181.3 |
| 55° | 177.0 | 172.6 | 168.3 | 165.3 | 163.7 | 162.2 | 160.6 | 159.0 |
| 57.5° | 155.1 | 150.8 | 146.3 | 143.5 | 142.4 | 141.2 | 139.9 | 138.7 |
| 60° | 140.5 | 136.3 | 131.9 | 129.0 | 127.7 | 126.4 | 125.1 | 123.7 |
| 62.5° | 126.3 | 122.2 | 118.3 | 115.7 | 114.6 | 113.6 | 112.5 | 111.5 |
| 65° | 105.7 | 102.1 | 98.5 | 96.3 | 95.2 | 94.3 | 93.2 | 92.2 |
| 67.5° | 86.8 | 83.7 | 80.6 | 78.6 | 77.5 | 76.4 | 75.3 | 74.1 |
| 70° | 74.0 | 71.2 | 68.5 | 66.7 | 65.8 | 65.0 | 64.2 | 63.4 |
| 72.5° | 62.5 | 60.1 | 57.8 | 56.2 | 55.5 | 54.7 | 53.9 | 53.2 |
| 75° | 46.0 | 44.1 | 42.2 | 41.0 | 40.5 | 40.0 | 39.5 | 39.0 |
| 77.5° | 32.6 | 31.4 | 30.3 | 29.7 | 29.5 | 29.4 | 29.2 | 29.1 |
| 80° | 25.0 | 24.7 | 24.5 | 24.3 | 24.2 | 24.2 | 24.1 | 24.0 |
| 82.5° | 19.4 | 19.3 | 19.1 | 18.9 | 18.9 | 18.8 | 18.7 | 18.6 |
| 85° | 11.3 | 11.1 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 |
| 87.5° | 6.3 | 6.3 | 6.4 | 6.5 | 6.6 | 6.7 | 6.8 | 6.9 |
| 90° | 11.2 | 11.7 | 12.4 | 12.8 | 13.0 | 13.2 | 13.4 | 13.5 |
| 92.5° | 10.8 | 11.4 | 12.0 | 12.3 | 12.4 | 12.4 | 12.4 | 12.4 |
| 95° | 11.2 | 11.7 | 12.4 | 12.7 | 12.8 | 12.9 | 13.0 | 13.1 |
| 97.5° | 12.0 | 12.1 | 12.2 | 12.3 | 12.4 | 12.4 | 12.5 | 12.7 |
| 100° | 16.5 | 14.7 | 13.1 | 12.3 | 12.4 | 12.4 | 12.5 | 12.7 |
| 102.5° | 58.9 | 40.6 | 22.1 | 12.9 | 13.0 | 13.0 | 13.0 | 13.0 |
| 105° | 142.8 | 143.7 | 144.6 | 143.2 | 139.7 | 136.0 | 132.4 | 128.8 |
| 107.5° | 176.7 | 177.1 | 177.5 | 177.9 | 178.3 | 178.7 | 179.1 | 179.5 |
| 110° | 199.7 | 199.9 | 200.1 | 200.3 | 200.7 | 200.9 | 201.2 | 201.5 |



TEST NUMBER: P332874-927

CATALOG NUMBER: S124RDIP-S350D590U927-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 222.0 | 222.0 | 221.9 | 222.0 | 222.4 | 222.8 | 223.2 | 223.6 |
| 115° | 255.2 | 255.5 | 255.6 | 255.8 | 255.8 | 255.8 | 255.8 | 255.8 |
| 117.5° | 288.8 | 288.8 | 288.7 | 288.7 | 288.6 | 288.6 | 288.5 | 288.5 |
| 120° | 309.5 | 309.7 | 309.9 | 309.9 | 309.7 | 309.5 | 309.3 | 309.1 |
| 122.5° | 329.9 | 330.0 | 330.2 | 330.1 | 329.9 | 329.7 | 329.5 | 329.3 |
| 125° | 358.5 | 358.8 | 359.1 | 359.3 | 359.4 | 359.5 | 359.6 | 359.7 |
| 127.5° | 386.9 | 386.8 | 386.7 | 386.7 | 386.6 | 386.5 | 386.4 | 386.3 |
| 130° | 404.2 | 404.3 | 404.4 | 404.4 | 404.4 | 404.4 | 404.4 | 404.4 |
| 132.5° | 421.2 | 421.3 | 421.4 | 421.4 | 421.3 | 421.2 | 421.1 | 421.0 |
| 135° | 444.6 | 444.8 | 445.0 | 445.2 | 445.4 | 445.6 | 445.8 | 446.0 |
| 137.5° | 467.1 | 467.3 | 467.5 | 467.5 | 467.5 | 467.5 | 467.4 | 467.3 |
| 140° | 480.9 | 481.3 | 481.6 | 481.7 | 481.9 | 482.0 | 482.0 | 482.1 |
| 142.5° | 493.8 | 494.0 | 494.2 | 494.4 | 494.4 | 494.4 | 494.4 | 494.5 |
| 145° | 512.1 | 512.3 | 512.4 | 512.5 | 512.7 | 512.9 | 513.2 | 513.3 |
| 147.5° | 528.3 | 528.4 | 528.5 | 528.5 | 528.7 | 528.8 | 528.9 | 528.9 |
| 150° | 538.6 | 538.6 | 538.6 | 538.7 | 538.8 | 538.9 | 539.0 | 539.1 |
| 152.5° | 547.6 | 547.8 | 548.0 | 548.0 | 548.0 | 547.9 | 547.8 | 547.8 |
| 155° | 559.8 | 560.2 | 560.5 | 560.6 | 560.3 | 560.0 | 559.8 | 559.4 |
| 157.5° | 570.2 | 570.8 | 571.2 | 571.2 | 570.8 | 570.2 | 569.7 | 569.2 |
| 160° | 576.9 | 577.5 | 578.1 | 578.1 | 577.5 | 576.9 | 576.3 | 575.7 |
| 162.5° | 582.3 | 582.9 | 583.5 | 583.5 | 582.8 | 582.1 | 581.5 | 580.7 |
| 165° | 589.9 | 590.7 | 591.6 | 591.5 | 590.6 | 589.7 | 588.8 | 587.9 |
| 167.5° | 595.6 | 596.4 | 597.3 | 597.2 | 596.3 | 595.2 | 594.2 | 593.3 |
| 170° | 599.0 | 599.8 | 600.6 | 600.5 | 599.5 | 598.5 | 597.5 | 596.5 |
| 172.5° | 601.2 | 602.0 | 602.8 | 602.6 | 601.6 | 600.5 | 599.4 | 598.3 |
| 175° | 603.7 | 604.6 | 605.5 | 605.4 | 604.2 | 602.9 | 601.7 | 600.6 |
| 177.5° | 604.8 | 605.4 | 606.0 | 605.9 | 604.9 | 604.0 | 602.9 | 602.0 |
| 180° | 604.2 | 604.2 | 604.2 | 604.2 | 604.2 | 604.2 | 604.2 | 604.2 |

(END OF REPORT)