

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: P332869

Luminaire Tested: **S124RDIP-S350D365U835-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332869
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: S124RDIP-S350D365U835-4F0-1E-UDD-F1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 365 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2697.3 lumens
Efficiency: N/A
Efficacy: 132.9 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

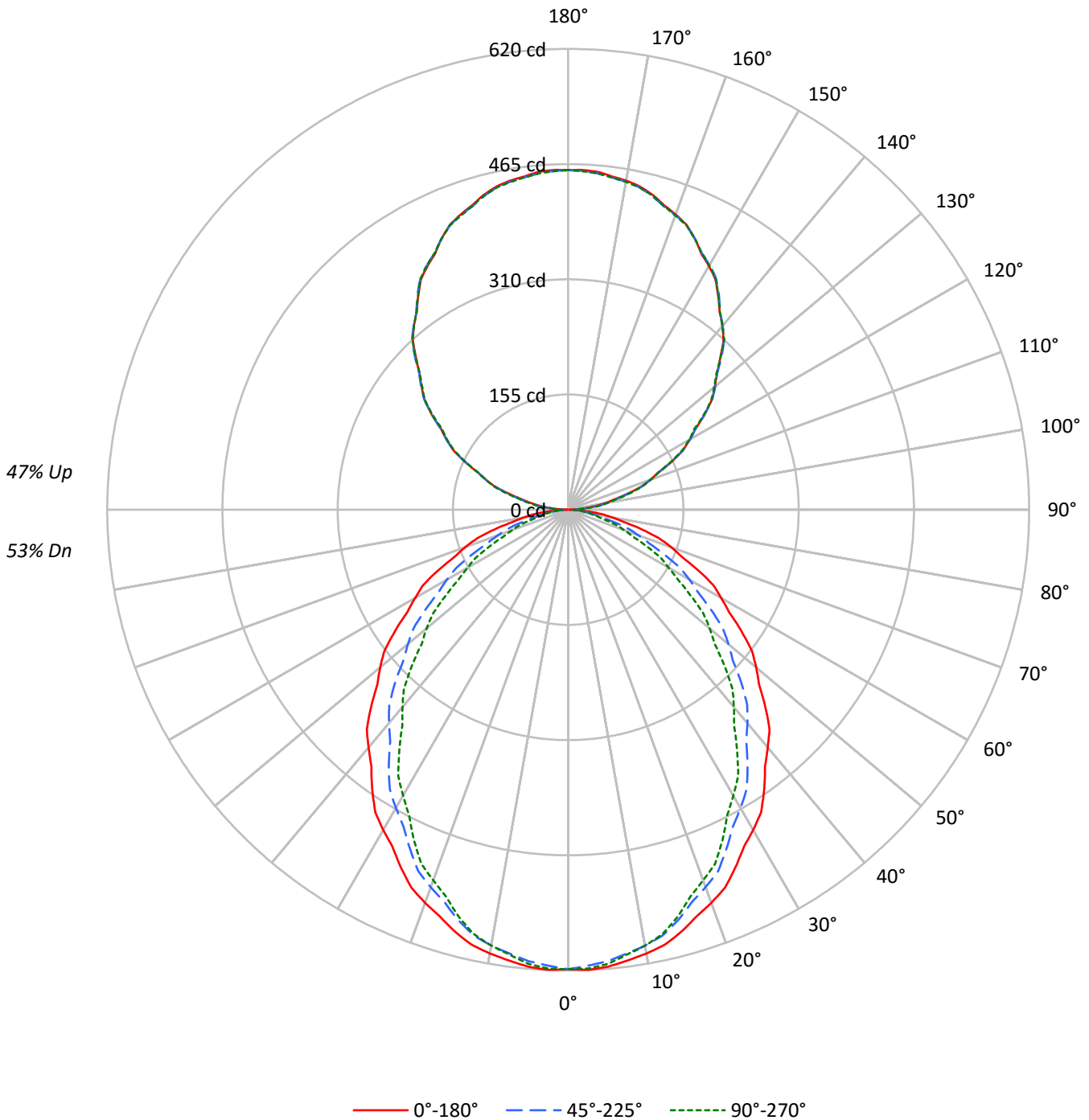
Input Watts (W): 20.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332869

CATALOG NUMBER: S124RDIP-S350D365U835-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P332869

CATALOG NUMBER: S124RDIP-S350D365U835-4F0-1E-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 | 108 | 108 | 108 | 108 | 100 | 100 | 100 | 100 | 85 | 85 | 85 | 71 | 71 | 71 | 59 | 59 | 59 | 53 |
| 1 | 99 | 95 | 91 | 87 | 91 | 88 | 84 | 81 | 75 | 73 | 70 | 63 | 62 | 60 | 52 | 51 | 50 | 45 |
| 2 | 90 | 83 | 77 | 72 | 83 | 77 | 72 | 67 | 66 | 62 | 59 | 56 | 53 | 51 | 47 | 45 | 43 | 38 |
| 3 | 82 | 73 | 66 | 60 | 76 | 68 | 62 | 57 | 58 | 54 | 50 | 50 | 46 | 43 | 41 | 39 | 37 | 33 |
| 4 | 76 | 65 | 57 | 51 | 70 | 60 | 54 | 48 | 52 | 47 | 43 | 44 | 40 | 37 | 37 | 34 | 32 | 28 |
| 5 | 69 | 58 | 50 | 44 | 64 | 54 | 47 | 42 | 47 | 41 | 37 | 40 | 36 | 32 | 34 | 30 | 28 | 25 |
| 6 | 64 | 52 | 44 | 38 | 59 | 49 | 41 | 36 | 42 | 37 | 32 | 36 | 32 | 28 | 31 | 27 | 25 | 22 |
| 7 | 59 | 47 | 39 | 34 | 55 | 44 | 37 | 32 | 38 | 33 | 29 | 33 | 29 | 25 | 28 | 25 | 22 | 19 |
| 8 | 55 | 43 | 35 | 30 | 51 | 40 | 33 | 28 | 35 | 29 | 25 | 30 | 26 | 23 | 26 | 22 | 20 | 17 |
| 9 | 51 | 39 | 32 | 27 | 48 | 37 | 30 | 25 | 32 | 27 | 23 | 28 | 24 | 20 | 24 | 20 | 18 | 16 |
| 10 | 48 | 36 | 29 | 24 | 45 | 34 | 27 | 23 | 30 | 24 | 21 | 26 | 22 | 19 | 22 | 19 | 16 | 14 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4991 | 4991 | 4991 |
| 5° | 5002 | 4941 | 4971 |
| 10° | 4970 | 4882 | 4882 |
| 15° | 4914 | 4779 | 4743 |
| 20° | 4835 | 4643 | 4558 |
| 25° | 4735 | 4486 | 4372 |
| 30° | 4638 | 4320 | 4139 |
| 35° | 4529 | 4147 | 3905 |
| 40° | 4400 | 3951 | 3652 |
| 45° | 4280 | 3756 | 3394 |
| 50° | 4143 | 3532 | 3121 |
| 55° | 3997 | 3298 | 2825 |
| 60° | 3836 | 3042 | 2522 |
| 65° | 3689 | 2722 | 2223 |
| 70° | 3474 | 2367 | 1888 |
| 75° | 3203 | 1965 | 1535 |
| 80° | 2794 | 1497 | 1409 |
| 85° | 2371 | 1362 | 1269 |



TEST NUMBER: P332869

CATALOG NUMBER: S124RDIP-S350D365U835-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 58.1 | 2.2 |
| 10°-20° | 161.9 | 6.0 |
| 20°-30° | 233.8 | 8.7 |
| 30°-40° | 265.1 | 9.8 |
| 40°-50° | 255.9 | 9.5 |
| 50°-60° | 212.8 | 7.9 |
| 60°-70° | 147.0 | 5.4 |
| 70°-80° | 74.5 | 2.8 |
| 80°-90° | 20.5 | 0.8 |
| 90°-100° | 30.1 | 1.1 |
| 100°-110° | 89.3 | 3.3 |
| 110°-120° | 151.5 | 5.6 |
| 120°-130° | 199.8 | 7.4 |
| 130°-140° | 224.4 | 8.3 |
| 140°-150° | 220.5 | 8.2 |
| 150°-160° | 185.4 | 6.9 |
| 160°-170° | 123.4 | 4.6 |
| 170°-180° | 43.2 | 1.6 |
| 0°-30° | 453.8 | 16.8 |
| 0°-40° | 718.9 | 26.7 |
| 0°-60° | 1187.7 | 44.0 |
| 0°-90° | 1429.6 | 53.0 |
| 90°-120° | 270.9 | 10.0 |
| 90°-150° | 915.6 | 33.9 |
| 90°-180° | 1268.0 | 47.0 |
| 0°-180° | 2697.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 618 | 618 | 618 | 618 | 618 | |
| 5° | 617 | 615 | 610 | 614 | 613 | 59 |
| 15° | 588 | 583 | 572 | 571 | 568 | 166 |
| 25° | 532 | 522 | 504 | 496 | 491 | 245 |
| 35° | 460 | 444 | 421 | 405 | 396 | 287 |
| 45° | 375 | 357 | 329 | 307 | 297 | 289 |
| 55° | 284 | 264 | 234 | 211 | 201 | 254 |
| 65° | 193 | 172 | 142 | 123 | 116 | 191 |
| 75° | 103 | 85 | 63 | 53 | 49 | 108 |
| 85° | 26 | 16 | 15 | 14 | 14 | 29 |
| 90° | 1 | 5 | 8 | 10 | 11 | 3 |
| 95° | 21 | 24 | 27 | 28 | 28 | 24 |
| 105° | 82 | 83 | 84 | 85 | 86 | 87 |
| 115° | 154 | 154 | 153 | 153 | 153 | 152 |
| 125° | 224 | 224 | 224 | 223 | 223 | 200 |
| 135° | 289 | 291 | 292 | 291 | 290 | 224 |
| 145° | 352 | 353 | 353 | 353 | 352 | 220 |
| 155° | 403 | 403 | 402 | 404 | 402 | 185 |
| 165° | 438 | 438 | 437 | 439 | 438 | 124 |
| 175° | 456 | 454 | 454 | 456 | 454 | 43 |
| 180° | 457 | 457 | 457 | 457 | 457 | |



TEST NUMBER: P332869

CATALOG NUMBER: S124RDIP-S350D365U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 618.2 | 618.2 | 618.2 | 618.2 | 618.2 | 618.2 | 618.2 | 618.2 | 618.2 | 618.2 | 618.2 |
| 2.5° | 619.7 | 619.3 | 619.0 | 618.7 | 618.3 | 617.7 | 616.8 | 615.9 | 614.9 | 614.0 | 614.9 |
| 5° | 617.2 | 616.8 | 616.4 | 616.0 | 615.5 | 614.7 | 613.4 | 612.2 | 610.9 | 609.7 | 610.7 |
| 7.5° | 611.6 | 611.2 | 610.8 | 610.3 | 609.9 | 608.8 | 607.2 | 605.5 | 603.9 | 602.3 | 602.9 |
| 10° | 606.3 | 605.8 | 605.3 | 604.8 | 604.2 | 603.0 | 601.1 | 599.2 | 597.3 | 595.5 | 595.9 |
| 12.5° | 599.5 | 598.9 | 598.3 | 597.7 | 597.1 | 595.7 | 593.4 | 591.2 | 589.0 | 586.7 | 587.0 |
| 15° | 587.9 | 586.9 | 586.0 | 585.0 | 584.1 | 582.3 | 579.7 | 577.0 | 574.4 | 571.8 | 571.6 |
| 17.5° | 573.8 | 572.4 | 571.0 | 569.7 | 568.3 | 566.0 | 562.9 | 559.7 | 556.6 | 553.4 | 552.8 |
| 20° | 562.8 | 561.4 | 560.1 | 558.7 | 557.3 | 554.9 | 551.3 | 547.7 | 544.1 | 540.5 | 539.7 |
| 22.5° | 550.7 | 549.1 | 547.6 | 546.1 | 544.5 | 541.8 | 538.0 | 534.2 | 530.4 | 526.5 | 525.3 |
| 25° | 531.6 | 529.7 | 527.8 | 525.9 | 524.0 | 520.9 | 516.6 | 512.3 | 507.9 | 503.6 | 501.8 |
| 27.5° | 511.5 | 509.1 | 506.7 | 504.4 | 502.0 | 498.5 | 493.9 | 489.3 | 484.7 | 480.1 | 477.8 |
| 30° | 497.5 | 494.8 | 492.2 | 489.6 | 487.0 | 483.2 | 478.2 | 473.3 | 468.3 | 463.4 | 460.8 |
| 32.5° | 482.7 | 479.7 | 476.8 | 473.8 | 470.8 | 466.8 | 461.7 | 456.6 | 451.5 | 446.4 | 443.3 |
| 35° | 459.6 | 456.2 | 452.9 | 449.5 | 446.1 | 441.8 | 436.6 | 431.3 | 426.1 | 420.8 | 417.2 |
| 37.5° | 434.9 | 431.4 | 428.0 | 424.5 | 421.0 | 416.4 | 410.5 | 404.7 | 398.9 | 393.1 | 389.1 |
| 40° | 417.5 | 414.0 | 410.5 | 407.1 | 403.6 | 398.9 | 392.9 | 386.9 | 380.9 | 374.9 | 370.5 |
| 42.5° | 400.8 | 397.2 | 393.5 | 389.9 | 386.3 | 381.3 | 375.1 | 368.8 | 362.6 | 356.3 | 351.8 |
| 45° | 374.9 | 371.0 | 367.1 | 363.2 | 359.3 | 354.2 | 347.9 | 341.6 | 335.3 | 329.0 | 323.8 |
| 47.5° | 348.1 | 344.1 | 340.1 | 336.0 | 332.0 | 326.7 | 320.2 | 313.6 | 307.0 | 300.5 | 295.1 |
| 50° | 329.9 | 325.8 | 321.7 | 317.6 | 313.5 | 308.1 | 301.4 | 294.6 | 287.9 | 281.2 | 275.9 |
| 52.5° | 311.4 | 307.3 | 303.3 | 299.3 | 295.3 | 289.8 | 282.9 | 276.0 | 269.1 | 262.2 | 256.9 |
| 55° | 284.0 | 279.8 | 275.6 | 271.4 | 267.2 | 261.6 | 254.8 | 248.0 | 241.1 | 234.3 | 228.8 |
| 57.5° | 256.9 | 252.5 | 248.2 | 243.8 | 239.4 | 233.9 | 227.1 | 220.4 | 213.7 | 206.9 | 201.4 |
| 60° | 237.6 | 233.4 | 229.2 | 225.0 | 220.8 | 215.3 | 208.6 | 201.8 | 195.1 | 188.4 | 182.9 |
| 62.5° | 220.2 | 215.8 | 211.4 | 207.1 | 202.7 | 197.1 | 190.2 | 183.3 | 176.4 | 169.5 | 164.4 |
| 65° | 193.1 | 188.6 | 184.1 | 179.6 | 175.0 | 169.4 | 162.7 | 155.9 | 149.2 | 142.5 | 138.0 |
| 67.5° | 165.0 | 160.7 | 156.3 | 152.0 | 147.7 | 142.4 | 136.1 | 129.9 | 123.6 | 117.4 | 113.5 |
| 70° | 147.2 | 142.8 | 138.4 | 134.0 | 129.5 | 124.3 | 118.3 | 112.3 | 106.3 | 100.3 | 96.9 |
| 72.5° | 128.3 | 124.3 | 120.3 | 116.3 | 112.3 | 107.5 | 101.8 | 96.1 | 90.5 | 84.8 | 81.9 |
| 75° | 102.7 | 98.8 | 94.9 | 91.0 | 87.1 | 82.7 | 77.8 | 72.8 | 67.9 | 63.0 | 60.5 |
| 77.5° | 76.8 | 73.5 | 70.2 | 66.9 | 63.6 | 59.9 | 55.9 | 51.9 | 47.9 | 43.9 | 42.5 |
| 80° | 60.1 | 57.1 | 54.0 | 51.0 | 47.9 | 44.8 | 41.7 | 38.5 | 35.3 | 32.2 | 31.9 |
| 82.5° | 45.7 | 42.9 | 40.1 | 37.3 | 34.5 | 32.2 | 30.4 | 28.6 | 26.8 | 25.0 | 24.8 |
| 85° | 25.6 | 23.5 | 21.4 | 19.2 | 17.1 | 15.9 | 15.6 | 15.3 | 15.0 | 14.7 | 14.5 |
| 87.5° | 8.9 | 8.4 | 7.9 | 7.4 | 6.9 | 6.7 | 6.7 | 6.8 | 6.8 | 6.9 | 6.9 |
| 90° | 1.1 | 1.9 | 2.8 | 3.7 | 4.5 | 5.3 | 5.9 | 6.5 | 7.1 | 7.8 | 8.2 |
| 92.5° | 7.6 | 8.6 | 9.5 | 10.5 | 11.5 | 12.2 | 12.7 | 13.1 | 13.6 | 14.0 | 14.3 |
| 95° | 21.2 | 21.9 | 22.6 | 23.3 | 24.0 | 24.7 | 25.2 | 25.8 | 26.3 | 26.9 | 27.1 |
| 97.5° | 37.0 | 37.6 | 38.2 | 38.7 | 39.3 | 39.9 | 40.5 | 41.2 | 41.8 | 42.5 | 42.8 |
| 100° | 49.5 | 49.8 | 50.1 | 50.4 | 50.7 | 51.2 | 51.9 | 52.7 | 53.4 | 54.1 | 54.2 |
| 102.5° | 62.5 | 62.6 | 62.7 | 62.9 | 63.0 | 63.4 | 64.0 | 64.7 | 65.3 | 65.9 | 66.2 |
| 105° | 82.3 | 82.4 | 82.5 | 82.6 | 82.6 | 82.8 | 83.2 | 83.5 | 83.8 | 84.1 | 84.3 |
| 107.5° | 103.2 | 103.3 | 103.4 | 103.5 | 103.6 | 103.6 | 103.7 | 103.7 | 103.8 | 103.8 | 104.0 |
| 110° | 117.3 | 117.5 | 117.6 | 117.8 | 117.9 | 118.0 | 117.9 | 117.8 | 117.7 | 117.7 | 117.5 |



TEST NUMBER: P332869

CATALOG NUMBER: S124RDIP-S350D365U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 132.0 | 132.0 | 132.1 | 132.1 | 132.1 | 132.1 | 131.9 | 131.8 | 131.7 | 131.5 | 131.5 |
| 115° | 154.1 | 154.1 | 154.1 | 154.1 | 154.1 | 154.0 | 153.8 | 153.7 | 153.5 | 153.4 | 153.3 |
| 117.5° | 174.8 | 174.9 | 175.0 | 175.0 | 175.1 | 175.1 | 175.0 | 174.9 | 174.7 | 174.6 | 174.4 |
| 120° | 188.7 | 189.0 | 189.3 | 189.6 | 190.0 | 190.0 | 189.8 | 189.5 | 189.3 | 189.1 | 188.7 |
| 122.5° | 203.1 | 203.2 | 203.4 | 203.5 | 203.6 | 203.6 | 203.5 | 203.4 | 203.3 | 203.2 | 202.9 |
| 125° | 224.4 | 224.4 | 224.4 | 224.4 | 224.4 | 224.3 | 224.3 | 224.2 | 224.1 | 224.0 | 223.9 |
| 127.5° | 243.7 | 243.9 | 244.2 | 244.4 | 244.6 | 244.7 | 244.6 | 244.4 | 244.3 | 244.2 | 244.0 |
| 130° | 257.3 | 257.5 | 257.7 | 258.0 | 258.2 | 258.3 | 258.3 | 258.3 | 258.3 | 258.3 | 258.2 |
| 132.5° | 271.1 | 271.3 | 271.4 | 271.6 | 271.8 | 271.8 | 271.8 | 271.7 | 271.7 | 271.6 | 271.4 |
| 135° | 289.4 | 289.9 | 290.3 | 290.8 | 291.3 | 291.5 | 291.5 | 291.5 | 291.5 | 291.5 | 291.4 |
| 137.5° | 309.3 | 309.6 | 309.8 | 310.0 | 310.2 | 310.4 | 310.5 | 310.6 | 310.8 | 310.9 | 310.7 |
| 140° | 322.6 | 322.8 | 322.9 | 323.1 | 323.3 | 323.3 | 323.3 | 323.3 | 323.3 | 323.3 | 323.3 |
| 142.5° | 334.8 | 334.9 | 335.1 | 335.2 | 335.4 | 335.5 | 335.4 | 335.3 | 335.3 | 335.2 | 335.2 |
| 145° | 351.6 | 351.9 | 352.2 | 352.5 | 352.9 | 353.1 | 353.1 | 353.2 | 353.3 | 353.4 | 353.3 |
| 147.5° | 368.3 | 368.7 | 369.0 | 369.4 | 369.8 | 369.9 | 369.9 | 369.8 | 369.8 | 369.7 | 369.6 |
| 150° | 378.5 | 378.8 | 379.1 | 379.4 | 379.7 | 379.9 | 379.9 | 379.9 | 379.9 | 379.9 | 379.9 |
| 152.5° | 388.1 | 388.3 | 388.4 | 388.6 | 388.8 | 388.9 | 389.0 | 389.1 | 389.1 | 389.2 | 389.4 |
| 155° | 402.8 | 402.8 | 402.8 | 402.8 | 402.8 | 402.8 | 402.7 | 402.6 | 402.6 | 402.5 | 402.8 |
| 157.5° | 415.3 | 415.1 | 415.0 | 414.9 | 414.7 | 414.6 | 414.6 | 414.6 | 414.6 | 414.6 | 414.8 |
| 160° | 422.6 | 422.5 | 422.5 | 422.4 | 422.3 | 422.2 | 422.2 | 422.1 | 422.0 | 421.9 | 422.2 |
| 162.5° | 429.4 | 429.2 | 429.0 | 428.8 | 428.6 | 428.5 | 428.4 | 428.3 | 428.2 | 428.1 | 428.6 |
| 165° | 438.5 | 438.3 | 438.1 | 437.8 | 437.6 | 437.4 | 437.2 | 437.1 | 436.9 | 436.8 | 437.2 |
| 167.5° | 445.5 | 445.2 | 444.9 | 444.5 | 444.2 | 444.0 | 444.1 | 444.1 | 444.1 | 444.1 | 444.6 |
| 170° | 449.5 | 449.1 | 448.7 | 448.3 | 447.9 | 447.8 | 447.8 | 447.9 | 448.0 | 448.1 | 448.5 |
| 172.5° | 452.3 | 452.0 | 451.6 | 451.3 | 451.0 | 450.8 | 450.8 | 450.9 | 450.9 | 450.9 | 451.4 |
| 175° | 456.2 | 455.8 | 455.4 | 455.0 | 454.6 | 454.4 | 454.3 | 454.2 | 454.2 | 454.1 | 454.6 |
| 177.5° | 457.5 | 457.2 | 456.8 | 456.5 | 456.2 | 456.1 | 456.1 | 456.1 | 456.1 | 456.1 | 456.5 |
| 180° | 456.9 | 456.9 | 456.9 | 456.9 | 456.9 | 456.9 | 456.9 | 456.9 | 456.9 | 456.9 | 456.9 |



TEST NUMBER: P332869

CATALOG NUMBER: S124RDIP-S350D365U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 618.2 | 618.2 | 618.2 | 618.2 | 618.2 | 618.2 | 618.2 | 618.2 |
| 2.5° | 615.9 | 616.8 | 617.7 | 618.1 | 618.0 | 618.0 | 617.9 | 617.8 |
| 5° | 611.8 | 612.8 | 613.9 | 614.3 | 614.1 | 613.9 | 613.6 | 613.4 |
| 7.5° | 603.6 | 604.3 | 605.0 | 605.1 | 604.8 | 604.5 | 604.1 | 603.8 |
| 10° | 596.3 | 596.7 | 597.1 | 597.1 | 596.7 | 596.3 | 595.9 | 595.5 |
| 12.5° | 587.2 | 587.5 | 587.8 | 587.6 | 587.0 | 586.4 | 585.8 | 585.2 |
| 15° | 571.4 | 571.2 | 570.9 | 570.5 | 569.7 | 569.0 | 568.3 | 567.5 |
| 17.5° | 552.2 | 551.7 | 551.1 | 550.2 | 549.1 | 548.0 | 546.9 | 545.8 |
| 20° | 538.9 | 538.0 | 537.2 | 536.1 | 534.7 | 533.3 | 532.0 | 530.6 |
| 22.5° | 524.0 | 522.7 | 521.5 | 520.3 | 519.2 | 518.1 | 517.0 | 515.8 |
| 25° | 500.0 | 498.3 | 496.5 | 495.1 | 494.0 | 492.9 | 491.9 | 490.8 |
| 27.5° | 475.6 | 473.4 | 471.2 | 469.4 | 467.8 | 466.3 | 464.8 | 463.3 |
| 30° | 458.1 | 455.5 | 452.9 | 450.7 | 449.0 | 447.4 | 445.7 | 444.0 |
| 32.5° | 440.3 | 437.2 | 434.2 | 431.8 | 430.2 | 428.6 | 427.0 | 425.4 |
| 35° | 413.6 | 410.1 | 406.5 | 403.8 | 401.9 | 400.0 | 398.1 | 396.2 |
| 37.5° | 385.1 | 381.1 | 377.1 | 374.1 | 372.2 | 370.3 | 368.4 | 366.5 |
| 40° | 366.0 | 361.6 | 357.2 | 354.1 | 352.2 | 350.3 | 348.4 | 346.5 |
| 42.5° | 347.3 | 342.8 | 338.3 | 335.1 | 333.1 | 331.1 | 329.1 | 327.2 |
| 45° | 318.7 | 313.5 | 308.3 | 304.8 | 302.9 | 301.0 | 299.1 | 297.3 |
| 47.5° | 289.8 | 284.4 | 279.1 | 275.4 | 273.3 | 271.2 | 269.1 | 267.1 |
| 50° | 270.6 | 265.4 | 260.1 | 256.5 | 254.5 | 252.5 | 250.5 | 248.5 |
| 52.5° | 251.5 | 246.2 | 240.9 | 237.1 | 235.1 | 233.0 | 230.9 | 228.8 |
| 55° | 223.4 | 217.9 | 212.4 | 208.7 | 206.7 | 204.7 | 202.7 | 200.7 |
| 57.5° | 195.8 | 190.3 | 184.7 | 181.2 | 179.7 | 178.2 | 176.6 | 175.1 |
| 60° | 177.4 | 172.0 | 166.5 | 162.9 | 161.2 | 159.6 | 157.9 | 156.2 |
| 62.5° | 159.4 | 154.3 | 149.3 | 146.1 | 144.7 | 143.4 | 142.0 | 140.7 |
| 65° | 133.4 | 128.9 | 124.4 | 121.5 | 120.2 | 119.0 | 117.7 | 116.4 |
| 67.5° | 109.6 | 105.7 | 101.8 | 99.2 | 97.8 | 96.4 | 95.0 | 93.6 |
| 70° | 93.4 | 89.9 | 86.5 | 84.2 | 83.1 | 82.1 | 81.0 | 80.0 |
| 72.5° | 78.9 | 75.9 | 73.0 | 71.0 | 70.0 | 69.1 | 68.1 | 67.1 |
| 75° | 58.1 | 55.7 | 53.3 | 51.8 | 51.1 | 50.5 | 49.9 | 49.2 |
| 77.5° | 41.1 | 39.7 | 38.3 | 37.5 | 37.3 | 37.1 | 36.9 | 36.7 |
| 80° | 31.6 | 31.2 | 30.9 | 30.7 | 30.6 | 30.5 | 30.4 | 30.3 |
| 82.5° | 24.5 | 24.3 | 24.1 | 23.9 | 23.8 | 23.7 | 23.6 | 23.5 |
| 85° | 14.3 | 14.0 | 13.8 | 13.7 | 13.7 | 13.7 | 13.7 | 13.7 |
| 87.5° | 6.9 | 6.9 | 6.9 | 7.0 | 7.1 | 7.2 | 7.3 | 7.4 |
| 90° | 8.7 | 9.2 | 9.7 | 10.0 | 10.1 | 10.3 | 10.4 | 10.6 |
| 92.5° | 14.6 | 14.8 | 15.1 | 15.3 | 15.4 | 15.5 | 15.6 | 15.7 |
| 95° | 27.3 | 27.6 | 27.8 | 27.9 | 27.9 | 27.9 | 27.9 | 27.9 |
| 97.5° | 43.0 | 43.3 | 43.6 | 43.7 | 43.7 | 43.7 | 43.7 | 43.7 |
| 100° | 54.4 | 54.5 | 54.7 | 54.8 | 54.8 | 54.8 | 54.8 | 54.8 |
| 102.5° | 66.4 | 66.6 | 66.8 | 67.0 | 67.0 | 67.1 | 67.1 | 67.2 |
| 105° | 84.6 | 84.8 | 85.0 | 85.3 | 85.5 | 85.8 | 86.0 | 86.2 |
| 107.5° | 104.3 | 104.5 | 104.7 | 104.8 | 104.8 | 104.8 | 104.8 | 104.7 |
| 110° | 117.4 | 117.2 | 117.0 | 117.1 | 117.3 | 117.6 | 117.8 | 118.0 |



TEST NUMBER: P332869

CATALOG NUMBER: S124RDIP-S350D365U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 131.5 | 131.4 | 131.4 | 131.4 | 131.5 | 131.5 | 131.5 | 131.6 |
| 115° | 153.2 | 153.1 | 153.0 | 153.0 | 152.9 | 152.8 | 152.7 | 152.7 |
| 117.5° | 174.1 | 173.8 | 173.6 | 173.4 | 173.2 | 173.0 | 172.9 | 172.7 |
| 120° | 188.3 | 187.9 | 187.5 | 187.4 | 187.5 | 187.7 | 187.8 | 188.0 |
| 122.5° | 202.7 | 202.4 | 202.1 | 201.8 | 201.6 | 201.3 | 201.0 | 200.7 |
| 125° | 223.7 | 223.6 | 223.4 | 223.2 | 223.1 | 222.9 | 222.8 | 222.6 |
| 127.5° | 243.9 | 243.7 | 243.5 | 243.4 | 243.3 | 243.2 | 243.0 | 242.9 |
| 130° | 258.0 | 257.8 | 257.7 | 257.4 | 257.1 | 256.8 | 256.5 | 256.2 |
| 132.5° | 271.3 | 271.1 | 271.0 | 270.8 | 270.7 | 270.6 | 270.5 | 270.3 |
| 135° | 291.2 | 291.1 | 290.9 | 290.7 | 290.5 | 290.2 | 290.0 | 289.8 |
| 137.5° | 310.5 | 310.3 | 310.1 | 310.0 | 310.0 | 310.1 | 310.1 | 310.2 |
| 140° | 323.2 | 323.1 | 323.0 | 322.9 | 322.9 | 322.8 | 322.7 | 322.6 |
| 142.5° | 335.2 | 335.2 | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 | 335.1 |
| 145° | 353.2 | 353.1 | 353.1 | 352.9 | 352.7 | 352.4 | 352.2 | 352.0 |
| 147.5° | 369.6 | 369.5 | 369.4 | 369.4 | 369.3 | 369.2 | 369.1 | 369.1 |
| 150° | 379.9 | 379.9 | 379.9 | 379.8 | 379.8 | 379.7 | 379.6 | 379.5 |
| 152.5° | 389.6 | 389.8 | 390.0 | 389.9 | 389.7 | 389.5 | 389.3 | 389.1 |
| 155° | 403.1 | 403.4 | 403.7 | 403.7 | 403.4 | 403.1 | 402.8 | 402.5 |
| 157.5° | 415.0 | 415.3 | 415.5 | 415.5 | 415.2 | 415.0 | 414.7 | 414.4 |
| 160° | 422.4 | 422.6 | 422.9 | 422.8 | 422.4 | 422.0 | 421.6 | 421.2 |
| 162.5° | 429.0 | 429.4 | 429.8 | 429.8 | 429.5 | 429.1 | 428.7 | 428.3 |
| 165° | 437.7 | 438.2 | 438.6 | 438.7 | 438.4 | 438.1 | 437.8 | 437.5 |
| 167.5° | 445.1 | 445.5 | 446.0 | 446.0 | 445.5 | 445.0 | 444.5 | 444.0 |
| 170° | 449.0 | 449.5 | 450.0 | 449.9 | 449.4 | 448.8 | 448.3 | 447.7 |
| 172.5° | 452.0 | 452.5 | 453.0 | 453.0 | 452.5 | 451.9 | 451.4 | 450.8 |
| 175° | 455.2 | 455.7 | 456.3 | 456.3 | 455.7 | 455.2 | 454.6 | 454.1 |
| 177.5° | 456.9 | 457.4 | 457.8 | 457.8 | 457.3 | 456.8 | 456.3 | 455.8 |
| 180° | 456.9 | 456.9 | 456.9 | 456.9 | 456.9 | 456.9 | 456.9 | 456.9 |

(END OF REPORT)