

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: P332881-927

Luminaire Tested: **S124RDIP-S350D810U927-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332881-927
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-S350D810U927-4F0-1E-UDD-F1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 810 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3355.5 lumens
Efficiency: N/A
Efficacy: 107.5 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

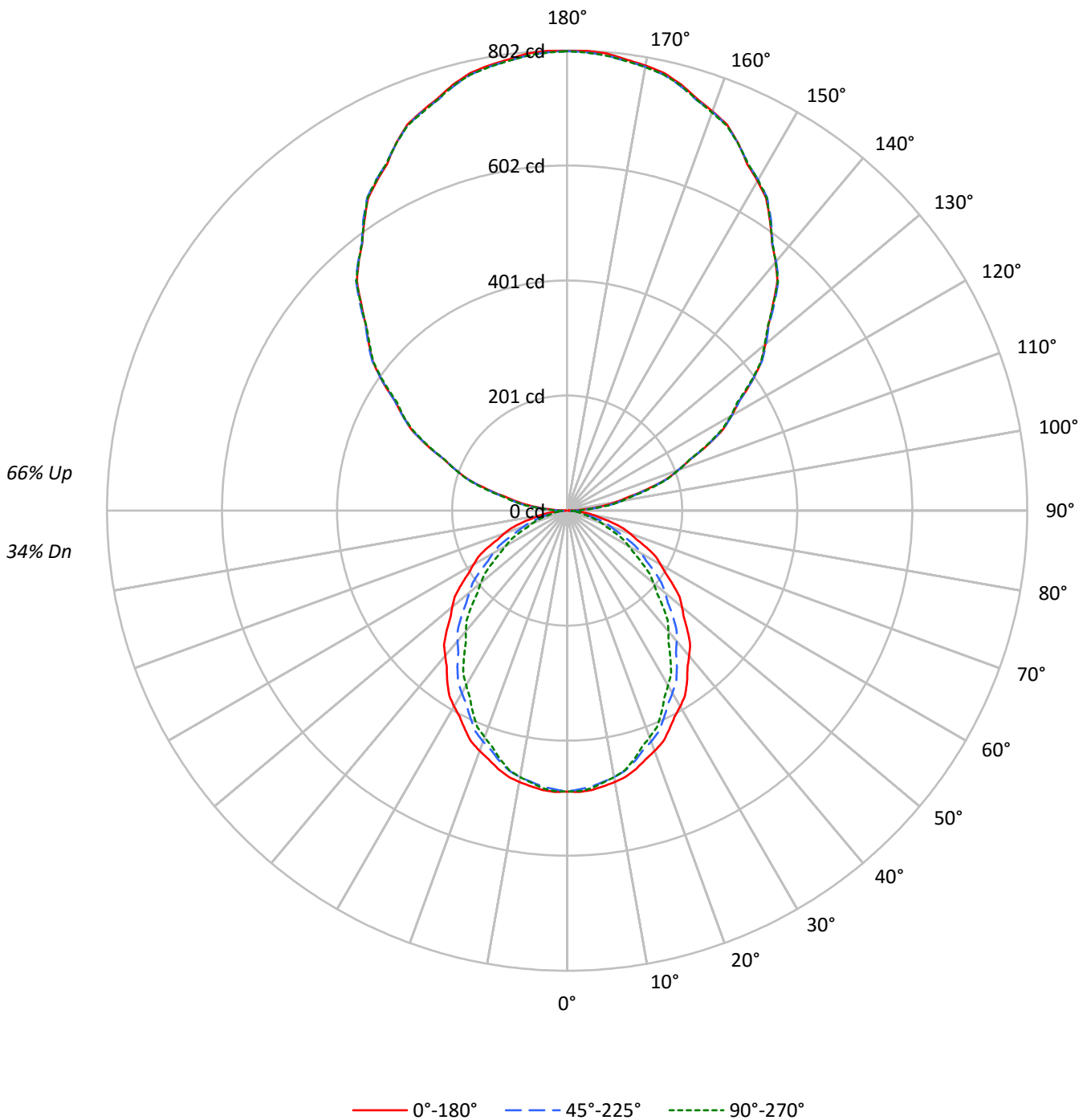
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332881-927

CATALOG NUMBER: S124RDIP-S350D810U927-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P332881-927

CATALOG NUMBER: S124RDIP-S350D810U927-4F0-1E-UDD-F1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|--|--|--|----|--|--|--|--|--|--|--|--|----|---|
| RF | 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 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | | | | | | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 103 | 103 | 103 | 103 | 93 | 93 | 93 | 93 | 74 | 74 | 74 | 57 | 57 | 57 | 41 | 41 | 41 | 34 | | | | | | | | | | | | | | | | | | | | |
| 1 | 94 | 90 | 86 | 83 | 85 | 82 | 78 | 76 | 65 | 63 | 61 | 50 | 49 | 48 | 37 | 36 | 35 | 29 | | | | | | | | | | | | | | | | | | | | |
| 2 | 86 | 79 | 73 | 68 | 77 | 71 | 66 | 62 | 57 | 54 | 51 | 44 | 42 | 40 | 32 | 31 | 30 | 24 | | | | | | | | | | | | | | | | | | | | |
| 3 | 79 | 69 | 62 | 57 | 71 | 63 | 57 | 52 | 51 | 46 | 43 | 39 | 37 | 34 | 29 | 27 | 26 | 21 | | | | | | | | | | | | | | | | | | | | |
| 4 | 72 | 61 | 54 | 48 | 65 | 56 | 49 | 44 | 45 | 40 | 37 | 35 | 32 | 29 | 26 | 24 | 22 | 18 | | | | | | | | | | | | | | | | | | | | |
| 5 | 66 | 55 | 47 | 41 | 59 | 50 | 43 | 38 | 40 | 35 | 32 | 32 | 28 | 25 | 23 | 21 | 19 | 16 | | | | | | | | | | | | | | | | | | | | |
| 6 | 61 | 49 | 41 | 36 | 55 | 45 | 38 | 33 | 36 | 31 | 28 | 29 | 25 | 22 | 21 | 19 | 17 | 14 | | | | | | | | | | | | | | | | | | | | |
| 7 | 56 | 44 | 37 | 31 | 50 | 40 | 34 | 29 | 33 | 28 | 24 | 26 | 22 | 20 | 19 | 17 | 15 | 12 | | | | | | | | | | | | | | | | | | | | |
| 8 | 52 | 40 | 33 | 27 | 47 | 37 | 30 | 25 | 30 | 25 | 21 | 24 | 20 | 18 | 18 | 15 | 14 | 11 | | | | | | | | | | | | | | | | | | | | |
| 9 | 48 | 37 | 29 | 24 | 44 | 33 | 27 | 23 | 27 | 23 | 19 | 22 | 18 | 16 | 16 | 14 | 12 | 10 | | | | | | | | | | | | | | | | | | | | |
| 10 | 45 | 33 | 26 | 22 | 41 | 31 | 24 | 20 | 25 | 20 | 17 | 20 | 17 | 14 | 15 | 13 | 11 | 9 | | | | | | | | | | | | | | | | | | | | |

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: P332881-927

CATALOG NUMBER: S124RDIP-S350D810U927-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 46.0 | 1.4 |
| 10°-20° | 128.3 | 3.8 |
| 20°-30° | 185.2 | 5.5 |
| 30°-40° | 210.0 | 6.3 |
| 40°-50° | 202.8 | 6.0 |
| 50°-60° | 168.6 | 5.0 |
| 60°-70° | 116.4 | 3.5 |
| 70°-80° | 59.0 | 1.8 |
| 80°-90° | 17.5 | 0.5 |
| 90°-100° | 52.8 | 1.6 |
| 100°-110° | 156.5 | 4.7 |
| 110°-120° | 265.6 | 7.9 |
| 120°-130° | 350.2 | 10.4 |
| 130°-140° | 393.3 | 11.7 |
| 140°-150° | 386.4 | 11.5 |
| 150°-160° | 325.0 | 9.7 |
| 160°-170° | 216.2 | 6.4 |
| 170°-180° | 75.7 | 2.3 |
| 0°-30° | 359.5 | 10.7 |
| 0°-40° | 569.5 | 17.0 |
| 0°-60° | 940.8 | 28.0 |
| 0°-90° | 1133.8 | 33.8 |
| 90°-120° | 474.9 | 14.2 |
| 90°-150° | 1604.7 | 47.8 |
| 90°-180° | 2222.0 | 66.2 |
| 0°-180° | 3355.5 | 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° | 2 | 9 | 14 | 17 | 19 | 3 |
| 95° | 37 | 43 | 47 | 49 | 49 | 41 |
| 105° | 144 | 145 | 147 | 149 | 151 | 153 |
| 115° | 270 | 270 | 269 | 268 | 268 | 266 |
| 125° | 393 | 393 | 393 | 391 | 390 | 350 |
| 135° | 507 | 511 | 511 | 510 | 508 | 392 |
| 145° | 616 | 619 | 619 | 619 | 617 | 386 |
| 155° | 706 | 706 | 705 | 708 | 705 | 325 |
| 165° | 769 | 767 | 766 | 769 | 767 | 217 |
| 175° | 800 | 797 | 796 | 800 | 796 | 76 |
| 180° | 801 | 801 | 801 | 801 | 801 | |



TEST NUMBER: P332881-927

CATALOG NUMBER: S124RDIP-S350D810U927-4F0-1E-UDD-F1

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° | 7.3 | 7.1 | 6.8 | 6.6 | 6.3 | 6.3 | 6.5 | 6.7 | 6.7 | 6.9 | 7.1 |
| 90° | 1.8 | 3.4 | 4.9 | 6.4 | 7.9 | 9.2 | 10.3 | 11.4 | 12.5 | 13.6 | 14.4 |
| 92.5° | 13.2 | 15.0 | 16.7 | 18.5 | 20.2 | 21.5 | 22.2 | 23.0 | 23.8 | 24.6 | 25.0 |
| 95° | 37.2 | 38.4 | 39.6 | 40.9 | 42.1 | 43.3 | 44.2 | 45.2 | 46.1 | 47.1 | 47.5 |
| 97.5° | 64.9 | 65.9 | 66.9 | 67.9 | 68.8 | 69.9 | 71.1 | 72.2 | 73.3 | 74.5 | 74.9 |
| 100° | 86.7 | 87.2 | 87.8 | 88.3 | 88.9 | 89.8 | 91.0 | 92.3 | 93.5 | 94.7 | 95.1 |
| 102.5° | 109.5 | 109.7 | 110.0 | 110.2 | 110.4 | 111.1 | 112.2 | 113.3 | 114.5 | 115.6 | 116.0 |
| 105° | 144.3 | 144.4 | 144.6 | 144.7 | 144.9 | 145.2 | 145.8 | 146.3 | 146.9 | 147.4 | 147.8 |
| 107.5° | 180.9 | 181.0 | 181.2 | 181.3 | 181.5 | 181.6 | 181.7 | 181.8 | 181.9 | 182.0 | 182.4 |
| 110° | 205.7 | 205.9 | 206.1 | 206.4 | 206.7 | 206.8 | 206.7 | 206.5 | 206.4 | 206.2 | 206.0 |



TEST NUMBER: P332881-927

CATALOG NUMBER: S124RDIP-S350D810U927-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 231.4 | 231.4 | 231.5 | 231.6 | 231.6 | 231.5 | 231.2 | 231.0 | 230.8 | 230.5 | 230.4 |
| 115° | 270.1 | 270.1 | 270.1 | 270.1 | 270.1 | 269.9 | 269.6 | 269.3 | 269.0 | 268.8 | 268.6 |
| 117.5° | 306.4 | 306.6 | 306.7 | 306.7 | 306.9 | 306.8 | 306.7 | 306.4 | 306.3 | 306.1 | 305.6 |
| 120° | 330.7 | 331.3 | 331.8 | 332.4 | 333.0 | 333.0 | 332.6 | 332.2 | 331.8 | 331.4 | 330.7 |
| 122.5° | 356.0 | 356.2 | 356.4 | 356.6 | 356.9 | 356.9 | 356.7 | 356.5 | 356.3 | 356.1 | 355.6 |
| 125° | 393.2 | 393.2 | 393.2 | 393.2 | 393.2 | 393.2 | 393.1 | 392.9 | 392.8 | 392.7 | 392.4 |
| 127.5° | 427.1 | 427.5 | 427.9 | 428.3 | 428.7 | 428.8 | 428.6 | 428.4 | 428.2 | 427.9 | 427.7 |
| 130° | 450.8 | 451.3 | 451.7 | 452.1 | 452.5 | 452.7 | 452.7 | 452.7 | 452.7 | 452.7 | 452.4 |
| 132.5° | 475.2 | 475.5 | 475.8 | 476.0 | 476.3 | 476.4 | 476.3 | 476.3 | 476.1 | 476.0 | 475.7 |
| 135° | 507.2 | 508.0 | 508.9 | 509.7 | 510.6 | 511.0 | 511.0 | 511.0 | 511.0 | 511.0 | 510.6 |
| 137.5° | 542.2 | 542.6 | 542.9 | 543.3 | 543.7 | 544.0 | 544.2 | 544.5 | 544.6 | 544.9 | 544.5 |
| 140° | 565.5 | 565.7 | 566.0 | 566.3 | 566.6 | 566.6 | 566.6 | 566.6 | 566.6 | 566.6 | 566.6 |
| 142.5° | 586.8 | 587.0 | 587.3 | 587.6 | 587.9 | 588.0 | 587.8 | 587.7 | 587.6 | 587.5 | 587.5 |
| 145° | 616.2 | 616.8 | 617.3 | 617.9 | 618.5 | 618.8 | 618.9 | 619.0 | 619.2 | 619.3 | 619.2 |
| 147.5° | 645.5 | 646.1 | 646.7 | 647.5 | 648.1 | 648.4 | 648.2 | 648.2 | 648.0 | 647.9 | 647.8 |
| 150° | 663.3 | 663.8 | 664.4 | 665.0 | 665.5 | 665.7 | 665.7 | 665.7 | 665.7 | 665.7 | 665.7 |
| 152.5° | 680.2 | 680.5 | 680.8 | 681.1 | 681.4 | 681.7 | 681.8 | 681.9 | 682.0 | 682.1 | 682.5 |
| 155° | 706.0 | 706.0 | 706.0 | 706.0 | 706.0 | 705.9 | 705.8 | 705.7 | 705.5 | 705.4 | 705.9 |
| 157.5° | 727.9 | 727.5 | 727.3 | 727.1 | 726.8 | 726.7 | 726.7 | 726.7 | 726.6 | 726.6 | 727.0 |
| 160° | 740.7 | 740.5 | 740.5 | 740.3 | 740.1 | 740.0 | 739.9 | 739.7 | 739.6 | 739.5 | 739.9 |
| 162.5° | 752.6 | 752.3 | 751.9 | 751.5 | 751.1 | 750.9 | 750.8 | 750.7 | 750.5 | 750.4 | 751.1 |
| 165° | 768.6 | 768.2 | 767.8 | 767.3 | 766.9 | 766.6 | 766.3 | 766.0 | 765.7 | 765.5 | 766.3 |
| 167.5° | 780.9 | 780.2 | 779.7 | 779.1 | 778.6 | 778.2 | 778.2 | 778.3 | 778.3 | 778.3 | 779.2 |
| 170° | 787.7 | 787.1 | 786.4 | 785.7 | 785.1 | 784.7 | 784.9 | 785.1 | 785.1 | 785.3 | 786.1 |
| 172.5° | 792.7 | 792.2 | 791.5 | 791.0 | 790.4 | 790.1 | 790.2 | 790.2 | 790.2 | 790.3 | 791.2 |
| 175° | 799.5 | 798.8 | 798.1 | 797.5 | 796.8 | 796.4 | 796.2 | 796.1 | 796.0 | 795.8 | 796.8 |
| 177.5° | 801.8 | 801.2 | 800.7 | 800.1 | 799.5 | 799.3 | 799.3 | 799.3 | 799.3 | 799.3 | 800.0 |
| 180° | 800.7 | 800.7 | 800.7 | 800.7 | 800.7 | 800.7 | 800.7 | 800.7 | 800.7 | 800.7 | 800.7 |



TEST NUMBER: P332881-927

CATALOG NUMBER: S124RDIP-S350D810U927-4F0-1E-UDD-F1

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° | 7.1 | 7.2 | 7.3 | 7.4 | 7.5 | 7.7 | 7.8 | 7.9 |
| 90° | 15.3 | 16.1 | 17.0 | 17.5 | 17.7 | 18.1 | 18.3 | 18.6 |
| 92.5° | 25.5 | 26.0 | 26.5 | 26.9 | 27.0 | 27.2 | 27.3 | 27.5 |
| 95° | 47.9 | 48.3 | 48.7 | 49.0 | 49.0 | 49.0 | 49.0 | 49.0 |
| 97.5° | 75.4 | 75.9 | 76.4 | 76.7 | 76.7 | 76.7 | 76.7 | 76.7 |
| 100° | 95.3 | 95.6 | 95.9 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 |
| 102.5° | 116.4 | 116.7 | 117.1 | 117.3 | 117.5 | 117.6 | 117.7 | 117.8 |
| 105° | 148.2 | 148.6 | 149.0 | 149.5 | 149.9 | 150.3 | 150.7 | 151.1 |
| 107.5° | 182.8 | 183.1 | 183.5 | 183.7 | 183.6 | 183.6 | 183.6 | 183.5 |
| 110° | 205.7 | 205.4 | 205.1 | 205.2 | 205.7 | 206.0 | 206.4 | 206.8 |



TEST NUMBER: P332881-927

CATALOG NUMBER: S124RDIP-S350D810U927-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 230.4 | 230.4 | 230.3 | 230.3 | 230.4 | 230.4 | 230.5 | 230.6 |
| 115° | 268.5 | 268.4 | 268.2 | 268.1 | 268.0 | 267.8 | 267.7 | 267.5 |
| 117.5° | 305.1 | 304.7 | 304.2 | 303.8 | 303.6 | 303.2 | 303.0 | 302.7 |
| 120° | 329.9 | 329.2 | 328.6 | 328.4 | 328.7 | 328.9 | 329.2 | 329.5 |
| 122.5° | 355.1 | 354.7 | 354.3 | 353.8 | 353.2 | 352.8 | 352.3 | 351.8 |
| 125° | 392.1 | 391.8 | 391.6 | 391.3 | 391.0 | 390.7 | 390.5 | 390.1 |
| 127.5° | 427.4 | 427.1 | 426.8 | 426.6 | 426.4 | 426.2 | 426.0 | 425.7 |
| 130° | 452.2 | 451.9 | 451.6 | 451.2 | 450.7 | 450.1 | 449.6 | 449.0 |
| 132.5° | 475.5 | 475.2 | 474.9 | 474.7 | 474.4 | 474.2 | 474.0 | 473.8 |
| 135° | 510.4 | 510.1 | 509.8 | 509.5 | 509.1 | 508.7 | 508.3 | 507.9 |
| 137.5° | 544.2 | 543.8 | 543.4 | 543.3 | 543.4 | 543.4 | 543.5 | 543.7 |
| 140° | 566.4 | 566.3 | 566.1 | 566.0 | 565.9 | 565.7 | 565.5 | 565.5 |
| 142.5° | 587.4 | 587.4 | 587.4 | 587.3 | 587.3 | 587.3 | 587.2 | 587.2 |
| 145° | 619.0 | 618.9 | 618.8 | 618.5 | 618.1 | 617.7 | 617.3 | 616.9 |
| 147.5° | 647.7 | 647.6 | 647.5 | 647.4 | 647.2 | 647.1 | 647.0 | 646.8 |
| 150° | 665.7 | 665.7 | 665.7 | 665.7 | 665.6 | 665.4 | 665.3 | 665.1 |
| 152.5° | 682.8 | 683.1 | 683.4 | 683.4 | 683.1 | 682.7 | 682.4 | 682.0 |
| 155° | 706.5 | 707.0 | 707.6 | 707.6 | 707.0 | 706.5 | 705.9 | 705.4 |
| 157.5° | 727.4 | 727.9 | 728.3 | 728.2 | 727.8 | 727.3 | 726.8 | 726.4 |
| 160° | 740.3 | 740.7 | 741.1 | 741.0 | 740.3 | 739.6 | 738.9 | 738.2 |
| 162.5° | 751.9 | 752.6 | 753.4 | 753.4 | 752.7 | 752.0 | 751.3 | 750.6 |
| 165° | 767.1 | 767.9 | 768.8 | 768.9 | 768.3 | 767.8 | 767.2 | 766.8 |
| 167.5° | 780.0 | 780.9 | 781.6 | 781.6 | 780.8 | 779.9 | 779.1 | 778.2 |
| 170° | 787.0 | 787.7 | 788.6 | 788.5 | 787.6 | 786.6 | 785.6 | 784.7 |
| 172.5° | 792.1 | 793.1 | 794.0 | 794.0 | 793.1 | 792.0 | 791.1 | 790.1 |
| 175° | 797.7 | 798.7 | 799.7 | 799.7 | 798.7 | 797.7 | 796.8 | 795.8 |
| 177.5° | 800.8 | 801.6 | 802.4 | 802.3 | 801.5 | 800.6 | 799.7 | 798.8 |
| 180° | 800.7 | 800.7 | 800.7 | 800.7 | 800.7 | 800.7 | 800.7 | 800.7 |

(END OF REPORT)