

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: P332894-830

Luminaire Tested: **S124RDIP-S350D1205U830-4F0-1E-UDD-F4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332894-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDIP-S350D1205U830-4F0-1E-UDD-F4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 1205 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5403.7 lumens
Efficiency: N/A
Efficacy: 128.0 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

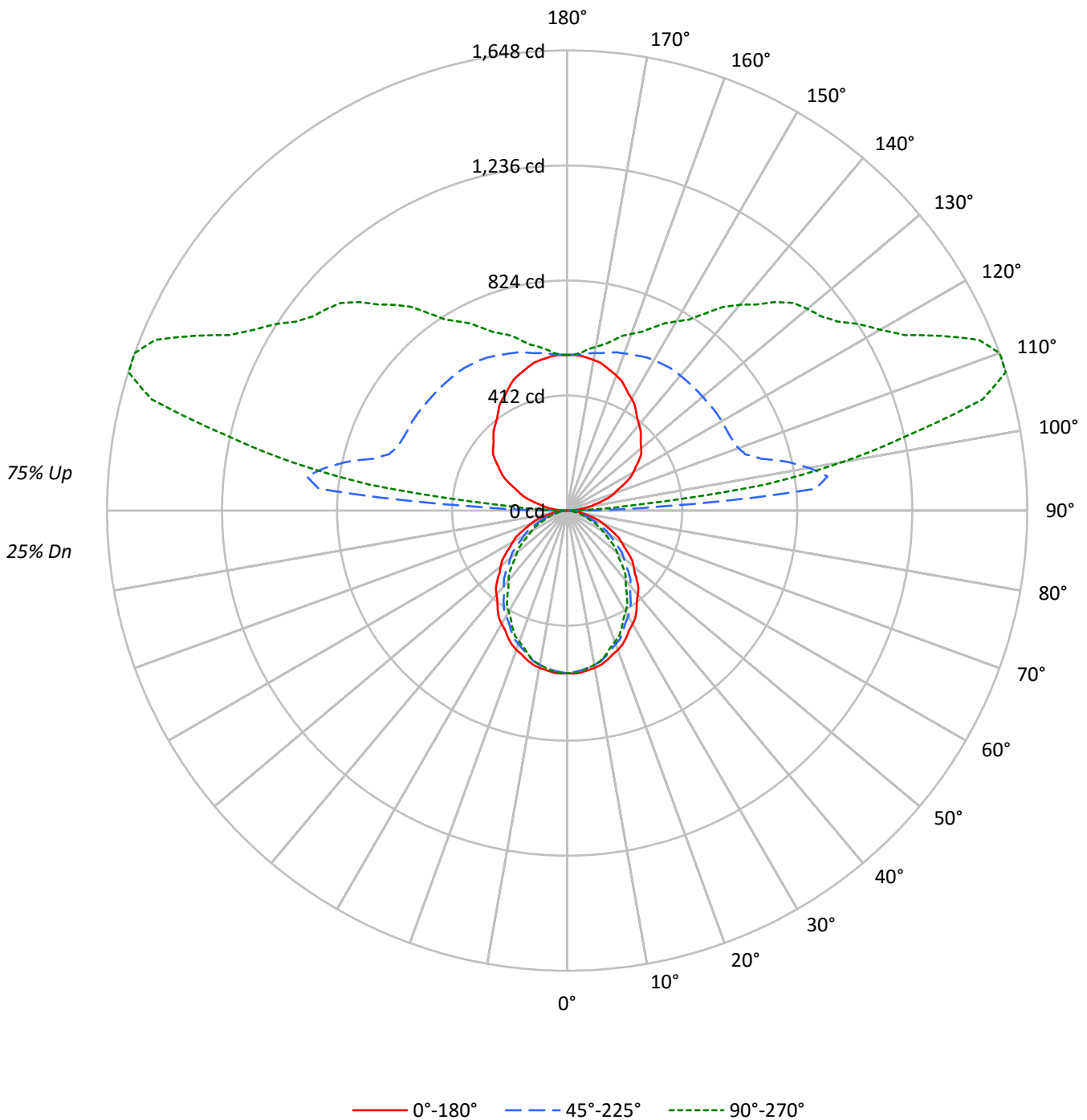
Input Watts (W): 42.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332894-830

CATALOG NUMBER: S124RDIP-S350D1205U830-4F0-1E-UDD-F4

Luminous Intensity Polar Plot





TEST NUMBER: P332894-830

CATALOG NUMBER: S124RDIP-S350D1205U830-4F0-1E-UDD-F4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF | 20 | | | | 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 | 101 | 101 | 101 | 101 | 90 | 90 | 90 | 90 | 69 | 69 | 69 | 51 | 51 | 51 | 33 | 33 | 33 | 25 |
| 1 | 92 | 88 | 85 | 81 | 82 | 79 | 76 | 73 | 61 | 59 | 57 | 45 | 43 | 42 | 29 | 29 | 28 | 21 |
| 2 | 84 | 77 | 71 | 66 | 75 | 69 | 64 | 60 | 53 | 50 | 47 | 39 | 37 | 35 | 26 | 25 | 24 | 18 |
| 3 | 77 | 68 | 61 | 55 | 68 | 61 | 55 | 50 | 47 | 43 | 40 | 35 | 32 | 30 | 23 | 22 | 20 | 15 |
| 4 | 70 | 60 | 52 | 47 | 62 | 54 | 47 | 42 | 42 | 37 | 34 | 31 | 28 | 26 | 21 | 19 | 18 | 13 |
| 5 | 64 | 53 | 46 | 40 | 57 | 48 | 41 | 36 | 37 | 33 | 29 | 28 | 25 | 22 | 19 | 17 | 15 | 12 |
| 6 | 59 | 48 | 40 | 34 | 53 | 43 | 36 | 31 | 34 | 29 | 25 | 25 | 22 | 19 | 17 | 15 | 14 | 10 |
| 7 | 55 | 43 | 35 | 30 | 48 | 39 | 32 | 27 | 30 | 26 | 22 | 23 | 20 | 17 | 15 | 14 | 12 | 9 |
| 8 | 51 | 39 | 31 | 26 | 45 | 35 | 29 | 24 | 28 | 23 | 20 | 21 | 18 | 15 | 14 | 12 | 11 | 8 |
| 9 | 47 | 35 | 28 | 23 | 42 | 32 | 26 | 21 | 25 | 21 | 17 | 19 | 16 | 14 | 13 | 11 | 10 | 7 |
| 10 | 44 | 32 | 25 | 21 | 39 | 29 | 23 | 19 | 23 | 19 | 16 | 17 | 14 | 12 | 12 | 10 | 9 | 7 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4704 | 4704 | 4704 |
| 5° | 4714 | 4657 | 4686 |
| 10° | 4685 | 4601 | 4601 |
| 15° | 4631 | 4504 | 4471 |
| 20° | 4558 | 4376 | 4296 |
| 25° | 4464 | 4228 | 4121 |
| 30° | 4371 | 4072 | 3901 |
| 35° | 4269 | 3909 | 3680 |
| 40° | 4147 | 3724 | 3442 |
| 45° | 4035 | 3540 | 3199 |
| 50° | 3905 | 3328 | 2941 |
| 55° | 3768 | 3108 | 2663 |
| 60° | 3615 | 2868 | 2377 |
| 65° | 3477 | 2565 | 2096 |
| 70° | 3274 | 2231 | 1780 |
| 75° | 3019 | 1853 | 1447 |
| 80° | 2631 | 1409 | 1330 |
| 85° | 2232 | 1288 | 1195 |



TEST NUMBER: P332894-830

CATALOG NUMBER: S124RDIP-S350D1205U830-4F0-1E-UDD-F4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 54.7 | 1.0 |
| 10°-20° | 152.6 | 2.8 |
| 20°-30° | 220.4 | 4.1 |
| 30°-40° | 249.8 | 4.6 |
| 40°-50° | 241.2 | 4.5 |
| 50°-60° | 200.6 | 3.7 |
| 60°-70° | 138.5 | 2.6 |
| 70°-80° | 70.2 | 1.3 |
| 80°-90° | 21.1 | 0.4 |
| 90°-100° | 402.7 | 7.5 |
| 100°-110° | 838.0 | 15.5 |
| 110°-120° | 750.6 | 13.9 |
| 120°-130° | 631.4 | 11.7 |
| 130°-140° | 526.5 | 9.7 |
| 140°-150° | 402.2 | 7.4 |
| 150°-160° | 282.7 | 5.2 |
| 160°-170° | 166.3 | 3.1 |
| 170°-180° | 54.1 | 1.0 |
| 0°-30° | 427.8 | 7.9 |
| 0°-40° | 677.6 | 12.5 |
| 0°-60° | 1119.4 | 20.7 |
| 0°-90° | 1349.2 | 25.0 |
| 90°-120° | 1991.3 | 36.9 |
| 90°-150° | 3551.4 | 65.7 |
| 90°-180° | 4054.0 | 75.0 |
| 0°-180° | 5403.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|------|------|
| 0° | 583 | 583 | 583 | 583 | 583 | |
| 5° | 582 | 580 | 575 | 579 | 578 | 55 |
| 15° | 554 | 550 | 539 | 538 | 535 | 156 |
| 25° | 501 | 492 | 475 | 467 | 463 | 231 |
| 35° | 433 | 418 | 397 | 382 | 373 | 271 |
| 45° | 353 | 336 | 310 | 289 | 280 | 272 |
| 55° | 268 | 249 | 221 | 198 | 189 | 239 |
| 65° | 182 | 162 | 134 | 116 | 110 | 180 |
| 75° | 97 | 80 | 59 | 50 | 46 | 102 |
| 85° | 24 | 16 | 14 | 13 | 13 | 27 |
| 90° | 1 | 9 | 20 | 22 | 23 | 3 |
| 95° | 36 | 114 | 893 | 442 | 267 | 40 |
| 105° | 128 | 186 | 718 | 1547 | 1541 | 137 |
| 115° | 226 | 283 | 641 | 1231 | 1480 | 224 |
| 125° | 314 | 374 | 637 | 1048 | 1181 | 280 |
| 135° | 373 | 445 | 632 | 930 | 1056 | 289 |
| 145° | 430 | 493 | 629 | 784 | 862 | 270 |
| 155° | 490 | 528 | 611 | 692 | 722 | 226 |
| 165° | 533 | 550 | 586 | 620 | 630 | 151 |
| 175° | 556 | 558 | 562 | 570 | 567 | 53 |
| 180° | 558 | 558 | 558 | 558 | 558 | |



TEST NUMBER: P332894-830

CATALOG NUMBER: S124RDIP-S350D1205U830-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0° | 582.7 | 582.7 | 582.7 | 582.7 | 582.7 | 582.7 | 582.7 | 582.7 | 582.7 | 582.7 | 582.7 |
| 2.5° | 584.1 | 583.7 | 583.4 | 583.2 | 582.8 | 582.2 | 581.4 | 580.5 | 579.6 | 578.7 | 579.6 |
| 5° | 581.7 | 581.4 | 581.0 | 580.6 | 580.1 | 579.4 | 578.2 | 577.0 | 575.8 | 574.7 | 575.6 |
| 7.5° | 576.5 | 576.1 | 575.7 | 575.2 | 574.9 | 573.8 | 572.3 | 570.7 | 569.2 | 567.7 | 568.3 |
| 10° | 571.5 | 571.0 | 570.5 | 570.0 | 569.5 | 568.4 | 566.6 | 564.8 | 563.0 | 561.3 | 561.7 |
| 12.5° | 565.1 | 564.5 | 563.9 | 563.4 | 562.8 | 561.5 | 559.3 | 557.2 | 555.2 | 553.0 | 553.3 |
| 15° | 554.1 | 553.2 | 552.3 | 551.4 | 550.5 | 548.8 | 546.4 | 543.8 | 541.4 | 538.9 | 538.8 |
| 17.5° | 540.8 | 539.5 | 538.2 | 537.0 | 535.6 | 533.5 | 530.6 | 527.5 | 524.6 | 521.6 | 521.0 |
| 20° | 530.5 | 529.1 | 527.9 | 526.6 | 525.3 | 523.0 | 519.6 | 516.2 | 512.8 | 509.4 | 508.7 |
| 22.5° | 519.1 | 517.6 | 516.1 | 514.7 | 513.2 | 510.7 | 507.1 | 503.5 | 499.9 | 496.2 | 495.1 |
| 25° | 501.1 | 499.3 | 497.5 | 495.7 | 493.9 | 491.0 | 486.9 | 482.9 | 478.7 | 474.7 | 473.0 |
| 27.5° | 482.1 | 479.8 | 477.6 | 475.4 | 473.2 | 469.9 | 465.5 | 461.2 | 456.9 | 452.5 | 450.3 |
| 30° | 468.9 | 466.4 | 463.9 | 461.5 | 459.0 | 455.4 | 450.7 | 446.1 | 441.4 | 436.8 | 434.3 |
| 32.5° | 455.0 | 452.1 | 449.4 | 446.6 | 443.7 | 440.0 | 435.2 | 430.4 | 425.6 | 420.8 | 417.8 |
| 35° | 433.2 | 430.0 | 426.9 | 423.7 | 420.5 | 416.4 | 411.5 | 406.5 | 401.6 | 396.6 | 393.2 |
| 37.5° | 409.9 | 406.6 | 403.4 | 400.1 | 396.8 | 392.5 | 386.9 | 381.4 | 376.0 | 370.5 | 366.7 |
| 40° | 393.5 | 390.2 | 386.9 | 383.7 | 380.4 | 376.0 | 370.3 | 364.7 | 359.0 | 353.4 | 349.2 |
| 42.5° | 377.8 | 374.4 | 370.9 | 367.5 | 364.1 | 359.4 | 353.5 | 347.6 | 341.8 | 335.8 | 331.6 |
| 45° | 353.4 | 349.7 | 346.0 | 342.3 | 338.7 | 333.8 | 327.9 | 322.0 | 316.0 | 310.1 | 305.2 |
| 47.5° | 328.1 | 324.3 | 320.6 | 316.7 | 312.9 | 307.9 | 301.8 | 295.6 | 289.4 | 283.2 | 278.1 |
| 50° | 310.9 | 307.1 | 303.2 | 299.4 | 295.5 | 290.4 | 284.1 | 277.7 | 271.4 | 265.0 | 260.0 |
| 52.5° | 293.5 | 289.6 | 285.9 | 282.1 | 278.3 | 273.1 | 266.6 | 260.1 | 253.6 | 247.1 | 242.1 |
| 55° | 267.7 | 263.7 | 259.8 | 255.8 | 251.8 | 246.6 | 240.2 | 233.8 | 227.2 | 220.8 | 215.7 |
| 57.5° | 242.1 | 238.0 | 233.9 | 229.8 | 225.6 | 220.5 | 214.1 | 207.7 | 201.4 | 195.0 | 189.8 |
| 60° | 223.9 | 220.0 | 216.0 | 212.1 | 208.1 | 202.9 | 196.6 | 190.2 | 183.9 | 177.6 | 172.4 |
| 62.5° | 207.5 | 203.4 | 199.3 | 195.2 | 191.1 | 185.8 | 179.3 | 172.8 | 166.3 | 159.8 | 155.0 |
| 65° | 182.0 | 177.8 | 173.5 | 169.3 | 164.9 | 159.7 | 153.4 | 146.9 | 140.6 | 134.3 | 130.1 |
| 67.5° | 155.5 | 151.5 | 147.3 | 143.3 | 139.2 | 134.2 | 128.3 | 122.4 | 116.5 | 110.7 | 107.0 |
| 70° | 138.7 | 134.6 | 130.4 | 126.3 | 122.1 | 117.2 | 111.5 | 105.8 | 100.2 | 94.5 | 91.3 |
| 72.5° | 120.9 | 117.2 | 113.4 | 109.6 | 105.8 | 101.3 | 96.0 | 90.6 | 85.3 | 79.9 | 77.2 |
| 75° | 96.8 | 93.1 | 89.4 | 85.8 | 82.1 | 77.9 | 73.3 | 68.6 | 64.0 | 59.4 | 57.0 |
| 77.5° | 72.4 | 69.3 | 66.2 | 63.1 | 59.9 | 56.5 | 52.7 | 48.9 | 45.1 | 41.4 | 40.1 |
| 80° | 56.6 | 53.8 | 50.9 | 48.1 | 45.1 | 42.2 | 39.3 | 36.3 | 33.3 | 30.3 | 30.1 |
| 82.5° | 43.1 | 40.4 | 37.8 | 35.2 | 32.5 | 30.3 | 28.7 | 27.0 | 25.3 | 23.6 | 23.4 |
| 85° | 24.1 | 22.1 | 20.2 | 18.1 | 16.1 | 15.0 | 14.7 | 14.4 | 14.1 | 13.9 | 13.7 |
| 87.5° | 8.4 | 8.2 | 8.3 | 7.8 | 7.4 | 7.1 | 8.3 | 8.2 | 8.6 | 9.0 | 8.7 |
| 90° | 1.1 | 3.3 | 6.6 | 7.6 | 8.8 | 8.8 | 15.4 | 15.4 | 17.5 | 19.7 | 18.7 |
| 92.5° | 12.4 | 18.2 | 28.5 | 41.8 | 57.9 | 80.6 | 136.3 | 221.2 | 304.1 | 347.4 | 289.4 |
| 95° | 36.1 | 39.4 | 50.4 | 64.7 | 90.9 | 137.0 | 232.1 | 411.8 | 673.5 | 892.6 | 917.8 |
| 97.5° | 64.8 | 64.8 | 74.3 | 87.4 | 110.0 | 148.5 | 221.9 | 370.2 | 630.4 | 940.2 | 1153.1 |
| 100° | 83.2 | 83.2 | 90.9 | 104.1 | 124.9 | 159.9 | 224.5 | 348.3 | 571.7 | 880.5 | 1160.9 |
| 102.5° | 100.8 | 102.5 | 109.3 | 121.6 | 141.5 | 174.8 | 233.3 | 342.1 | 532.3 | 806.1 | 1095.2 |
| 105° | 128.2 | 131.4 | 137.0 | 150.1 | 169.8 | 201.5 | 254.1 | 345.0 | 498.3 | 718.5 | 975.8 |
| 107.5° | 158.3 | 160.5 | 166.1 | 180.0 | 198.9 | 230.3 | 278.4 | 361.2 | 492.2 | 669.4 | 879.5 |
| 110° | 178.5 | 180.7 | 186.2 | 199.3 | 219.0 | 248.6 | 296.8 | 373.4 | 494.0 | 652.8 | 831.3 |



TEST NUMBER: P332894-830

CATALOG NUMBER: S124RDIP-S350D1205U830-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 197.8 | 200.0 | 206.3 | 218.6 | 238.4 | 267.9 | 314.3 | 386.6 | 499.2 | 644.9 | 804.1 |
| 115° | 225.6 | 228.9 | 236.6 | 247.5 | 268.3 | 297.9 | 341.7 | 407.5 | 509.3 | 640.7 | 778.7 |
| 117.5° | 254.5 | 257.6 | 264.4 | 276.4 | 296.0 | 326.6 | 368.3 | 428.7 | 520.0 | 639.6 | 767.3 |
| 120° | 273.8 | 276.0 | 283.7 | 295.7 | 314.3 | 345.0 | 386.6 | 443.6 | 527.9 | 639.6 | 761.2 |
| 122.5° | 291.3 | 293.5 | 301.2 | 312.4 | 332.7 | 362.5 | 404.2 | 457.6 | 535.8 | 638.8 | 754.2 |
| 125° | 314.3 | 318.7 | 325.3 | 337.3 | 358.2 | 388.8 | 428.2 | 478.6 | 547.6 | 637.4 | 742.5 |
| 127.5° | 334.7 | 338.2 | 346.1 | 359.9 | 381.5 | 412.5 | 450.5 | 496.8 | 557.0 | 635.0 | 727.0 |
| 130° | 346.1 | 350.4 | 359.2 | 375.7 | 396.4 | 428.2 | 465.5 | 508.2 | 564.0 | 634.1 | 717.4 |
| 132.5° | 357.5 | 361.0 | 372.4 | 388.0 | 410.5 | 440.5 | 477.8 | 519.6 | 570.1 | 633.3 | 708.6 |
| 135° | 373.4 | 377.9 | 388.8 | 407.5 | 430.5 | 458.9 | 495.0 | 534.5 | 579.4 | 632.0 | 695.5 |
| 137.5° | 389.5 | 393.6 | 405.7 | 423.4 | 447.3 | 474.5 | 508.2 | 545.0 | 584.8 | 631.7 | 684.1 |
| 140° | 400.9 | 404.2 | 416.2 | 434.8 | 457.8 | 484.1 | 517.0 | 552.0 | 589.3 | 630.8 | 678.0 |
| 142.5° | 413.1 | 416.4 | 427.5 | 445.4 | 467.4 | 492.9 | 524.8 | 557.2 | 592.8 | 630.8 | 672.7 |
| 145° | 430.5 | 433.8 | 444.7 | 460.0 | 480.8 | 504.9 | 533.4 | 563.0 | 594.7 | 628.7 | 663.7 |
| 147.5° | 449.9 | 451.0 | 460.6 | 476.5 | 493.7 | 515.4 | 542.2 | 568.0 | 595.8 | 624.7 | 655.6 |
| 150° | 462.2 | 463.3 | 472.0 | 485.2 | 501.6 | 522.5 | 546.5 | 570.6 | 595.8 | 622.1 | 649.5 |
| 152.5° | 473.5 | 473.8 | 482.6 | 494.8 | 509.5 | 528.6 | 550.1 | 572.4 | 594.1 | 617.7 | 642.4 |
| 155° | 489.6 | 490.7 | 497.2 | 508.2 | 520.3 | 536.7 | 555.3 | 573.9 | 591.4 | 611.1 | 632.0 |
| 157.5° | 505.1 | 505.1 | 511.2 | 519.8 | 530.3 | 543.3 | 559.0 | 573.9 | 588.6 | 604.4 | 621.2 |
| 160° | 514.7 | 514.7 | 519.2 | 526.8 | 535.6 | 547.6 | 560.7 | 573.9 | 586.0 | 599.1 | 613.3 |
| 162.5° | 523.5 | 522.6 | 526.1 | 532.9 | 540.8 | 550.3 | 562.5 | 573.9 | 583.3 | 593.8 | 606.3 |
| 165° | 533.4 | 533.4 | 535.6 | 541.0 | 546.5 | 553.1 | 563.0 | 571.7 | 578.2 | 586.0 | 594.7 |
| 167.5° | 543.3 | 542.2 | 543.3 | 547.4 | 550.4 | 555.5 | 562.7 | 569.1 | 573.1 | 578.1 | 584.2 |
| 170° | 547.6 | 546.5 | 547.6 | 550.9 | 553.1 | 556.4 | 561.8 | 567.3 | 569.5 | 572.8 | 577.2 |
| 172.5° | 552.0 | 550.9 | 551.1 | 553.6 | 554.9 | 557.2 | 561.0 | 565.6 | 566.0 | 567.5 | 571.1 |
| 175° | 556.4 | 555.3 | 555.3 | 556.4 | 557.5 | 557.5 | 559.7 | 563.0 | 561.8 | 561.8 | 564.0 |
| 177.5° | 558.4 | 557.5 | 556.6 | 557.5 | 557.5 | 557.5 | 558.4 | 560.1 | 558.4 | 558.4 | 559.2 |
| 180° | 557.5 | 557.5 | 557.5 | 557.5 | 557.5 | 557.5 | 557.5 | 557.5 | 557.5 | 557.5 | 557.5 |



TEST NUMBER: P332894-830

CATALOG NUMBER: S124RDIP-S350D1205U830-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 582.7 | 582.7 | 582.7 | 582.7 | 582.7 | 582.7 | 582.7 | 582.7 |
| 2.5° | 580.5 | 581.4 | 582.2 | 582.6 | 582.5 | 582.5 | 582.4 | 582.3 |
| 5° | 576.6 | 577.6 | 578.6 | 579.0 | 578.8 | 578.6 | 578.3 | 578.2 |
| 7.5° | 568.9 | 569.6 | 570.2 | 570.3 | 570.0 | 569.8 | 569.4 | 569.1 |
| 10° | 562.0 | 562.4 | 562.8 | 562.8 | 562.4 | 562.0 | 561.7 | 561.3 |
| 12.5° | 553.5 | 553.7 | 554.0 | 553.8 | 553.3 | 552.7 | 552.1 | 551.6 |
| 15° | 538.6 | 538.4 | 538.1 | 537.7 | 537.0 | 536.3 | 535.6 | 534.9 |
| 17.5° | 520.5 | 520.0 | 519.4 | 518.6 | 517.6 | 516.5 | 515.5 | 514.4 |
| 20° | 507.9 | 507.1 | 506.3 | 505.3 | 504.0 | 502.7 | 501.4 | 500.1 |
| 22.5° | 493.9 | 492.7 | 491.5 | 490.4 | 489.4 | 488.3 | 487.3 | 486.2 |
| 25° | 471.3 | 469.7 | 468.0 | 466.7 | 465.6 | 464.6 | 463.6 | 462.6 |
| 27.5° | 448.3 | 446.2 | 444.1 | 442.4 | 440.9 | 439.5 | 438.1 | 436.7 |
| 30° | 431.8 | 429.3 | 426.9 | 424.8 | 423.2 | 421.7 | 420.1 | 418.5 |
| 32.5° | 415.0 | 412.1 | 409.3 | 407.0 | 405.5 | 404.0 | 402.5 | 401.0 |
| 35° | 389.8 | 386.5 | 383.1 | 380.6 | 378.8 | 377.0 | 375.2 | 373.4 |
| 37.5° | 363.0 | 359.2 | 355.4 | 352.6 | 350.8 | 349.0 | 347.2 | 345.4 |
| 40° | 345.0 | 340.8 | 336.7 | 333.8 | 332.0 | 330.2 | 328.4 | 326.6 |
| 42.5° | 327.3 | 323.1 | 318.9 | 315.8 | 314.0 | 312.1 | 310.2 | 308.4 |
| 45° | 300.4 | 295.5 | 290.6 | 287.3 | 285.5 | 283.7 | 281.9 | 280.2 |
| 47.5° | 273.1 | 268.1 | 263.1 | 259.6 | 257.6 | 255.6 | 253.6 | 251.8 |
| 50° | 255.1 | 250.2 | 245.2 | 241.8 | 239.9 | 238.0 | 236.1 | 234.2 |
| 52.5° | 237.0 | 232.1 | 227.1 | 223.5 | 221.6 | 219.6 | 217.6 | 215.7 |
| 55° | 210.6 | 205.4 | 200.2 | 196.7 | 194.8 | 192.9 | 191.1 | 189.2 |
| 57.5° | 184.5 | 179.4 | 174.1 | 170.8 | 169.4 | 168.0 | 166.5 | 165.0 |
| 60° | 167.2 | 162.1 | 156.9 | 153.5 | 151.9 | 150.4 | 148.8 | 147.2 |
| 62.5° | 150.2 | 145.4 | 140.7 | 137.7 | 136.4 | 135.2 | 133.8 | 132.6 |
| 65° | 125.7 | 121.5 | 117.3 | 114.5 | 113.3 | 112.2 | 110.9 | 109.7 |
| 67.5° | 103.3 | 99.6 | 96.0 | 93.5 | 92.2 | 90.9 | 89.5 | 88.2 |
| 70° | 88.0 | 84.7 | 81.5 | 79.4 | 78.3 | 77.4 | 76.3 | 75.4 |
| 72.5° | 74.4 | 71.5 | 68.8 | 66.9 | 66.0 | 65.1 | 64.2 | 63.2 |
| 75° | 54.8 | 52.5 | 50.2 | 48.8 | 48.2 | 47.6 | 47.0 | 46.4 |
| 77.5° | 38.7 | 37.4 | 36.1 | 35.3 | 35.2 | 35.0 | 34.8 | 34.6 |
| 80° | 29.8 | 29.4 | 29.1 | 28.9 | 28.8 | 28.7 | 28.7 | 28.6 |
| 82.5° | 23.1 | 22.9 | 22.7 | 22.5 | 22.4 | 22.3 | 22.2 | 22.1 |
| 85° | 13.5 | 13.2 | 13.0 | 12.9 | 12.9 | 12.9 | 12.9 | 12.9 |
| 87.5° | 8.8 | 9.0 | 9.0 | 9.0 | 9.3 | 9.6 | 9.5 | 9.6 |
| 90° | 19.7 | 20.8 | 21.9 | 21.9 | 23.0 | 24.1 | 23.0 | 23.0 |
| 92.5° | 215.1 | 161.8 | 128.8 | 106.9 | 94.0 | 88.0 | 84.4 | 84.4 |
| 95° | 811.5 | 641.8 | 495.0 | 388.8 | 335.2 | 301.2 | 281.4 | 267.2 |
| 97.5° | 1199.1 | 1136.0 | 1028.9 | 914.5 | 835.8 | 770.0 | 737.1 | 714.4 |
| 100° | 1320.9 | 1342.7 | 1289.1 | 1208.1 | 1112.8 | 1045.9 | 1013.1 | 1004.4 |
| 102.5° | 1314.8 | 1423.3 | 1438.9 | 1405.1 | 1346.7 | 1298.3 | 1263.7 | 1256.7 |
| 105° | 1226.6 | 1416.2 | 1524.6 | 1569.4 | 1571.7 | 1562.9 | 1547.6 | 1541.0 |
| 107.5° | 1101.5 | 1303.3 | 1456.0 | 1553.7 | 1607.8 | 1632.8 | 1643.7 | 1646.6 |
| 110° | 1026.2 | 1215.7 | 1374.5 | 1495.0 | 1572.7 | 1618.7 | 1638.5 | 1648.3 |



TEST NUMBER: P332894-830

CATALOG NUMBER: S124RDIP-S350D1205U830-4F0-1E-UDD-F4

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 971.0 | 1138.6 | 1288.6 | 1409.1 | 1497.4 | 1553.0 | 1580.6 | 1596.7 |
| 115° | 915.6 | 1050.4 | 1178.5 | 1283.6 | 1370.2 | 1435.9 | 1470.9 | 1479.7 |
| 117.5° | 888.4 | 999.9 | 1100.7 | 1189.9 | 1263.7 | 1318.9 | 1354.3 | 1361.1 |
| 120° | 876.2 | 978.1 | 1065.6 | 1143.4 | 1205.9 | 1254.1 | 1282.5 | 1294.6 |
| 122.5° | 865.6 | 964.0 | 1043.8 | 1111.9 | 1164.7 | 1205.9 | 1229.9 | 1242.0 |
| 125° | 847.7 | 941.9 | 1017.5 | 1077.7 | 1121.5 | 1153.3 | 1174.1 | 1180.6 |
| 127.5° | 825.8 | 915.9 | 991.2 | 1048.4 | 1092.4 | 1120.7 | 1138.2 | 1144.7 |
| 130° | 808.3 | 894.8 | 969.3 | 1027.4 | 1072.2 | 1099.6 | 1117.1 | 1123.7 |
| 132.5° | 789.9 | 871.2 | 943.9 | 1001.9 | 1045.9 | 1076.9 | 1093.4 | 1100.0 |
| 135° | 764.5 | 835.7 | 902.5 | 957.2 | 1001.1 | 1031.7 | 1049.2 | 1055.8 |
| 137.5° | 741.5 | 801.7 | 858.0 | 907.5 | 948.5 | 978.7 | 993.2 | 1001.1 |
| 140° | 728.3 | 779.8 | 829.1 | 875.1 | 913.4 | 937.5 | 952.8 | 961.6 |
| 142.5° | 716.0 | 761.4 | 803.7 | 843.6 | 877.5 | 899.8 | 913.4 | 919.5 |
| 145° | 698.8 | 736.0 | 768.8 | 799.6 | 826.9 | 845.6 | 856.5 | 862.0 |
| 147.5° | 684.6 | 714.1 | 740.4 | 764.5 | 784.7 | 800.6 | 809.0 | 810.9 |
| 150° | 675.8 | 701.0 | 722.8 | 742.5 | 760.1 | 774.3 | 780.9 | 782.0 |
| 152.5° | 666.1 | 687.8 | 707.9 | 724.2 | 739.0 | 750.6 | 754.6 | 755.7 |
| 155° | 651.7 | 669.2 | 685.6 | 698.8 | 709.7 | 718.5 | 721.8 | 721.8 |
| 157.5° | 636.1 | 650.8 | 664.6 | 675.1 | 683.4 | 690.0 | 692.0 | 692.0 |
| 160° | 626.5 | 638.5 | 650.5 | 659.3 | 665.9 | 672.5 | 673.5 | 673.5 |
| 162.5° | 616.8 | 627.2 | 636.6 | 644.4 | 649.2 | 655.8 | 657.0 | 656.0 |
| 165° | 603.5 | 610.0 | 617.7 | 623.2 | 627.5 | 632.0 | 630.8 | 629.8 |
| 167.5° | 590.6 | 595.6 | 601.7 | 605.0 | 607.2 | 610.0 | 609.8 | 609.0 |
| 170° | 582.7 | 586.0 | 590.3 | 593.6 | 595.8 | 596.9 | 595.8 | 595.8 |
| 172.5° | 575.6 | 578.1 | 580.7 | 583.1 | 584.4 | 585.5 | 584.4 | 582.7 |
| 175° | 566.3 | 567.3 | 569.5 | 569.5 | 569.5 | 571.7 | 569.5 | 567.3 |
| 177.5° | 560.1 | 561.0 | 561.0 | 561.8 | 561.0 | 561.8 | 560.1 | 558.4 |
| 180° | 557.5 | 557.5 | 557.5 | 557.5 | 557.5 | 557.5 | 557.5 | 557.5 |

(END OF REPORT)