

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: P332886

Luminaire Tested: **S124RDIP-S350D1035U835-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332886
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-S350D1035U835-4F0-1E-UDD-F
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 1035 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5560.7 lumens
Efficiency: N/A
Efficacy: 149.1 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

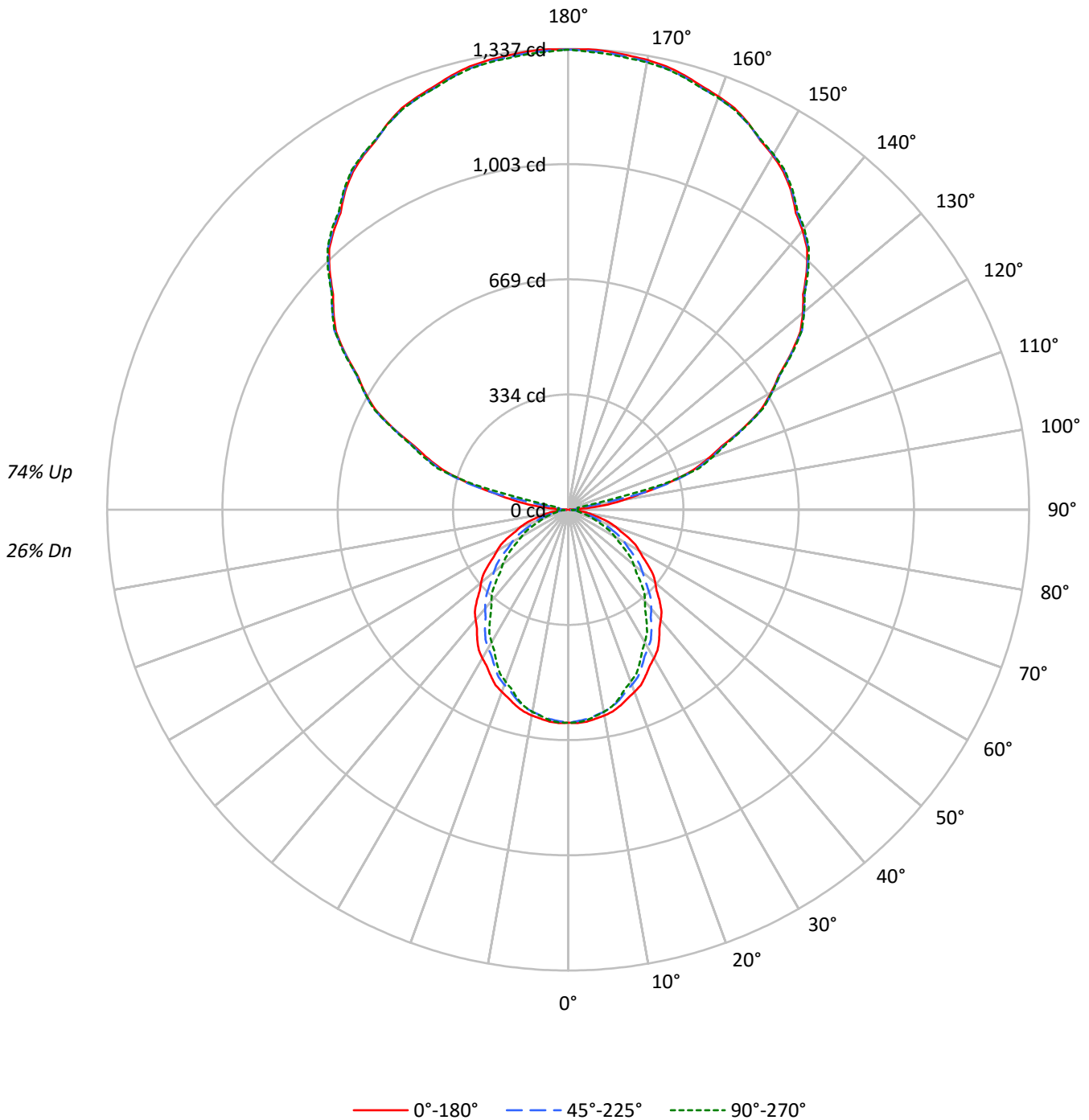
Input Watts (W): 37.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332886

CATALOG NUMBER: S124RDIP-S350D1035U835-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P332886

CATALOG NUMBER: S124RDIP-S350D1035U835-4F0-1E-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 | 101 | 101 | 101 | 101 | 90 | 90 | 90 | 90 | 70 | 70 | 70 | 51 | 51 | 51 | 34 | 34 | 34 | 26 |
| 1 | 92 | 88 | 85 | 81 | 82 | 79 | 76 | 73 | 61 | 59 | 57 | 45 | 44 | 43 | 30 | 29 | 29 | 22 |
| 2 | 84 | 77 | 71 | 67 | 75 | 69 | 64 | 60 | 54 | 50 | 48 | 40 | 38 | 36 | 27 | 25 | 24 | 19 |
| 3 | 77 | 68 | 61 | 55 | 68 | 61 | 55 | 50 | 47 | 43 | 40 | 35 | 33 | 30 | 24 | 22 | 21 | 16 |
| 4 | 70 | 60 | 53 | 47 | 62 | 54 | 48 | 43 | 42 | 38 | 34 | 31 | 28 | 26 | 21 | 19 | 18 | 14 |
| 5 | 64 | 53 | 46 | 40 | 57 | 48 | 41 | 36 | 38 | 33 | 29 | 28 | 25 | 23 | 19 | 17 | 16 | 12 |
| 6 | 59 | 48 | 40 | 35 | 53 | 43 | 36 | 32 | 34 | 29 | 26 | 25 | 22 | 20 | 17 | 15 | 14 | 11 |
| 7 | 55 | 43 | 35 | 30 | 49 | 39 | 32 | 28 | 31 | 26 | 22 | 23 | 20 | 17 | 16 | 14 | 12 | 9 |
| 8 | 51 | 39 | 32 | 26 | 45 | 35 | 29 | 24 | 28 | 23 | 20 | 21 | 18 | 15 | 15 | 13 | 11 | 8 |
| 9 | 47 | 35 | 28 | 23 | 42 | 32 | 26 | 21 | 25 | 21 | 18 | 19 | 16 | 14 | 13 | 11 | 10 | 8 |
| 10 | 44 | 32 | 25 | 21 | 39 | 29 | 23 | 19 | 23 | 19 | 16 | 18 | 15 | 12 | 12 | 10 | 9 | 7 |

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: P332886

CATALOG NUMBER: S124RDIP-S350D1035U835-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 58.1 | 1.0 |
| 10°-20° | 161.9 | 2.9 |
| 20°-30° | 233.8 | 4.2 |
| 30°-40° | 265.1 | 4.8 |
| 40°-50° | 255.9 | 4.6 |
| 50°-60° | 212.8 | 3.8 |
| 60°-70° | 147.0 | 2.6 |
| 70°-80° | 74.5 | 1.3 |
| 80°-90° | 23.0 | 0.4 |
| 90°-100° | 45.7 | 0.8 |
| 100°-110° | 291.1 | 5.2 |
| 110°-120° | 556.8 | 10.0 |
| 120°-130° | 706.8 | 12.7 |
| 130°-140° | 756.2 | 13.6 |
| 140°-150° | 707.2 | 12.7 |
| 150°-160° | 570.3 | 10.3 |
| 160°-170° | 367.8 | 6.6 |
| 170°-180° | 126.8 | 2.3 |
| 0°-30° | 453.8 | 8.2 |
| 0°-40° | 718.9 | 12.9 |
| 0°-60° | 1187.7 | 21.4 |
| 0°-90° | 1432.1 | 25.8 |
| 90°-120° | 893.5 | 16.1 |
| 90°-150° | 3063.7 | 55.1 |
| 90°-180° | 4129.0 | 74.3 |
| 0°-180° | 5560.7 | 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° | 3 | 14 | 22 | 28 | 30 | 4 |
| 95° | 55 | 23 | 22 | 28 | 29 | 71 |
| 105° | 300 | 306 | 312 | 318 | 284 | 314 |
| 115° | 561 | 564 | 563 | 565 | 565 | 552 |
| 125° | 789 | 792 | 791 | 794 | 795 | 704 |
| 135° | 978 | 978 | 981 | 983 | 985 | 753 |
| 145° | 1128 | 1131 | 1131 | 1132 | 1134 | 705 |
| 155° | 1237 | 1238 | 1235 | 1238 | 1236 | 570 |
| 165° | 1305 | 1300 | 1300 | 1307 | 1299 | 369 |
| 175° | 1335 | 1329 | 1330 | 1338 | 1327 | 127 |
| 180° | 1335 | 1335 | 1335 | 1335 | 1335 | |



TEST NUMBER: P332886

CATALOG NUMBER: S124RDIP-S350D1035U835-4F0-1E-UDD-F

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° | 9.3 | 9.1 | 8.9 | 8.8 | 8.6 | 8.6 | 8.9 | 9.2 | 9.4 | 9.7 | 9.9 |
| 90° | 3.0 | 5.4 | 7.9 | 10.3 | 12.8 | 14.9 | 16.6 | 18.4 | 20.2 | 22.0 | 23.3 |
| 92.5° | 12.6 | 12.7 | 12.8 | 13.0 | 13.1 | 14.1 | 15.8 | 17.6 | 19.4 | 21.2 | 22.5 |
| 95° | 54.9 | 47.4 | 39.8 | 32.3 | 24.7 | 21.1 | 21.3 | 21.5 | 21.7 | 22.0 | 23.3 |
| 97.5° | 116.6 | 121.3 | 126.0 | 130.7 | 135.4 | 125.4 | 100.6 | 75.9 | 51.1 | 26.4 | 26.5 |
| 100° | 163.7 | 167.7 | 171.7 | 175.7 | 179.7 | 166.4 | 135.8 | 105.2 | 74.5 | 43.9 | 40.2 |
| 102.5° | 216.4 | 219.4 | 222.3 | 225.2 | 228.1 | 227.6 | 223.6 | 219.6 | 215.6 | 211.6 | 170.9 |
| 105° | 300.5 | 301.8 | 303.1 | 304.5 | 305.8 | 307.0 | 308.1 | 309.2 | 310.4 | 311.5 | 313.5 |
| 107.5° | 378.5 | 379.2 | 379.9 | 380.5 | 381.2 | 382.3 | 383.8 | 385.3 | 386.8 | 388.3 | 389.3 |
| 110° | 431.3 | 431.9 | 432.6 | 433.2 | 433.9 | 434.9 | 436.2 | 437.6 | 438.9 | 440.2 | 440.7 |



TEST NUMBER: P332886

CATALOG NUMBER: S124RDIP-S350D1035U835-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 482.4 | 483.6 | 484.8 | 486.0 | 487.2 | 488.1 | 488.7 | 489.3 | 489.9 | 490.5 | 490.5 |
| 115° | 561.0 | 561.7 | 562.4 | 563.0 | 563.7 | 563.9 | 563.7 | 563.5 | 563.2 | 563.0 | 563.5 |
| 117.5° | 631.9 | 632.8 | 633.7 | 634.6 | 635.5 | 636.1 | 636.6 | 637.1 | 637.6 | 638.1 | 638.0 |
| 120° | 679.8 | 680.7 | 681.6 | 682.5 | 683.4 | 683.7 | 683.5 | 683.3 | 683.0 | 682.8 | 683.3 |
| 122.5° | 724.5 | 725.1 | 725.6 | 726.1 | 726.7 | 727.1 | 727.4 | 727.7 | 728.0 | 728.3 | 728.6 |
| 125° | 788.6 | 789.5 | 790.4 | 791.3 | 792.2 | 792.4 | 792.0 | 791.5 | 791.1 | 790.6 | 791.3 |
| 127.5° | 849.3 | 849.5 | 849.8 | 850.0 | 850.2 | 850.8 | 851.9 | 852.9 | 853.9 | 854.9 | 854.8 |
| 130° | 888.5 | 888.7 | 888.9 | 889.1 | 889.3 | 889.8 | 890.5 | 891.1 | 891.8 | 892.5 | 892.7 |
| 132.5° | 924.4 | 924.8 | 925.2 | 925.6 | 926.0 | 926.6 | 927.5 | 928.3 | 929.1 | 930.0 | 930.2 |
| 135° | 978.3 | 978.1 | 977.9 | 977.6 | 977.4 | 977.7 | 978.6 | 979.5 | 980.4 | 981.3 | 981.7 |
| 137.5° | 1026.0 | 1026.1 | 1026.2 | 1026.3 | 1026.4 | 1026.9 | 1027.9 | 1028.9 | 1029.8 | 1030.8 | 1031.3 |
| 140° | 1057.2 | 1057.6 | 1058.1 | 1058.5 | 1058.9 | 1059.4 | 1059.8 | 1060.3 | 1060.7 | 1061.2 | 1061.8 |
| 142.5° | 1085.1 | 1085.9 | 1086.7 | 1087.5 | 1088.3 | 1088.8 | 1089.1 | 1089.4 | 1089.6 | 1089.9 | 1090.4 |
| 145° | 1128.0 | 1128.7 | 1129.4 | 1130.0 | 1130.7 | 1131.0 | 1131.0 | 1131.0 | 1131.0 | 1131.0 | 1131.3 |
| 147.5° | 1162.2 | 1163.4 | 1164.7 | 1165.9 | 1167.2 | 1167.7 | 1167.4 | 1167.2 | 1167.0 | 1166.8 | 1167.0 |
| 150° | 1186.9 | 1187.8 | 1188.7 | 1189.6 | 1190.5 | 1190.8 | 1190.6 | 1190.4 | 1190.2 | 1189.9 | 1189.9 |
| 152.5° | 1207.7 | 1208.4 | 1209.1 | 1209.8 | 1210.5 | 1210.7 | 1210.3 | 1209.9 | 1209.5 | 1209.1 | 1209.5 |
| 155° | 1236.9 | 1237.1 | 1237.3 | 1237.5 | 1237.7 | 1237.5 | 1236.9 | 1236.2 | 1235.5 | 1234.9 | 1235.7 |
| 157.5° | 1261.4 | 1261.3 | 1261.1 | 1261.0 | 1260.9 | 1260.4 | 1259.7 | 1258.9 | 1258.2 | 1257.4 | 1258.6 |
| 160° | 1275.8 | 1275.1 | 1274.5 | 1273.8 | 1273.1 | 1272.7 | 1272.5 | 1272.2 | 1272.0 | 1271.8 | 1273.1 |
| 162.5° | 1288.6 | 1287.7 | 1286.9 | 1286.0 | 1285.2 | 1284.7 | 1284.4 | 1284.2 | 1284.0 | 1283.8 | 1285.1 |
| 165° | 1304.7 | 1303.6 | 1302.5 | 1301.4 | 1300.3 | 1299.7 | 1299.7 | 1299.7 | 1299.7 | 1299.7 | 1301.5 |
| 167.5° | 1317.5 | 1316.4 | 1315.2 | 1314.1 | 1312.9 | 1312.3 | 1312.1 | 1312.0 | 1311.9 | 1311.7 | 1313.7 |
| 170° | 1324.7 | 1323.4 | 1322.0 | 1320.7 | 1319.4 | 1318.8 | 1319.0 | 1319.3 | 1319.5 | 1319.7 | 1321.5 |
| 172.5° | 1329.5 | 1328.2 | 1326.8 | 1325.5 | 1324.2 | 1323.6 | 1323.8 | 1324.1 | 1324.3 | 1324.5 | 1326.3 |
| 175° | 1334.7 | 1333.4 | 1332.0 | 1330.7 | 1329.4 | 1328.8 | 1329.0 | 1329.3 | 1329.5 | 1329.7 | 1331.7 |
| 177.5° | 1337.1 | 1335.8 | 1334.6 | 1333.4 | 1332.1 | 1331.7 | 1332.0 | 1332.4 | 1332.7 | 1333.1 | 1334.5 |
| 180° | 1334.7 | 1334.7 | 1334.7 | 1334.7 | 1334.7 | 1334.7 | 1334.7 | 1334.7 | 1334.7 | 1334.7 | 1334.7 |



TEST NUMBER: P332886

CATALOG NUMBER: S124RDIP-S350D1035U835-4F0-1E-UDD-F

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° | 10.1 | 10.2 | 10.4 | 10.6 | 10.8 | 10.9 | 11.1 | 11.3 |
| 90° | 24.6 | 26.0 | 27.3 | 28.2 | 28.6 | 29.1 | 29.5 | 29.9 |
| 92.5° | 23.8 | 25.2 | 26.5 | 27.2 | 27.3 | 27.4 | 27.5 | 27.6 |
| 95° | 24.6 | 26.0 | 27.3 | 28.1 | 28.3 | 28.5 | 28.7 | 28.9 |
| 97.5° | 26.6 | 26.8 | 26.9 | 27.1 | 27.3 | 27.5 | 27.7 | 28.0 |
| 100° | 36.4 | 32.6 | 28.8 | 27.1 | 27.3 | 27.5 | 27.7 | 28.0 |
| 102.5° | 130.3 | 89.6 | 48.9 | 28.6 | 28.6 | 28.7 | 28.7 | 28.8 |
| 105° | 315.5 | 317.4 | 319.4 | 316.5 | 308.5 | 300.5 | 292.5 | 284.5 |
| 107.5° | 390.3 | 391.3 | 392.2 | 393.1 | 394.0 | 394.8 | 395.7 | 396.5 |
| 110° | 441.1 | 441.6 | 442.0 | 442.6 | 443.2 | 443.9 | 444.6 | 445.2 |



TEST NUMBER: P332886

CATALOG NUMBER: S124RDIP-S350D1035U835-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 490.4 | 490.3 | 490.2 | 490.6 | 491.4 | 492.3 | 493.1 | 493.9 |
| 115° | 563.9 | 564.4 | 564.8 | 565.0 | 565.0 | 565.0 | 565.0 | 565.0 |
| 117.5° | 637.9 | 637.8 | 637.7 | 637.7 | 637.6 | 637.5 | 637.4 | 637.3 |
| 120° | 683.7 | 684.1 | 684.6 | 684.6 | 684.1 | 683.7 | 683.3 | 682.8 |
| 122.5° | 728.9 | 729.1 | 729.4 | 729.3 | 728.9 | 728.4 | 728.0 | 727.5 |
| 125° | 792.0 | 792.6 | 793.3 | 793.7 | 794.0 | 794.2 | 794.4 | 794.6 |
| 127.5° | 854.7 | 854.5 | 854.4 | 854.2 | 854.1 | 853.9 | 853.7 | 853.5 |
| 130° | 892.9 | 893.1 | 893.3 | 893.5 | 893.5 | 893.5 | 893.5 | 893.5 |
| 132.5° | 930.4 | 930.7 | 930.9 | 930.9 | 930.7 | 930.5 | 930.4 | 930.2 |
| 135° | 982.2 | 982.6 | 983.1 | 983.5 | 984.0 | 984.4 | 984.8 | 985.3 |
| 137.5° | 1031.8 | 1032.3 | 1032.8 | 1032.9 | 1032.8 | 1032.7 | 1032.5 | 1032.4 |
| 140° | 1062.5 | 1063.2 | 1063.8 | 1064.3 | 1064.5 | 1064.7 | 1064.9 | 1065.2 |
| 142.5° | 1090.9 | 1091.4 | 1091.9 | 1092.1 | 1092.2 | 1092.2 | 1092.3 | 1092.3 |
| 145° | 1131.5 | 1131.7 | 1131.9 | 1132.3 | 1132.7 | 1133.1 | 1133.6 | 1134.0 |
| 147.5° | 1167.1 | 1167.3 | 1167.5 | 1167.7 | 1167.9 | 1168.1 | 1168.4 | 1168.6 |
| 150° | 1189.9 | 1189.9 | 1189.9 | 1190.0 | 1190.3 | 1190.5 | 1190.7 | 1190.9 |
| 152.5° | 1209.8 | 1210.2 | 1210.5 | 1210.6 | 1210.5 | 1210.4 | 1210.2 | 1210.1 |
| 155° | 1236.6 | 1237.5 | 1238.4 | 1238.5 | 1237.9 | 1237.2 | 1236.5 | 1235.9 |
| 157.5° | 1259.7 | 1260.9 | 1262.0 | 1262.0 | 1260.9 | 1259.7 | 1258.6 | 1257.4 |
| 160° | 1274.5 | 1275.8 | 1277.1 | 1277.1 | 1275.8 | 1274.5 | 1273.1 | 1271.8 |
| 162.5° | 1286.4 | 1287.8 | 1289.1 | 1289.0 | 1287.5 | 1286.0 | 1284.5 | 1283.0 |
| 165° | 1303.3 | 1305.1 | 1306.8 | 1306.7 | 1304.7 | 1302.7 | 1300.7 | 1298.7 |
| 167.5° | 1315.6 | 1317.6 | 1319.5 | 1319.4 | 1317.2 | 1315.0 | 1312.7 | 1310.5 |
| 170° | 1323.3 | 1325.0 | 1326.8 | 1326.6 | 1324.4 | 1322.2 | 1319.9 | 1317.7 |
| 172.5° | 1328.1 | 1329.8 | 1331.6 | 1331.3 | 1328.9 | 1326.5 | 1324.1 | 1321.7 |
| 175° | 1333.7 | 1335.7 | 1337.7 | 1337.3 | 1334.7 | 1332.0 | 1329.4 | 1326.7 |
| 177.5° | 1335.9 | 1337.3 | 1338.8 | 1338.4 | 1336.3 | 1334.2 | 1332.0 | 1329.9 |
| 180° | 1334.7 | 1334.7 | 1334.7 | 1334.7 | 1334.7 | 1334.7 | 1334.7 | 1334.7 |

(END OF REPORT)