

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: P333030

Luminaire Tested: **S124RDIW-S350D1340U835-4F0-1E-UDD-F1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333030
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: S124RDIW-S350D1340U835-4F0-1E-UDD-F1
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 1340 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6085.6 lumens
Efficiency: N/A
Efficacy: 130.6 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

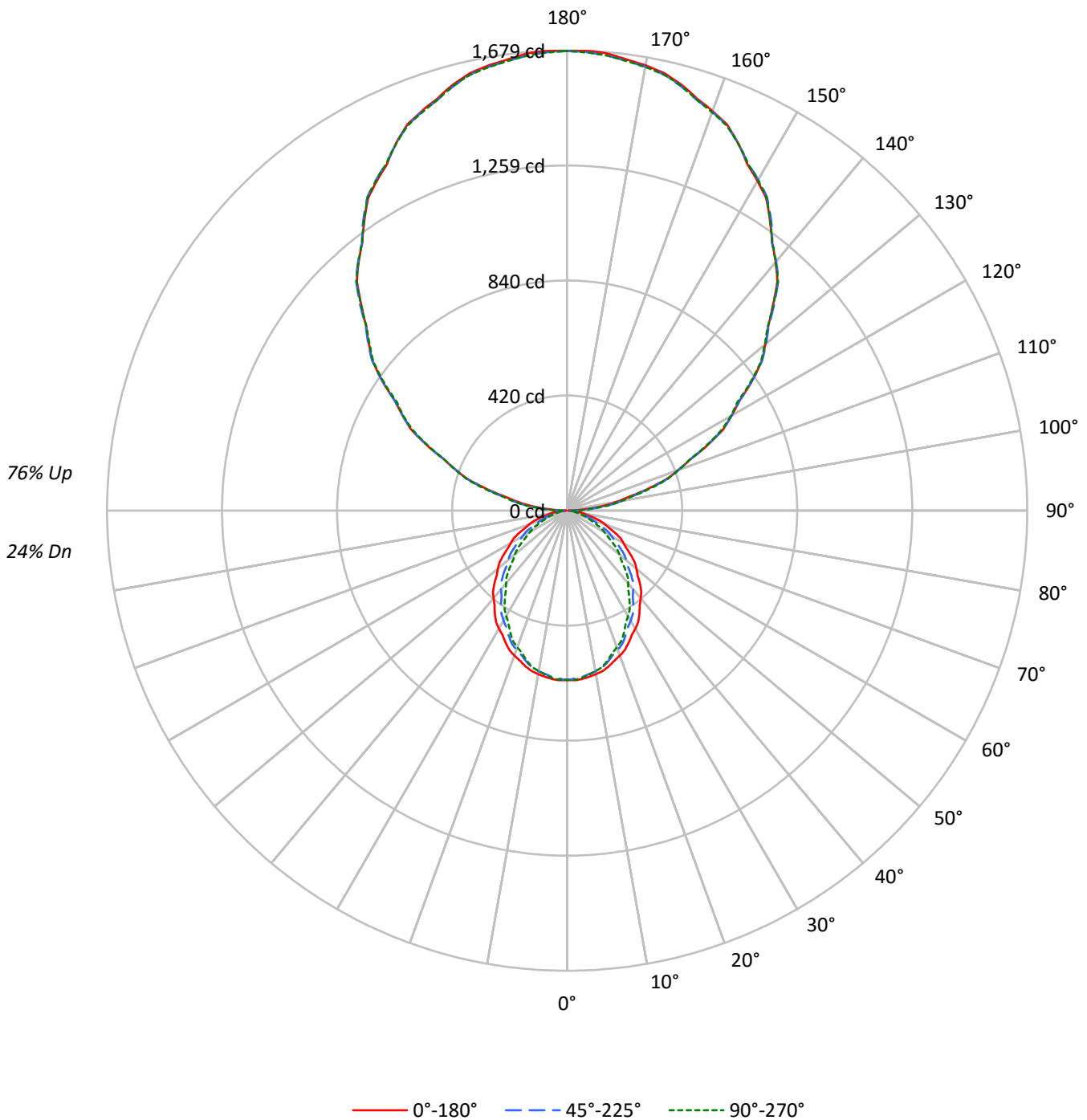
Input Watts (W): 46.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P333030

CATALOG NUMBER: S124RDIW-S350D1340U835-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P333030

CATALOG NUMBER: S124RDIW-S350D1340U835-4F0-1E-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 | 101 | 101 | 101 | 101 | 90 | 90 | 90 | 90 | 69 | 69 | 69 | 49 | 49 | 49 | 32 | 32 | 32 | 24 |
| 1 | 92 | 88 | 84 | 81 | 82 | 78 | 75 | 72 | 60 | 58 | 56 | 44 | 42 | 41 | 28 | 28 | 27 | 20 |
| 2 | 84 | 77 | 71 | 66 | 74 | 68 | 64 | 60 | 53 | 50 | 47 | 38 | 36 | 35 | 25 | 24 | 23 | 17 |
| 3 | 76 | 68 | 61 | 55 | 68 | 60 | 54 | 50 | 47 | 43 | 39 | 34 | 31 | 29 | 22 | 21 | 20 | 15 |
| 4 | 70 | 60 | 52 | 47 | 62 | 53 | 47 | 42 | 41 | 37 | 33 | 30 | 27 | 25 | 20 | 18 | 17 | 13 |
| 5 | 64 | 53 | 45 | 40 | 57 | 47 | 41 | 36 | 37 | 32 | 29 | 27 | 24 | 22 | 18 | 16 | 15 | 11 |
| 6 | 59 | 47 | 40 | 34 | 52 | 43 | 36 | 31 | 33 | 28 | 25 | 24 | 21 | 19 | 16 | 14 | 13 | 10 |
| 7 | 54 | 43 | 35 | 30 | 48 | 38 | 32 | 27 | 30 | 25 | 22 | 22 | 19 | 17 | 15 | 13 | 12 | 9 |
| 8 | 50 | 39 | 31 | 26 | 45 | 35 | 28 | 24 | 27 | 23 | 19 | 20 | 17 | 15 | 14 | 12 | 10 | 8 |
| 9 | 47 | 35 | 28 | 23 | 41 | 32 | 25 | 21 | 25 | 20 | 17 | 19 | 15 | 13 | 13 | 11 | 9 | 7 |
| 10 | 44 | 32 | 25 | 21 | 39 | 29 | 23 | 19 | 23 | 18 | 15 | 17 | 14 | 12 | 12 | 10 | 8 | 6 |

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: P333030

CATALOG NUMBER: S124RDIW-S350D1340U835-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 58.1 | 1.0 |
| 10°-20° | 161.9 | 2.7 |
| 20°-30° | 233.8 | 3.8 |
| 30°-40° | 265.1 | 4.4 |
| 40°-50° | 255.9 | 4.2 |
| 50°-60° | 212.8 | 3.5 |
| 60°-70° | 147.0 | 2.4 |
| 70°-80° | 74.5 | 1.2 |
| 80°-90° | 24.1 | 0.4 |
| 90°-100° | 110.6 | 1.8 |
| 100°-110° | 327.6 | 5.4 |
| 110°-120° | 556.1 | 9.1 |
| 120°-130° | 733.3 | 12.0 |
| 130°-140° | 823.5 | 13.5 |
| 140°-150° | 809.2 | 13.3 |
| 150°-160° | 680.6 | 11.2 |
| 160°-170° | 452.8 | 7.4 |
| 170°-180° | 158.6 | 2.6 |
| 0°-30° | 453.8 | 7.5 |
| 0°-40° | 718.9 | 11.8 |
| 0°-60° | 1187.7 | 19.5 |
| 0°-90° | 1433.2 | 23.6 |
| 90°-120° | 994.3 | 16.3 |
| 90°-150° | 3360.3 | 55.2 |
| 90°-180° | 4652.0 | 76.4 |
| 0°-180° | 6085.6 | 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° | 4 | 18 | 28 | 36 | 39 | 6 |
| 95° | 78 | 89 | 99 | 102 | 102 | 87 |
| 105° | 302 | 304 | 309 | 313 | 316 | 321 |
| 115° | 565 | 565 | 563 | 562 | 560 | 557 |
| 125° | 824 | 823 | 822 | 820 | 817 | 734 |
| 135° | 1062 | 1070 | 1070 | 1067 | 1063 | 821 |
| 145° | 1290 | 1295 | 1297 | 1295 | 1292 | 807 |
| 155° | 1478 | 1478 | 1477 | 1482 | 1477 | 680 |
| 165° | 1609 | 1606 | 1603 | 1610 | 1606 | 453 |
| 175° | 1674 | 1668 | 1666 | 1675 | 1666 | 159 |
| 180° | 1677 | 1677 | 1677 | 1677 | 1677 | |



TEST NUMBER: P333030

CATALOG NUMBER: S124RDIW-S350D1340U835-4F0-1E-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° | 9.5 | 9.4 | 9.4 | 9.4 | 9.3 | 9.5 | 9.9 | 10.3 | 10.6 | 11.0 | 11.3 |
| 90° | 3.9 | 7.1 | 10.2 | 13.4 | 16.6 | 19.3 | 21.6 | 23.9 | 26.2 | 28.5 | 30.3 |
| 92.5° | 27.8 | 31.4 | 35.0 | 38.6 | 42.3 | 44.9 | 46.5 | 48.1 | 49.7 | 51.4 | 52.4 |
| 95° | 77.8 | 80.4 | 83.0 | 85.6 | 88.2 | 90.5 | 92.5 | 94.5 | 96.5 | 98.6 | 99.4 |
| 97.5° | 135.9 | 138.0 | 140.1 | 142.1 | 144.2 | 146.4 | 148.8 | 151.2 | 153.5 | 155.9 | 156.9 |
| 100° | 181.6 | 182.7 | 183.9 | 185.0 | 186.2 | 188.0 | 190.6 | 193.2 | 195.8 | 198.4 | 199.0 |
| 102.5° | 229.3 | 229.8 | 230.2 | 230.7 | 231.1 | 232.5 | 234.9 | 237.3 | 239.6 | 242.0 | 242.8 |
| 105° | 302.2 | 302.5 | 302.8 | 303.0 | 303.3 | 304.0 | 305.2 | 306.4 | 307.5 | 308.7 | 309.5 |
| 107.5° | 378.7 | 379.0 | 379.4 | 379.7 | 380.1 | 380.3 | 380.5 | 380.7 | 380.9 | 381.0 | 381.8 |
| 110° | 430.6 | 431.1 | 431.7 | 432.3 | 432.9 | 433.0 | 432.7 | 432.4 | 432.2 | 431.9 | 431.3 |



TEST NUMBER: P333030

CATALOG NUMBER: S124RDIW-S350D1340U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 484.5 | 484.6 | 484.7 | 484.9 | 485.0 | 484.8 | 484.3 | 483.7 | 483.2 | 482.7 | 482.6 |
| 115° | 565.4 | 565.4 | 565.4 | 565.4 | 565.4 | 565.2 | 564.6 | 564.0 | 563.4 | 562.8 | 562.6 |
| 117.5° | 641.7 | 641.9 | 642.2 | 642.4 | 642.6 | 642.5 | 642.1 | 641.7 | 641.3 | 640.9 | 639.9 |
| 120° | 692.5 | 693.7 | 694.8 | 696.0 | 697.1 | 697.3 | 696.4 | 695.6 | 694.7 | 693.8 | 692.4 |
| 122.5° | 745.4 | 745.9 | 746.4 | 746.8 | 747.3 | 747.3 | 746.9 | 746.5 | 746.1 | 745.7 | 744.7 |
| 125° | 823.5 | 823.5 | 823.5 | 823.5 | 823.5 | 823.4 | 823.1 | 822.8 | 822.5 | 822.2 | 821.6 |
| 127.5° | 894.3 | 895.2 | 896.1 | 896.9 | 897.8 | 898.0 | 897.5 | 897.1 | 896.6 | 896.1 | 895.6 |
| 130° | 944.1 | 945.0 | 945.9 | 946.7 | 947.6 | 948.0 | 948.0 | 948.0 | 948.0 | 948.0 | 947.4 |
| 132.5° | 995.0 | 995.6 | 996.2 | 996.9 | 997.5 | 997.7 | 997.5 | 997.2 | 997.0 | 996.8 | 996.2 |
| 135° | 1062.1 | 1063.9 | 1065.6 | 1067.3 | 1069.1 | 1069.9 | 1069.9 | 1069.9 | 1069.9 | 1069.9 | 1069.4 |
| 137.5° | 1135.3 | 1136.1 | 1136.9 | 1137.7 | 1138.5 | 1139.2 | 1139.6 | 1140.1 | 1140.5 | 1141.0 | 1140.2 |
| 140° | 1184.1 | 1184.6 | 1185.2 | 1185.8 | 1186.4 | 1186.6 | 1186.6 | 1186.6 | 1186.6 | 1186.6 | 1186.4 |
| 142.5° | 1228.7 | 1229.2 | 1229.8 | 1230.4 | 1231.0 | 1231.1 | 1230.9 | 1230.7 | 1230.5 | 1230.2 | 1230.2 |
| 145° | 1290.4 | 1291.6 | 1292.7 | 1293.9 | 1295.0 | 1295.7 | 1296.0 | 1296.3 | 1296.6 | 1296.9 | 1296.6 |
| 147.5° | 1351.6 | 1353.0 | 1354.4 | 1355.8 | 1357.1 | 1357.7 | 1357.5 | 1357.3 | 1357.0 | 1356.8 | 1356.6 |
| 150° | 1389.0 | 1390.1 | 1391.3 | 1392.4 | 1393.6 | 1394.1 | 1394.1 | 1394.1 | 1394.1 | 1394.1 | 1394.1 |
| 152.5° | 1424.2 | 1424.9 | 1425.6 | 1426.3 | 1427.0 | 1427.5 | 1427.7 | 1427.9 | 1428.2 | 1428.4 | 1429.1 |
| 155° | 1478.4 | 1478.4 | 1478.4 | 1478.4 | 1478.4 | 1478.3 | 1478.0 | 1477.7 | 1477.4 | 1477.2 | 1478.3 |
| 157.5° | 1524.1 | 1523.6 | 1523.1 | 1522.5 | 1522.0 | 1521.7 | 1521.7 | 1521.6 | 1521.6 | 1521.5 | 1522.4 |
| 160° | 1551.1 | 1550.8 | 1550.5 | 1550.2 | 1549.9 | 1549.6 | 1549.3 | 1549.1 | 1548.8 | 1548.5 | 1549.3 |
| 162.5° | 1576.0 | 1575.2 | 1574.5 | 1573.7 | 1573.0 | 1572.5 | 1572.2 | 1571.9 | 1571.6 | 1571.3 | 1572.9 |
| 165° | 1609.4 | 1608.6 | 1607.7 | 1606.8 | 1606.0 | 1605.3 | 1604.7 | 1604.1 | 1603.5 | 1602.9 | 1604.7 |
| 167.5° | 1635.1 | 1633.9 | 1632.7 | 1631.5 | 1630.3 | 1629.7 | 1629.8 | 1629.8 | 1629.9 | 1629.9 | 1631.7 |
| 170° | 1649.6 | 1648.2 | 1646.8 | 1645.3 | 1643.9 | 1643.3 | 1643.6 | 1643.9 | 1644.2 | 1644.4 | 1646.2 |
| 172.5° | 1660.0 | 1658.8 | 1657.6 | 1656.4 | 1655.2 | 1654.6 | 1654.7 | 1654.7 | 1654.8 | 1654.8 | 1656.8 |
| 175° | 1674.3 | 1672.8 | 1671.4 | 1670.0 | 1668.5 | 1667.6 | 1667.4 | 1667.1 | 1666.8 | 1666.5 | 1668.5 |
| 177.5° | 1678.9 | 1677.8 | 1676.6 | 1675.5 | 1674.3 | 1673.8 | 1673.8 | 1673.8 | 1673.8 | 1673.8 | 1675.4 |
| 180° | 1676.9 | 1676.9 | 1676.9 | 1676.9 | 1676.9 | 1676.9 | 1676.9 | 1676.9 | 1676.9 | 1676.9 | 1676.9 |



TEST NUMBER: P333030

CATALOG NUMBER: S124RDIW-S350D1340U835-4F0-1E-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° | 11.5 | 11.8 | 12.1 | 12.3 | 12.5 | 12.7 | 12.9 | 13.1 |
| 90° | 32.0 | 33.7 | 35.4 | 36.6 | 37.2 | 37.8 | 38.3 | 38.9 |
| 92.5° | 53.4 | 54.5 | 55.5 | 56.2 | 56.5 | 56.9 | 57.2 | 57.6 |
| 95° | 100.3 | 101.2 | 102.0 | 102.5 | 102.5 | 102.5 | 102.5 | 102.5 |
| 97.5° | 158.0 | 159.0 | 160.0 | 160.6 | 160.6 | 160.6 | 160.6 | 160.6 |
| 100° | 199.6 | 200.2 | 200.7 | 201.0 | 201.0 | 201.0 | 201.0 | 201.0 |
| 102.5° | 243.6 | 244.4 | 245.2 | 245.7 | 246.0 | 246.2 | 246.4 | 246.7 |
| 105° | 310.4 | 311.3 | 312.1 | 313.0 | 313.8 | 314.7 | 315.6 | 316.4 |
| 107.5° | 382.6 | 383.4 | 384.3 | 384.6 | 384.6 | 384.5 | 384.5 | 384.4 |
| 110° | 430.7 | 430.1 | 429.6 | 429.7 | 430.6 | 431.4 | 432.3 | 433.2 |



TEST NUMBER: P333030

CATALOG NUMBER: S124RDIW-S350D1340U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 482.5 | 482.4 | 482.2 | 482.3 | 482.4 | 482.6 | 482.8 | 483.0 |
| 115° | 562.3 | 562.0 | 561.7 | 561.4 | 561.1 | 560.8 | 560.5 | 560.3 |
| 117.5° | 639.0 | 638.0 | 637.0 | 636.2 | 635.6 | 635.1 | 634.5 | 633.9 |
| 120° | 691.0 | 689.5 | 688.1 | 687.6 | 688.2 | 688.8 | 689.4 | 689.9 |
| 122.5° | 743.7 | 742.8 | 741.8 | 740.8 | 739.7 | 738.7 | 737.7 | 736.6 |
| 125° | 821.1 | 820.5 | 819.9 | 819.3 | 818.8 | 818.2 | 817.6 | 817.0 |
| 127.5° | 895.0 | 894.4 | 893.8 | 893.3 | 892.9 | 892.4 | 891.9 | 891.5 |
| 130° | 946.9 | 946.3 | 945.7 | 944.9 | 943.7 | 942.5 | 941.4 | 940.2 |
| 132.5° | 995.6 | 995.1 | 994.5 | 994.0 | 993.5 | 993.0 | 992.6 | 992.1 |
| 135° | 1068.8 | 1068.2 | 1067.6 | 1066.9 | 1066.0 | 1065.2 | 1064.3 | 1063.4 |
| 137.5° | 1139.5 | 1138.8 | 1138.0 | 1137.7 | 1137.9 | 1138.1 | 1138.2 | 1138.4 |
| 140° | 1186.1 | 1185.8 | 1185.5 | 1185.2 | 1184.9 | 1184.6 | 1184.3 | 1184.1 |
| 142.5° | 1230.1 | 1230.1 | 1230.0 | 1229.9 | 1229.9 | 1229.8 | 1229.8 | 1229.7 |
| 145° | 1296.3 | 1296.0 | 1295.7 | 1295.2 | 1294.3 | 1293.4 | 1292.6 | 1291.7 |
| 147.5° | 1356.3 | 1356.1 | 1355.9 | 1355.6 | 1355.3 | 1355.0 | 1354.8 | 1354.5 |
| 150° | 1394.1 | 1394.1 | 1394.1 | 1394.0 | 1393.7 | 1393.4 | 1393.1 | 1392.9 |
| 152.5° | 1429.8 | 1430.5 | 1431.2 | 1431.1 | 1430.4 | 1429.6 | 1428.9 | 1428.1 |
| 155° | 1479.5 | 1480.6 | 1481.8 | 1481.8 | 1480.6 | 1479.5 | 1478.3 | 1477.2 |
| 157.5° | 1523.2 | 1524.1 | 1525.0 | 1524.9 | 1523.9 | 1522.9 | 1522.0 | 1521.0 |
| 160° | 1550.2 | 1551.1 | 1551.9 | 1551.6 | 1550.2 | 1548.8 | 1547.3 | 1545.9 |
| 162.5° | 1574.4 | 1576.0 | 1577.5 | 1577.6 | 1576.1 | 1574.7 | 1573.3 | 1571.8 |
| 165° | 1606.4 | 1608.1 | 1609.9 | 1610.2 | 1609.0 | 1607.8 | 1606.7 | 1605.5 |
| 167.5° | 1633.4 | 1635.1 | 1636.8 | 1636.8 | 1635.0 | 1633.2 | 1631.5 | 1629.7 |
| 170° | 1647.9 | 1649.6 | 1651.4 | 1651.2 | 1649.2 | 1647.2 | 1645.2 | 1643.2 |
| 172.5° | 1658.7 | 1660.7 | 1662.7 | 1662.6 | 1660.6 | 1658.6 | 1656.6 | 1654.6 |
| 175° | 1670.5 | 1672.5 | 1674.6 | 1674.6 | 1672.5 | 1670.5 | 1668.5 | 1666.5 |
| 177.5° | 1677.0 | 1678.6 | 1680.2 | 1680.1 | 1678.3 | 1676.4 | 1674.6 | 1672.7 |
| 180° | 1676.9 | 1676.9 | 1676.9 | 1676.9 | 1676.9 | 1676.9 | 1676.9 | 1676.9 |

(END OF REPORT)