

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: P333021-940

Luminaire Tested: **S124RDIW-S350D770U940-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333021-940  
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: S124RDIW-S350D770U940-4F0-1E-UDD-F  
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 350 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED  
HOUSING  
UPLIGHT 770 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4013.6 lumens  
Efficiency: N/A  
Efficacy: 132.0 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

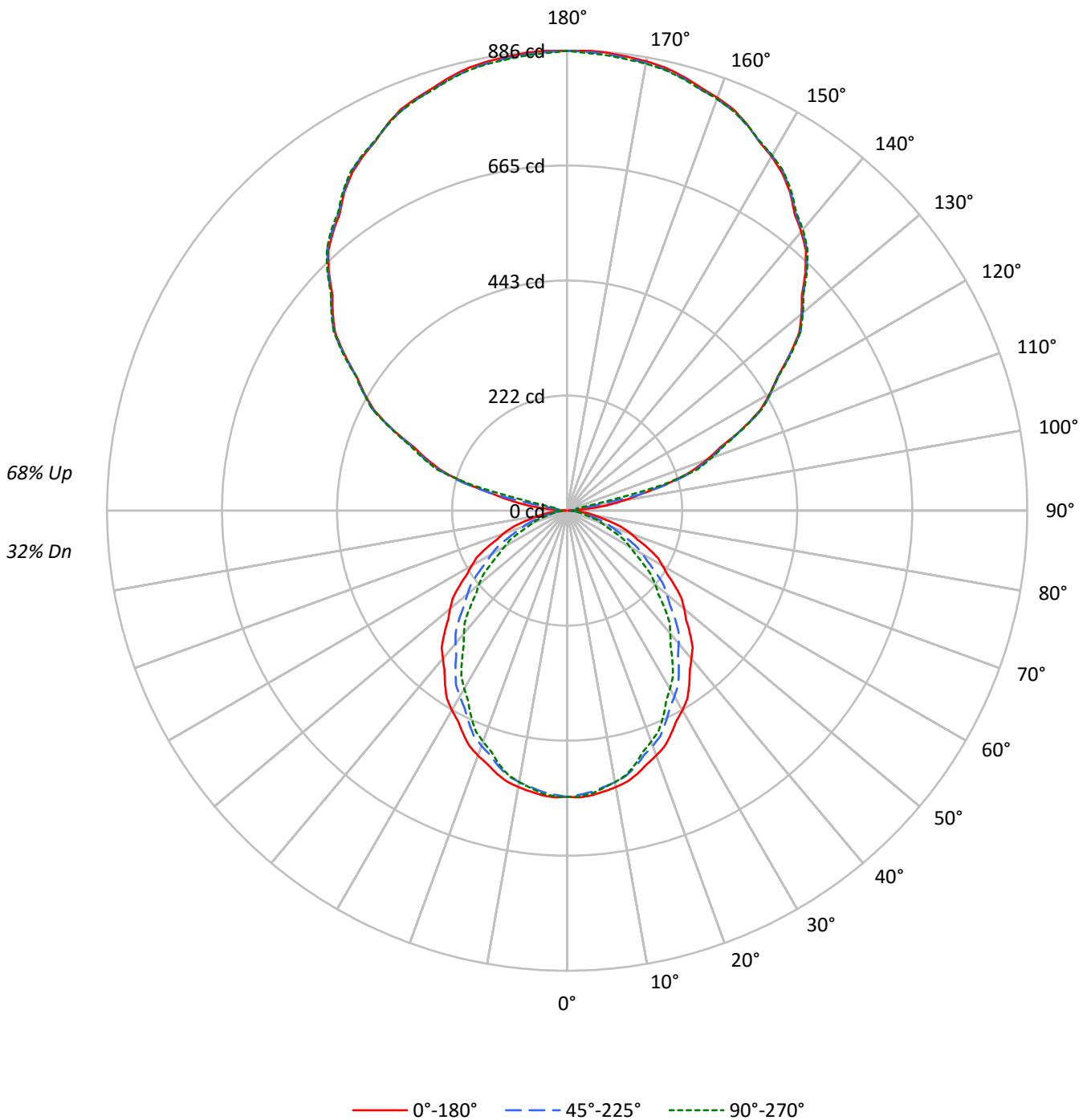
Input Watts (W): 30.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P333021-940

CATALOG NUMBER: S124RDIW-S350D770U940-4F0-1E-UDD-F

### Luminous Intensity Polar Plot





TEST NUMBER: P333021-940

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**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   | 103 | 103 | 103 | 103 | 92 | 92 | 92 | 92 | 73 | 73 | 73 | 56 | 56 | 56 | 39 | 39 | 39 | 32 |
| 1   | 94  | 90  | 86  | 83  | 84 | 81 | 78 | 75 | 64 | 62 | 60 | 49 | 48 | 46 | 35 | 34 | 34 | 27 |
| 2   | 86  | 78  | 73  | 68  | 77 | 71 | 66 | 62 | 56 | 53 | 50 | 43 | 41 | 39 | 31 | 30 | 28 | 23 |
| 3   | 78  | 69  | 62  | 57  | 70 | 62 | 56 | 52 | 50 | 46 | 42 | 38 | 36 | 33 | 28 | 26 | 24 | 20 |
| 4   | 71  | 61  | 54  | 48  | 64 | 55 | 49 | 44 | 44 | 40 | 36 | 34 | 31 | 28 | 25 | 23 | 21 | 17 |
| 5   | 66  | 54  | 47  | 41  | 59 | 49 | 43 | 38 | 40 | 35 | 31 | 31 | 27 | 25 | 22 | 20 | 18 | 15 |
| 6   | 60  | 49  | 41  | 35  | 54 | 44 | 37 | 33 | 36 | 31 | 27 | 28 | 24 | 22 | 20 | 18 | 16 | 13 |
| 7   | 56  | 44  | 36  | 31  | 50 | 40 | 33 | 29 | 32 | 27 | 24 | 25 | 22 | 19 | 19 | 16 | 15 | 12 |
| 8   | 52  | 40  | 32  | 27  | 46 | 36 | 30 | 25 | 29 | 25 | 21 | 23 | 20 | 17 | 17 | 15 | 13 | 10 |
| 9   | 48  | 36  | 29  | 24  | 43 | 33 | 27 | 22 | 27 | 22 | 19 | 21 | 18 | 15 | 16 | 13 | 12 | 9  |
| 10  | 45  | 33  | 26  | 22  | 40 | 30 | 24 | 20 | 25 | 20 | 17 | 20 | 16 | 14 | 15 | 12 | 11 | 9  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4451 | 4451 | 4451 |
| 5°  | 4460 | 4406 | 4433 |
| 10° | 4432 | 4353 | 4353 |
| 15° | 4381 | 4262 | 4229 |
| 20° | 4312 | 4141 | 4064 |
| 25° | 4222 | 4000 | 3899 |
| 30° | 4135 | 3852 | 3691 |
| 35° | 4039 | 3698 | 3482 |
| 40° | 3923 | 3523 | 3256 |
| 45° | 3817 | 3350 | 3027 |
| 50° | 3695 | 3149 | 2783 |
| 55° | 3564 | 2940 | 2519 |
| 60° | 3421 | 2713 | 2249 |
| 65° | 3289 | 2428 | 1983 |
| 70° | 3099 | 2110 | 1683 |
| 75° | 2857 | 1753 | 1369 |
| 80° | 2492 | 1334 | 1255 |
| 85° | 2112 | 1213 | 1130 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 51.8   | 1.3       |
| 10°-20°   | 144.4  | 3.6       |
| 20°-30°   | 208.5  | 5.2       |
| 30°-40°   | 236.4  | 5.9       |
| 40°-50°   | 228.2  | 5.7       |
| 50°-60°   | 189.8  | 4.7       |
| 60°-70°   | 131.1  | 3.3       |
| 70°-80°   | 66.4   | 1.7       |
| 80°-90°   | 19.6   | 0.5       |
| 90°-100°  | 30.3   | 0.8       |
| 100°-110° | 193.0  | 4.8       |
| 110°-120° | 369.2  | 9.2       |
| 120°-130° | 468.7  | 11.7      |
| 130°-140° | 501.4  | 12.5      |
| 140°-150° | 468.9  | 11.7      |
| 150°-160° | 378.1  | 9.4       |
| 160°-170° | 243.9  | 6.1       |
| 170°-180° | 84.1   | 2.1       |
| 0°-30°    | 404.7  | 10.1      |
| 0°-40°    | 641.0  | 16.0      |
| 0°-60°    | 1059.1 | 26.4      |
| 0°-90°    | 1276.1 | 31.8      |
| 90°-120°  | 592.4  | 14.8      |
| 90°-150°  | 2031.4 | 50.6      |
| 90°-180°  | 2737.0 | 68.2      |
| 0°-180°   | 4013.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 551 | 551   | 551 | 551   | 551 |      |
| 5°   | 550 | 548   | 544 | 548   | 547 | 52   |
| 15°  | 524 | 520   | 510 | 509   | 506 | 148  |
| 25°  | 474 | 466   | 449 | 442   | 438 | 218  |
| 35°  | 410 | 396   | 375 | 361   | 353 | 256  |
| 45°  | 334 | 318   | 293 | 273   | 265 | 258  |
| 55°  | 253 | 236   | 209 | 188   | 179 | 226  |
| 65°  | 172 | 154   | 127 | 110   | 104 | 170  |
| 75°  | 92  | 76    | 56  | 47    | 44  | 97   |
| 85°  | 23  | 15    | 13  | 12    | 12  | 26   |
| 90°  | 2   | 9     | 14  | 18    | 20  | 3    |
| 95°  | 36  | 15    | 14  | 18    | 19  | 47   |
| 105° | 199 | 203   | 206 | 211   | 189 | 208  |
| 115° | 372 | 374   | 373 | 375   | 375 | 366  |
| 125° | 523 | 525   | 524 | 526   | 527 | 467  |
| 135° | 649 | 648   | 651 | 652   | 653 | 500  |
| 145° | 748 | 750   | 750 | 751   | 752 | 467  |
| 155° | 820 | 821   | 819 | 821   | 820 | 378  |
| 165° | 865 | 862   | 862 | 866   | 861 | 244  |
| 175° | 885 | 881   | 882 | 887   | 880 | 84   |
| 180° | 885 | 885   | 885 | 885   | 885 |      |



TEST NUMBER: P333021-940

CATALOG NUMBER: S124RDIW-S350D770U940-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 551.3 | 551.3 | 551.3 | 551.3 | 551.3 | 551.3 | 551.3 | 551.3 | 551.3 | 551.3 | 551.3 |
| 2.5°   | 552.6 | 552.2 | 552.0 | 551.7 | 551.3 | 550.8 | 550.0 | 549.2 | 548.3 | 547.5 | 548.3 |
| 5°     | 550.4 | 550.0 | 549.7 | 549.3 | 548.8 | 548.1 | 547.0 | 545.9 | 544.7 | 543.7 | 544.6 |
| 7.5°   | 545.4 | 545.0 | 544.7 | 544.2 | 543.9 | 542.9 | 541.4 | 539.9 | 538.5 | 537.1 | 537.6 |
| 10°    | 540.6 | 540.2 | 539.8 | 539.3 | 538.8 | 537.7 | 536.0 | 534.3 | 532.6 | 531.0 | 531.4 |
| 12.5°  | 534.6 | 534.0 | 533.5 | 533.0 | 532.4 | 531.2 | 529.1 | 527.2 | 525.2 | 523.2 | 523.4 |
| 15°    | 524.2 | 523.3 | 522.5 | 521.7 | 520.8 | 519.2 | 516.9 | 514.5 | 512.2 | 509.9 | 509.7 |
| 17.5°  | 511.7 | 510.4 | 509.2 | 508.0 | 506.8 | 504.7 | 501.9 | 499.1 | 496.3 | 493.5 | 492.9 |
| 20°    | 501.9 | 500.6 | 499.4 | 498.2 | 497.0 | 494.8 | 491.6 | 488.4 | 485.2 | 482.0 | 481.3 |
| 22.5°  | 491.1 | 489.6 | 488.3 | 487.0 | 485.5 | 483.1 | 479.7 | 476.4 | 473.0 | 469.5 | 468.4 |
| 25°    | 474.0 | 472.3 | 470.6 | 469.0 | 467.3 | 464.5 | 460.7 | 456.8 | 452.9 | 449.1 | 447.5 |
| 27.5°  | 456.1 | 454.0 | 451.8 | 449.8 | 447.6 | 444.5 | 440.4 | 436.3 | 432.2 | 428.1 | 426.1 |
| 30°    | 443.6 | 441.2 | 438.9 | 436.6 | 434.3 | 430.9 | 426.4 | 422.0 | 417.6 | 413.2 | 410.9 |
| 32.5°  | 430.4 | 427.8 | 425.2 | 422.5 | 419.8 | 416.3 | 411.7 | 407.2 | 402.6 | 398.1 | 395.3 |
| 35°    | 409.8 | 406.8 | 403.9 | 400.8 | 397.8 | 394.0 | 389.3 | 384.6 | 380.0 | 375.2 | 372.0 |
| 37.5°  | 387.8 | 384.7 | 381.7 | 378.5 | 375.4 | 371.3 | 366.0 | 360.9 | 355.7 | 350.5 | 347.0 |
| 40°    | 372.3 | 369.2 | 366.0 | 363.0 | 359.9 | 355.7 | 350.4 | 345.0 | 339.7 | 334.3 | 330.4 |
| 42.5°  | 357.4 | 354.2 | 350.9 | 347.7 | 344.5 | 340.0 | 334.5 | 328.9 | 323.3 | 317.7 | 313.7 |
| 45°    | 334.3 | 330.8 | 327.3 | 323.9 | 320.4 | 315.8 | 310.2 | 304.6 | 299.0 | 293.4 | 288.7 |
| 47.5°  | 310.4 | 306.8 | 303.3 | 299.6 | 296.0 | 291.3 | 285.5 | 279.6 | 273.8 | 268.0 | 263.1 |
| 50°    | 294.2 | 290.5 | 286.9 | 283.2 | 279.6 | 274.7 | 268.8 | 262.7 | 256.7 | 250.7 | 246.0 |
| 52.5°  | 277.7 | 274.0 | 270.5 | 266.9 | 263.3 | 258.4 | 252.3 | 246.1 | 240.0 | 233.8 | 229.1 |
| 55°    | 253.2 | 249.5 | 245.8 | 242.0 | 238.3 | 233.3 | 227.2 | 221.1 | 215.0 | 208.9 | 204.0 |
| 57.5°  | 229.1 | 225.2 | 221.3 | 217.4 | 213.5 | 208.6 | 202.5 | 196.5 | 190.6 | 184.5 | 179.6 |
| 60°    | 211.9 | 208.1 | 204.4 | 200.6 | 196.9 | 192.0 | 186.0 | 179.9 | 174.0 | 168.0 | 163.1 |
| 62.5°  | 196.4 | 192.4 | 188.5 | 184.7 | 180.7 | 175.8 | 169.6 | 163.5 | 157.3 | 151.1 | 146.6 |
| 65°    | 172.2 | 168.2 | 164.2 | 160.2 | 156.0 | 151.1 | 145.1 | 139.0 | 133.0 | 127.1 | 123.1 |
| 67.5°  | 147.1 | 143.3 | 139.4 | 135.5 | 131.7 | 127.0 | 121.4 | 115.8 | 110.2 | 104.7 | 101.2 |
| 70°    | 131.3 | 127.3 | 123.4 | 119.5 | 115.5 | 110.8 | 105.5 | 100.1 | 94.8  | 89.4  | 86.4  |
| 72.5°  | 114.4 | 110.8 | 107.3 | 103.7 | 100.1 | 95.9  | 90.8  | 85.7  | 80.7  | 75.6  | 73.0  |
| 75°    | 91.6  | 88.1  | 84.6  | 81.1  | 77.7  | 73.7  | 69.4  | 64.9  | 60.5  | 56.2  | 53.9  |
| 77.5°  | 68.5  | 65.5  | 62.6  | 59.7  | 56.7  | 53.4  | 49.8  | 46.3  | 42.7  | 39.1  | 37.9  |
| 80°    | 53.6  | 50.9  | 48.2  | 45.5  | 42.7  | 39.9  | 37.2  | 34.3  | 31.5  | 28.7  | 28.4  |
| 82.5°  | 40.8  | 38.3  | 35.8  | 33.3  | 30.8  | 28.7  | 27.1  | 25.5  | 23.9  | 22.3  | 22.1  |
| 85°    | 22.8  | 21.0  | 19.1  | 17.1  | 15.2  | 14.2  | 13.9  | 13.6  | 13.4  | 13.1  | 12.9  |
| 87.5°  | 8.2   | 7.8   | 7.6   | 7.3   | 7.0   | 7.0   | 7.1   | 7.3   | 7.5   | 7.7   | 7.8   |
| 90°    | 2.0   | 3.6   | 5.3   | 6.9   | 8.5   | 9.9   | 11.1  | 12.2  | 13.4  | 14.5  | 15.4  |
| 92.5°  | 8.4   | 8.5   | 8.6   | 8.6   | 8.6   | 9.4   | 10.5  | 11.7  | 12.8  | 14.0  | 14.9  |
| 95°    | 36.4  | 31.4  | 26.4  | 21.4  | 16.4  | 14.0  | 14.1  | 14.3  | 14.4  | 14.5  | 15.4  |
| 97.5°  | 77.3  | 80.4  | 83.6  | 86.7  | 89.8  | 83.1  | 66.7  | 50.3  | 33.9  | 17.5  | 17.6  |
| 100°   | 108.5 | 111.2 | 113.9 | 116.5 | 119.1 | 110.3 | 90.1  | 69.7  | 49.4  | 29.2  | 26.7  |
| 102.5° | 143.5 | 145.4 | 147.4 | 149.4 | 151.2 | 150.9 | 148.3 | 145.6 | 142.9 | 140.4 | 113.3 |
| 105°   | 199.2 | 200.1 | 201.0 | 201.9 | 202.8 | 203.6 | 204.3 | 205.0 | 205.8 | 206.5 | 207.9 |
| 107.5° | 251.0 | 251.5 | 251.9 | 252.4 | 252.8 | 253.5 | 254.5 | 255.5 | 256.5 | 257.4 | 258.2 |
| 110°   | 286.0 | 286.4 | 286.9 | 287.3 | 287.7 | 288.4 | 289.3 | 290.2 | 291.1 | 291.9 | 292.2 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 319.9 | 320.7 | 321.5 | 322.2 | 323.0 | 323.6 | 324.0 | 324.4 | 324.9 | 325.3 | 325.2 |
| 115°   | 372.0 | 372.5 | 372.9 | 373.3 | 373.7 | 373.9 | 373.7 | 373.6 | 373.4 | 373.3 | 373.6 |
| 117.5° | 419.0 | 419.5 | 420.2 | 420.7 | 421.3 | 421.8 | 422.1 | 422.4 | 422.8 | 423.1 | 423.0 |
| 120°   | 450.8 | 451.4 | 451.9 | 452.5 | 453.1 | 453.3 | 453.2 | 453.1 | 452.9 | 452.7 | 453.1 |
| 122.5° | 480.5 | 480.7 | 481.1 | 481.4 | 481.8 | 482.1 | 482.3 | 482.5 | 482.7 | 483.0 | 483.1 |
| 125°   | 522.9 | 523.5 | 524.1 | 524.7 | 525.2 | 525.4 | 525.1 | 524.9 | 524.5 | 524.2 | 524.7 |
| 127.5° | 563.1 | 563.3 | 563.5 | 563.6 | 563.7 | 564.2 | 564.8 | 565.5 | 566.1 | 566.9 | 566.8 |
| 130°   | 589.1 | 589.2 | 589.4 | 589.5 | 589.7 | 590.0 | 590.4 | 590.8 | 591.3 | 591.7 | 591.9 |
| 132.5° | 613.0 | 613.2 | 613.5 | 613.7 | 613.9 | 614.4 | 614.9 | 615.5 | 616.1 | 616.6 | 616.8 |
| 135°   | 648.6 | 648.5 | 648.4 | 648.2 | 648.1 | 648.3 | 648.9 | 649.4 | 650.1 | 650.7 | 650.9 |
| 137.5° | 680.3 | 680.4 | 680.5 | 680.5 | 680.6 | 680.9 | 681.5 | 682.2 | 682.9 | 683.5 | 683.8 |
| 140°   | 701.0 | 701.2 | 701.5 | 701.9 | 702.1 | 702.4 | 702.8 | 703.0 | 703.3 | 703.6 | 704.0 |
| 142.5° | 719.5 | 720.1 | 720.6 | 721.0 | 721.6 | 721.9 | 722.1 | 722.3 | 722.5 | 722.6 | 723.0 |
| 145°   | 748.0 | 748.4 | 748.9 | 749.3 | 749.8 | 749.9 | 749.9 | 749.9 | 749.9 | 749.9 | 750.1 |
| 147.5° | 770.6 | 771.4 | 772.2 | 773.0 | 773.9 | 774.2 | 774.1 | 773.9 | 773.7 | 773.6 | 773.7 |
| 150°   | 787.0 | 787.6 | 788.2 | 788.8 | 789.3 | 789.6 | 789.4 | 789.3 | 789.2 | 789.0 | 789.0 |
| 152.5° | 800.8 | 801.2 | 801.7 | 802.2 | 802.6 | 802.7 | 802.5 | 802.3 | 802.0 | 801.7 | 801.9 |
| 155°   | 820.1 | 820.3 | 820.4 | 820.6 | 820.7 | 820.6 | 820.1 | 819.7 | 819.2 | 818.8 | 819.4 |
| 157.5° | 836.4 | 836.3 | 836.2 | 836.2 | 836.1 | 835.7 | 835.3 | 834.7 | 834.2 | 833.7 | 834.5 |
| 160°   | 845.9 | 845.4 | 845.1 | 844.6 | 844.2 | 843.8 | 843.7 | 843.6 | 843.4 | 843.3 | 844.2 |
| 162.5° | 854.3 | 853.8 | 853.3 | 852.7 | 852.1 | 851.8 | 851.7 | 851.5 | 851.3 | 851.2 | 852.1 |
| 165°   | 865.1 | 864.3 | 863.6 | 862.9 | 862.2 | 861.8 | 861.8 | 861.8 | 861.8 | 861.8 | 863.0 |
| 167.5° | 873.6 | 872.8 | 872.1 | 871.3 | 870.5 | 870.1 | 870.0 | 870.0 | 869.9 | 869.8 | 871.0 |
| 170°   | 878.3 | 877.4 | 876.6 | 875.7 | 874.9 | 874.4 | 874.6 | 874.8 | 874.9 | 875.0 | 876.2 |
| 172.5° | 881.5 | 880.7 | 879.8 | 878.9 | 878.0 | 877.6 | 877.8 | 877.9 | 878.1 | 878.2 | 879.4 |
| 175°   | 884.9 | 884.0 | 883.2 | 882.3 | 881.5 | 881.1 | 881.2 | 881.4 | 881.5 | 881.6 | 883.0 |
| 177.5° | 886.5 | 885.7 | 884.9 | 884.0 | 883.2 | 883.0 | 883.2 | 883.4 | 883.7 | 883.9 | 884.8 |
| 180°   | 884.9 | 884.9 | 884.9 | 884.9 | 884.9 | 884.9 | 884.9 | 884.9 | 884.9 | 884.9 | 884.9 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 551.3 | 551.3 | 551.3 | 551.3 | 551.3 | 551.3 | 551.3 | 551.3 |
| 2.5°   | 549.2 | 550.0 | 550.8 | 551.2 | 551.1 | 551.1 | 551.0 | 550.9 |
| 5°     | 545.5 | 546.4 | 547.4 | 547.8 | 547.6 | 547.4 | 547.2 | 547.0 |
| 7.5°   | 538.2 | 538.9 | 539.5 | 539.6 | 539.3 | 539.0 | 538.7 | 538.4 |
| 10°    | 531.7 | 532.1 | 532.4 | 532.4 | 532.1 | 531.7 | 531.4 | 531.0 |
| 12.5°  | 523.6 | 523.9 | 524.1 | 524.0 | 523.4 | 522.9 | 522.4 | 521.8 |
| 15°    | 509.5 | 509.3 | 509.1 | 508.7 | 508.0 | 507.4 | 506.8 | 506.0 |
| 17.5°  | 492.4 | 492.0 | 491.4 | 490.6 | 489.6 | 488.7 | 487.7 | 486.7 |
| 20°    | 480.5 | 479.7 | 479.0 | 478.0 | 476.8 | 475.5 | 474.4 | 473.1 |
| 22.5°  | 467.3 | 466.1 | 465.0 | 464.0 | 463.0 | 462.0 | 461.0 | 459.9 |
| 25°    | 445.9 | 444.3 | 442.7 | 441.5 | 440.5 | 439.5 | 438.6 | 437.7 |
| 27.5°  | 424.1 | 422.1 | 420.2 | 418.6 | 417.1 | 415.8 | 414.5 | 413.1 |
| 30°    | 408.5 | 406.2 | 403.9 | 401.9 | 400.4 | 399.0 | 397.4 | 395.9 |
| 32.5°  | 392.6 | 389.9 | 387.2 | 385.0 | 383.6 | 382.2 | 380.8 | 379.3 |
| 35°    | 368.8 | 365.7 | 362.5 | 360.1 | 358.4 | 356.7 | 355.0 | 353.3 |
| 37.5°  | 343.4 | 339.8 | 336.3 | 333.6 | 331.9 | 330.2 | 328.5 | 326.8 |
| 40°    | 326.4 | 322.4 | 318.5 | 315.8 | 314.1 | 312.4 | 310.7 | 309.0 |
| 42.5°  | 309.7 | 305.7 | 301.7 | 298.8 | 297.0 | 295.2 | 293.5 | 291.8 |
| 45°    | 284.2 | 279.6 | 274.9 | 271.8 | 270.1 | 268.4 | 266.7 | 265.1 |
| 47.5°  | 258.4 | 253.6 | 248.9 | 245.6 | 243.7 | 241.8 | 240.0 | 238.2 |
| 50°    | 241.3 | 236.7 | 231.9 | 228.7 | 226.9 | 225.2 | 223.4 | 221.6 |
| 52.5°  | 224.3 | 219.5 | 214.8 | 211.4 | 209.6 | 207.8 | 205.9 | 204.0 |
| 55°    | 199.2 | 194.3 | 189.4 | 186.1 | 184.3 | 182.5 | 180.7 | 179.0 |
| 57.5°  | 174.6 | 169.7 | 164.7 | 161.6 | 160.2 | 158.9 | 157.5 | 156.1 |
| 60°    | 158.2 | 153.4 | 148.5 | 145.3 | 143.7 | 142.3 | 140.8 | 139.3 |
| 62.5°  | 142.1 | 137.6 | 133.1 | 130.3 | 129.0 | 127.9 | 126.6 | 125.5 |
| 65°    | 119.0 | 114.9 | 110.9 | 108.3 | 107.2 | 106.1 | 105.0 | 103.8 |
| 67.5°  | 97.7  | 94.3  | 90.8  | 88.5  | 87.2  | 86.0  | 84.7  | 83.5  |
| 70°    | 83.3  | 80.2  | 77.1  | 75.1  | 74.1  | 73.2  | 72.2  | 71.3  |
| 72.5°  | 70.4  | 67.7  | 65.1  | 63.3  | 62.4  | 61.6  | 60.7  | 59.8  |
| 75°    | 51.8  | 49.7  | 47.5  | 46.2  | 45.6  | 45.0  | 44.5  | 43.9  |
| 77.5°  | 36.6  | 35.4  | 34.2  | 33.4  | 33.3  | 33.1  | 32.9  | 32.7  |
| 80°    | 28.2  | 27.8  | 27.6  | 27.4  | 27.3  | 27.2  | 27.1  | 27.0  |
| 82.5°  | 21.8  | 21.7  | 21.5  | 21.3  | 21.2  | 21.1  | 21.0  | 21.0  |
| 85°    | 12.8  | 12.5  | 12.3  | 12.2  | 12.2  | 12.2  | 12.2  | 12.2  |
| 87.5°  | 7.8   | 7.9   | 8.0   | 8.2   | 8.3   | 8.5   | 8.6   | 8.7   |
| 90°    | 16.3  | 17.2  | 18.1  | 18.6  | 19.0  | 19.3  | 19.5  | 19.9  |
| 92.5°  | 15.8  | 16.7  | 17.6  | 18.0  | 18.1  | 18.2  | 18.2  | 18.3  |
| 95°    | 16.3  | 17.2  | 18.1  | 18.6  | 18.7  | 18.9  | 19.1  | 19.2  |
| 97.5°  | 17.7  | 17.7  | 17.8  | 17.9  | 18.1  | 18.3  | 18.4  | 18.5  |
| 100°   | 24.2  | 21.6  | 19.1  | 17.9  | 18.1  | 18.3  | 18.4  | 18.5  |
| 102.5° | 86.4  | 59.4  | 32.5  | 18.9  | 19.0  | 19.0  | 19.0  | 19.1  |
| 105°   | 209.2 | 210.4 | 211.8 | 209.8 | 204.6 | 199.2 | 193.9 | 188.7 |
| 107.5° | 258.8 | 259.4 | 260.1 | 260.6 | 261.3 | 261.8 | 262.3 | 262.9 |
| 110°   | 292.5 | 292.7 | 293.1 | 293.5 | 293.9 | 294.4 | 294.8 | 295.2 |





TEST NUMBER: P333021-940

CATALOG NUMBER: S124RDIW-S350D770U940-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 325.1 | 325.1 | 325.0 | 325.3 | 325.8 | 326.4 | 327.0 | 327.5 |
| 115°   | 373.9 | 374.2 | 374.5 | 374.6 | 374.6 | 374.6 | 374.6 | 374.6 |
| 117.5° | 422.9 | 422.9 | 422.8 | 422.8 | 422.8 | 422.7 | 422.6 | 422.6 |
| 120°   | 453.3 | 453.6 | 453.9 | 453.9 | 453.6 | 453.3 | 453.1 | 452.7 |
| 122.5° | 483.3 | 483.5 | 483.7 | 483.6 | 483.3 | 483.0 | 482.7 | 482.4 |
| 125°   | 525.1 | 525.6 | 526.0 | 526.3 | 526.5 | 526.6 | 526.7 | 526.9 |
| 127.5° | 566.7 | 566.6 | 566.5 | 566.4 | 566.3 | 566.1 | 566.1 | 566.0 |
| 130°   | 592.0 | 592.2 | 592.4 | 592.4 | 592.4 | 592.4 | 592.4 | 592.4 |
| 132.5° | 616.9 | 617.1 | 617.2 | 617.2 | 617.2 | 617.0 | 616.9 | 616.8 |
| 135°   | 651.2 | 651.6 | 651.8 | 652.1 | 652.4 | 652.7 | 653.0 | 653.3 |
| 137.5° | 684.1 | 684.5 | 684.7 | 684.9 | 684.8 | 684.7 | 684.7 | 684.6 |
| 140°   | 704.5 | 704.9 | 705.3 | 705.7 | 705.8 | 706.0 | 706.1 | 706.2 |
| 142.5° | 723.4 | 723.6 | 724.0 | 724.2 | 724.2 | 724.2 | 724.2 | 724.2 |
| 145°   | 750.2 | 750.4 | 750.6 | 750.7 | 751.0 | 751.4 | 751.6 | 751.9 |
| 147.5° | 773.8 | 774.0 | 774.1 | 774.3 | 774.4 | 774.5 | 774.7 | 774.8 |
| 150°   | 789.0 | 789.0 | 789.0 | 789.1 | 789.3 | 789.3 | 789.5 | 789.6 |
| 152.5° | 802.2 | 802.4 | 802.6 | 802.7 | 802.6 | 802.5 | 802.5 | 802.4 |
| 155°   | 819.9 | 820.6 | 821.1 | 821.2 | 820.7 | 820.3 | 819.8 | 819.5 |
| 157.5° | 835.3 | 836.1 | 836.8 | 836.8 | 836.1 | 835.3 | 834.5 | 833.7 |
| 160°   | 845.1 | 845.9 | 846.8 | 846.8 | 845.9 | 845.1 | 844.2 | 843.3 |
| 162.5° | 853.0 | 853.8 | 854.7 | 854.7 | 853.7 | 852.7 | 851.7 | 850.7 |
| 165°   | 864.2 | 865.3 | 866.5 | 866.5 | 865.1 | 863.8 | 862.5 | 861.1 |
| 167.5° | 872.4 | 873.6 | 874.9 | 874.9 | 873.3 | 871.9 | 870.4 | 869.0 |
| 170°   | 877.4 | 878.6 | 879.8 | 879.6 | 878.2 | 876.6 | 875.2 | 873.7 |
| 172.5° | 880.6 | 881.7 | 882.9 | 882.7 | 881.1 | 879.6 | 878.0 | 876.4 |
| 175°   | 884.3 | 885.6 | 887.0 | 886.7 | 884.9 | 883.2 | 881.5 | 879.7 |
| 177.5° | 885.8 | 886.7 | 887.7 | 887.4 | 886.0 | 884.6 | 883.2 | 881.8 |
| 180°   | 884.9 | 884.9 | 884.9 | 884.9 | 884.9 | 884.9 | 884.9 | 884.9 |

(END OF REPORT)