

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: P332730-930

Luminaire Tested: **S124DIW-S350D1050U930-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332730-930  
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: S124DIW-S350D1050U930-4F0-1E-UDD-D1  
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 350 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 1050 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4140.8 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')  
CIE Type: Semi-Indirect

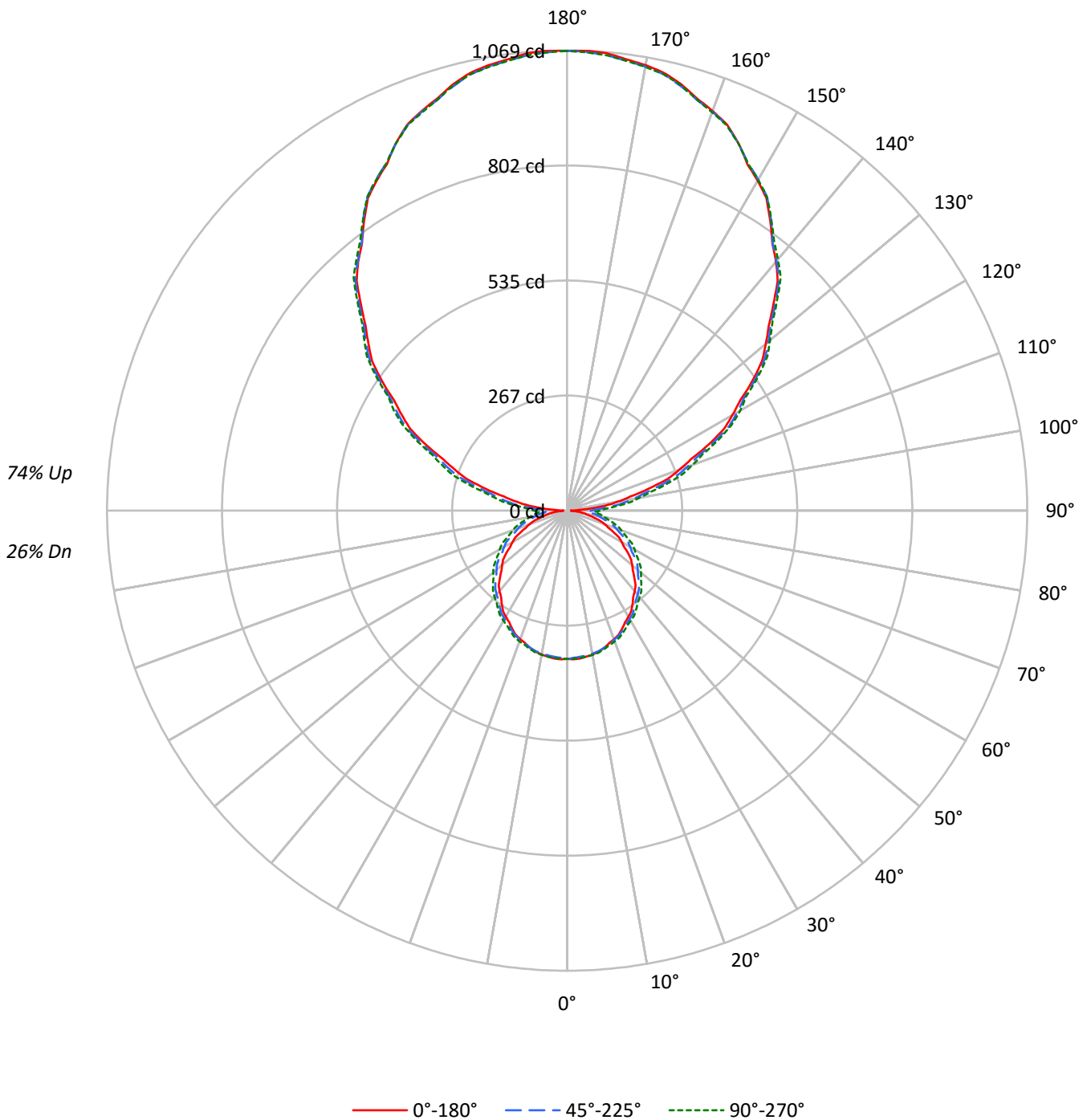
Input Watts (W): 38  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





TEST NUMBER: P332730-930

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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   | 102 | 102 | 102 | 102 | 91 | 91 | 91 | 91 | 70 | 70 | 70 | 52 | 52 | 52 | 34 | 34 | 34 | 26 |
| 1   | 92  | 88  | 84  | 80  | 82 | 78 | 75 | 72 | 61 | 58 | 56 | 44 | 43 | 42 | 29 | 29 | 28 | 21 |
| 2   | 83  | 76  | 70  | 65  | 74 | 68 | 63 | 58 | 53 | 49 | 46 | 39 | 36 | 34 | 26 | 24 | 23 | 17 |
| 3   | 76  | 67  | 59  | 54  | 67 | 60 | 53 | 48 | 46 | 42 | 38 | 34 | 31 | 29 | 22 | 21 | 19 | 14 |
| 4   | 69  | 59  | 51  | 45  | 61 | 52 | 46 | 41 | 41 | 36 | 32 | 30 | 27 | 24 | 20 | 18 | 16 | 12 |
| 5   | 63  | 52  | 44  | 38  | 56 | 47 | 40 | 35 | 36 | 31 | 28 | 27 | 23 | 21 | 18 | 16 | 14 | 10 |
| 6   | 58  | 46  | 39  | 33  | 52 | 42 | 35 | 30 | 33 | 28 | 24 | 24 | 21 | 18 | 16 | 14 | 12 | 9  |
| 7   | 54  | 42  | 34  | 29  | 48 | 37 | 31 | 26 | 29 | 24 | 21 | 22 | 18 | 16 | 15 | 13 | 11 | 8  |
| 8   | 50  | 38  | 30  | 25  | 44 | 34 | 27 | 23 | 27 | 22 | 18 | 20 | 16 | 14 | 13 | 11 | 10 | 7  |
| 9   | 46  | 34  | 27  | 22  | 41 | 31 | 24 | 20 | 24 | 20 | 16 | 18 | 15 | 12 | 12 | 10 | 9  | 6  |
| 10  | 43  | 31  | 24  | 20  | 38 | 28 | 22 | 18 | 22 | 18 | 14 | 17 | 13 | 11 | 11 | 9  | 8  | 6  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2782 | 2782 | 2782 |
| 5°  | 2791 | 2719 | 2726 |
| 10° | 2774 | 2675 | 2673 |
| 15° | 2749 | 2623 | 2608 |
| 20° | 2711 | 2566 | 2547 |
| 25° | 2669 | 2503 | 2478 |
| 30° | 2623 | 2439 | 2408 |
| 35° | 2571 | 2374 | 2347 |
| 40° | 2530 | 2313 | 2282 |
| 45° | 2468 | 2256 | 2228 |
| 50° | 2417 | 2190 | 2169 |
| 55° | 2363 | 2129 | 2101 |
| 60° | 2280 | 2049 | 2039 |
| 65° | 2187 | 1965 | 1962 |
| 70° | 2076 | 1868 | 1874 |
| 75° | 1922 | 1763 | 1793 |
| 80° | 1750 | 1660 | 1713 |
| 85° | 1534 | 1571 | 1669 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 32.6   | 0.8       |
| 10°-20°   | 93.5   | 2.3       |
| 20°-30°   | 141.4  | 3.4       |
| 30°-40°   | 171.1  | 4.1       |
| 40°-50°   | 180.8  | 4.4       |
| 50°-60°   | 170.2  | 4.1       |
| 60°-70°   | 141.2  | 3.4       |
| 70°-80°   | 99.2   | 2.4       |
| 80°-90°   | 59.3   | 1.4       |
| 90°-100°  | 103.7  | 2.5       |
| 100°-110° | 233.3  | 5.6       |
| 110°-120° | 370.7  | 9.0       |
| 120°-130° | 476.3  | 11.5      |
| 130°-140° | 528.5  | 12.8      |
| 140°-150° | 516.2  | 12.5      |
| 150°-160° | 433.5  | 10.5      |
| 160°-170° | 288.4  | 7.0       |
| 170°-180° | 101.0  | 2.4       |
| 0°-30°    | 267.5  | 6.5       |
| 0°-40°    | 438.6  | 10.6      |
| 0°-60°    | 789.6  | 19.1      |
| 0°-90°    | 1089.3 | 26.3      |
| 90°-120°  | 707.8  | 17.1      |
| 90°-150°  | 2228.7 | 53.8      |
| 90°-180°  | 3052.0 | 73.7      |
| 0°-180°   | 4140.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 345  | 345   | 345  | 345   | 345  |      |
| 5°   | 345  | 344   | 341  | 344   | 344  | 33   |
| 15°  | 331  | 331   | 330  | 333   | 333  | 93   |
| 25°  | 303  | 305   | 306  | 310   | 311  | 139  |
| 35°  | 265  | 269   | 273  | 278   | 280  | 166  |
| 45°  | 221  | 228   | 235  | 242   | 244  | 171  |
| 55°  | 173  | 181   | 193  | 200   | 203  | 154  |
| 65°  | 120  | 132   | 145  | 154   | 158  | 119  |
| 75°  | 66   | 81    | 97   | 107   | 111  | 71   |
| 85°  | 20   | 37    | 54   | 65    | 70   | 22   |
| 90°  | 9    | 33    | 56   | 72    | 77   | 7    |
| 95°  | 54   | 75    | 96   | 109   | 113  | 59   |
| 105° | 196  | 205   | 222  | 234   | 240  | 208  |
| 115° | 362  | 366   | 377  | 384   | 386  | 357  |
| 125° | 526  | 526   | 534  | 540   | 541  | 469  |
| 135° | 677  | 682   | 685  | 689   | 689  | 524  |
| 145° | 822  | 825   | 826  | 827   | 826  | 514  |
| 155° | 942  | 942   | 941  | 944   | 941  | 433  |
| 165° | 1025 | 1023  | 1021 | 1025  | 1022 | 289  |
| 175° | 1066 | 1062  | 1061 | 1066  | 1061 | 101  |
| 180° | 1068 | 1068  | 1068 | 1068  | 1068 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 344.6 | 344.6 | 344.6 | 344.6 | 344.6 | 344.6 | 344.6 | 344.6 | 344.6 | 344.6 | 344.6 |
| 2.5°   | 345.8 | 345.6 | 345.4 | 345.2 | 345.0 | 344.6 | 344.1 | 343.6 | 343.0 | 342.4 | 342.9 |
| 5°     | 345.0 | 344.7 | 344.5 | 344.2 | 344.0 | 343.6 | 342.9 | 342.3 | 341.8 | 341.1 | 341.9 |
| 7.5°   | 342.1 | 341.9 | 341.8 | 341.6 | 341.4 | 341.1 | 340.6 | 340.1 | 339.7 | 339.2 | 339.9 |
| 10°    | 339.6 | 339.5 | 339.4 | 339.3 | 339.2 | 339.0 | 338.6 | 338.1 | 337.7 | 337.3 | 338.0 |
| 12.5°  | 336.2 | 336.1 | 336.1 | 336.1 | 336.1 | 336.0 | 335.7 | 335.4 | 335.1 | 334.8 | 335.5 |
| 15°    | 330.7 | 330.8 | 330.9 | 331.0 | 331.1 | 331.0 | 330.7 | 330.4 | 330.2 | 330.0 | 330.7 |
| 17.5°  | 323.3 | 323.5 | 323.8 | 324.0 | 324.2 | 324.4 | 324.3 | 324.2 | 324.2 | 324.2 | 325.0 |
| 20°    | 318.0 | 318.2 | 318.5 | 318.8 | 319.0 | 319.2 | 319.3 | 319.4 | 319.4 | 319.5 | 320.4 |
| 22.5°  | 312.1 | 312.4 | 312.7 | 313.1 | 313.4 | 313.6 | 313.8 | 314.0 | 314.1 | 314.3 | 315.1 |
| 25°    | 302.6 | 303.0 | 303.6 | 304.1 | 304.6 | 305.0 | 305.2 | 305.5 | 305.7 | 306.1 | 307.0 |
| 27.5°  | 291.9 | 292.7 | 293.4 | 294.2 | 294.9 | 295.5 | 295.9 | 296.3 | 296.7 | 297.1 | 297.9 |
| 30°    | 284.8 | 285.5 | 286.2 | 286.8 | 287.6 | 288.2 | 288.8 | 289.3 | 290.0 | 290.6 | 291.6 |
| 32.5°  | 277.1 | 277.9 | 278.8 | 279.6 | 280.4 | 281.1 | 281.8 | 282.4 | 283.2 | 283.8 | 284.9 |
| 35°    | 264.7 | 265.8 | 266.8 | 267.8 | 268.9 | 269.8 | 270.7 | 271.5 | 272.4 | 273.2 | 274.4 |
| 37.5°  | 252.3 | 253.5 | 254.7 | 255.8 | 257.1 | 258.1 | 259.3 | 260.3 | 261.4 | 262.4 | 263.7 |
| 40°    | 244.3 | 245.4 | 246.5 | 247.6 | 248.7 | 249.9 | 251.1 | 252.3 | 253.5 | 254.7 | 256.0 |
| 42.5°  | 235.1 | 236.3 | 237.5 | 238.8 | 240.0 | 241.3 | 242.8 | 244.2 | 245.6 | 247.0 | 248.4 |
| 45°    | 220.7 | 222.3 | 224.0 | 225.6 | 227.2 | 228.9 | 230.5 | 232.1 | 233.7 | 235.4 | 236.8 |
| 47.5°  | 207.1 | 208.8 | 210.4 | 212.1 | 213.8 | 215.6 | 217.4 | 219.4 | 221.3 | 223.1 | 224.6 |
| 50°    | 197.2 | 199.1 | 201.0 | 202.8 | 204.7 | 206.6 | 208.6 | 210.4 | 212.3 | 214.2 | 215.9 |
| 52.5°  | 187.4 | 189.2 | 191.1 | 193.0 | 194.9 | 196.9 | 199.0 | 201.2 | 203.3 | 205.5 | 207.2 |
| 55°    | 172.9 | 174.7 | 176.5 | 178.3 | 180.1 | 182.3 | 184.8 | 187.4 | 190.0 | 192.6 | 194.3 |
| 57.5°  | 156.8 | 159.0 | 161.2 | 163.5 | 165.7 | 168.0 | 170.6 | 173.2 | 175.7 | 178.3 | 180.3 |
| 60°    | 146.3 | 148.5 | 150.7 | 153.0 | 155.2 | 157.7 | 160.5 | 163.4 | 166.2 | 169.0 | 171.0 |
| 62.5°  | 136.1 | 138.5 | 141.0 | 143.4 | 145.8 | 148.5 | 151.2 | 154.1 | 156.9 | 159.8 | 161.8 |
| 65°    | 119.6 | 122.4 | 125.1 | 127.8 | 130.6 | 133.5 | 136.3 | 139.3 | 142.2 | 145.1 | 147.2 |
| 67.5°  | 103.8 | 106.7 | 109.7 | 112.6 | 115.4 | 118.5 | 121.6 | 124.7 | 127.8 | 130.9 | 133.1 |
| 70°    | 93.0  | 95.9  | 98.8  | 101.7 | 104.7 | 107.8 | 111.0 | 114.3 | 117.6 | 120.8 | 123.1 |
| 72.5°  | 82.5  | 85.5  | 88.5  | 91.5  | 94.4  | 97.7  | 101.1 | 104.6 | 108.0 | 111.5 | 113.7 |
| 75°    | 66.4  | 69.5  | 72.7  | 75.9  | 79.1  | 82.4  | 86.1  | 89.7  | 93.3  | 96.9  | 99.3  |
| 77.5°  | 51.4  | 54.7  | 58.0  | 61.4  | 64.7  | 68.3  | 72.1  | 75.9  | 79.7  | 83.4  | 85.9  |
| 80°    | 42.1  | 45.5  | 48.9  | 52.3  | 55.8  | 59.4  | 63.2  | 66.9  | 70.7  | 74.5  | 77.0  |
| 82.5°  | 32.8  | 36.4  | 39.9  | 43.5  | 47.0  | 50.7  | 54.5  | 58.3  | 62.0  | 65.9  | 68.5  |
| 85°    | 20.5  | 24.1  | 27.6  | 31.2  | 34.9  | 38.6  | 42.5  | 46.3  | 50.1  | 54.1  | 56.6  |
| 87.5°  | 11.9  | 15.8  | 19.7  | 23.6  | 27.6  | 31.5  | 35.5  | 39.6  | 43.6  | 47.7  | 50.4  |
| 90°    | 8.6   | 14.1  | 19.6  | 25.0  | 30.4  | 35.8  | 40.9  | 46.1  | 51.2  | 56.3  | 59.9  |
| 92.5°  | 23.6  | 28.9  | 34.3  | 39.7  | 45.2  | 50.2  | 55.0  | 59.6  | 64.3  | 69.1  | 72.2  |
| 95°    | 54.5  | 59.0  | 63.5  | 68.0  | 72.5  | 77.1  | 81.9  | 86.7  | 91.6  | 96.4  | 99.2  |
| 97.5°  | 91.2  | 94.9  | 98.7  | 102.4 | 106.2 | 110.5 | 115.5 | 120.5 | 125.5 | 130.4 | 133.4 |
| 100°   | 119.8 | 122.9 | 125.8 | 128.7 | 131.8 | 135.7 | 140.7 | 145.7 | 150.7 | 155.7 | 158.4 |
| 102.5° | 150.3 | 152.5 | 154.7 | 157.0 | 159.2 | 162.8 | 167.5 | 172.4 | 177.1 | 181.9 | 184.7 |
| 105°   | 195.9 | 197.8 | 199.7 | 201.6 | 203.5 | 206.4 | 210.3 | 214.3 | 218.2 | 222.0 | 224.7 |
| 107.5° | 244.6 | 246.2 | 247.9 | 249.5 | 251.1 | 253.5 | 256.6 | 259.7 | 262.8 | 265.9 | 268.5 |
| 110°   | 277.3 | 278.8 | 280.5 | 282.0 | 283.6 | 285.8 | 288.6 | 291.4 | 294.2 | 297.0 | 298.6 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 311.4  | 312.5  | 313.6  | 314.8  | 315.9  | 317.7  | 320.2  | 322.8  | 325.3  | 327.8  | 329.7  |
| 115°   | 362.4  | 363.2  | 363.9  | 364.8  | 365.5  | 367.0  | 369.5  | 371.9  | 374.2  | 376.6  | 378.3  |
| 117.5° | 410.9  | 411.5  | 412.1  | 412.7  | 413.4  | 414.8  | 417.1  | 419.4  | 421.7  | 424.0  | 425.2  |
| 120°   | 443.0  | 443.9  | 445.0  | 446.0  | 446.9  | 448.4  | 450.4  | 452.2  | 454.2  | 456.2  | 457.0  |
| 122.5° | 476.7  | 477.0  | 477.4  | 477.7  | 478.1  | 479.3  | 481.4  | 483.5  | 485.6  | 487.6  | 488.8  |
| 125°   | 526.0  | 525.9  | 525.9  | 525.8  | 525.7  | 526.6  | 528.6  | 530.5  | 532.5  | 534.4  | 535.7  |
| 127.5° | 571.0  | 571.5  | 571.9  | 572.4  | 572.9  | 573.8  | 575.1  | 576.5  | 577.9  | 579.2  | 580.4  |
| 130°   | 602.4  | 602.9  | 603.4  | 603.8  | 604.3  | 605.2  | 606.6  | 608.0  | 609.4  | 610.7  | 611.9  |
| 132.5° | 634.8  | 635.1  | 635.4  | 635.8  | 636.1  | 636.7  | 637.6  | 638.6  | 639.6  | 640.5  | 641.6  |
| 135°   | 677.2  | 678.3  | 679.4  | 680.5  | 681.6  | 682.5  | 683.1  | 683.6  | 684.3  | 684.9  | 685.9  |
| 137.5° | 723.8  | 724.2  | 724.6  | 725.0  | 725.5  | 726.0  | 726.6  | 727.2  | 727.7  | 728.4  | 729.1  |
| 140°   | 754.9  | 755.1  | 755.4  | 755.7  | 755.9  | 756.2  | 756.3  | 756.4  | 756.4  | 756.5  | 757.4  |
| 142.5° | 782.9  | 783.3  | 783.7  | 784.0  | 784.3  | 784.4  | 784.2  | 784.0  | 783.8  | 783.7  | 784.6  |
| 145°   | 822.2  | 822.8  | 823.5  | 824.1  | 824.8  | 825.2  | 825.4  | 825.6  | 825.7  | 825.9  | 826.2  |
| 147.5° | 861.2  | 861.9  | 862.7  | 863.6  | 864.4  | 864.7  | 864.5  | 864.4  | 864.2  | 864.1  | 864.0  |
| 150°   | 884.9  | 885.6  | 886.2  | 886.9  | 887.5  | 887.9  | 887.9  | 887.9  | 887.9  | 887.9  | 887.9  |
| 152.5° | 907.1  | 907.5  | 908.0  | 908.4  | 908.8  | 909.1  | 909.2  | 909.4  | 909.5  | 909.7  | 910.1  |
| 155°   | 941.6  | 941.6  | 941.6  | 941.6  | 941.6  | 941.5  | 941.3  | 941.1  | 940.9  | 940.8  | 941.5  |
| 157.5° | 970.6  | 970.3  | 970.0  | 969.6  | 969.3  | 969.1  | 969.1  | 969.1  | 969.0  | 969.0  | 969.6  |
| 160°   | 987.8  | 987.7  | 987.4  | 987.2  | 987.1  | 986.9  | 986.7  | 986.5  | 986.3  | 986.2  | 986.7  |
| 162.5° | 1003.6 | 1003.2 | 1002.7 | 1002.2 | 1001.8 | 1001.4 | 1001.3 | 1001.1 | 1000.9 | 1000.7 | 1001.7 |
| 165°   | 1025.0 | 1024.4 | 1023.9 | 1023.4 | 1022.8 | 1022.3 | 1022.0 | 1021.6 | 1021.2 | 1020.8 | 1022.0 |
| 167.5° | 1041.3 | 1040.6 | 1039.8 | 1039.0 | 1038.3 | 1037.9 | 1038.0 | 1038.0 | 1038.0 | 1038.0 | 1039.1 |
| 170°   | 1050.6 | 1049.7 | 1048.7 | 1047.8 | 1046.9 | 1046.5 | 1046.8 | 1046.9 | 1047.1 | 1047.3 | 1048.4 |
| 172.5° | 1057.2 | 1056.4 | 1055.6 | 1054.9 | 1054.1 | 1053.8 | 1053.8 | 1053.9 | 1053.9 | 1053.9 | 1055.2 |
| 175°   | 1066.2 | 1065.4 | 1064.5 | 1063.6 | 1062.6 | 1062.1 | 1061.8 | 1061.7 | 1061.5 | 1061.4 | 1062.6 |
| 177.5° | 1069.3 | 1068.5 | 1067.8 | 1067.1 | 1066.3 | 1065.9 | 1065.9 | 1065.9 | 1065.9 | 1065.9 | 1067.0 |
| 180°   | 1068.0 | 1068.0 | 1068.0 | 1068.0 | 1068.0 | 1068.0 | 1068.0 | 1068.0 | 1068.0 | 1068.0 | 1068.0 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 344.6 | 344.6 | 344.6 | 344.6 | 344.6 | 344.6 | 344.6 | 344.6 |
| 2.5°   | 343.4 | 343.9 | 344.4 | 344.5 | 344.5 | 344.5 | 344.4 | 344.3 |
| 5°     | 342.5 | 343.2 | 343.9 | 344.2 | 344.1 | 344.0 | 343.9 | 343.8 |
| 7.5°   | 340.7 | 341.4 | 342.3 | 342.6 | 342.5 | 342.4 | 342.3 | 342.3 |
| 10°    | 338.8 | 339.6 | 340.4 | 340.7 | 340.6 | 340.6 | 340.5 | 340.4 |
| 12.5°  | 336.2 | 337.0 | 337.6 | 337.9 | 337.9 | 337.9 | 337.9 | 337.9 |
| 15°    | 331.5 | 332.2 | 333.0 | 333.4 | 333.3 | 333.2 | 333.1 | 333.0 |
| 17.5°  | 325.7 | 326.5 | 327.3 | 327.7 | 327.6 | 327.5 | 327.5 | 327.4 |
| 20°    | 321.2 | 322.1 | 322.9 | 323.4 | 323.4 | 323.4 | 323.4 | 323.4 |
| 22.5°  | 316.0 | 316.8 | 317.7 | 318.2 | 318.4 | 318.5 | 318.6 | 318.8 |
| 25°    | 307.9 | 308.8 | 309.8 | 310.3 | 310.4 | 310.5 | 310.5 | 310.6 |
| 27.5°  | 298.8 | 299.7 | 300.6 | 301.1 | 301.2 | 301.3 | 301.3 | 301.5 |
| 30°    | 292.4 | 293.4 | 294.3 | 294.9 | 295.1 | 295.3 | 295.5 | 295.6 |
| 32.5°  | 285.9 | 287.1 | 288.1 | 288.8 | 288.9 | 289.1 | 289.3 | 289.4 |
| 35°    | 275.7 | 276.8 | 278.0 | 278.8 | 279.0 | 279.2 | 279.6 | 279.8 |
| 37.5°  | 264.9 | 266.0 | 267.3 | 268.1 | 268.3 | 268.6 | 268.9 | 269.1 |
| 40°    | 257.3 | 258.5 | 259.8 | 260.7 | 261.0 | 261.4 | 261.7 | 262.0 |
| 42.5°  | 249.8 | 251.3 | 252.7 | 253.6 | 253.8 | 254.0 | 254.4 | 254.6 |
| 45°    | 238.3 | 239.8 | 241.2 | 242.1 | 242.6 | 243.0 | 243.4 | 243.9 |
| 47.5°  | 226.2 | 227.6 | 229.2 | 230.2 | 230.7 | 231.2 | 231.7 | 232.3 |
| 50°    | 217.6 | 219.3 | 221.0 | 222.2 | 222.7 | 223.1 | 223.7 | 224.2 |
| 52.5°  | 209.0 | 210.7 | 212.4 | 213.5 | 214.0 | 214.5 | 215.1 | 215.6 |
| 55°    | 196.0 | 197.7 | 199.4 | 200.6 | 201.1 | 201.5 | 202.1 | 202.6 |
| 57.5°  | 182.4 | 184.4 | 186.5 | 187.7 | 188.2 | 188.7 | 189.1 | 189.6 |
| 60°    | 173.0 | 175.0 | 176.9 | 178.2 | 179.0 | 179.6 | 180.3 | 181.0 |
| 62.5°  | 163.7 | 165.7 | 167.6 | 169.0 | 169.7 | 170.3 | 171.0 | 171.7 |
| 65°    | 149.4 | 151.6 | 153.7 | 155.1 | 155.8 | 156.5 | 157.2 | 157.8 |
| 67.5°  | 135.3 | 137.5 | 139.7 | 141.1 | 141.8 | 142.4 | 143.1 | 143.8 |
| 70°    | 125.4 | 127.8 | 130.0 | 131.5 | 132.1 | 132.7 | 133.3 | 133.9 |
| 72.5°  | 116.0 | 118.3 | 120.5 | 122.0 | 122.6 | 123.3 | 124.0 | 124.7 |
| 75°    | 101.7 | 104.0 | 106.5 | 108.0 | 108.8 | 109.6 | 110.4 | 111.1 |
| 77.5°  | 88.3  | 90.7  | 93.2  | 94.8  | 95.6  | 96.4  | 97.3  | 98.1  |
| 80°    | 79.7  | 82.2  | 84.8  | 86.4  | 87.1  | 87.8  | 88.5  | 89.1  |
| 82.5°  | 71.1  | 73.8  | 76.4  | 78.1  | 78.8  | 79.6  | 80.4  | 81.1  |
| 85°    | 59.2  | 61.7  | 64.3  | 66.0  | 66.9  | 67.8  | 68.6  | 69.5  |
| 87.5°  | 53.2  | 55.8  | 58.5  | 60.3  | 61.1  | 62.0  | 62.8  | 63.6  |
| 90°    | 63.5  | 67.2  | 70.8  | 73.1  | 74.1  | 75.2  | 76.2  | 77.3  |
| 92.5°  | 75.3  | 78.3  | 81.4  | 83.4  | 84.3  | 85.2  | 86.1  | 87.0  |
| 95°    | 102.1 | 104.9 | 107.8 | 109.7 | 110.4 | 111.2 | 111.9 | 112.8 |
| 97.5°  | 136.2 | 139.2 | 142.1 | 143.9 | 144.6 | 145.4 | 146.1 | 146.8 |
| 100°   | 161.0 | 163.7 | 166.4 | 168.0 | 168.7 | 169.3 | 169.9 | 170.5 |
| 102.5° | 187.4 | 190.2 | 193.0 | 194.8 | 195.6 | 196.4 | 197.2 | 198.0 |
| 105°   | 227.5 | 230.2 | 232.8 | 234.8 | 236.0 | 237.3 | 238.5 | 239.7 |
| 107.5° | 271.2 | 273.8 | 276.4 | 278.0 | 278.6 | 279.2 | 279.7 | 280.3 |
| 110°   | 300.3 | 301.8 | 303.5 | 304.8 | 306.1 | 307.4 | 308.6 | 309.8 |





TEST NUMBER: P332730-930

CATALOG NUMBER: S124DIW-S350D1050U930-4F0-1E-UDD-D1

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 331.5  | 333.4  | 335.2  | 336.5  | 337.3  | 338.1  | 338.9  | 339.7  |
| 115°   | 380.0  | 381.7  | 383.4  | 384.5  | 384.9  | 385.3  | 385.7  | 386.1  |
| 117.5° | 426.3  | 427.5  | 428.6  | 429.3  | 429.7  | 430.0  | 430.3  | 430.6  |
| 120°   | 457.7  | 458.5  | 459.3  | 460.2  | 461.3  | 462.4  | 463.4  | 464.5  |
| 122.5° | 489.8  | 490.9  | 492.0  | 492.5  | 492.5  | 492.4  | 492.4  | 492.4  |
| 125°   | 537.0  | 538.3  | 539.5  | 540.2  | 540.4  | 540.5  | 540.6  | 540.8  |
| 127.5° | 581.6  | 582.8  | 583.9  | 584.7  | 585.0  | 585.2  | 585.5  | 585.8  |
| 130°   | 613.0  | 614.2  | 615.4  | 615.9  | 615.6  | 615.5  | 615.2  | 615.0  |
| 132.5° | 642.7  | 643.8  | 645.0  | 645.6  | 645.9  | 646.0  | 646.3  | 646.5  |
| 135°   | 686.9  | 687.9  | 688.9  | 689.3  | 689.3  | 689.3  | 689.3  | 689.3  |
| 137.5° | 729.9  | 730.7  | 731.5  | 732.1  | 732.6  | 733.2  | 733.7  | 734.3  |
| 140°   | 758.4  | 759.3  | 760.2  | 760.8  | 761.1  | 761.3  | 761.6  | 761.8  |
| 142.5° | 785.5  | 786.4  | 787.4  | 788.1  | 788.3  | 788.6  | 789.0  | 789.3  |
| 145°   | 826.6  | 827.0  | 827.3  | 827.3  | 827.1  | 826.9  | 826.7  | 826.5  |
| 147.5° | 864.0  | 863.9  | 863.8  | 863.8  | 863.9  | 864.0  | 864.1  | 864.1  |
| 150°   | 887.9  | 887.9  | 887.9  | 887.8  | 887.6  | 887.5  | 887.2  | 887.0  |
| 152.5° | 910.5  | 911.0  | 911.4  | 911.4  | 910.9  | 910.4  | 910.0  | 909.5  |
| 155°   | 942.2  | 943.0  | 943.7  | 943.7  | 943.0  | 942.2  | 941.5  | 940.8  |
| 157.5° | 970.1  | 970.6  | 971.2  | 971.2  | 970.5  | 969.9  | 969.3  | 968.7  |
| 160°   | 987.2  | 987.8  | 988.4  | 988.1  | 987.2  | 986.3  | 985.5  | 984.5  |
| 162.5° | 1002.7 | 1003.6 | 1004.7 | 1004.7 | 1003.8 | 1002.9 | 1001.9 | 1001.0 |
| 165°   | 1023.0 | 1024.2 | 1025.2 | 1025.4 | 1024.7 | 1023.9 | 1023.2 | 1022.5 |
| 167.5° | 1040.2 | 1041.3 | 1042.4 | 1042.4 | 1041.3 | 1040.2 | 1039.0 | 1037.9 |
| 170°   | 1049.5 | 1050.6 | 1051.7 | 1051.6 | 1050.4 | 1049.0 | 1047.7 | 1046.4 |
| 172.5° | 1056.4 | 1057.6 | 1058.9 | 1058.8 | 1057.6 | 1056.3 | 1055.0 | 1053.7 |
| 175°   | 1063.9 | 1065.2 | 1066.5 | 1066.5 | 1065.2 | 1063.9 | 1062.6 | 1061.4 |
| 177.5° | 1068.0 | 1069.0 | 1070.1 | 1070.0 | 1068.8 | 1067.6 | 1066.5 | 1065.3 |
| 180°   | 1068.0 | 1068.0 | 1068.0 | 1068.0 | 1068.0 | 1068.0 | 1068.0 | 1068.0 |

(END OF REPORT)