

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: P332523-940

Luminaire Tested: **S124DIP-S350D1035U940-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332523-940  
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: S124DIP-S350D1035U940-4F0-1E-UDD-F  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 350 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
UPLIGHT 1035 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5036.7 lumens  
Efficiency: N/A  
Efficacy: 135.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

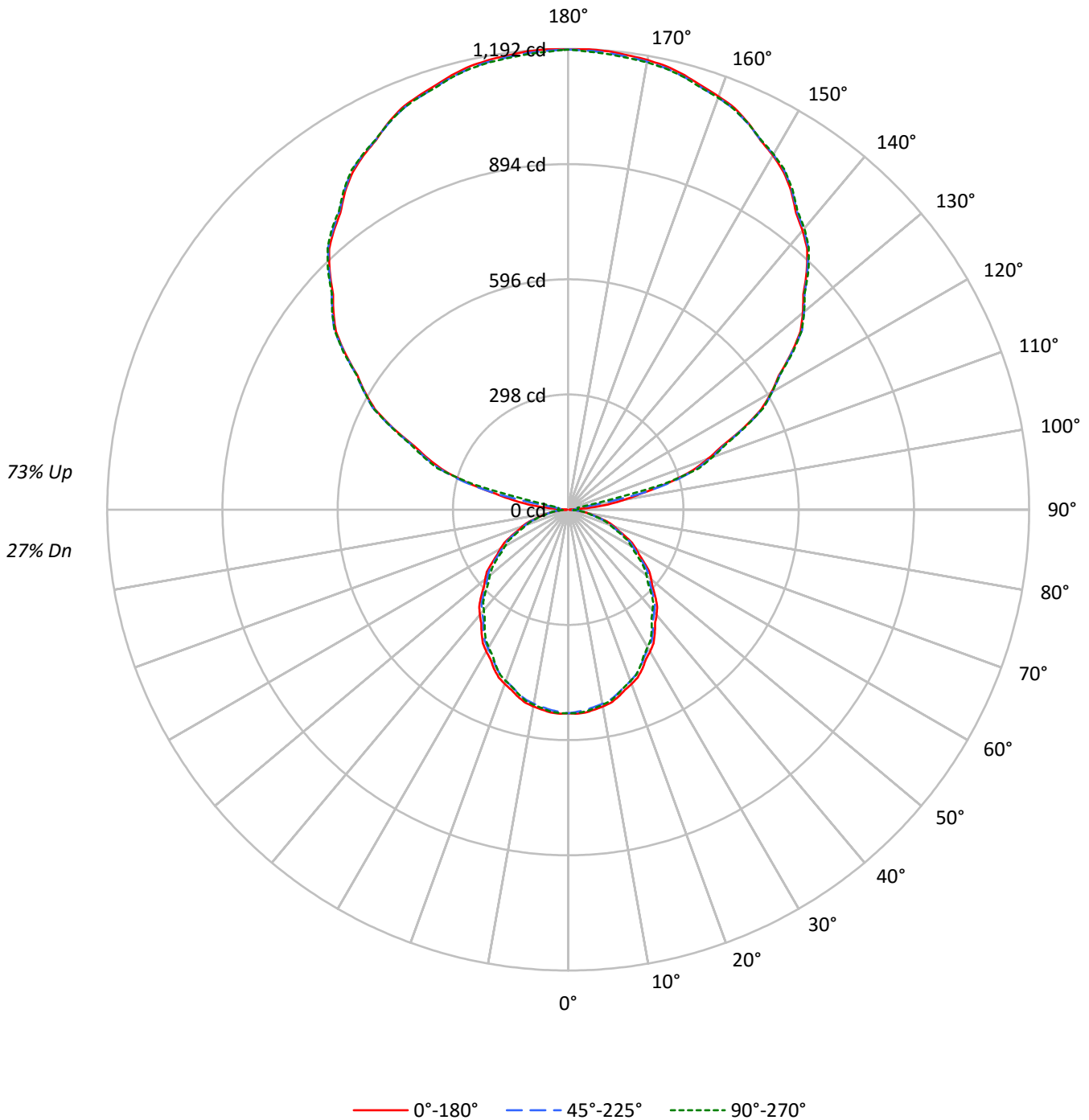
Input Watts (W): 37.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332523-940

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### Luminous Intensity Polar Plot





TEST NUMBER: P332523-940

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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   | 102 | 102 | 102 | 102 | 91 | 91 | 91 | 91 | 71 | 71 | 71 | 52 | 52 | 52 | 35 | 35 | 35 | 27 |
| 1   | 93  | 88  | 85  | 81  | 83 | 79 | 76 | 73 | 62 | 59 | 58 | 46 | 44 | 43 | 31 | 30 | 29 | 23 |
| 2   | 84  | 77  | 71  | 66  | 75 | 69 | 64 | 60 | 54 | 51 | 48 | 40 | 38 | 36 | 27 | 26 | 25 | 19 |
| 3   | 77  | 68  | 61  | 55  | 68 | 61 | 55 | 50 | 47 | 43 | 40 | 35 | 33 | 30 | 24 | 22 | 21 | 16 |
| 4   | 70  | 60  | 52  | 46  | 62 | 54 | 47 | 42 | 42 | 38 | 34 | 31 | 28 | 26 | 21 | 20 | 18 | 14 |
| 5   | 64  | 53  | 45  | 40  | 57 | 48 | 41 | 36 | 38 | 33 | 29 | 28 | 25 | 22 | 19 | 17 | 16 | 12 |
| 6   | 59  | 47  | 40  | 34  | 53 | 43 | 36 | 31 | 34 | 29 | 25 | 25 | 22 | 19 | 17 | 15 | 14 | 10 |
| 7   | 55  | 43  | 35  | 30  | 49 | 38 | 32 | 27 | 30 | 26 | 22 | 23 | 20 | 17 | 16 | 14 | 12 | 9  |
| 8   | 50  | 39  | 31  | 26  | 45 | 35 | 28 | 24 | 28 | 23 | 19 | 21 | 18 | 15 | 15 | 12 | 11 | 8  |
| 9   | 47  | 35  | 28  | 23  | 42 | 32 | 25 | 21 | 25 | 21 | 17 | 19 | 16 | 14 | 13 | 11 | 10 | 7  |
| 10  | 44  | 32  | 25  | 21  | 39 | 29 | 23 | 19 | 23 | 19 | 15 | 18 | 14 | 12 | 12 | 10 | 9  | 7  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4252 | 4252 | 4252 |
| 5°  | 4265 | 4214 | 4245 |
| 10° | 4238 | 4180 | 4200 |
| 15° | 4187 | 4120 | 4131 |
| 20° | 4119 | 4046 | 4050 |
| 25° | 4041 | 3963 | 3951 |
| 30° | 3947 | 3864 | 3828 |
| 35° | 3847 | 3761 | 3710 |
| 40° | 3744 | 3643 | 3577 |
| 45° | 3639 | 3528 | 3460 |
| 50° | 3520 | 3425 | 3318 |
| 55° | 3392 | 3291 | 3184 |
| 60° | 3265 | 3142 | 3047 |
| 65° | 3121 | 2999 | 2879 |
| 70° | 2960 | 2809 | 2700 |
| 75° | 2711 | 2583 | 2514 |
| 80° | 2413 | 2315 | 2255 |
| 85° | 2112 | 2029 | 1991 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 49.6   | 1.0       |
| 10°-20°   | 139.8  | 2.8       |
| 20°-30°   | 205.7  | 4.1       |
| 30°-40°   | 239.2  | 4.7       |
| 40°-50°   | 239.2  | 4.7       |
| 50°-60°   | 209.2  | 4.2       |
| 60°-70°   | 155.4  | 3.1       |
| 70°-80°   | 88.3   | 1.8       |
| 80°-90°   | 28.9   | 0.6       |
| 90°-100°  | 40.7   | 0.8       |
| 100°-110° | 259.5  | 5.2       |
| 110°-120° | 496.5  | 9.9       |
| 120°-130° | 630.3  | 12.5      |
| 130°-140° | 674.3  | 13.4      |
| 140°-150° | 630.6  | 12.5      |
| 150°-160° | 508.5  | 10.1      |
| 160°-170° | 328.0  | 6.5       |
| 170°-180° | 113.0  | 2.2       |
| 0°-30°    | 395.1  | 7.8       |
| 0°-40°    | 634.2  | 12.6      |
| 0°-60°    | 1082.6 | 21.5      |
| 0°-90°    | 1355.2 | 26.9      |
| 90°-120°  | 796.7  | 15.8      |
| 90°-150°  | 2731.9 | 54.2      |
| 90°-180°  | 3681.0 | 73.1      |
| 0°-180°   | 5036.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 527  | 527   | 527  | 527   | 527  |      |
| 5°   | 526  | 524   | 520  | 524   | 524  | 50   |
| 15°  | 501  | 499   | 493  | 495   | 494  | 141  |
| 25°  | 454  | 451   | 445  | 445   | 444  | 209  |
| 35°  | 390  | 387   | 382  | 379   | 376  | 244  |
| 45°  | 319  | 316   | 309  | 305   | 303  | 246  |
| 55°  | 241  | 240   | 234  | 229   | 226  | 216  |
| 65°  | 163  | 161   | 157  | 153   | 151  | 162  |
| 75°  | 87   | 85    | 83   | 81    | 81   | 92   |
| 85°  | 23   | 23    | 22   | 22    | 22   | 25   |
| 90°  | 3    | 12    | 20   | 25    | 27   | 4    |
| 95°  | 49   | 20    | 20   | 25    | 26   | 63   |
| 105° | 268  | 273   | 278  | 284   | 254  | 280  |
| 115° | 500  | 503   | 502  | 504   | 504  | 492  |
| 125° | 703  | 706   | 705  | 708   | 709  | 628  |
| 135° | 872  | 872   | 875  | 877   | 879  | 672  |
| 145° | 1006 | 1008  | 1008 | 1010  | 1011 | 628  |
| 155° | 1103 | 1104  | 1101 | 1104  | 1102 | 508  |
| 165° | 1163 | 1159  | 1159 | 1165  | 1158 | 329  |
| 175° | 1190 | 1185  | 1186 | 1193  | 1183 | 113  |
| 180° | 1190 | 1190  | 1190 | 1190  | 1190 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 526.7 | 526.7 | 526.7 | 526.7 | 526.7 | 526.7 | 526.7 | 526.7 | 526.7 | 526.7 | 526.7 |
| 2.5°   | 528.1 | 527.9 | 527.6 | 527.4 | 527.2 | 526.6 | 525.8 | 525.0 | 524.2 | 523.3 | 524.1 |
| 5°     | 526.3 | 525.9 | 525.6 | 525.2 | 524.9 | 524.1 | 523.1 | 522.1 | 521.0 | 520.0 | 521.0 |
| 7.5°   | 521.5 | 521.0 | 520.7 | 520.3 | 520.0 | 519.2 | 518.0 | 516.9 | 515.8 | 514.6 | 515.4 |
| 10°    | 517.0 | 516.7 | 516.3 | 515.9 | 515.6 | 514.8 | 513.5 | 512.3 | 511.1 | 509.9 | 510.6 |
| 12.5°  | 511.3 | 511.0 | 510.6 | 510.1 | 509.8 | 509.0 | 507.7 | 506.4 | 505.1 | 503.8 | 504.6 |
| 15°    | 501.0 | 500.6 | 500.2 | 499.9 | 499.5 | 498.6 | 497.2 | 495.8 | 494.4 | 493.0 | 493.6 |
| 17.5°  | 488.6 | 488.1 | 487.7 | 487.2 | 486.7 | 485.8 | 484.5 | 483.1 | 481.8 | 480.5 | 480.8 |
| 20°    | 479.5 | 479.0 | 478.6 | 478.0 | 477.6 | 476.7 | 475.3 | 473.9 | 472.4 | 471.0 | 471.4 |
| 22.5°  | 469.7 | 469.0 | 468.4 | 467.8 | 467.2 | 466.2 | 464.8 | 463.4 | 462.0 | 460.6 | 461.1 |
| 25°    | 453.7 | 453.1 | 452.5 | 451.7 | 451.1 | 450.1 | 448.8 | 447.5 | 446.2 | 444.9 | 445.0 |
| 27.5°  | 435.5 | 434.8 | 434.2 | 433.5 | 432.8 | 431.9 | 430.6 | 429.4 | 428.2 | 427.0 | 426.8 |
| 30°    | 423.4 | 422.6 | 421.9 | 421.1 | 420.4 | 419.4 | 418.1 | 416.9 | 415.7 | 414.5 | 414.1 |
| 32.5°  | 410.5 | 409.8 | 409.1 | 408.5 | 407.8 | 406.8 | 405.6 | 404.2 | 403.0 | 401.6 | 401.2 |
| 35°    | 390.4 | 389.8 | 389.1 | 388.4 | 387.8 | 386.8 | 385.5 | 384.1 | 382.9 | 381.6 | 380.9 |
| 37.5°  | 369.3 | 368.6 | 368.0 | 367.5 | 366.8 | 365.9 | 364.4 | 363.0 | 361.6 | 360.2 | 359.4 |
| 40°    | 355.3 | 354.6 | 353.9 | 353.1 | 352.4 | 351.3 | 349.9 | 348.5 | 347.1 | 345.7 | 344.7 |
| 42.5°  | 340.5 | 340.1 | 339.7 | 339.2 | 338.8 | 337.7 | 336.2 | 334.6 | 333.1 | 331.5 | 330.4 |
| 45°    | 318.7 | 318.0 | 317.4 | 316.7 | 316.0 | 315.0 | 313.4 | 311.9 | 310.5 | 309.0 | 307.9 |
| 47.5°  | 295.8 | 295.3 | 294.9 | 294.4 | 294.0 | 293.1 | 291.7 | 290.3 | 288.9 | 287.5 | 286.3 |
| 50°    | 280.3 | 279.9 | 279.6 | 279.1 | 278.7 | 277.9 | 276.6 | 275.3 | 273.9 | 272.7 | 271.3 |
| 52.5°  | 265.1 | 264.6 | 264.1 | 263.7 | 263.2 | 262.3 | 260.9 | 259.6 | 258.2 | 256.8 | 255.7 |
| 55°    | 241.0 | 240.8 | 240.4 | 240.1 | 239.9 | 239.1 | 237.7 | 236.5 | 235.1 | 233.8 | 232.7 |
| 57.5°  | 218.0 | 217.8 | 217.4 | 217.1 | 216.8 | 216.0 | 214.6 | 213.4 | 212.0 | 210.8 | 209.7 |
| 60°    | 202.2 | 201.7 | 201.3 | 200.7 | 200.3 | 199.5 | 198.2 | 197.0 | 195.8 | 194.6 | 193.8 |
| 62.5°  | 186.6 | 186.3 | 185.8 | 185.5 | 185.0 | 184.2 | 182.9 | 181.6 | 180.3 | 179.1 | 178.3 |
| 65°    | 163.4 | 162.9 | 162.4 | 161.9 | 161.5 | 160.8 | 159.8 | 158.9 | 157.9 | 157.0 | 156.0 |
| 67.5°  | 139.9 | 139.5 | 139.0 | 138.6 | 138.1 | 137.5 | 136.6 | 135.7 | 134.8 | 133.8 | 133.0 |
| 70°    | 125.4 | 124.7 | 124.0 | 123.4 | 122.7 | 122.0 | 121.3 | 120.6 | 119.8 | 119.0 | 118.2 |
| 72.5°  | 109.9 | 109.1 | 108.5 | 107.9 | 107.2 | 106.6 | 105.9 | 105.4 | 104.8 | 104.2 | 103.5 |
| 75°    | 86.9  | 86.5  | 86.1  | 85.5  | 85.1  | 84.6  | 84.2  | 83.6  | 83.2  | 82.8  | 82.4  |
| 77.5°  | 65.1  | 64.9  | 64.6  | 64.5  | 64.3  | 63.9  | 63.6  | 63.1  | 62.7  | 62.3  | 62.2  |
| 80°    | 51.9  | 51.6  | 51.4  | 51.1  | 50.8  | 50.6  | 50.4  | 50.2  | 50.0  | 49.8  | 49.6  |
| 82.5°  | 39.1  | 39.0  | 38.8  | 38.7  | 38.5  | 38.4  | 38.4  | 38.4  | 38.3  | 38.3  | 38.3  |
| 85°    | 22.8  | 22.8  | 22.8  | 22.8  | 22.8  | 22.7  | 22.5  | 22.3  | 22.1  | 21.9  | 21.9  |
| 87.5°  | 9.3   | 9.6   | 10.1  | 10.4  | 10.8  | 11.1  | 11.3  | 11.5  | 11.8  | 12.0  | 12.2  |
| 90°    | 2.7   | 4.8   | 7.0   | 9.2   | 11.4  | 13.3  | 14.8  | 16.4  | 18.0  | 19.6  | 20.8  |
| 92.5°  | 11.2  | 11.3  | 11.4  | 11.6  | 11.7  | 12.6  | 14.1  | 15.7  | 17.3  | 18.9  | 20.1  |
| 95°    | 49.0  | 42.3  | 35.5  | 28.8  | 22.0  | 18.8  | 19.0  | 19.2  | 19.4  | 19.6  | 20.8  |
| 97.5°  | 104.0 | 108.2 | 112.4 | 116.5 | 120.7 | 111.8 | 89.7  | 67.7  | 45.6  | 23.5  | 23.6  |
| 100°   | 146.0 | 149.5 | 153.1 | 156.7 | 160.2 | 148.4 | 121.1 | 93.8  | 66.4  | 39.1  | 35.8  |
| 102.5° | 193.0 | 195.6 | 198.2 | 200.8 | 203.4 | 203.0 | 199.4 | 195.8 | 192.3 | 188.7 | 152.4 |
| 105°   | 268.0 | 269.1 | 270.3 | 271.5 | 272.7 | 273.8 | 274.7 | 275.7 | 276.8 | 277.8 | 279.6 |
| 107.5° | 337.5 | 338.1 | 338.8 | 339.3 | 339.9 | 340.9 | 342.2 | 343.6 | 344.9 | 346.3 | 347.1 |
| 110°   | 384.6 | 385.1 | 385.8 | 386.3 | 386.9 | 387.8 | 389.0 | 390.2 | 391.4 | 392.5 | 393.0 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 430.2  | 431.2  | 432.3  | 433.4  | 434.4  | 435.2  | 435.8  | 436.3  | 436.8  | 437.4  | 437.4  |
| 115°   | 500.2  | 500.9  | 501.5  | 502.0  | 502.7  | 502.8  | 502.7  | 502.5  | 502.2  | 502.0  | 502.5  |
| 117.5° | 563.5  | 564.3  | 565.1  | 565.9  | 566.7  | 567.2  | 567.7  | 568.1  | 568.6  | 569.0  | 568.9  |
| 120°   | 606.2  | 607.0  | 607.8  | 608.6  | 609.4  | 609.7  | 609.5  | 609.3  | 609.0  | 608.9  | 609.3  |
| 122.5° | 646.0  | 646.6  | 647.0  | 647.5  | 648.0  | 648.4  | 648.6  | 648.9  | 649.2  | 649.4  | 649.7  |
| 125°   | 703.2  | 704.0  | 704.8  | 705.6  | 706.4  | 706.6  | 706.2  | 705.8  | 705.4  | 705.0  | 705.6  |
| 127.5° | 757.3  | 757.5  | 757.8  | 758.0  | 758.1  | 758.7  | 759.6  | 760.5  | 761.4  | 762.3  | 762.2  |
| 130°   | 792.3  | 792.5  | 792.6  | 792.8  | 793.0  | 793.4  | 794.1  | 794.6  | 795.2  | 795.9  | 796.0  |
| 132.5° | 824.3  | 824.7  | 825.0  | 825.4  | 825.7  | 826.3  | 827.1  | 827.8  | 828.5  | 829.3  | 829.5  |
| 135°   | 872.4  | 872.2  | 872.0  | 871.7  | 871.6  | 871.8  | 872.6  | 873.4  | 874.2  | 875.0  | 875.4  |
| 137.5° | 914.9  | 915.0  | 915.1  | 915.2  | 915.3  | 915.7  | 916.6  | 917.5  | 918.3  | 919.2  | 919.6  |
| 140°   | 942.7  | 943.1  | 943.5  | 943.9  | 944.2  | 944.7  | 945.0  | 945.5  | 945.8  | 946.3  | 946.8  |
| 142.5° | 967.6  | 968.3  | 969.0  | 969.7  | 970.4  | 970.9  | 971.2  | 971.4  | 971.6  | 971.9  | 972.3  |
| 145°   | 1005.8 | 1006.5 | 1007.1 | 1007.6 | 1008.3 | 1008.5 | 1008.5 | 1008.5 | 1008.5 | 1008.5 | 1008.8 |
| 147.5° | 1036.3 | 1037.4 | 1038.6 | 1039.6 | 1040.8 | 1041.3 | 1041.0 | 1040.8 | 1040.6 | 1040.4 | 1040.6 |
| 150°   | 1058.4 | 1059.2 | 1060.0 | 1060.8 | 1061.6 | 1061.8 | 1061.7 | 1061.5 | 1061.3 | 1061.0 | 1061.0 |
| 152.5° | 1076.9 | 1077.5 | 1078.2 | 1078.8 | 1079.4 | 1079.6 | 1079.2 | 1078.9 | 1078.5 | 1078.2 | 1078.5 |
| 155°   | 1103.0 | 1103.1 | 1103.3 | 1103.5 | 1103.7 | 1103.5 | 1103.0 | 1102.3 | 1101.7 | 1101.2 | 1101.9 |
| 157.5° | 1124.8 | 1124.7 | 1124.5 | 1124.4 | 1124.4 | 1123.9 | 1123.3 | 1122.6 | 1122.0 | 1121.2 | 1122.3 |
| 160°   | 1137.6 | 1137.0 | 1136.5 | 1135.9 | 1135.2 | 1134.9 | 1134.7 | 1134.4 | 1134.3 | 1134.1 | 1135.2 |
| 162.5° | 1149.1 | 1148.3 | 1147.5 | 1146.7 | 1146.0 | 1145.6 | 1145.3 | 1145.1 | 1145.0 | 1144.8 | 1145.9 |
| 165°   | 1163.4 | 1162.4 | 1161.5 | 1160.5 | 1159.5 | 1159.0 | 1159.0 | 1159.0 | 1159.0 | 1159.0 | 1160.6 |
| 167.5° | 1174.8 | 1173.8 | 1172.8 | 1171.8 | 1170.7 | 1170.2 | 1170.0 | 1169.9 | 1169.8 | 1169.7 | 1171.4 |
| 170°   | 1181.2 | 1180.1 | 1178.8 | 1177.7 | 1176.5 | 1176.0 | 1176.2 | 1176.4 | 1176.6 | 1176.8 | 1178.4 |
| 172.5° | 1185.5 | 1184.4 | 1183.1 | 1182.0 | 1180.8 | 1180.3 | 1180.4 | 1180.7 | 1180.9 | 1181.1 | 1182.7 |
| 175°   | 1190.2 | 1189.0 | 1187.8 | 1186.6 | 1185.4 | 1184.9 | 1185.1 | 1185.4 | 1185.5 | 1185.7 | 1187.5 |
| 177.5° | 1192.3 | 1191.1 | 1190.1 | 1189.0 | 1187.8 | 1187.5 | 1187.8 | 1188.1 | 1188.4 | 1188.7 | 1190.0 |
| 180°   | 1190.2 | 1190.2 | 1190.2 | 1190.2 | 1190.2 | 1190.2 | 1190.2 | 1190.2 | 1190.2 | 1190.2 | 1190.2 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 526.7 | 526.7 | 526.7 | 526.7 | 526.7 | 526.7 | 526.7 | 526.7 |
| 2.5°   | 524.9 | 525.7 | 526.4 | 526.7 | 526.6 | 526.6 | 526.5 | 526.4 |
| 5°     | 522.1 | 523.1 | 524.1 | 524.5 | 524.3 | 524.1 | 524.0 | 523.8 |
| 7.5°   | 516.2 | 517.1 | 517.9 | 518.3 | 518.2 | 518.0 | 517.9 | 517.8 |
| 10°    | 511.4 | 512.1 | 512.9 | 513.2 | 513.0 | 512.7 | 512.6 | 512.4 |
| 12.5°  | 505.4 | 506.2 | 507.1 | 507.4 | 507.1 | 506.8 | 506.6 | 506.3 |
| 15°    | 494.1 | 494.6 | 495.3 | 495.3 | 495.1 | 494.8 | 494.5 | 494.3 |
| 17.5°  | 481.2 | 481.5 | 481.9 | 482.0 | 481.8 | 481.6 | 481.4 | 481.3 |
| 20°    | 471.6 | 471.9 | 472.2 | 472.3 | 472.0 | 471.8 | 471.6 | 471.4 |
| 22.5°  | 461.5 | 462.1 | 462.6 | 462.7 | 462.4 | 462.0 | 461.6 | 461.4 |
| 25°    | 445.1 | 445.1 | 445.2 | 445.1 | 444.7 | 444.3 | 444.0 | 443.6 |
| 27.5°  | 426.5 | 426.3 | 426.1 | 425.7 | 425.3 | 424.8 | 424.3 | 423.8 |
| 30°    | 413.8 | 413.4 | 413.0 | 412.6 | 412.1 | 411.6 | 411.2 | 410.7 |
| 32.5°  | 400.7 | 400.3 | 399.8 | 399.4 | 399.0 | 398.4 | 398.0 | 397.5 |
| 35°    | 380.2 | 379.6 | 378.9 | 378.4 | 377.9 | 377.5 | 376.9 | 376.5 |
| 37.5°  | 358.7 | 358.0 | 357.3 | 356.7 | 356.1 | 355.4 | 354.8 | 354.2 |
| 40°    | 343.8 | 342.9 | 342.0 | 341.3 | 340.7 | 340.3 | 339.8 | 339.4 |
| 42.5°  | 329.3 | 328.2 | 327.2 | 326.5 | 326.1 | 325.8 | 325.5 | 325.2 |
| 45°    | 306.9 | 305.9 | 304.9 | 304.2 | 303.9 | 303.6 | 303.4 | 303.1 |
| 47.5°  | 285.2 | 284.0 | 282.9 | 282.0 | 281.2 | 280.5 | 279.8 | 279.1 |
| 50°    | 270.0 | 268.8 | 267.4 | 266.4 | 265.9 | 265.4 | 264.7 | 264.2 |
| 52.5°  | 254.5 | 253.3 | 252.2 | 251.2 | 250.5 | 249.8 | 249.1 | 248.3 |
| 55°    | 231.6 | 230.4 | 229.3 | 228.5 | 227.9 | 227.4 | 226.8 | 226.2 |
| 57.5°  | 208.7 | 207.6 | 206.5 | 205.7 | 205.2 | 204.6 | 204.1 | 203.5 |
| 60°    | 192.9 | 192.1 | 191.2 | 190.6 | 190.1 | 189.6 | 189.1 | 188.7 |
| 62.5°  | 177.5 | 176.7 | 175.9 | 175.3 | 174.9 | 174.4 | 174.0 | 173.4 |
| 65°    | 155.2 | 154.2 | 153.3 | 152.6 | 152.1 | 151.6 | 151.1 | 150.7 |
| 67.5°  | 132.1 | 131.2 | 130.3 | 129.7 | 129.7 | 129.5 | 129.4 | 129.2 |
| 70°    | 117.5 | 116.8 | 116.0 | 115.5 | 115.2 | 114.9 | 114.7 | 114.4 |
| 72.5°  | 103.0 | 102.4 | 101.7 | 101.3 | 101.0 | 100.8 | 100.5 | 100.2 |
| 75°    | 81.9  | 81.6  | 81.2  | 81.0  | 80.9  | 80.8  | 80.7  | 80.6  |
| 77.5°  | 62.1  | 62.0  | 61.9  | 61.7  | 61.4  | 61.2  | 60.9  | 60.7  |
| 80°    | 49.4  | 49.2  | 49.0  | 49.0  | 48.8  | 48.7  | 48.6  | 48.5  |
| 82.5°  | 38.1  | 38.0  | 37.9  | 37.8  | 37.7  | 37.5  | 37.5  | 37.4  |
| 85°    | 21.9  | 21.9  | 21.9  | 21.9  | 21.8  | 21.8  | 21.6  | 21.5  |
| 87.5°  | 12.5  | 12.8  | 12.9  | 13.1  | 13.2  | 13.3  | 13.4  | 13.5  |
| 90°    | 21.9  | 23.2  | 24.3  | 25.1  | 25.5  | 25.9  | 26.3  | 26.7  |
| 92.5°  | 21.2  | 22.5  | 23.6  | 24.3  | 24.3  | 24.4  | 24.5  | 24.6  |
| 95°    | 21.9  | 23.2  | 24.3  | 25.1  | 25.2  | 25.4  | 25.6  | 25.8  |
| 97.5°  | 23.7  | 23.9  | 24.0  | 24.2  | 24.3  | 24.5  | 24.7  | 25.0  |
| 100°   | 32.5  | 29.1  | 25.7  | 24.2  | 24.3  | 24.5  | 24.7  | 25.0  |
| 102.5° | 116.2 | 79.9  | 43.6  | 25.5  | 25.5  | 25.6  | 25.6  | 25.7  |
| 105°   | 281.3 | 283.0 | 284.8 | 282.2 | 275.1 | 268.0 | 260.8 | 253.7 |
| 107.5° | 348.0 | 348.9 | 349.7 | 350.5 | 351.3 | 352.0 | 352.8 | 353.6 |
| 110°   | 393.3 | 393.8 | 394.1 | 394.7 | 395.2 | 395.8 | 396.5 | 397.0 |





TEST NUMBER: P332523-940

CATALOG NUMBER: S124DIP-S350D1035U940-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 437.3  | 437.2  | 437.1  | 437.5  | 438.2  | 439.0  | 439.7  | 440.4  |
| 115°   | 502.8  | 503.3  | 503.6  | 503.8  | 503.8  | 503.8  | 503.8  | 503.8  |
| 117.5° | 568.8  | 568.7  | 568.6  | 568.6  | 568.6  | 568.5  | 568.4  | 568.3  |
| 120°   | 609.7  | 610.0  | 610.5  | 610.5  | 610.0  | 609.7  | 609.3  | 608.9  |
| 122.5° | 650.0  | 650.1  | 650.4  | 650.3  | 650.0  | 649.5  | 649.2  | 648.7  |
| 125°   | 706.2  | 706.8  | 707.4  | 707.8  | 708.0  | 708.2  | 708.4  | 708.6  |
| 127.5° | 762.1  | 762.0  | 761.9  | 761.7  | 761.6  | 761.4  | 761.3  | 761.1  |
| 130°   | 796.2  | 796.4  | 796.6  | 796.7  | 796.7  | 796.7  | 796.7  | 796.7  |
| 132.5° | 829.6  | 829.9  | 830.1  | 830.1  | 829.9  | 829.7  | 829.6  | 829.5  |
| 135°   | 875.8  | 876.2  | 876.6  | 877.0  | 877.4  | 877.8  | 878.2  | 878.6  |
| 137.5° | 920.1  | 920.5  | 921.0  | 921.0  | 921.0  | 920.9  | 920.7  | 920.6  |
| 140°   | 947.4  | 948.1  | 948.6  | 949.0  | 949.2  | 949.4  | 949.6  | 949.9  |
| 142.5° | 972.8  | 973.2  | 973.7  | 973.8  | 973.9  | 973.9  | 974.0  | 974.0  |
| 145°   | 1009.0 | 1009.1 | 1009.3 | 1009.7 | 1010.0 | 1010.4 | 1010.8 | 1011.2 |
| 147.5° | 1040.7 | 1040.9 | 1041.1 | 1041.3 | 1041.4 | 1041.6 | 1041.9 | 1042.1 |
| 150°   | 1061.0 | 1061.0 | 1061.0 | 1061.1 | 1061.4 | 1061.6 | 1061.8 | 1061.9 |
| 152.5° | 1078.8 | 1079.1 | 1079.4 | 1079.5 | 1079.4 | 1079.3 | 1079.1 | 1079.1 |
| 155°   | 1102.7 | 1103.5 | 1104.3 | 1104.4 | 1103.8 | 1103.2 | 1102.6 | 1102.1 |
| 157.5° | 1123.3 | 1124.4 | 1125.3 | 1125.3 | 1124.4 | 1123.3 | 1122.3 | 1121.2 |
| 160°   | 1136.5 | 1137.6 | 1138.8 | 1138.8 | 1137.6 | 1136.5 | 1135.2 | 1134.1 |
| 162.5° | 1147.1 | 1148.3 | 1149.5 | 1149.4 | 1148.1 | 1146.7 | 1145.4 | 1144.1 |
| 165°   | 1162.2 | 1163.8 | 1165.3 | 1165.2 | 1163.4 | 1161.6 | 1159.8 | 1158.1 |
| 167.5° | 1173.1 | 1174.9 | 1176.6 | 1176.5 | 1174.6 | 1172.6 | 1170.5 | 1168.6 |
| 170°   | 1180.0 | 1181.5 | 1183.1 | 1182.9 | 1181.0 | 1179.0 | 1177.0 | 1175.0 |
| 172.5° | 1184.3 | 1185.8 | 1187.4 | 1187.1 | 1185.0 | 1182.9 | 1180.7 | 1178.6 |
| 175°   | 1189.3 | 1191.1 | 1192.8 | 1192.5 | 1190.2 | 1187.8 | 1185.4 | 1183.0 |
| 177.5° | 1191.2 | 1192.5 | 1193.8 | 1193.5 | 1191.6 | 1189.7 | 1187.8 | 1185.9 |
| 180°   | 1190.2 | 1190.2 | 1190.2 | 1190.2 | 1190.2 | 1190.2 | 1190.2 | 1190.2 |

(END OF REPORT)