

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: P332729-940

Luminaire Tested: **S124DIW-S350D1050U940-4F0-1E-UDD-D**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332729-940  
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: S124DIW-S350D1050U940-4F0-1E-UDD-D  
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 350 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 1050 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5024.8 lumens  
Efficiency: N/A  
Efficacy: 132.2 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

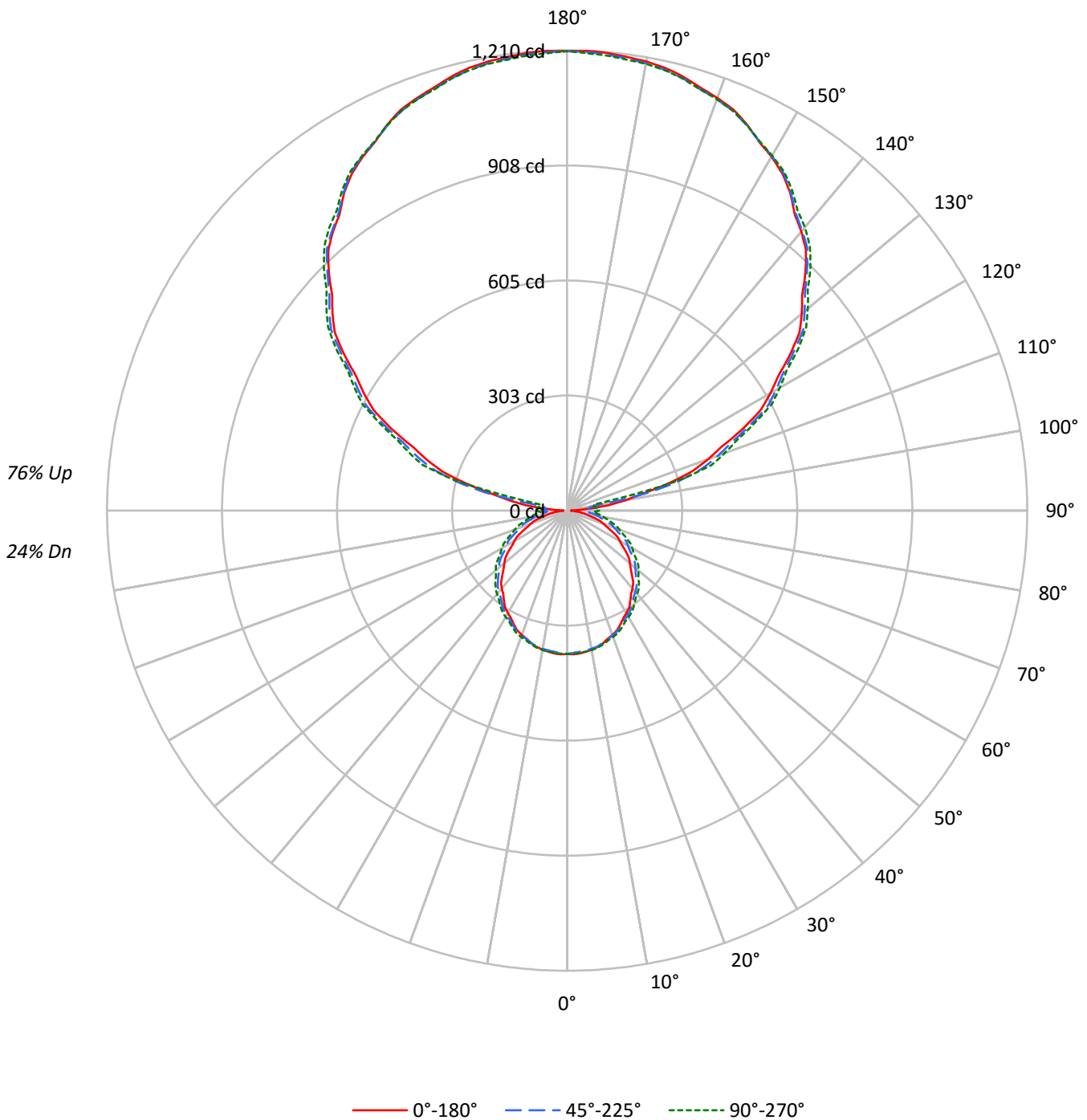
Input Watts (W): 38  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332729-940

CATALOG NUMBER: S124DIW-S350D1050U940-4F0-1E-UDD-D

### Luminous Intensity Polar Plot





TEST NUMBER: P332729-940

CATALOG NUMBER: S124DIW-S350D1050U940-4F0-1E-UDD-D

**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 | 50 | 50 | 50 | 32 | 32 | 32 | 24 |
| 1   | 91  | 87  | 83  | 80  | 81 | 77 | 74 | 71 | 59 | 57 | 55 | 43 | 41 | 40 | 27 | 27 | 26 | 19 |
| 2   | 83  | 76  | 70  | 64  | 73 | 67 | 62 | 58 | 52 | 48 | 45 | 37 | 35 | 33 | 24 | 23 | 21 | 15 |
| 3   | 76  | 66  | 59  | 53  | 67 | 59 | 53 | 48 | 45 | 41 | 38 | 33 | 30 | 28 | 21 | 19 | 18 | 13 |
| 4   | 69  | 58  | 51  | 45  | 61 | 52 | 45 | 40 | 40 | 35 | 32 | 29 | 26 | 23 | 19 | 17 | 15 | 11 |
| 5   | 63  | 52  | 44  | 38  | 56 | 46 | 39 | 34 | 36 | 31 | 27 | 26 | 23 | 20 | 17 | 15 | 13 | 9  |
| 6   | 58  | 46  | 38  | 33  | 51 | 41 | 34 | 30 | 32 | 27 | 23 | 23 | 20 | 17 | 15 | 13 | 12 | 8  |
| 7   | 53  | 41  | 34  | 28  | 47 | 37 | 30 | 26 | 29 | 24 | 20 | 21 | 18 | 15 | 14 | 12 | 10 | 7  |
| 8   | 49  | 37  | 30  | 25  | 44 | 34 | 27 | 23 | 26 | 21 | 18 | 19 | 16 | 13 | 12 | 10 | 9  | 6  |
| 9   | 46  | 34  | 27  | 22  | 41 | 30 | 24 | 20 | 24 | 19 | 16 | 17 | 14 | 12 | 11 | 10 | 8  | 6  |
| 10  | 43  | 31  | 24  | 19  | 38 | 28 | 22 | 18 | 22 | 17 | 14 | 16 | 13 | 11 | 11 | 9  | 7  | 5  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3043 | 3043 | 3043 |
| 5°  | 3053 | 2974 | 2982 |
| 10° | 3033 | 2925 | 2923 |
| 15° | 3006 | 2869 | 2854 |
| 20° | 2965 | 2807 | 2785 |
| 25° | 2919 | 2737 | 2710 |
| 30° | 2869 | 2668 | 2634 |
| 35° | 2812 | 2597 | 2566 |
| 40° | 2768 | 2530 | 2497 |
| 45° | 2700 | 2466 | 2436 |
| 50° | 2643 | 2396 | 2373 |
| 55° | 2585 | 2328 | 2298 |
| 60° | 2493 | 2242 | 2231 |
| 65° | 2392 | 2149 | 2146 |
| 70° | 2271 | 2045 | 2049 |
| 75° | 2101 | 1926 | 1961 |
| 80° | 1913 | 1816 | 1875 |
| 85° | 1676 | 1717 | 1825 |



TEST NUMBER: P332729-940

CATALOG NUMBER: S124DIW-S350D1050U940-4F0-1E-UDD-D

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 35.7   | 0.7       |
| 10°-20°   | 102.3  | 2.0       |
| 20°-30°   | 154.6  | 3.1       |
| 30°-40°   | 187.1  | 3.7       |
| 40°-50°   | 197.8  | 3.9       |
| 50°-60°   | 186.2  | 3.7       |
| 60°-70°   | 154.4  | 3.1       |
| 70°-80°   | 108.5  | 2.2       |
| 80°-90°   | 64.8   | 1.3       |
| 90°-100°  | 77.7   | 1.5       |
| 100°-110° | 290.4  | 5.8       |
| 110°-120° | 522.0  | 10.4      |
| 120°-130° | 649.9  | 12.9      |
| 130°-140° | 688.8  | 13.7      |
| 140°-150° | 640.9  | 12.8      |
| 150°-160° | 516.1  | 10.3      |
| 160°-170° | 332.9  | 6.6       |
| 170°-180° | 114.7  | 2.3       |
| 0°-30°    | 292.6  | 5.8       |
| 0°-40°    | 479.7  | 9.5       |
| 0°-60°    | 863.6  | 17.2      |
| 0°-90°    | 1191.4 | 23.7      |
| 90°-120°  | 890.1  | 17.7      |
| 90°-150°  | 2869.7 | 57.1      |
| 90°-180°  | 3833.0 | 76.3      |
| 0°-180°   | 5024.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 377  | 377   | 377  | 377   | 377  |      |
| 5°   | 377  | 376   | 373  | 376   | 376  | 36   |
| 15°  | 362  | 362   | 361  | 364   | 364  | 102  |
| 25°  | 331  | 333   | 335  | 339   | 340  | 152  |
| 35°  | 290  | 295   | 299  | 304   | 306  | 181  |
| 45°  | 241  | 249   | 257  | 264   | 267  | 187  |
| 55°  | 189  | 198   | 211  | 219   | 222  | 168  |
| 65°  | 131  | 144   | 159  | 169   | 173  | 130  |
| 75°  | 73   | 88    | 106  | 117   | 122  | 77   |
| 85°  | 22   | 40    | 59   | 71    | 76   | 24   |
| 90°  | 10   | 36    | 62   | 79    | 84   | 7    |
| 95°  | 55   | 40    | 57   | 73    | 78   | 68   |
| 105° | 276  | 290   | 310  | 326   | 299  | 289  |
| 115° | 510  | 517   | 529  | 540   | 543  | 502  |
| 125° | 715  | 719   | 727  | 738   | 742  | 639  |
| 135° | 886  | 886   | 892  | 900   | 905  | 683  |
| 145° | 1021 | 1023  | 1024 | 1027  | 1031 | 638  |
| 155° | 1119 | 1120  | 1118 | 1121  | 1118 | 516  |
| 165° | 1181 | 1177  | 1176 | 1183  | 1175 | 334  |
| 175° | 1208 | 1203  | 1204 | 1210  | 1201 | 115  |
| 180° | 1208 | 1208  | 1208 | 1208  | 1208 |      |



TEST NUMBER: P332729-940

CATALOG NUMBER: S124DIW-S350D1050U940-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 376.9 | 376.9 | 376.9 | 376.9 | 376.9 | 376.9 | 376.9 | 376.9 | 376.9 | 376.9 | 376.9 |
| 2.5°   | 378.3 | 378.0 | 377.8 | 377.6 | 377.4 | 376.9 | 376.4 | 375.8 | 375.1 | 374.5 | 375.1 |
| 5°     | 377.4 | 377.0 | 376.7 | 376.5 | 376.2 | 375.8 | 375.1 | 374.4 | 373.8 | 373.1 | 373.9 |
| 7.5°   | 374.2 | 374.0 | 373.8 | 373.6 | 373.4 | 373.1 | 372.6 | 372.0 | 371.5 | 371.0 | 371.8 |
| 10°    | 371.4 | 371.3 | 371.2 | 371.1 | 371.0 | 370.8 | 370.3 | 369.8 | 369.3 | 368.9 | 369.7 |
| 12.5°  | 367.7 | 367.7 | 367.7 | 367.7 | 367.7 | 367.5 | 367.1 | 366.8 | 366.5 | 366.2 | 366.9 |
| 15°    | 361.7 | 361.9 | 361.9 | 362.0 | 362.1 | 362.0 | 361.7 | 361.4 | 361.1 | 360.9 | 361.7 |
| 17.5°  | 353.6 | 353.8 | 354.1 | 354.4 | 354.6 | 354.8 | 354.7 | 354.6 | 354.6 | 354.5 | 355.4 |
| 20°    | 347.8 | 348.0 | 348.4 | 348.7 | 348.9 | 349.1 | 349.2 | 349.3 | 349.4 | 349.5 | 350.4 |
| 22.5°  | 341.3 | 341.7 | 342.1 | 342.4 | 342.8 | 343.0 | 343.2 | 343.4 | 343.6 | 343.8 | 344.6 |
| 25°    | 330.9 | 331.4 | 332.1 | 332.6 | 333.1 | 333.6 | 333.9 | 334.1 | 334.4 | 334.7 | 335.7 |
| 27.5°  | 319.2 | 320.1 | 320.9 | 321.7 | 322.5 | 323.2 | 323.6 | 324.0 | 324.5 | 324.9 | 325.8 |
| 30°    | 311.5 | 312.3 | 313.0 | 313.7 | 314.5 | 315.2 | 315.8 | 316.5 | 317.2 | 317.8 | 318.9 |
| 32.5°  | 303.1 | 304.0 | 304.9 | 305.8 | 306.7 | 307.5 | 308.2 | 308.9 | 309.7 | 310.4 | 311.6 |
| 35°    | 289.5 | 290.7 | 291.8 | 292.9 | 294.1 | 295.1 | 296.0 | 296.9 | 297.9 | 298.8 | 300.1 |
| 37.5°  | 276.0 | 277.2 | 278.6 | 279.8 | 281.2 | 282.3 | 283.6 | 284.7 | 285.9 | 287.0 | 288.4 |
| 40°    | 267.2 | 268.4 | 269.7 | 270.8 | 272.1 | 273.3 | 274.6 | 276.0 | 277.2 | 278.6 | 280.0 |
| 42.5°  | 257.1 | 258.4 | 259.8 | 261.2 | 262.5 | 263.9 | 265.6 | 267.1 | 268.6 | 270.1 | 271.7 |
| 45°    | 241.4 | 243.2 | 245.0 | 246.7 | 248.5 | 250.3 | 252.1 | 253.9 | 255.7 | 257.4 | 259.0 |
| 47.5°  | 226.5 | 228.4 | 230.2 | 232.0 | 233.8 | 235.8 | 237.8 | 240.0 | 242.0 | 244.1 | 245.7 |
| 50°    | 215.7 | 217.8 | 219.8 | 221.9 | 223.9 | 226.0 | 228.1 | 230.2 | 232.2 | 234.3 | 236.1 |
| 52.5°  | 204.9 | 207.0 | 209.0 | 211.1 | 213.1 | 215.3 | 217.7 | 220.1 | 222.4 | 224.8 | 226.7 |
| 55°    | 189.1 | 191.1 | 193.1 | 195.0 | 197.0 | 199.4 | 202.2 | 205.0 | 207.8 | 210.6 | 212.5 |
| 57.5°  | 171.5 | 173.9 | 176.3 | 178.8 | 181.2 | 183.8 | 186.6 | 189.4 | 192.2 | 195.0 | 197.2 |
| 60°    | 160.0 | 162.4 | 164.9 | 167.3 | 169.7 | 172.5 | 175.6 | 178.7 | 181.7 | 184.9 | 187.0 |
| 62.5°  | 148.8 | 151.5 | 154.2 | 156.9 | 159.4 | 162.4 | 165.4 | 168.5 | 171.7 | 174.8 | 176.9 |
| 65°    | 130.8 | 133.8 | 136.9 | 139.8 | 142.9 | 146.0 | 149.1 | 152.3 | 155.5 | 158.7 | 161.0 |
| 67.5°  | 113.5 | 116.7 | 119.9 | 123.1 | 126.3 | 129.6 | 133.0 | 136.4 | 139.8 | 143.2 | 145.6 |
| 70°    | 101.7 | 104.9 | 108.1 | 111.3 | 114.5 | 117.9 | 121.5 | 125.0 | 128.6 | 132.2 | 134.6 |
| 72.5°  | 90.2  | 93.5  | 96.8  | 100.0 | 103.3 | 106.8 | 110.6 | 114.4 | 118.2 | 122.0 | 124.4 |
| 75°    | 72.6  | 76.1  | 79.5  | 83.0  | 86.5  | 90.2  | 94.2  | 98.1  | 102.0 | 105.9 | 108.6 |
| 77.5°  | 56.2  | 59.8  | 63.5  | 67.1  | 70.8  | 74.7  | 78.8  | 83.0  | 87.1  | 91.2  | 93.9  |
| 80°    | 46.0  | 49.8  | 53.5  | 57.2  | 61.0  | 64.9  | 69.1  | 73.2  | 77.3  | 81.5  | 84.3  |
| 82.5°  | 35.8  | 39.8  | 43.7  | 47.6  | 51.5  | 55.5  | 59.7  | 63.8  | 67.9  | 72.1  | 74.9  |
| 85°    | 22.4  | 26.3  | 30.2  | 34.2  | 38.2  | 42.2  | 46.5  | 50.6  | 54.8  | 59.1  | 61.9  |
| 87.5°  | 13.0  | 17.3  | 21.6  | 25.9  | 30.1  | 34.4  | 38.9  | 43.3  | 47.7  | 52.2  | 55.1  |
| 90°    | 9.5   | 15.4  | 21.4  | 27.4  | 33.3  | 39.1  | 44.8  | 50.4  | 56.0  | 61.6  | 65.6  |
| 92.5°  | 17.8  | 21.3  | 24.8  | 28.3  | 31.7  | 36.4  | 42.0  | 47.6  | 53.2  | 58.9  | 62.8  |
| 95°    | 55.2  | 51.5  | 47.7  | 44.0  | 40.2  | 40.4  | 44.5  | 48.5  | 52.5  | 56.6  | 60.4  |
| 97.5°  | 110.5 | 117.4 | 124.3 | 131.3 | 138.2 | 132.3 | 113.8 | 95.1  | 76.5  | 58.0  | 60.5  |
| 100°   | 152.8 | 158.9 | 164.9 | 170.9 | 177.0 | 168.0 | 144.0 | 119.9 | 95.9  | 71.9  | 71.0  |
| 102.5° | 200.5 | 205.3 | 210.1 | 214.9 | 219.6 | 222.0 | 222.0 | 221.9 | 221.9 | 221.9 | 187.5 |
| 105°   | 275.7 | 278.8 | 281.9 | 285.0 | 288.0 | 291.9 | 296.3 | 300.8 | 305.2 | 309.8 | 313.9 |
| 107.5° | 346.3 | 348.5 | 350.6 | 352.8 | 354.9 | 358.3 | 362.9 | 367.6 | 372.2 | 376.8 | 380.0 |
| 110°   | 393.7 | 395.6 | 397.5 | 399.4 | 401.4 | 404.6 | 409.0 | 413.5 | 418.0 | 422.5 | 425.1 |



TEST NUMBER: P332729-940

CATALOG NUMBER: S124DIW-S350D1050U940-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 439.6  | 441.8  | 444.1  | 446.3  | 448.6  | 451.6  | 455.2  | 459.0  | 462.6  | 466.4  | 468.3  |
| 115°   | 510.2  | 511.8  | 513.2  | 514.6  | 516.0  | 518.2  | 521.0  | 523.8  | 526.6  | 529.4  | 531.8  |
| 117.5° | 574.4  | 575.7  | 576.9  | 578.3  | 579.6  | 581.8  | 585.1  | 588.4  | 591.6  | 594.8  | 596.6  |
| 120°   | 617.3  | 618.5  | 619.6  | 620.6  | 621.7  | 623.5  | 626.1  | 628.6  | 631.1  | 633.6  | 635.9  |
| 122.5° | 657.8  | 658.4  | 658.9  | 659.4  | 660.0  | 661.6  | 664.5  | 667.4  | 670.2  | 673.1  | 675.2  |
| 125°   | 715.4  | 716.1  | 716.8  | 717.6  | 718.3  | 719.6  | 721.6  | 723.4  | 725.4  | 727.4  | 729.8  |
| 127.5° | 770.3  | 770.3  | 770.4  | 770.6  | 770.7  | 772.1  | 774.8  | 777.6  | 780.2  | 783.0  | 784.6  |
| 130°   | 805.3  | 805.5  | 805.6  | 805.7  | 805.7  | 806.9  | 809.0  | 811.1  | 813.2  | 815.3  | 817.2  |
| 132.5° | 837.9  | 838.1  | 838.4  | 838.7  | 838.9  | 840.1  | 842.0  | 844.0  | 846.0  | 847.9  | 849.7  |
| 135°   | 886.3  | 886.0  | 885.8  | 885.6  | 885.5  | 886.1  | 887.5  | 888.9  | 890.5  | 891.9  | 893.8  |
| 137.5° | 929.4  | 929.4  | 929.4  | 929.3  | 929.3  | 930.0  | 931.1  | 932.4  | 933.5  | 934.8  | 936.6  |
| 140°   | 957.6  | 957.9  | 958.2  | 958.5  | 958.9  | 959.2  | 959.7  | 960.2  | 960.7  | 961.3  | 963.0  |
| 142.5° | 982.6  | 983.3  | 984.0  | 984.7  | 985.3  | 985.8  | 986.1  | 986.2  | 986.4  | 986.6  | 988.1  |
| 145°   | 1021.4 | 1021.8 | 1022.3 | 1022.9 | 1023.3 | 1023.6 | 1023.6 | 1023.6 | 1023.6 | 1023.6 | 1024.4 |
| 147.5° | 1052.2 | 1053.3 | 1054.3 | 1055.3 | 1056.3 | 1056.8 | 1056.6 | 1056.4 | 1056.1 | 1056.0 | 1056.2 |
| 150°   | 1074.6 | 1075.3 | 1076.0 | 1076.7 | 1077.5 | 1077.7 | 1077.5 | 1077.4 | 1077.1 | 1076.9 | 1076.9 |
| 152.5° | 1093.1 | 1093.7 | 1094.3 | 1094.9 | 1095.6 | 1095.7 | 1095.4 | 1095.0 | 1094.7 | 1094.3 | 1094.6 |
| 155°   | 1119.4 | 1119.6 | 1119.8 | 1120.0 | 1120.2 | 1120.0 | 1119.4 | 1118.8 | 1118.2 | 1117.6 | 1118.4 |
| 157.5° | 1141.7 | 1141.5 | 1141.4 | 1141.2 | 1141.1 | 1140.8 | 1140.1 | 1139.3 | 1138.7 | 1138.0 | 1139.1 |
| 160°   | 1154.6 | 1154.1 | 1153.4 | 1152.8 | 1152.2 | 1151.8 | 1151.6 | 1151.4 | 1151.2 | 1151.0 | 1152.2 |
| 162.5° | 1166.2 | 1165.5 | 1164.7 | 1163.9 | 1163.1 | 1162.6 | 1162.4 | 1162.3 | 1162.1 | 1161.8 | 1163.1 |
| 165°   | 1180.8 | 1179.8 | 1178.8 | 1177.8 | 1176.8 | 1176.3 | 1176.3 | 1176.3 | 1176.3 | 1176.3 | 1177.9 |
| 167.5° | 1192.4 | 1191.3 | 1190.3 | 1189.3 | 1188.2 | 1187.7 | 1187.5 | 1187.4 | 1187.3 | 1187.1 | 1188.9 |
| 170°   | 1198.9 | 1197.7 | 1196.5 | 1195.2 | 1194.1 | 1193.6 | 1193.7 | 1194.0 | 1194.2 | 1194.4 | 1196.0 |
| 172.5° | 1203.2 | 1202.0 | 1200.8 | 1199.6 | 1198.4 | 1197.9 | 1198.1 | 1198.3 | 1198.5 | 1198.7 | 1200.3 |
| 175°   | 1207.9 | 1206.8 | 1205.5 | 1204.3 | 1203.1 | 1202.7 | 1202.8 | 1203.0 | 1203.2 | 1203.5 | 1205.2 |
| 177.5° | 1210.1 | 1209.0 | 1207.8 | 1206.8 | 1205.6 | 1205.2 | 1205.5 | 1205.9 | 1206.1 | 1206.5 | 1207.7 |
| 180°   | 1207.9 | 1207.9 | 1207.9 | 1207.9 | 1207.9 | 1207.9 | 1207.9 | 1207.9 | 1207.9 | 1207.9 | 1207.9 |



TEST NUMBER: P332729-940

CATALOG NUMBER: S124DIW-S350D1050U940-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 376.9 | 376.9 | 376.9 | 376.9 | 376.9 | 376.9 | 376.9 | 376.9 |
| 2.5°   | 375.6 | 376.1 | 376.7 | 376.8 | 376.8 | 376.7 | 376.7 | 376.6 |
| 5°     | 374.6 | 375.3 | 376.1 | 376.5 | 376.4 | 376.2 | 376.1 | 376.0 |
| 7.5°   | 372.6 | 373.4 | 374.3 | 374.7 | 374.6 | 374.5 | 374.4 | 374.3 |
| 10°    | 370.6 | 371.4 | 372.3 | 372.6 | 372.6 | 372.5 | 372.4 | 372.3 |
| 12.5°  | 367.7 | 368.5 | 369.3 | 369.6 | 369.6 | 369.6 | 369.6 | 369.5 |
| 15°    | 362.6 | 363.4 | 364.3 | 364.6 | 364.5 | 364.4 | 364.4 | 364.3 |
| 17.5°  | 356.2 | 357.1 | 358.0 | 358.4 | 358.3 | 358.2 | 358.2 | 358.1 |
| 20°    | 351.3 | 352.3 | 353.2 | 353.7 | 353.7 | 353.7 | 353.7 | 353.7 |
| 22.5°  | 345.6 | 346.5 | 347.5 | 348.0 | 348.2 | 348.3 | 348.5 | 348.7 |
| 25°    | 336.8 | 337.8 | 338.9 | 339.4 | 339.5 | 339.6 | 339.7 | 339.7 |
| 27.5°  | 326.8 | 327.8 | 328.8 | 329.3 | 329.4 | 329.5 | 329.6 | 329.8 |
| 30°    | 319.9 | 320.9 | 321.9 | 322.5 | 322.7 | 323.0 | 323.2 | 323.3 |
| 32.5°  | 312.7 | 314.0 | 315.1 | 315.8 | 316.0 | 316.2 | 316.4 | 316.6 |
| 35°    | 301.5 | 302.7 | 304.1 | 304.9 | 305.1 | 305.4 | 305.8 | 306.0 |
| 37.5°  | 289.7 | 291.0 | 292.3 | 293.2 | 293.5 | 293.7 | 294.1 | 294.4 |
| 40°    | 281.4 | 282.8 | 284.2 | 285.1 | 285.4 | 285.9 | 286.2 | 286.6 |
| 42.5°  | 273.2 | 274.8 | 276.3 | 277.3 | 277.6 | 277.9 | 278.2 | 278.5 |
| 45°    | 260.6 | 262.3 | 263.9 | 264.8 | 265.4 | 265.8 | 266.3 | 266.7 |
| 47.5°  | 247.4 | 249.0 | 250.7 | 251.7 | 252.4 | 252.9 | 253.4 | 254.0 |
| 50°    | 238.0 | 239.9 | 241.7 | 243.0 | 243.5 | 244.1 | 244.7 | 245.2 |
| 52.5°  | 228.5 | 230.4 | 232.3 | 233.5 | 234.1 | 234.6 | 235.2 | 235.8 |
| 55°    | 214.4 | 216.2 | 218.1 | 219.4 | 219.9 | 220.4 | 221.1 | 221.6 |
| 57.5°  | 199.5 | 201.7 | 203.9 | 205.3 | 205.8 | 206.3 | 206.9 | 207.4 |
| 60°    | 189.2 | 191.4 | 193.5 | 194.9 | 195.7 | 196.4 | 197.2 | 198.0 |
| 62.5°  | 179.1 | 181.2 | 183.3 | 184.9 | 185.6 | 186.3 | 187.1 | 187.8 |
| 65°    | 163.4 | 165.8 | 168.1 | 169.6 | 170.4 | 171.1 | 171.9 | 172.6 |
| 67.5°  | 148.0 | 150.4 | 152.8 | 154.4 | 155.1 | 155.8 | 156.5 | 157.3 |
| 70°    | 137.1 | 139.7 | 142.2 | 143.8 | 144.5 | 145.2 | 145.8 | 146.4 |
| 72.5°  | 126.9 | 129.4 | 131.8 | 133.4 | 134.1 | 134.8 | 135.6 | 136.3 |
| 75°    | 111.2 | 113.8 | 116.5 | 118.2 | 119.0 | 119.8 | 120.7 | 121.5 |
| 77.5°  | 96.6  | 99.2  | 101.9 | 103.7 | 104.6 | 105.5 | 106.4 | 107.3 |
| 80°    | 87.1  | 89.9  | 92.7  | 94.5  | 95.2  | 96.0  | 96.8  | 97.5  |
| 82.5°  | 77.8  | 80.7  | 83.6  | 85.4  | 86.2  | 87.0  | 87.9  | 88.7  |
| 85°    | 64.7  | 67.5  | 70.4  | 72.2  | 73.1  | 74.1  | 75.0  | 76.0  |
| 87.5°  | 58.1  | 61.1  | 64.0  | 66.0  | 66.9  | 67.8  | 68.7  | 69.6  |
| 90°    | 69.6  | 73.5  | 77.4  | 79.9  | 81.1  | 82.2  | 83.4  | 84.5  |
| 92.5°  | 66.6  | 70.4  | 74.3  | 76.7  | 77.5  | 78.3  | 79.2  | 80.0  |
| 95°    | 64.1  | 67.8  | 71.5  | 73.9  | 75.0  | 76.1  | 77.0  | 78.1  |
| 97.5°  | 63.1  | 65.7  | 68.3  | 70.1  | 71.1  | 72.1  | 73.1  | 74.1  |
| 100°   | 70.1  | 69.2  | 68.3  | 68.3  | 69.2  | 70.0  | 70.9  | 71.7  |
| 102.5° | 153.2 | 118.9 | 84.4  | 67.7  | 68.5  | 69.2  | 70.0  | 70.8  |
| 105°   | 318.1 | 322.2 | 326.4 | 325.2 | 318.7 | 312.2 | 305.8 | 299.3 |
| 107.5° | 383.3 | 386.5 | 389.6 | 391.9 | 393.3 | 394.8 | 396.3 | 397.7 |
| 110°   | 427.6 | 430.2 | 432.7 | 434.7 | 436.0 | 437.4 | 438.7 | 440.1 |





TEST NUMBER: P332729-940

CATALOG NUMBER: S124DIW-S350D1050U940-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 470.4  | 472.3  | 474.3  | 476.1  | 477.6  | 479.1  | 480.6  | 482.1  |
| 115°   | 534.3  | 536.8  | 539.2  | 540.8  | 541.4  | 542.2  | 542.8  | 543.4  |
| 117.5° | 598.5  | 600.4  | 602.3  | 603.5  | 604.2  | 604.8  | 605.6  | 606.3  |
| 120°   | 638.1  | 640.4  | 642.7  | 644.0  | 644.4  | 644.7  | 645.1  | 645.4  |
| 122.5° | 677.3  | 679.5  | 681.5  | 682.8  | 683.1  | 683.3  | 683.6  | 683.9  |
| 125°   | 732.1  | 734.5  | 736.9  | 738.5  | 739.2  | 740.0  | 740.7  | 741.5  |
| 127.5° | 786.1  | 787.7  | 789.3  | 790.3  | 790.8  | 791.2  | 791.8  | 792.2  |
| 130°   | 819.0  | 821.0  | 822.9  | 824.0  | 824.7  | 825.2  | 825.7  | 826.3  |
| 132.5° | 851.6  | 853.4  | 855.2  | 856.3  | 856.7  | 857.1  | 857.5  | 857.9  |
| 135°   | 895.7  | 897.6  | 899.5  | 901.0  | 901.9  | 902.9  | 903.8  | 904.8  |
| 137.5° | 938.4  | 940.2  | 942.0  | 943.1  | 943.4  | 943.8  | 944.1  | 944.5  |
| 140°   | 964.8  | 966.7  | 968.5  | 969.7  | 970.4  | 971.1  | 971.8  | 972.4  |
| 142.5° | 989.6  | 991.1  | 992.7  | 993.5  | 994.0  | 994.4  | 994.9  | 995.3  |
| 145°   | 1025.1 | 1025.9 | 1026.7 | 1027.4 | 1028.2 | 1029.0 | 1029.7 | 1030.6 |
| 147.5° | 1056.4 | 1056.7 | 1056.9 | 1057.3 | 1057.7 | 1058.3 | 1058.8 | 1059.3 |
| 150°   | 1076.9 | 1076.9 | 1076.9 | 1077.0 | 1077.2 | 1077.5 | 1077.6 | 1077.8 |
| 152.5° | 1094.9 | 1095.2 | 1095.6 | 1095.6 | 1095.6 | 1095.4 | 1095.3 | 1095.2 |
| 155°   | 1119.2 | 1120.0 | 1120.8 | 1120.9 | 1120.3 | 1119.7 | 1119.1 | 1118.5 |
| 157.5° | 1140.1 | 1141.1 | 1142.2 | 1142.2 | 1141.1 | 1140.1 | 1139.1 | 1138.0 |
| 160°   | 1153.4 | 1154.6 | 1155.8 | 1155.8 | 1154.6 | 1153.4 | 1152.2 | 1151.0 |
| 162.5° | 1164.2 | 1165.5 | 1166.6 | 1166.6 | 1165.2 | 1163.9 | 1162.5 | 1161.1 |
| 165°   | 1179.6 | 1181.2 | 1182.8 | 1182.6 | 1180.8 | 1179.0 | 1177.2 | 1175.4 |
| 167.5° | 1190.7 | 1192.5 | 1194.2 | 1194.1 | 1192.1 | 1190.1 | 1188.1 | 1186.1 |
| 170°   | 1197.6 | 1199.2 | 1200.8 | 1200.6 | 1198.5 | 1196.6 | 1194.5 | 1192.6 |
| 172.5° | 1201.9 | 1203.5 | 1205.1 | 1204.9 | 1202.7 | 1200.5 | 1198.4 | 1196.1 |
| 175°   | 1207.0 | 1208.8 | 1210.7 | 1210.3 | 1207.9 | 1205.5 | 1203.1 | 1200.7 |
| 177.5° | 1209.1 | 1210.3 | 1211.7 | 1211.3 | 1209.3 | 1207.5 | 1205.5 | 1203.6 |
| 180°   | 1207.9 | 1207.9 | 1207.9 | 1207.9 | 1207.9 | 1207.9 | 1207.9 | 1207.9 |

(END OF REPORT)