

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: P331423

Luminaire Tested: **S122DIP-S1005D330U835-4F0-1E-UDD-D**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331423  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122DIP-S1005D330U835-4F0-1E-UDD-D  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1005 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 330 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5344.8 lumens  
Efficiency: N/A  
Efficacy: 107.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.42  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.08')  
CIE Type: Semi-Direct

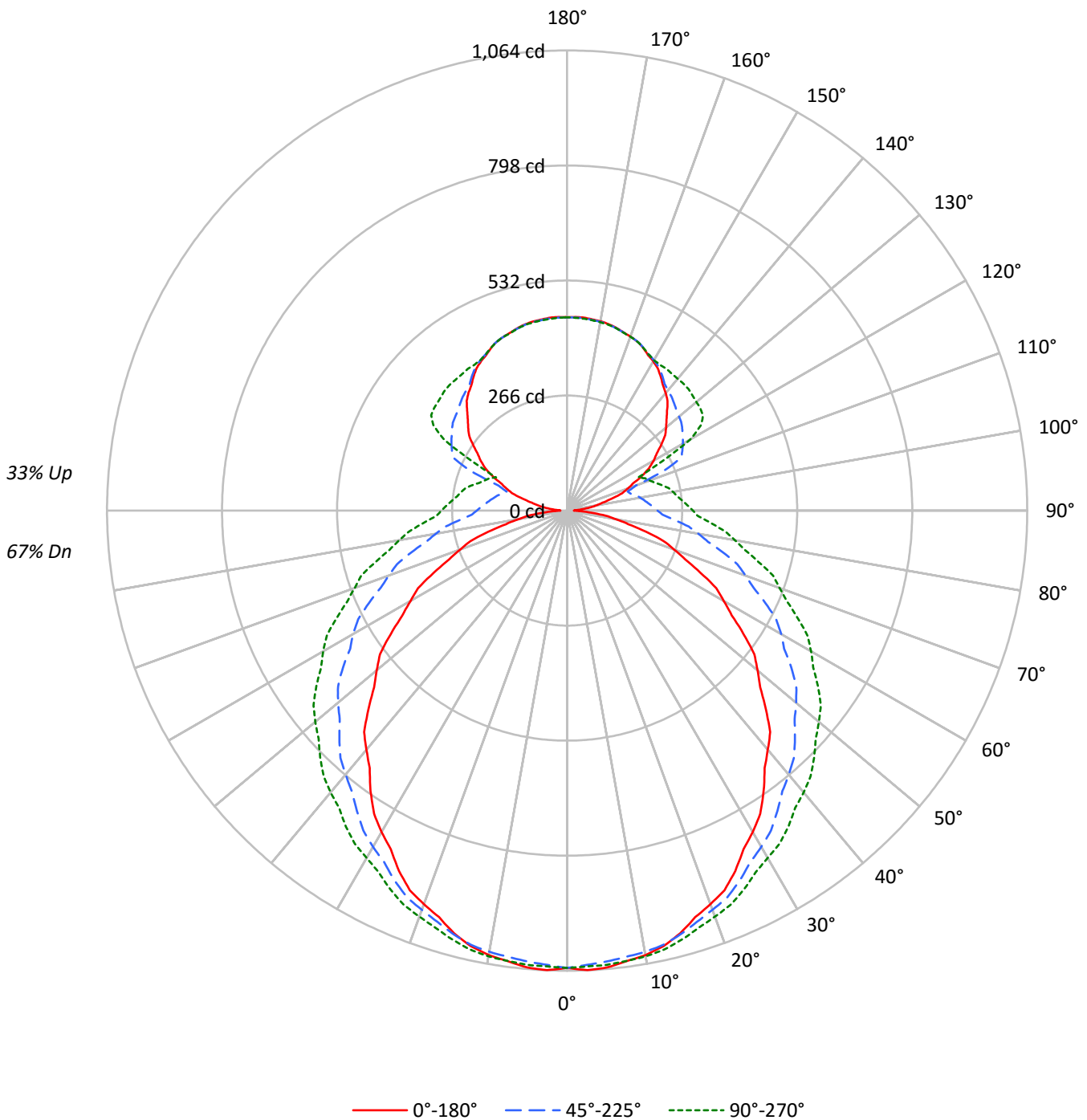
Input Watts (W): 49.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331423

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### Luminous Intensity Polar Plot





TEST NUMBER: P331423

CATALOG NUMBER: S122DIP-S1005D330U835-4F0-1E-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   | 111 | 111 | 111 | 111 | 105 | 105 | 105 | 105 | 93 | 93 | 93 | 82 | 82 | 82 | 72 | 72 | 72 | 67 |
| 1   | 100 | 94  | 90  | 85  | 93  | 89  | 85  | 81  | 78 | 75 | 72 | 69 | 67 | 64 | 60 | 58 | 57 | 52 |
| 2   | 90  | 81  | 74  | 68  | 84  | 77  | 70  | 65  | 68 | 63 | 58 | 59 | 56 | 52 | 52 | 49 | 46 | 42 |
| 3   | 82  | 71  | 62  | 56  | 76  | 67  | 59  | 53  | 59 | 53 | 48 | 52 | 47 | 43 | 45 | 42 | 38 | 35 |
| 4   | 74  | 62  | 53  | 47  | 70  | 59  | 51  | 45  | 52 | 46 | 40 | 46 | 41 | 36 | 40 | 36 | 33 | 29 |
| 5   | 68  | 55  | 46  | 40  | 64  | 52  | 44  | 38  | 46 | 40 | 35 | 41 | 36 | 31 | 36 | 32 | 28 | 25 |
| 6   | 63  | 50  | 41  | 34  | 59  | 47  | 39  | 33  | 42 | 35 | 30 | 37 | 31 | 27 | 33 | 28 | 25 | 22 |
| 7   | 58  | 45  | 36  | 30  | 54  | 42  | 34  | 29  | 38 | 31 | 26 | 34 | 28 | 24 | 30 | 25 | 22 | 19 |
| 8   | 54  | 41  | 32  | 26  | 50  | 38  | 31  | 25  | 34 | 28 | 23 | 31 | 25 | 21 | 27 | 23 | 19 | 17 |
| 9   | 50  | 37  | 29  | 24  | 47  | 35  | 28  | 23  | 32 | 25 | 21 | 28 | 23 | 19 | 25 | 21 | 17 | 15 |
| 10  | 47  | 34  | 26  | 21  | 44  | 32  | 25  | 20  | 29 | 23 | 19 | 26 | 21 | 17 | 23 | 19 | 16 | 14 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 17073 | 17073 | 17073 |
| 5°  | 17157 | 16435 | 16373 |
| 10° | 17049 | 15949 | 15770 |
| 15° | 16814 | 15435 | 15136 |
| 20° | 16517 | 14884 | 14525 |
| 25° | 16223 | 14353 | 13970 |
| 30° | 15810 | 13808 | 13414 |
| 35° | 15392 | 13280 | 13021 |
| 40° | 14952 | 12831 | 12629 |
| 45° | 14535 | 12429 | 12294 |
| 50° | 14086 | 12066 | 11964 |
| 55° | 13616 | 11675 | 11627 |
| 60° | 13040 | 11269 | 11271 |
| 65° | 12441 | 10795 | 10850 |
| 70° | 11770 | 10285 | 10393 |
| 75° | 10911 | 9784  | 9973  |
| 80° | 9555  | 9272  | 9549  |
| 85° | 8259  | 8830  | 9217  |



TEST NUMBER: P331423

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 100.2  | 1.9       |
| 10°-20°   | 287.3  | 5.4       |
| 20°-30°   | 435.4  | 8.1       |
| 30°-40°   | 530.3  | 9.9       |
| 40°-50°   | 570.5  | 10.7      |
| 50°-60°   | 554.1  | 10.4      |
| 60°-70°   | 483.8  | 9.1       |
| 70°-80°   | 372.4  | 7.0       |
| 80°-90°   | 251.1  | 4.7       |
| 90°-100°  | 187.1  | 3.5       |
| 100°-110° | 180.4  | 3.4       |
| 110°-120° | 229.2  | 4.3       |
| 120°-130° | 287.5  | 5.4       |
| 130°-140° | 275.9  | 5.2       |
| 140°-150° | 241.8  | 4.5       |
| 150°-160° | 191.7  | 3.6       |
| 160°-170° | 123.5  | 2.3       |
| 170°-180° | 42.5   | 0.8       |
| 0°-30°    | 822.9  | 15.4      |
| 0°-40°    | 1353.3 | 25.3      |
| 0°-60°    | 2477.9 | 46.4      |
| 0°-90°    | 3585.2 | 67.1      |
| 90°-120°  | 596.7  | 11.2      |
| 90°-150°  | 1401.9 | 26.2      |
| 90°-180°  | 1760.0 | 32.9      |
| 0°-180°   | 5344.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1057 | 1057  | 1057 | 1057  | 1057 |      |
| 5°   | 1060 | 1056  | 1047 | 1055  | 1054 | 101  |
| 15°  | 1012 | 1014  | 1014 | 1028  | 1027 | 285  |
| 25°  | 920  | 930   | 944  | 962   | 967  | 423  |
| 35°  | 792  | 819   | 848  | 880   | 892  | 495  |
| 45°  | 650  | 692   | 745  | 790   | 808  | 501  |
| 55°  | 498  | 555   | 633  | 686   | 708  | 445  |
| 65°  | 340  | 416   | 506  | 566   | 588  | 338  |
| 75°  | 188  | 275   | 372  | 436   | 458  | 199  |
| 85°  | 55   | 150   | 248  | 310   | 334  | 59   |
| 90°  | 16   | 109   | 209  | 269   | 291  | 11   |
| 95°  | 33   | 96    | 189  | 246   | 267  | 35   |
| 105° | 106  | 157   | 152  | 207   | 227  | 114  |
| 115° | 192  | 217   | 291  | 193   | 181  | 189  |
| 125° | 266  | 273   | 325  | 367   | 384  | 238  |
| 135° | 327  | 333   | 350  | 384   | 397  | 253  |
| 145° | 377  | 377   | 382  | 394   | 400  | 236  |
| 155° | 416  | 413   | 416  | 418   | 416  | 191  |
| 165° | 438  | 436   | 437  | 439   | 437  | 124  |
| 175° | 448  | 446   | 446  | 448   | 445  | 43   |
| 180° | 447  | 447   | 447  | 447   | 447  |      |



TEST NUMBER: P331423

CATALOG NUMBER: S122DIP-S1005D330U835-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1057.4 | 1057.4 | 1057.4 | 1057.4 | 1057.4 | 1057.4 | 1057.4 | 1057.4 | 1057.4 | 1057.4 | 1057.4 |
| 2.5°   | 1063.6 | 1062.8 | 1061.9 | 1061.1 | 1060.3 | 1058.9 | 1057.0 | 1055.1 | 1053.2 | 1051.3 | 1052.7 |
| 5°     | 1060.5 | 1059.5 | 1058.5 | 1057.4 | 1056.4 | 1054.9 | 1052.9 | 1050.8 | 1048.8 | 1046.7 | 1048.8 |
| 7.5°   | 1051.0 | 1050.3 | 1049.6 | 1049.0 | 1048.3 | 1047.2 | 1045.6 | 1044.0 | 1042.5 | 1040.9 | 1043.3 |
| 10°    | 1043.7 | 1043.0 | 1042.3 | 1041.6 | 1040.9 | 1040.1 | 1039.1 | 1038.0 | 1037.0 | 1036.0 | 1038.7 |
| 12.5°  | 1031.4 | 1031.5 | 1031.7 | 1031.8 | 1031.9 | 1031.6 | 1030.9 | 1030.1 | 1029.4 | 1028.6 | 1031.4 |
| 15°    | 1011.5 | 1012.2 | 1012.8 | 1013.5 | 1014.2 | 1014.5 | 1014.5 | 1014.5 | 1014.5 | 1014.5 | 1017.6 |
| 17.5°  | 985.7  | 987.2  | 988.6  | 990.0  | 991.4  | 992.7  | 993.8  | 994.9  | 996.0  | 997.1  | 1000.3 |
| 20°    | 968.6  | 970.3  | 972.0  | 973.7  | 975.4  | 976.9  | 978.3  | 979.6  | 981.0  | 982.4  | 986.1  |
| 22.5°  | 950.2  | 952.1  | 954.1  | 956.1  | 958.1  | 960.0  | 961.9  | 963.8  | 965.7  | 967.6  | 971.4  |
| 25°    | 919.5  | 921.9  | 924.3  | 926.7  | 929.1  | 931.8  | 934.8  | 937.9  | 941.0  | 944.0  | 948.1  |
| 27.5°  | 882.7  | 886.6  | 890.5  | 894.4  | 898.3  | 902.0  | 905.6  | 909.2  | 912.8  | 916.5  | 921.6  |
| 30°    | 858.2  | 862.6  | 867.1  | 871.5  | 875.9  | 880.4  | 884.8  | 889.2  | 893.6  | 898.1  | 903.5  |
| 32.5°  | 831.2  | 836.2  | 841.2  | 846.2  | 851.1  | 856.2  | 861.5  | 866.7  | 872.0  | 877.2  | 883.5  |
| 35°    | 792.3  | 798.1  | 803.9  | 809.7  | 815.5  | 821.6  | 828.1  | 834.5  | 841.0  | 847.5  | 855.0  |
| 37.5°  | 750.0  | 756.7  | 763.4  | 770.0  | 776.7  | 784.2  | 792.6  | 801.0  | 809.4  | 817.8  | 826.1  |
| 40°    | 721.8  | 729.3  | 736.8  | 744.3  | 751.8  | 760.1  | 769.3  | 778.5  | 787.7  | 796.9  | 805.8  |
| 42.5°  | 694.9  | 702.3  | 709.8  | 717.3  | 724.8  | 733.8  | 744.4  | 755.0  | 765.5  | 776.1  | 785.7  |
| 45°    | 649.8  | 659.0  | 668.2  | 677.4  | 686.6  | 697.1  | 709.1  | 721.0  | 732.9  | 744.8  | 755.4  |
| 47.5°  | 605.4  | 615.4  | 625.4  | 635.4  | 645.4  | 657.4  | 671.4  | 685.3  | 699.3  | 713.2  | 724.3  |
| 50°    | 574.7  | 585.3  | 595.8  | 606.4  | 616.9  | 629.9  | 645.2  | 660.5  | 675.8  | 691.2  | 702.8  |
| 52.5°  | 545.3  | 556.4  | 567.5  | 578.6  | 589.7  | 603.3  | 619.4  | 635.6  | 651.7  | 667.9  | 679.7  |
| 55°    | 498.1  | 510.3  | 522.6  | 534.9  | 547.1  | 562.1  | 579.8  | 597.5  | 615.2  | 632.9  | 645.2  |
| 57.5°  | 451.5  | 465.3  | 479.1  | 493.0  | 506.8  | 522.7  | 540.8  | 558.8  | 576.9  | 594.9  | 608.1  |
| 60°    | 418.4  | 433.0  | 447.7  | 462.3  | 477.0  | 494.0  | 513.4  | 532.8  | 552.2  | 571.6  | 584.6  |
| 62.5°  | 389.0  | 404.1  | 419.3  | 434.5  | 449.7  | 467.0  | 486.4  | 505.8  | 525.3  | 544.7  | 558.4  |
| 65°    | 340.2  | 356.9  | 373.6  | 390.3  | 407.0  | 425.4  | 445.5  | 465.5  | 485.6  | 505.7  | 519.7  |
| 67.5°  | 295.5  | 312.9  | 330.3  | 347.8  | 365.2  | 384.2  | 404.8  | 425.4  | 445.9  | 466.5  | 480.6  |
| 70°    | 263.6  | 281.3  | 299.0  | 316.7  | 334.4  | 353.8  | 375.0  | 396.1  | 417.2  | 438.3  | 452.9  |
| 72.5°  | 234.2  | 252.4  | 270.7  | 288.9  | 307.2  | 327.0  | 348.4  | 369.8  | 391.2  | 412.6  | 426.9  |
| 75°    | 188.5  | 207.6  | 226.6  | 245.7  | 264.8  | 285.2  | 307.0  | 328.8  | 350.6  | 372.4  | 387.0  |
| 77.5°  | 144.4  | 164.3  | 184.3  | 204.2  | 224.2  | 245.2  | 267.4  | 289.5  | 311.6  | 333.8  | 348.4  |
| 80°    | 114.9  | 135.7  | 156.5  | 177.3  | 198.0  | 219.5  | 241.6  | 263.8  | 285.9  | 308.0  | 322.3  |
| 82.5°  | 90.4   | 110.9  | 131.4  | 151.9  | 172.4  | 193.9  | 216.3  | 238.7  | 261.1  | 283.5  | 297.8  |
| 85°    | 55.2   | 76.3   | 97.4   | 118.5  | 139.6  | 161.1  | 182.9  | 204.7  | 226.5  | 248.3  | 262.6  |
| 87.5°  | 30.1   | 50.6   | 71.0   | 91.5   | 111.9  | 133.1  | 155.0  | 176.9  | 198.8  | 220.8  | 234.7  |
| 90°    | 15.6   | 36.2   | 56.7   | 77.3   | 97.8   | 119.3  | 141.6  | 164.0  | 186.4  | 208.8  | 222.7  |
| 92.5°  | 20.6   | 38.9   | 57.3   | 75.6   | 93.9   | 113.7  | 135.0  | 156.2  | 177.5  | 198.8  | 212.3  |
| 95°    | 33.3   | 46.9   | 60.5   | 74.2   | 87.8   | 105.1  | 126.0  | 147.0  | 167.9  | 188.9  | 202.2  |
| 97.5°  | 52.4   | 60.0   | 67.5   | 75.1   | 82.7   | 96.8   | 117.6  | 138.4  | 159.2  | 179.9  | 192.8  |
| 100°   | 68.0   | 70.7   | 73.5   | 76.2   | 79.0   | 90.5   | 110.8  | 131.1  | 151.4  | 171.7  | 184.9  |
| 102.5° | 83.8   | 93.2   | 102.7  | 112.1  | 121.5  | 130.4  | 138.7  | 147.0  | 155.3  | 163.6  | 176.7  |
| 105°   | 106.0  | 118.0  | 130.0  | 142.1  | 154.1  | 159.1  | 157.2  | 155.3  | 153.4  | 151.5  | 164.2  |
| 107.5° | 133.0  | 142.6  | 152.3  | 161.9  | 171.6  | 173.1  | 166.5  | 160.0  | 153.4  | 146.8  | 157.5  |
| 110°   | 149.4  | 157.7  | 166.0  | 174.3  | 182.6  | 184.8  | 180.7  | 176.6  | 172.5  | 168.5  | 172.2  |



TEST NUMBER: P331423

CATALOG NUMBER: S122DIP-S1005D330U835-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 165.9 | 173.0 | 180.0 | 187.1 | 194.2 | 203.0 | 213.8 | 224.5 | 235.3 | 246.0 | 230.7 |
| 115°   | 192.0 | 197.0 | 202.0 | 206.9 | 211.9 | 223.0 | 240.1 | 257.2 | 274.3 | 291.4 | 268.4 |
| 117.5° | 213.9 | 217.7 | 221.5 | 225.3 | 229.1 | 238.7 | 254.1 | 269.5 | 284.9 | 300.3 | 302.4 |
| 120°   | 230.9 | 233.4 | 235.8 | 238.2 | 240.7 | 249.4 | 264.3 | 279.2 | 294.1 | 309.0 | 319.4 |
| 122.5° | 245.4 | 247.1 | 248.8 | 250.5 | 252.1 | 260.1 | 274.3 | 288.5 | 302.7 | 316.9 | 326.7 |
| 125°   | 265.9 | 266.9 | 267.8 | 268.7 | 269.7 | 276.3 | 288.5 | 300.8 | 313.1 | 325.3 | 335.0 |
| 127.5° | 285.9 | 286.6 | 287.3 | 288.0 | 288.7 | 293.9 | 303.7 | 313.6 | 323.4 | 333.2 | 342.3 |
| 130°   | 298.6 | 299.4 | 300.2 | 301.0 | 301.8 | 306.2 | 314.1 | 322.1 | 330.0 | 338.0 | 346.9 |
| 132.5° | 311.5 | 312.2 | 312.8 | 313.4 | 314.1 | 317.5 | 323.8 | 330.2 | 336.5 | 342.8 | 351.3 |
| 135°   | 326.8 | 328.0 | 329.1 | 330.3 | 331.4 | 334.0 | 338.1 | 342.1 | 346.2 | 350.2 | 358.1 |
| 137.5° | 343.8 | 344.5 | 345.3 | 346.0 | 346.8 | 348.2 | 350.5 | 352.7 | 354.9 | 357.2 | 364.1 |
| 140°   | 354.9 | 355.2 | 355.4 | 355.6 | 355.9 | 356.7 | 358.2 | 359.7 | 361.1 | 362.6 | 368.7 |
| 142.5° | 364.2 | 364.4 | 364.6 | 364.8 | 365.0 | 365.6 | 366.6 | 367.6 | 368.7 | 369.7 | 374.7 |
| 145°   | 377.3 | 377.3 | 377.2 | 377.1 | 377.0 | 377.6 | 378.8 | 380.1 | 381.3 | 382.5 | 385.0 |
| 147.5° | 390.1 | 389.8 | 389.5 | 389.2 | 389.0 | 389.4 | 390.6 | 391.9 | 393.1 | 394.3 | 394.9 |
| 150°   | 398.3 | 397.8 | 397.3 | 396.8 | 396.3 | 396.7 | 397.8 | 399.0 | 400.1 | 401.3 | 401.7 |
| 152.5° | 405.3 | 404.8 | 404.2 | 403.6 | 403.1 | 403.3 | 404.4 | 405.5 | 406.6 | 407.7 | 408.1 |
| 155°   | 415.5 | 414.8 | 414.2 | 413.5 | 412.9 | 413.0 | 413.9 | 414.7 | 415.6 | 416.4 | 416.9 |
| 157.5° | 423.4 | 422.9 | 422.3 | 421.8 | 421.2 | 421.3 | 421.9 | 422.5 | 423.1 | 423.7 | 424.2 |
| 160°   | 428.1 | 427.7 | 427.2 | 426.8 | 426.4 | 426.4 | 426.8 | 427.2 | 427.7 | 428.1 | 428.5 |
| 162.5° | 432.2 | 431.8 | 431.4 | 430.9 | 430.5 | 430.5 | 430.8 | 431.2 | 431.6 | 432.0 | 432.5 |
| 165°   | 437.8 | 437.4 | 436.9 | 436.5 | 436.1 | 436.0 | 436.2 | 436.4 | 436.6 | 436.8 | 437.3 |
| 167.5° | 441.9 | 441.5 | 441.1 | 440.6 | 440.2 | 440.1 | 440.3 | 440.5 | 440.7 | 440.9 | 441.4 |
| 170°   | 444.3 | 443.8 | 443.4 | 443.0 | 442.5 | 442.4 | 442.5 | 442.7 | 442.8 | 443.0 | 443.5 |
| 172.5° | 445.8 | 445.4 | 444.9 | 444.5 | 444.1 | 443.9 | 444.1 | 444.2 | 444.4 | 444.5 | 445.0 |
| 175°   | 447.8 | 447.3 | 446.8 | 446.3 | 445.8 | 445.6 | 445.8 | 445.9 | 446.1 | 446.2 | 446.7 |
| 177.5° | 448.1 | 447.7 | 447.3 | 446.9 | 446.5 | 446.4 | 446.4 | 446.5 | 446.5 | 446.6 | 447.0 |
| 180°   | 446.8 | 446.8 | 446.8 | 446.8 | 446.8 | 446.8 | 446.8 | 446.8 | 446.8 | 446.8 | 446.8 |



TEST NUMBER: P331423

CATALOG NUMBER: S122DIP-S1005D330U835-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1057.4 | 1057.4 | 1057.4 | 1057.4 | 1057.4 | 1057.4 | 1057.4 | 1057.4 |
| 2.5°   | 1054.0 | 1055.4 | 1056.8 | 1057.2 | 1056.6 | 1056.1 | 1055.5 | 1055.0 |
| 5°     | 1050.8 | 1052.9 | 1054.9 | 1055.7 | 1055.4 | 1055.1 | 1054.7 | 1054.4 |
| 7.5°   | 1045.8 | 1048.3 | 1050.7 | 1051.8 | 1051.4 | 1051.1 | 1050.7 | 1050.4 |
| 10°    | 1041.4 | 1044.2 | 1046.9 | 1048.1 | 1047.7 | 1047.4 | 1047.1 | 1046.7 |
| 12.5°  | 1034.1 | 1036.8 | 1039.5 | 1040.7 | 1040.4 | 1040.0 | 1039.7 | 1039.4 |
| 15°    | 1020.7 | 1023.7 | 1026.8 | 1028.2 | 1027.8 | 1027.5 | 1027.1 | 1026.8 |
| 17.5°  | 1003.5 | 1006.7 | 1009.9 | 1011.5 | 1011.5 | 1011.5 | 1011.5 | 1011.5 |
| 20°    | 989.8  | 993.6  | 997.3  | 999.2  | 999.2  | 999.2  | 999.2  | 999.2  |
| 22.5°  | 975.1  | 978.9  | 982.6  | 984.8  | 985.3  | 985.9  | 986.4  | 987.0  |
| 25°    | 952.2  | 956.3  | 960.4  | 962.9  | 964.0  | 965.0  | 966.0  | 967.0  |
| 27.5°  | 926.8  | 932.0  | 937.2  | 940.1  | 940.9  | 941.6  | 942.4  | 943.1  |
| 30°    | 909.0  | 914.4  | 919.9  | 923.1  | 924.1  | 925.1  | 926.2  | 927.2  |
| 32.5°  | 889.8  | 896.0  | 902.3  | 906.3  | 908.2  | 910.0  | 911.9  | 913.7  |
| 35°    | 862.5  | 870.0  | 877.5  | 882.4  | 884.8  | 887.2  | 889.6  | 891.9  |
| 37.5°  | 834.4  | 842.7  | 851.0  | 856.4  | 858.9  | 861.5  | 864.0  | 866.5  |
| 40°    | 814.6  | 823.5  | 832.3  | 838.3  | 841.4  | 844.4  | 847.5  | 850.6  |
| 42.5°  | 795.4  | 805.1  | 814.8  | 821.1  | 824.2  | 827.3  | 830.3  | 833.4  |
| 45°    | 765.9  | 776.5  | 787.0  | 794.0  | 797.4  | 800.8  | 804.2  | 807.6  |
| 47.5°  | 735.3  | 746.3  | 757.4  | 764.8  | 768.5  | 772.3  | 776.0  | 779.8  |
| 50°    | 714.3  | 725.9  | 737.5  | 745.2  | 748.9  | 752.6  | 756.4  | 760.1  |
| 52.5°  | 691.6  | 703.4  | 715.3  | 723.2  | 727.2  | 731.3  | 735.3  | 739.3  |
| 55°    | 657.5  | 669.7  | 682.0  | 690.3  | 694.7  | 699.2  | 703.6  | 708.0  |
| 57.5°  | 621.4  | 634.6  | 647.8  | 656.6  | 661.1  | 665.6  | 670.1  | 674.6  |
| 60°    | 597.5  | 610.5  | 623.4  | 632.3  | 637.0  | 641.8  | 646.6  | 651.3  |
| 62.5°  | 572.2  | 585.9  | 599.7  | 608.8  | 613.3  | 617.8  | 622.3  | 626.8  |
| 65°    | 533.7  | 547.6  | 561.6  | 570.8  | 575.2  | 579.6  | 584.1  | 588.5  |
| 67.5°  | 494.7  | 508.8  | 522.9  | 532.3  | 536.9  | 541.5  | 546.2  | 550.8  |
| 70°    | 467.6  | 482.2  | 496.9  | 506.2  | 510.3  | 514.4  | 518.5  | 522.6  |
| 72.5°  | 441.3  | 455.7  | 470.0  | 479.7  | 484.6  | 489.5  | 494.4  | 499.3  |
| 75°    | 401.7  | 416.3  | 431.0  | 440.5  | 444.9  | 449.4  | 453.8  | 458.2  |
| 77.5°  | 362.9  | 377.5  | 392.1  | 401.8  | 406.5  | 411.3  | 416.1  | 420.8  |
| 80°    | 336.6  | 351.0  | 365.3  | 374.8  | 379.6  | 384.3  | 389.1  | 393.9  |
| 82.5°  | 312.1  | 326.4  | 340.7  | 350.1  | 354.6  | 359.1  | 363.6  | 368.1  |
| 85°    | 276.9  | 291.2  | 305.5  | 315.0  | 319.8  | 324.6  | 329.3  | 334.1  |
| 87.5°  | 248.7  | 262.7  | 276.6  | 285.8  | 290.2  | 294.6  | 299.0  | 303.3  |
| 90°    | 236.7  | 250.7  | 264.7  | 273.8  | 278.0  | 282.3  | 286.5  | 290.7  |
| 92.5°  | 225.8  | 239.4  | 252.9  | 261.8  | 265.9  | 270.1  | 274.3  | 278.5  |
| 95°    | 215.5  | 228.8  | 242.1  | 250.7  | 254.7  | 258.7  | 262.8  | 266.8  |
| 97.5°  | 205.7  | 218.6  | 231.5  | 240.0  | 244.1  | 248.2  | 252.3  | 256.4  |
| 100°   | 198.0  | 211.2  | 224.4  | 232.9  | 236.8  | 240.7  | 244.6  | 248.5  |
| 102.5° | 189.8  | 202.8  | 215.9  | 224.4  | 228.4  | 232.3  | 236.3  | 240.2  |
| 105°   | 176.9  | 189.7  | 202.4  | 210.7  | 214.8  | 218.8  | 222.8  | 226.9  |
| 107.5° | 168.1  | 178.8  | 189.4  | 196.7  | 200.8  | 204.8  | 208.8  | 212.9  |
| 110°   | 175.9  | 179.6  | 183.3  | 187.2  | 191.2  | 195.2  | 199.3  | 203.3  |





TEST NUMBER: P331423

CATALOG NUMBER: S122DIP-S1005D330U835-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 215.4 | 200.1 | 184.8 | 179.1 | 183.1 | 187.0 | 191.0 | 195.0 |
| 115°   | 245.3 | 222.3 | 199.2 | 187.0 | 185.6 | 184.2 | 182.7 | 181.3 |
| 117.5° | 304.4 | 306.4 | 308.5 | 302.7 | 289.2 | 275.7 | 262.2 | 248.6 |
| 120°   | 329.8 | 340.2 | 350.6 | 352.8 | 346.9 | 340.9 | 335.0 | 329.0 |
| 122.5° | 336.5 | 346.3 | 356.1 | 361.6 | 362.9 | 364.2 | 365.6 | 366.9 |
| 125°   | 344.7 | 354.4 | 364.1 | 370.6 | 373.9 | 377.2 | 380.4 | 383.7 |
| 127.5° | 351.5 | 360.7 | 369.9 | 376.0 | 379.0 | 382.1 | 385.1 | 388.2 |
| 130°   | 355.9 | 364.9 | 373.8 | 379.6 | 382.3 | 384.9 | 387.6 | 390.2 |
| 132.5° | 359.9 | 368.5 | 377.1 | 382.7 | 385.3 | 388.0 | 390.6 | 393.3 |
| 135°   | 366.0 | 373.8 | 381.7 | 386.9 | 389.5 | 392.1 | 394.7 | 397.2 |
| 137.5° | 371.1 | 378.1 | 385.0 | 389.6 | 391.6 | 393.7 | 395.8 | 397.9 |
| 140°   | 374.8 | 380.9 | 387.0 | 390.9 | 392.6 | 394.2 | 395.9 | 397.6 |
| 142.5° | 379.6 | 384.6 | 389.5 | 392.7 | 394.1 | 395.5 | 396.9 | 398.3 |
| 145°   | 387.6 | 390.1 | 392.7 | 394.6 | 396.0 | 397.3 | 398.7 | 400.0 |
| 147.5° | 395.6 | 396.2 | 396.9 | 397.4 | 397.9 | 398.5 | 399.0 | 399.5 |
| 150°   | 402.1 | 402.5 | 403.0 | 403.0 | 402.7 | 402.3 | 401.9 | 401.6 |
| 152.5° | 408.6 | 409.0 | 409.4 | 409.4 | 408.9 | 408.5 | 408.0 | 407.5 |
| 155°   | 417.3 | 417.7 | 418.2 | 418.1 | 417.5 | 417.0 | 416.4 | 415.8 |
| 157.5° | 424.7 | 425.2 | 425.6 | 425.6 | 425.0 | 424.5 | 423.9 | 423.4 |
| 160°   | 429.0 | 429.4 | 429.8 | 429.8 | 429.3 | 428.8 | 428.3 | 427.8 |
| 162.5° | 432.9 | 433.4 | 433.9 | 433.9 | 433.2 | 432.6 | 432.0 | 431.4 |
| 165°   | 437.8 | 438.3 | 438.8 | 438.8 | 438.3 | 437.8 | 437.3 | 436.8 |
| 167.5° | 441.9 | 442.4 | 442.9 | 442.8 | 442.2 | 441.5 | 440.9 | 440.2 |
| 170°   | 444.0 | 444.5 | 445.0 | 444.9 | 444.3 | 443.6 | 443.0 | 442.3 |
| 172.5° | 445.5 | 446.0 | 446.5 | 446.5 | 445.8 | 445.2 | 444.5 | 443.9 |
| 175°   | 447.2 | 447.7 | 448.2 | 448.1 | 447.4 | 446.7 | 445.9 | 445.2 |
| 177.5° | 447.4 | 447.8 | 448.2 | 448.1 | 447.6 | 447.1 | 446.6 | 446.1 |
| 180°   | 446.8 | 446.8 | 446.8 | 446.8 | 446.8 | 446.8 | 446.8 | 446.8 |

(END OF REPORT)