

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: P331434-840

Luminaire Tested: **S122DIP-S1005D530U840-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331434-840  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122DIP-S1005D530U840-4F0-1E-UDD-D4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1005 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 530 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6160.7 lumens  
Efficiency: N/A  
Efficacy: 111.8 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: General Diffuse

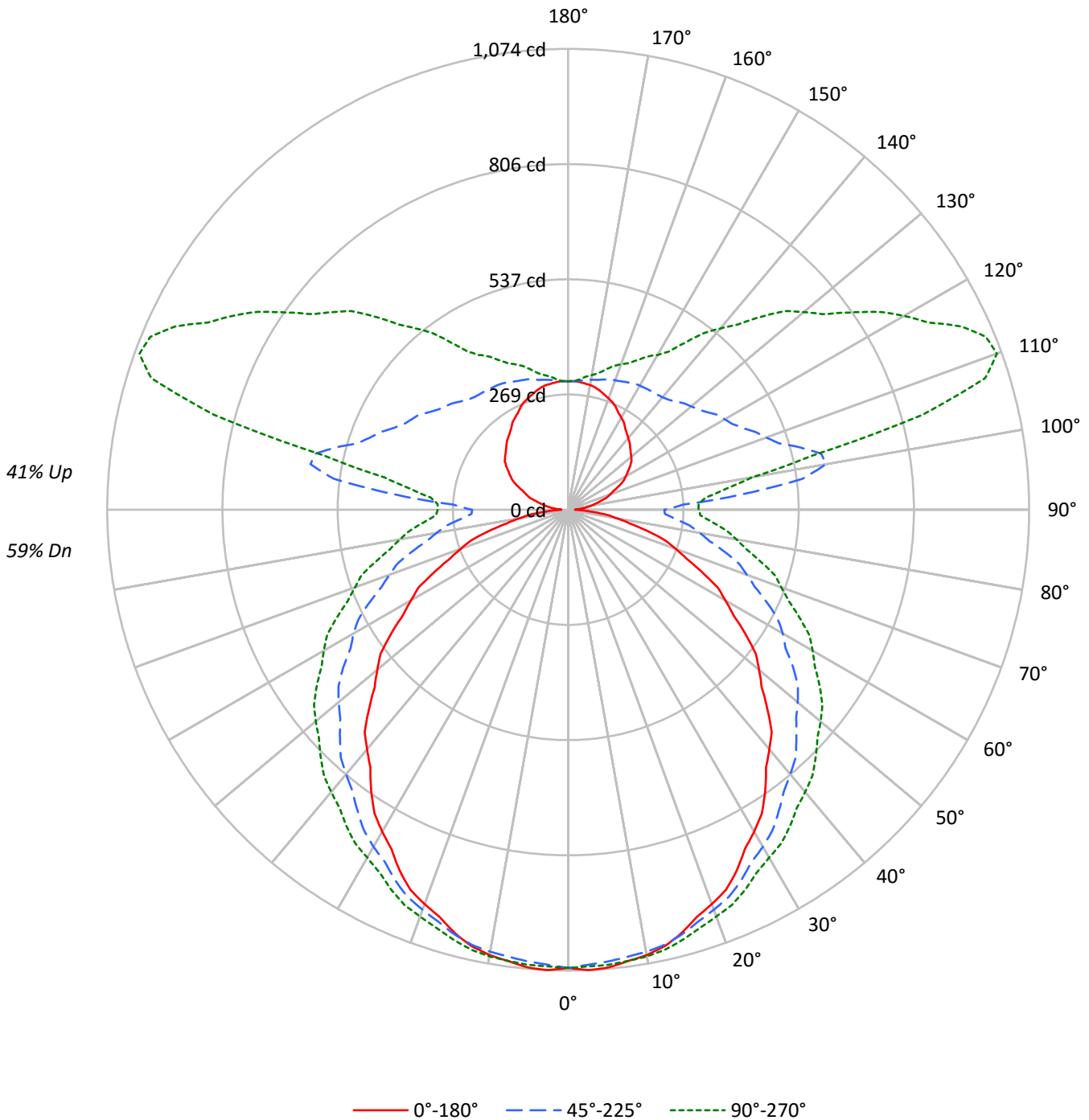
Input Watts (W): 55.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331434-840

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### Luminous Intensity Polar Plot





TEST NUMBER: P331434-840

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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   | 109 | 109 | 109 | 109 | 102 | 102 | 102 | 102 | 88 | 88 | 88 | 76 | 76 | 76 | 64 | 64 | 64 | 59 |
| 1   | 98  | 93  | 88  | 84  | 91  | 87  | 82  | 79  | 75 | 72 | 69 | 64 | 62 | 60 | 54 | 52 | 51 | 46 |
| 2   | 89  | 80  | 73  | 67  | 82  | 75  | 69  | 63  | 65 | 60 | 56 | 55 | 52 | 48 | 46 | 44 | 41 | 37 |
| 3   | 80  | 70  | 62  | 55  | 74  | 65  | 58  | 52  | 56 | 51 | 46 | 48 | 44 | 40 | 41 | 37 | 34 | 31 |
| 4   | 73  | 61  | 53  | 46  | 68  | 57  | 50  | 44  | 50 | 44 | 39 | 43 | 38 | 34 | 36 | 32 | 29 | 26 |
| 5   | 67  | 55  | 46  | 39  | 62  | 51  | 43  | 37  | 44 | 38 | 33 | 38 | 33 | 29 | 32 | 28 | 25 | 22 |
| 6   | 62  | 49  | 40  | 34  | 57  | 46  | 38  | 32  | 40 | 33 | 29 | 34 | 29 | 25 | 29 | 25 | 22 | 19 |
| 7   | 57  | 44  | 36  | 30  | 53  | 41  | 34  | 28  | 36 | 30 | 25 | 31 | 26 | 22 | 27 | 22 | 19 | 17 |
| 8   | 53  | 40  | 32  | 26  | 49  | 37  | 30  | 25  | 33 | 27 | 22 | 28 | 23 | 20 | 24 | 20 | 17 | 15 |
| 9   | 49  | 36  | 29  | 23  | 46  | 34  | 27  | 22  | 30 | 24 | 20 | 26 | 21 | 18 | 22 | 18 | 16 | 13 |
| 10  | 46  | 33  | 26  | 21  | 43  | 31  | 24  | 20  | 28 | 22 | 18 | 24 | 19 | 16 | 21 | 17 | 14 | 12 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 17241 | 17241 | 17241 |
| 5°  | 17327 | 16597 | 16534 |
| 10° | 17217 | 16106 | 15925 |
| 15° | 16980 | 15587 | 15284 |
| 20° | 16681 | 15031 | 14669 |
| 25° | 16384 | 14494 | 14107 |
| 30° | 15966 | 13945 | 13546 |
| 35° | 15544 | 13412 | 13150 |
| 40° | 15099 | 12958 | 12754 |
| 45° | 14678 | 12551 | 12415 |
| 50° | 14226 | 12185 | 12082 |
| 55° | 13750 | 11789 | 11742 |
| 60° | 13168 | 11380 | 11382 |
| 65° | 12566 | 10901 | 10957 |
| 70° | 11886 | 10385 | 10497 |
| 75° | 11021 | 9881  | 10071 |
| 80° | 9646  | 9362  | 9643  |
| 85° | 8334  | 8915  | 9308  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 101.2  | 1.6       |
| 10°-20°   | 290.2  | 4.7       |
| 20°-30°   | 439.7  | 7.1       |
| 30°-40°   | 535.6  | 8.7       |
| 40°-50°   | 576.2  | 9.4       |
| 50°-60°   | 559.5  | 9.1       |
| 60°-70°   | 488.6  | 7.9       |
| 70°-80°   | 376.1  | 6.1       |
| 80°-90°   | 255.1  | 4.1       |
| 90°-100°  | 293.6  | 4.8       |
| 100°-110° | 533.3  | 8.7       |
| 110°-120° | 515.5  | 8.4       |
| 120°-130° | 402.2  | 6.5       |
| 130°-140° | 305.0  | 5.0       |
| 140°-150° | 219.1  | 3.6       |
| 150°-160° | 151.6  | 2.5       |
| 160°-170° | 89.2   | 1.4       |
| 170°-180° | 29.0   | 0.5       |
| 0°-30°    | 831.1  | 13.5      |
| 0°-40°    | 1366.6 | 22.2      |
| 0°-60°    | 2502.3 | 40.6      |
| 0°-90°    | 3622.1 | 58.8      |
| 90°-120°  | 1342.5 | 21.8      |
| 90°-150°  | 2268.8 | 36.8      |
| 90°-180°  | 2539.0 | 41.2      |
| 0°-180°   | 6160.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1068 | 1068  | 1068 | 1068  | 1068 |      |
| 5°   | 1071 | 1066  | 1057 | 1066  | 1065 | 102  |
| 15°  | 1022 | 1024  | 1024 | 1038  | 1037 | 288  |
| 25°  | 929  | 940   | 953  | 971   | 976  | 427  |
| 35°  | 800  | 827   | 856  | 889   | 901  | 500  |
| 45°  | 656  | 699   | 752  | 798   | 816  | 506  |
| 55°  | 503  | 560   | 639  | 693   | 715  | 450  |
| 65°  | 344  | 420   | 511  | 572   | 594  | 341  |
| 75°  | 190  | 278   | 376  | 440   | 463  | 201  |
| 85°  | 56   | 152   | 251  | 313   | 337  | 60   |
| 90°  | 16   | 114   | 224  | 282   | 304  | 12   |
| 95°  | 32   | 136   | 404  | 320   | 321  | 31   |
| 105° | 78   | 161   | 560  | 948   | 853  | 83   |
| 115° | 130  | 182   | 450  | 875   | 1010 | 128  |
| 125° | 176  | 210   | 396  | 690   | 801  | 157  |
| 135° | 204  | 244   | 356  | 550   | 636  | 158  |
| 145° | 232  | 266   | 338  | 428   | 475  | 146  |
| 155° | 263  | 284   | 328  | 371   | 385  | 121  |
| 165° | 287  | 295   | 314  | 333   | 338  | 81   |
| 175° | 299  | 299   | 302  | 306   | 305  | 28   |
| 180° | 299  | 299   | 299  | 299   | 299  |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1067.8 | 1067.8 | 1067.8 | 1067.8 | 1067.8 | 1067.8 | 1067.8 | 1067.8 | 1067.8 | 1067.8 | 1067.8 |
| 2.5°   | 1074.1 | 1073.3 | 1072.4 | 1071.6 | 1070.8 | 1069.3 | 1067.4 | 1065.5 | 1063.6 | 1061.7 | 1063.1 |
| 5°     | 1071.0 | 1070.0 | 1068.9 | 1067.8 | 1066.8 | 1065.3 | 1063.3 | 1061.2 | 1059.1 | 1057.0 | 1059.1 |
| 7.5°   | 1061.4 | 1060.7 | 1060.0 | 1059.3 | 1058.6 | 1057.5 | 1055.9 | 1054.3 | 1052.8 | 1051.2 | 1053.6 |
| 10°    | 1054.0 | 1053.3 | 1052.6 | 1051.9 | 1051.2 | 1050.4 | 1049.4 | 1048.2 | 1047.2 | 1046.2 | 1048.9 |
| 12.5°  | 1041.6 | 1041.7 | 1041.9 | 1042.0 | 1042.1 | 1041.8 | 1041.1 | 1040.3 | 1039.6 | 1038.7 | 1041.6 |
| 15°    | 1021.5 | 1022.2 | 1022.8 | 1023.5 | 1024.2 | 1024.5 | 1024.5 | 1024.5 | 1024.5 | 1024.5 | 1027.6 |
| 17.5°  | 995.4  | 996.9  | 998.4  | 999.8  | 1001.2 | 1002.5 | 1003.6 | 1004.7 | 1005.8 | 1006.9 | 1010.2 |
| 20°    | 978.2  | 979.9  | 981.6  | 983.3  | 985.0  | 986.5  | 988.0  | 989.3  | 990.7  | 992.1  | 995.8  |
| 22.5°  | 959.6  | 961.5  | 963.5  | 965.5  | 967.6  | 969.5  | 971.4  | 973.3  | 975.2  | 977.1  | 981.0  |
| 25°    | 928.6  | 931.0  | 933.4  | 935.8  | 938.3  | 941.0  | 944.0  | 947.2  | 950.3  | 953.3  | 957.5  |
| 27.5°  | 891.4  | 895.3  | 899.3  | 903.2  | 907.2  | 910.9  | 914.5  | 918.2  | 921.8  | 925.5  | 930.7  |
| 30°    | 866.7  | 871.1  | 875.7  | 880.1  | 884.5  | 889.1  | 893.5  | 898.0  | 902.4  | 907.0  | 912.4  |
| 32.5°  | 839.4  | 844.4  | 849.5  | 854.5  | 859.5  | 864.6  | 870.0  | 875.3  | 880.6  | 885.9  | 892.2  |
| 35°    | 800.1  | 806.0  | 811.8  | 817.7  | 823.5  | 829.7  | 836.3  | 842.7  | 849.3  | 855.9  | 863.4  |
| 37.5°  | 757.4  | 764.2  | 770.9  | 777.6  | 784.4  | 791.9  | 800.4  | 808.9  | 817.4  | 825.9  | 834.2  |
| 40°    | 728.9  | 736.5  | 744.1  | 751.6  | 759.2  | 767.6  | 776.9  | 786.2  | 795.5  | 804.8  | 813.7  |
| 42.5°  | 701.8  | 709.2  | 716.8  | 724.4  | 732.0  | 741.0  | 751.7  | 762.4  | 773.1  | 783.8  | 793.5  |
| 45°    | 656.2  | 665.5  | 674.8  | 684.1  | 693.4  | 704.0  | 716.1  | 728.1  | 740.1  | 752.1  | 762.9  |
| 47.5°  | 611.4  | 621.5  | 631.6  | 641.7  | 651.8  | 663.9  | 678.0  | 692.1  | 706.2  | 720.2  | 731.4  |
| 50°    | 580.4  | 591.1  | 601.7  | 612.4  | 623.0  | 636.1  | 651.6  | 667.0  | 682.5  | 698.0  | 709.7  |
| 52.5°  | 550.7  | 561.9  | 573.1  | 584.3  | 595.5  | 609.3  | 625.5  | 641.9  | 658.1  | 674.5  | 686.4  |
| 55°    | 503.0  | 515.3  | 527.8  | 540.2  | 552.5  | 567.6  | 585.5  | 603.4  | 621.3  | 639.1  | 651.6  |
| 57.5°  | 456.0  | 469.9  | 483.8  | 497.9  | 511.8  | 527.9  | 546.1  | 564.3  | 582.6  | 600.8  | 614.1  |
| 60°    | 422.5  | 437.3  | 452.1  | 466.9  | 481.7  | 498.9  | 518.5  | 538.1  | 557.6  | 577.2  | 590.4  |
| 62.5°  | 392.8  | 408.1  | 423.4  | 438.8  | 454.1  | 471.6  | 491.2  | 510.8  | 530.5  | 550.1  | 563.9  |
| 65°    | 343.6  | 360.4  | 377.3  | 394.2  | 411.0  | 429.6  | 449.9  | 470.1  | 490.4  | 510.7  | 524.8  |
| 67.5°  | 298.4  | 316.0  | 333.6  | 351.2  | 368.8  | 388.0  | 408.8  | 429.6  | 450.3  | 471.1  | 485.3  |
| 70°    | 266.2  | 284.1  | 301.9  | 319.8  | 337.7  | 357.3  | 378.7  | 400.0  | 421.3  | 442.6  | 457.4  |
| 72.5°  | 236.5  | 254.9  | 273.4  | 291.8  | 310.2  | 330.2  | 351.8  | 373.4  | 395.1  | 416.7  | 431.1  |
| 75°    | 190.4  | 209.6  | 228.8  | 248.1  | 267.4  | 288.0  | 310.0  | 332.0  | 354.1  | 376.1  | 390.8  |
| 77.5°  | 145.8  | 165.9  | 186.1  | 206.2  | 226.4  | 247.6  | 270.0  | 292.4  | 314.7  | 337.1  | 351.8  |
| 80°    | 116.0  | 137.0  | 158.0  | 179.0  | 200.0  | 221.7  | 244.0  | 266.4  | 288.7  | 311.0  | 325.5  |
| 82.5°  | 91.3   | 112.0  | 132.7  | 153.4  | 174.1  | 195.8  | 218.4  | 241.1  | 263.7  | 286.3  | 300.7  |
| 85°    | 55.7   | 77.1   | 98.4   | 119.7  | 141.0  | 162.7  | 184.7  | 206.7  | 228.7  | 250.7  | 265.2  |
| 87.5°  | 30.5   | 51.3   | 72.2   | 93.0   | 113.7  | 135.3  | 157.9  | 180.7  | 203.4  | 225.5  | 239.4  |
| 90°    | 16.1   | 37.8   | 60.0   | 81.1   | 102.2  | 124.9  | 149.8  | 175.8  | 201.3  | 223.9  | 237.0  |
| 92.5°  | 21.3   | 42.9   | 65.6   | 86.7   | 109.3  | 134.5  | 168.7  | 208.2  | 245.8  | 268.0  | 269.8  |
| 95°    | 32.5   | 51.0   | 72.9   | 94.3   | 119.7  | 151.9  | 199.0  | 269.7  | 357.2  | 403.7  | 388.6  |
| 97.5°  | 43.6   | 61.1   | 81.6   | 103.8  | 128.9  | 161.6  | 214.7  | 304.3  | 435.2  | 550.1  | 581.7  |
| 100°   | 55.1   | 69.7   | 87.6   | 109.5  | 133.7  | 165.8  | 215.6  | 305.2  | 448.8  | 609.8  | 705.4  |
| 102.5° | 64.5   | 77.5   | 94.2   | 115.1  | 138.7  | 170.0  | 216.9  | 298.0  | 431.9  | 603.4  | 746.2  |
| 105°   | 78.0   | 90.3   | 104.3  | 122.9  | 145.5  | 175.6  | 220.6  | 289.7  | 402.6  | 559.9  | 725.1  |
| 107.5° | 94.3   | 104.1  | 116.0  | 131.9  | 152.5  | 181.3  | 224.6  | 286.5  | 382.1  | 514.4  | 661.4  |
| 110°   | 104.1  | 113.3  | 123.6  | 137.9  | 156.9  | 185.5  | 227.7  | 286.0  | 373.1  | 491.4  | 621.6  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 114.2 | 122.3 | 132.0 | 144.8 | 162.2 | 190.3 | 230.8 | 285.9 | 365.8 | 472.5 | 590.8 |
| 115°   | 130.0 | 136.6 | 143.9 | 154.6 | 169.9 | 195.1 | 235.3 | 285.9 | 357.3 | 449.9 | 551.3 |
| 117.5° | 144.8 | 149.6 | 155.5 | 164.1 | 177.6 | 202.2 | 239.4 | 286.6 | 349.9 | 431.8 | 521.1 |
| 120°   | 154.9 | 158.6 | 163.5 | 170.1 | 182.9 | 206.6 | 242.9 | 287.7 | 345.8 | 421.2 | 503.9 |
| 122.5° | 164.6 | 167.0 | 171.1 | 177.2 | 189.2 | 212.6 | 246.6 | 288.3 | 342.4 | 411.9 | 488.4 |
| 125°   | 175.9 | 177.6 | 181.1 | 187.9 | 199.4 | 221.2 | 252.9 | 289.7 | 336.5 | 395.9 | 464.4 |
| 127.5° | 186.0 | 187.9 | 192.5 | 199.8 | 210.5 | 231.3 | 260.3 | 292.5 | 332.4 | 382.7 | 442.2 |
| 130°   | 192.0 | 194.0 | 199.3 | 207.1 | 218.2 | 237.8 | 265.2 | 294.3 | 330.3 | 374.5 | 427.6 |
| 132.5° | 197.5 | 200.0 | 205.8 | 214.0 | 225.6 | 244.4 | 269.2 | 296.2 | 328.2 | 366.5 | 414.3 |
| 135°   | 204.3 | 206.6 | 213.5 | 222.2 | 235.4 | 253.2 | 275.1 | 298.7 | 325.2 | 356.3 | 396.3 |
| 137.5° | 212.1 | 214.8 | 221.7 | 230.8 | 243.9 | 259.5 | 279.2 | 299.5 | 322.0 | 347.2 | 381.0 |
| 140°   | 218.1 | 220.0 | 226.6 | 235.5 | 247.8 | 263.0 | 280.9 | 299.4 | 319.7 | 341.7 | 372.0 |
| 142.5° | 224.1 | 225.6 | 231.7 | 240.5 | 252.5 | 266.4 | 283.4 | 300.8 | 319.2 | 339.2 | 365.2 |
| 145°   | 231.6 | 233.8 | 239.5 | 248.2 | 259.7 | 272.4 | 287.9 | 304.1 | 320.2 | 337.5 | 358.0 |
| 147.5° | 241.2 | 242.9 | 248.4 | 256.4 | 266.0 | 277.2 | 291.9 | 306.1 | 320.6 | 335.4 | 351.8 |
| 150°   | 247.6 | 249.3 | 254.0 | 261.5 | 270.1 | 280.4 | 293.7 | 307.0 | 320.2 | 334.1 | 347.9 |
| 152.5° | 254.1 | 254.9 | 259.5 | 266.1 | 274.3 | 283.7 | 295.6 | 307.4 | 319.3 | 331.7 | 344.7 |
| 155°   | 263.2 | 263.8 | 267.2 | 273.6 | 279.9 | 288.5 | 298.3 | 308.1 | 317.9 | 327.7 | 338.6 |
| 157.5° | 270.7 | 271.4 | 274.2 | 279.6 | 284.8 | 292.0 | 300.2 | 308.1 | 315.3 | 323.6 | 333.0 |
| 160°   | 275.9 | 276.4 | 278.7 | 283.4 | 287.9 | 294.3 | 301.2 | 308.1 | 313.9 | 320.8 | 328.8 |
| 162.5° | 280.9 | 280.5 | 282.9 | 286.6 | 290.7 | 295.7 | 301.6 | 307.6 | 312.5 | 318.5 | 325.2 |
| 165°   | 286.8 | 286.2 | 287.4 | 290.8 | 293.7 | 297.2 | 302.4 | 306.4 | 309.8 | 313.9 | 319.0 |
| 167.5° | 291.6 | 290.9 | 292.0 | 294.2 | 296.3 | 298.4 | 302.3 | 305.6 | 307.2 | 309.8 | 313.1 |
| 170°   | 294.9 | 293.7 | 294.3 | 296.0 | 297.2 | 298.9 | 301.7 | 304.7 | 305.8 | 307.5 | 309.8 |
| 172.5° | 296.7 | 296.0 | 295.7 | 297.4 | 298.1 | 299.3 | 301.3 | 303.3 | 304.0 | 304.8 | 306.6 |
| 175°   | 298.9 | 298.3 | 297.7 | 298.9 | 298.9 | 299.4 | 300.6 | 301.7 | 301.2 | 301.7 | 302.4 |
| 177.5° | 299.9 | 299.0 | 298.5 | 299.4 | 299.4 | 299.4 | 299.9 | 300.8 | 299.9 | 299.4 | 299.9 |
| 180°   | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1067.8 | 1067.8 | 1067.8 | 1067.8 | 1067.8 | 1067.8 | 1067.8 | 1067.8 |
| 2.5°   | 1064.4 | 1065.8 | 1067.2 | 1067.6 | 1067.0 | 1066.5 | 1065.9 | 1065.4 |
| 5°     | 1061.2 | 1063.3 | 1065.3 | 1066.1 | 1065.8 | 1065.5 | 1065.1 | 1064.8 |
| 7.5°   | 1056.1 | 1058.6 | 1061.1 | 1062.2 | 1061.8 | 1061.5 | 1061.1 | 1060.8 |
| 10°    | 1051.7 | 1054.5 | 1057.2 | 1058.4 | 1058.0 | 1057.7 | 1057.4 | 1057.0 |
| 12.5°  | 1044.3 | 1047.0 | 1049.8 | 1051.0 | 1050.7 | 1050.3 | 1050.0 | 1049.7 |
| 15°    | 1030.8 | 1033.8 | 1036.9 | 1038.3 | 1037.9 | 1037.6 | 1037.2 | 1036.9 |
| 17.5°  | 1013.4 | 1016.6 | 1019.9 | 1021.5 | 1021.5 | 1021.5 | 1021.5 | 1021.5 |
| 20°    | 999.6  | 1003.4 | 1007.1 | 1009.1 | 1009.1 | 1009.1 | 1009.1 | 1009.1 |
| 22.5°  | 984.7  | 988.6  | 992.3  | 994.5  | 995.0  | 995.6  | 996.1  | 996.7  |
| 25°    | 961.6  | 965.7  | 969.9  | 972.4  | 973.5  | 974.5  | 975.5  | 976.5  |
| 27.5°  | 935.9  | 941.2  | 946.4  | 949.4  | 950.2  | 950.9  | 951.7  | 952.4  |
| 30°    | 918.0  | 923.4  | 929.0  | 932.2  | 933.2  | 934.2  | 935.3  | 936.3  |
| 32.5°  | 898.6  | 904.8  | 911.2  | 915.2  | 917.2  | 919.0  | 920.9  | 922.7  |
| 35°    | 871.0  | 878.6  | 886.2  | 891.1  | 893.5  | 896.0  | 898.4  | 900.7  |
| 37.5°  | 842.6  | 851.0  | 859.4  | 864.8  | 867.4  | 870.0  | 872.5  | 875.0  |
| 40°    | 822.6  | 831.6  | 840.5  | 846.6  | 849.7  | 852.7  | 855.9  | 859.0  |
| 42.5°  | 803.2  | 813.0  | 822.8  | 829.2  | 832.3  | 835.5  | 838.5  | 841.6  |
| 45°    | 773.5  | 784.2  | 794.8  | 801.8  | 805.3  | 808.7  | 812.1  | 815.6  |
| 47.5°  | 742.6  | 753.7  | 764.9  | 772.3  | 776.1  | 779.9  | 783.7  | 787.5  |
| 50°    | 721.3  | 733.1  | 744.8  | 752.6  | 756.3  | 760.0  | 763.9  | 767.6  |
| 52.5°  | 698.4  | 710.3  | 722.4  | 730.3  | 734.4  | 738.5  | 742.6  | 746.6  |
| 55°    | 664.0  | 676.3  | 688.7  | 697.1  | 701.6  | 706.1  | 710.5  | 715.0  |
| 57.5°  | 627.5  | 640.9  | 654.2  | 663.1  | 667.6  | 672.2  | 676.7  | 681.3  |
| 60°    | 603.4  | 616.5  | 629.5  | 638.5  | 643.3  | 648.1  | 653.0  | 657.7  |
| 62.5°  | 577.8  | 591.7  | 605.6  | 614.8  | 619.4  | 623.9  | 628.4  | 633.0  |
| 65°    | 539.0  | 553.0  | 567.1  | 576.4  | 580.9  | 585.3  | 589.9  | 594.3  |
| 67.5°  | 499.6  | 513.8  | 528.1  | 537.6  | 542.2  | 546.8  | 551.6  | 556.2  |
| 70°    | 472.2  | 487.0  | 501.8  | 511.2  | 515.3  | 519.5  | 523.6  | 527.8  |
| 72.5°  | 445.7  | 460.2  | 474.6  | 484.4  | 489.4  | 494.3  | 499.3  | 504.2  |
| 75°    | 405.7  | 420.4  | 435.3  | 444.8  | 449.3  | 453.8  | 458.3  | 462.7  |
| 77.5°  | 366.5  | 381.2  | 396.0  | 405.8  | 410.5  | 415.4  | 420.2  | 425.0  |
| 80°    | 339.9  | 354.5  | 368.9  | 378.5  | 383.3  | 388.1  | 392.9  | 397.8  |
| 82.5°  | 315.2  | 329.6  | 344.1  | 353.6  | 358.1  | 362.6  | 367.2  | 371.7  |
| 85°    | 279.6  | 294.1  | 308.5  | 318.1  | 323.0  | 327.8  | 332.5  | 337.4  |
| 87.5°  | 253.4  | 267.2  | 281.4  | 290.7  | 295.2  | 299.5  | 304.0  | 308.4  |
| 90°    | 250.2  | 262.9  | 277.7  | 287.3  | 291.3  | 295.5  | 299.6  | 303.8  |
| 92.5°  | 270.3  | 276.7  | 285.3  | 290.5  | 294.2  | 296.5  | 301.0  | 304.3  |
| 95°    | 355.0  | 333.0  | 321.8  | 317.8  | 314.4  | 313.9  | 316.3  | 321.0  |
| 97.5°  | 542.2  | 490.9  | 441.3  | 408.2  | 384.7  | 374.6  | 370.2  | 369.4  |
| 100°   | 706.0  | 647.3  | 581.2  | 519.8  | 475.7  | 454.7  | 441.8  | 435.3  |
| 102.5° | 810.6  | 806.9  | 761.6  | 696.0  | 647.8  | 609.4  | 592.3  | 582.0  |
| 105°   | 856.9  | 934.0  | 953.5  | 942.4  | 910.5  | 878.6  | 857.6  | 853.3  |
| 107.5° | 799.9  | 909.5  | 981.0  | 1016.5 | 1024.8 | 1026.6 | 1025.4 | 1018.5 |
| 110°   | 754.1  | 868.2  | 952.9  | 1007.5 | 1036.1 | 1050.8 | 1059.8 | 1063.0 |





TEST NUMBER: P331434-840

CATALOG NUMBER: S122DIP-S1005D530U840-4F0-1E-UDD-D4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°    | 80°    | 85°    | 90°    |
|--------|-------|-------|-------|-------|--------|--------|--------|--------|
| 112.5° | 711.3 | 821.3 | 911.1 | 972.6 | 1010.9 | 1032.9 | 1046.5 | 1053.4 |
| 115°   | 656.6 | 755.6 | 841.3 | 907.8 | 952.4  | 982.7  | 1001.4 | 1010.4 |
| 117.5° | 612.1 | 700.1 | 778.7 | 841.2 | 886.4  | 917.9  | 937.2  | 945.0  |
| 120°   | 587.8 | 668.9 | 739.6 | 798.7 | 842.8  | 873.6  | 894.1  | 903.6  |
| 122.5° | 567.4 | 642.2 | 709.4 | 763.1 | 802.4  | 832.2  | 850.4  | 858.4  |
| 125°   | 536.5 | 605.1 | 665.1 | 714.5 | 750.9  | 776.0  | 793.5  | 801.1  |
| 127.5° | 506.0 | 568.3 | 624.6 | 670.1 | 702.4  | 725.9  | 741.3  | 748.1  |
| 130°   | 486.6 | 544.3 | 598.0 | 641.6 | 672.6  | 694.9  | 709.1  | 716.5  |
| 132.5° | 467.5 | 521.3 | 571.1 | 612.2 | 642.7  | 665.0  | 678.3  | 685.3  |
| 135°   | 440.9 | 486.1 | 531.4 | 568.7 | 596.1  | 617.9  | 631.1  | 636.1  |
| 137.5° | 417.9 | 456.0 | 492.5 | 524.9 | 549.9  | 568.6  | 580.0  | 585.7  |
| 140°   | 403.4 | 436.6 | 468.6 | 497.7 | 518.2  | 535.2  | 545.9  | 551.4  |
| 142.5° | 392.3 | 420.2 | 447.4 | 471.7 | 491.0  | 506.3  | 515.8  | 518.4  |
| 145°   | 377.9 | 399.0 | 418.9 | 437.5 | 453.0  | 464.5  | 472.0  | 475.4  |
| 147.5° | 367.3 | 382.5 | 396.8 | 409.5 | 421.7  | 430.4  | 435.2  | 437.0  |
| 150°   | 361.6 | 374.4 | 386.5 | 396.8 | 405.5  | 412.3  | 415.8  | 416.4  |
| 152.5° | 356.6 | 368.4 | 378.6 | 387.6 | 394.4  | 400.4  | 402.9  | 403.0  |
| 155°   | 349.6 | 358.8 | 367.4 | 373.8 | 380.1  | 384.2  | 386.5  | 385.3  |
| 157.5° | 341.4 | 349.1 | 356.4 | 361.3 | 365.8  | 369.2  | 370.2  | 370.2  |
| 160°   | 336.3 | 342.6 | 349.0 | 353.0 | 357.1  | 359.9  | 360.5  | 360.5  |
| 162.5° | 331.2 | 336.7 | 342.1 | 345.2 | 349.2  | 351.2  | 351.7  | 351.3  |
| 165°   | 323.7 | 327.7 | 331.7 | 334.1 | 336.3  | 338.6  | 338.6  | 338.1  |
| 167.5° | 316.4 | 319.5 | 322.2 | 324.4 | 325.4  | 326.7  | 326.6  | 325.9  |
| 170°   | 312.8 | 314.5 | 316.8 | 317.9 | 318.5  | 320.2  | 319.6  | 318.5  |
| 172.5° | 308.6 | 309.8 | 311.6 | 312.4 | 313.0  | 313.8  | 313.2  | 312.5  |
| 175°   | 304.1 | 304.7 | 305.3 | 305.8 | 305.8  | 306.4  | 305.8  | 304.7  |
| 177.5° | 300.8 | 300.8 | 301.3 | 301.3 | 301.3  | 301.3  | 300.8  | 299.9  |
| 180°   | 299.4 | 299.4 | 299.4 | 299.4 | 299.4  | 299.4  | 299.4  | 299.4  |

(END OF REPORT)