

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: P332075-927

Luminaire Tested: **S123DIP-S1165D1025U927-4F0-1E-UDD-D**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332075-927  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIP-S1165D1025U927-4F0-1E-UDD-D  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1165 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 1025 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7090.0 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.08')  
CIE Type: General Diffuse

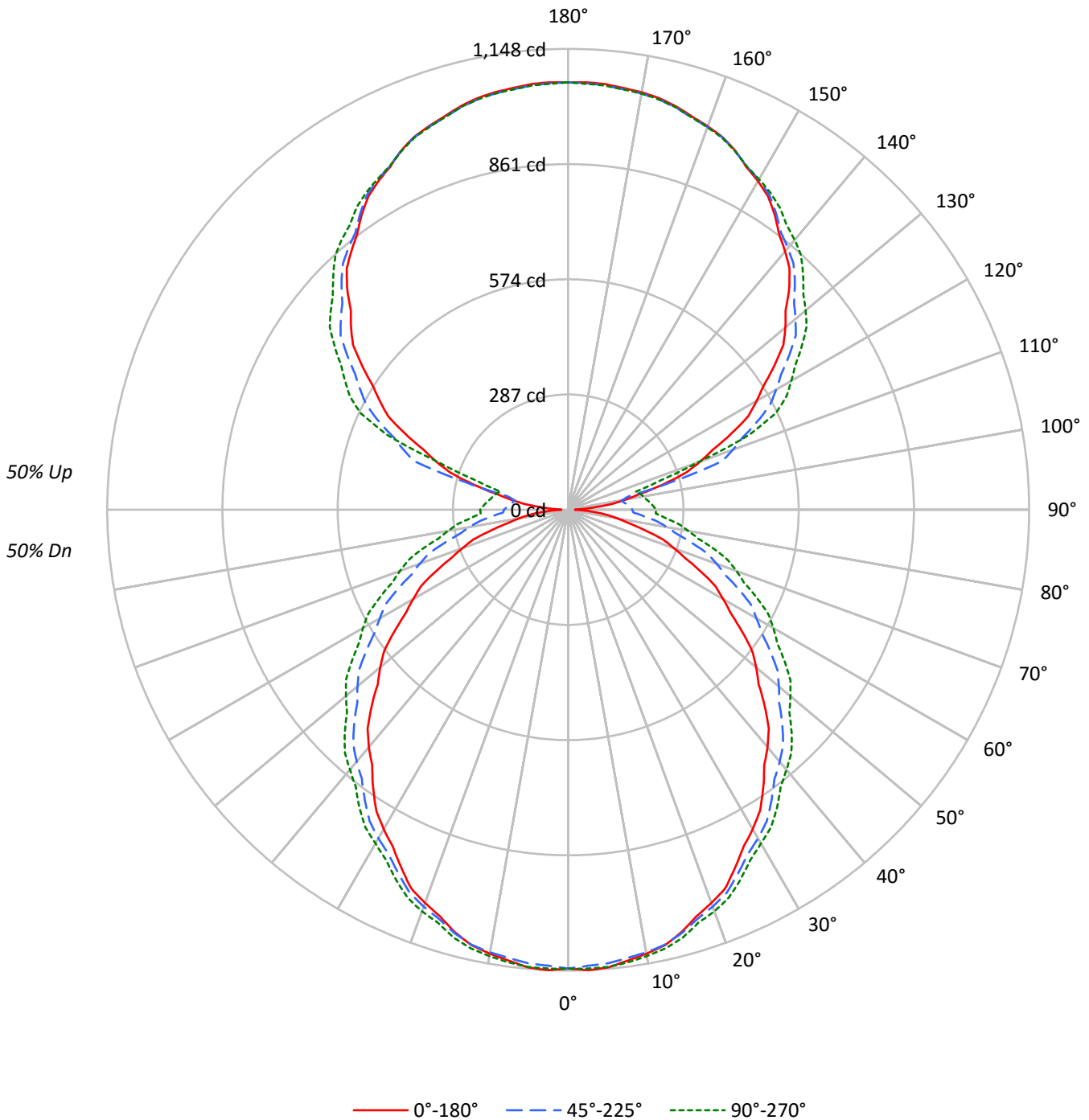
Input Watts (W): 66.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332075-927

CATALOG NUMBER: S123DIP-S1165D1025U927-4F0-1E-UDD-D

### Luminous Intensity Polar Plot





TEST NUMBER: P332075-927

CATALOG NUMBER: S123DIP-S1165D1025U927-4F0-1E-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   | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | 69 | 69 | 69 | 56 | 56 | 56 | 50 |
| 1   | 97  | 92  | 88  | 84  | 89 | 85 | 81 | 78 | 71 | 69 | 66 | 59 | 57 | 55 | 48 | 46 | 45 | 40 |
| 2   | 88  | 80  | 73  | 68  | 80 | 73 | 68 | 63 | 62 | 58 | 54 | 51 | 48 | 45 | 41 | 39 | 37 | 32 |
| 3   | 80  | 70  | 62  | 56  | 73 | 64 | 58 | 52 | 54 | 49 | 45 | 45 | 41 | 38 | 36 | 34 | 31 | 27 |
| 4   | 73  | 61  | 53  | 47  | 67 | 57 | 49 | 44 | 48 | 42 | 38 | 40 | 36 | 32 | 32 | 29 | 27 | 23 |
| 5   | 67  | 55  | 46  | 40  | 61 | 51 | 43 | 37 | 43 | 37 | 33 | 36 | 31 | 28 | 29 | 26 | 23 | 20 |
| 6   | 61  | 49  | 40  | 34  | 56 | 45 | 38 | 32 | 38 | 33 | 28 | 32 | 28 | 24 | 26 | 23 | 20 | 17 |
| 7   | 57  | 44  | 36  | 30  | 52 | 41 | 34 | 28 | 35 | 29 | 25 | 29 | 25 | 21 | 24 | 20 | 18 | 15 |
| 8   | 53  | 40  | 32  | 27  | 48 | 37 | 30 | 25 | 32 | 26 | 22 | 27 | 22 | 19 | 22 | 18 | 16 | 13 |
| 9   | 49  | 36  | 29  | 24  | 45 | 34 | 27 | 22 | 29 | 23 | 20 | 24 | 20 | 17 | 20 | 17 | 14 | 12 |
| 10  | 46  | 33  | 26  | 21  | 42 | 31 | 24 | 20 | 27 | 21 | 18 | 23 | 18 | 15 | 19 | 15 | 13 | 11 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 12304 | 12304 | 12304 |
| 5°  | 12343 | 11994 | 12001 |
| 10° | 12232 | 11718 | 11659 |
| 15° | 12075 | 11405 | 11287 |
| 20° | 11849 | 11047 | 10876 |
| 25° | 11571 | 10634 | 10444 |
| 30° | 11287 | 10264 | 10006 |
| 35° | 10967 | 9871  | 9658  |
| 40° | 10663 | 9514  | 9284  |
| 45° | 10325 | 9172  | 8985  |
| 50° | 9990  | 8832  | 8655  |
| 55° | 9622  | 8486  | 8359  |
| 60° | 9263  | 8134  | 8056  |
| 65° | 8896  | 7758  | 7694  |
| 70° | 8341  | 7336  | 7323  |
| 75° | 7640  | 6853  | 6946  |
| 80° | 6835  | 6380  | 6515  |
| 85° | 6085  | 6053  | 6268  |



TEST NUMBER: P332075-927

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 108.4  | 1.5       |
| 10°-20°   | 308.9  | 4.4       |
| 20°-30°   | 462.0  | 6.5       |
| 30°-40°   | 551.8  | 7.8       |
| 40°-50°   | 577.3  | 8.1       |
| 50°-60°   | 541.7  | 7.6       |
| 60°-70°   | 452.5  | 6.4       |
| 70°-80°   | 323.7  | 4.6       |
| 80°-90°   | 196.0  | 2.8       |
| 90°-100°  | 159.8  | 2.3       |
| 100°-110° | 273.4  | 3.9       |
| 110°-120° | 502.4  | 7.1       |
| 120°-130° | 598.0  | 8.4       |
| 130°-140° | 617.9  | 8.7       |
| 140°-150° | 566.9  | 8.0       |
| 150°-160° | 454.6  | 6.4       |
| 160°-170° | 293.4  | 4.1       |
| 170°-180° | 101.1  | 1.4       |
| 0°-30°    | 879.3  | 12.4      |
| 0°-40°    | 1431.1 | 20.2      |
| 0°-60°    | 2550.1 | 36.0      |
| 0°-90°    | 3522.3 | 49.7      |
| 90°-120°  | 935.7  | 13.2      |
| 90°-150°  | 2718.5 | 38.3      |
| 90°-180°  | 3568.0 | 50.3      |
| 0°-180°   | 7090.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 1143 | 1143  | 1143 | 1143  | 1143 |      |
| 5°   | 1144 | 1142  | 1134 | 1144  | 1143 | 108  |
| 15°  | 1090 | 1093  | 1092 | 1104  | 1103 | 307  |
| 25°  | 984  | 996   | 1000 | 1015  | 1016 | 453  |
| 35°  | 847  | 866   | 883  | 901   | 906  | 529  |
| 45°  | 692  | 722   | 753  | 776   | 787  | 534  |
| 55°  | 528  | 569   | 614  | 646   | 658  | 473  |
| 65°  | 365  | 414   | 468  | 504   | 518  | 360  |
| 75°  | 198  | 257   | 319  | 358   | 375  | 212  |
| 85°  | 61   | 124   | 189  | 230   | 244  | 64   |
| 90°  | 17   | 86    | 160  | 203   | 219  | 13   |
| 95°  | 62   | 81    | 148  | 190   | 204  | 70   |
| 105° | 246  | 281   | 267  | 168   | 174  | 260  |
| 115° | 448  | 470   | 520  | 556   | 571  | 443  |
| 125° | 627  | 635   | 672  | 699   | 710  | 560  |
| 135° | 778  | 782   | 798  | 822   | 827  | 599  |
| 145° | 896  | 900   | 902  | 913   | 919  | 561  |
| 155° | 986  | 985   | 985  | 989   | 984  | 454  |
| 165° | 1040 | 1038  | 1037 | 1042  | 1037 | 294  |
| 175° | 1064 | 1061  | 1061 | 1066  | 1060 | 101  |
| 180° | 1064 | 1064  | 1064 | 1064  | 1064 |      |



TEST NUMBER: P332075-927

CATALOG NUMBER: S123DIP-S1165D1025U927-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1143.1 | 1143.1 | 1143.1 | 1143.1 | 1143.1 | 1143.1 | 1143.1 | 1143.1 | 1143.1 | 1143.1 | 1143.1 |
| 2.5°   | 1148.1 | 1147.5 | 1146.8 | 1146.1 | 1145.4 | 1144.2 | 1142.5 | 1140.7 | 1138.9 | 1137.2 | 1138.9 |
| 5°     | 1144.4 | 1143.8 | 1143.3 | 1142.7 | 1142.2 | 1141.1 | 1139.4 | 1137.7 | 1136.1 | 1134.4 | 1136.6 |
| 7.5°   | 1133.1 | 1133.3 | 1133.4 | 1133.5 | 1133.6 | 1132.9 | 1131.2 | 1129.7 | 1128.1 | 1126.4 | 1129.2 |
| 10°    | 1123.2 | 1123.8 | 1124.3 | 1124.9 | 1125.5 | 1125.0 | 1123.6 | 1122.2 | 1120.9 | 1119.4 | 1122.2 |
| 12.5°  | 1111.3 | 1112.0 | 1112.8 | 1113.6 | 1114.4 | 1114.3 | 1113.3 | 1112.4 | 1111.4 | 1110.5 | 1113.0 |
| 15°    | 1089.6 | 1090.4 | 1091.2 | 1092.1 | 1092.9 | 1093.2 | 1092.9 | 1092.7 | 1092.3 | 1092.1 | 1094.9 |
| 17.5°  | 1062.2 | 1063.8 | 1065.5 | 1067.1 | 1068.8 | 1069.6 | 1069.5 | 1069.4 | 1069.3 | 1069.1 | 1071.7 |
| 20°    | 1042.3 | 1043.9 | 1045.6 | 1047.3 | 1048.9 | 1050.0 | 1050.6 | 1051.1 | 1051.7 | 1052.3 | 1054.7 |
| 22.5°  | 1021.4 | 1023.0 | 1024.7 | 1026.4 | 1028.0 | 1029.2 | 1030.0 | 1030.8 | 1031.5 | 1032.3 | 1035.5 |
| 25°    | 983.7  | 986.5  | 989.3  | 992.0  | 994.8  | 996.6  | 997.4  | 998.2  | 999.1  | 999.9  | 1003.5 |
| 27.5°  | 945.9  | 949.0  | 952.2  | 955.4  | 958.5  | 961.0  | 962.7  | 964.5  | 966.3  | 968.0  | 971.1  |
| 30°    | 919.0  | 922.6  | 926.1  | 929.8  | 933.3  | 936.3  | 938.5  | 940.7  | 942.9  | 945.2  | 948.5  |
| 32.5°  | 889.1  | 893.1  | 897.1  | 901.2  | 905.2  | 908.7  | 911.6  | 914.5  | 917.3  | 920.2  | 923.8  |
| 35°    | 846.8  | 851.2  | 855.6  | 860.1  | 864.5  | 868.5  | 872.1  | 875.7  | 879.2  | 882.9  | 887.0  |
| 37.5°  | 801.9  | 806.9  | 811.9  | 816.9  | 821.9  | 826.6  | 831.0  | 835.4  | 839.9  | 844.3  | 849.0  |
| 40°    | 772.1  | 777.1  | 782.0  | 787.0  | 791.9  | 797.3  | 802.8  | 808.3  | 813.8  | 819.4  | 824.1  |
| 42.5°  | 739.2  | 745.3  | 751.4  | 757.4  | 763.5  | 769.4  | 775.2  | 780.9  | 786.7  | 792.5  | 797.6  |
| 45°    | 692.4  | 699.0  | 705.6  | 712.3  | 718.9  | 725.7  | 732.6  | 739.5  | 746.5  | 753.4  | 758.6  |
| 47.5°  | 643.3  | 650.8  | 658.3  | 665.9  | 673.4  | 681.1  | 689.0  | 697.0  | 704.9  | 712.8  | 718.7  |
| 50°    | 611.4  | 619.2  | 626.9  | 634.6  | 642.4  | 650.5  | 659.2  | 667.7  | 676.3  | 684.8  | 691.3  |
| 52.5°  | 577.6  | 585.7  | 593.9  | 602.1  | 610.3  | 619.2  | 628.6  | 638.0  | 647.5  | 657.0  | 663.6  |
| 55°    | 528.0  | 537.1  | 546.2  | 555.4  | 564.5  | 574.0  | 584.0  | 594.0  | 604.0  | 613.9  | 621.4  |
| 57.5°  | 479.7  | 489.2  | 498.7  | 508.2  | 517.8  | 528.0  | 538.8  | 549.8  | 560.6  | 571.6  | 579.1  |
| 60°    | 445.8  | 455.7  | 465.7  | 475.7  | 485.6  | 496.3  | 507.6  | 519.0  | 530.4  | 541.7  | 549.5  |
| 62.5°  | 413.9  | 424.1  | 434.3  | 444.5  | 454.6  | 465.7  | 477.8  | 489.7  | 501.8  | 513.8  | 521.5  |
| 65°    | 364.9  | 375.7  | 386.4  | 397.2  | 408.1  | 419.5  | 431.7  | 443.9  | 456.1  | 468.2  | 476.5  |
| 67.5°  | 315.1  | 326.5  | 337.9  | 349.4  | 360.8  | 372.8  | 385.2  | 397.6  | 410.0  | 422.4  | 431.4  |
| 70°    | 280.2  | 292.1  | 304.0  | 315.8  | 327.8  | 340.4  | 353.6  | 366.9  | 380.2  | 393.5  | 402.3  |
| 72.5°  | 248.3  | 260.2  | 272.1  | 284.0  | 295.9  | 308.7  | 322.4  | 336.1  | 349.9  | 363.6  | 372.7  |
| 75°    | 198.0  | 211.0  | 224.0  | 237.0  | 250.0  | 263.4  | 277.3  | 291.1  | 304.9  | 318.8  | 327.9  |
| 77.5°  | 154.2  | 167.3  | 180.4  | 193.5  | 206.6  | 220.1  | 234.1  | 248.0  | 262.0  | 275.9  | 285.6  |
| 80°    | 123.3  | 136.8  | 150.4  | 164.0  | 177.5  | 191.5  | 205.9  | 220.3  | 234.6  | 249.1  | 258.5  |
| 82.5°  | 96.4   | 110.2  | 124.0  | 137.8  | 151.5  | 165.7  | 180.3  | 195.0  | 209.5  | 224.1  | 233.5  |
| 85°    | 61.0   | 74.9   | 88.7   | 102.5  | 116.4  | 130.6  | 145.3  | 159.9  | 174.6  | 189.3  | 198.7  |
| 87.5°  | 33.3   | 47.5   | 61.6   | 75.7   | 89.8   | 104.2  | 118.7  | 133.3  | 147.9  | 162.5  | 172.0  |
| 90°    | 17.0   | 32.3   | 47.6   | 62.9   | 78.3   | 94.1   | 110.5  | 126.9  | 143.3  | 159.7  | 169.8  |
| 92.5°  | 29.9   | 41.7   | 53.4   | 65.1   | 76.8   | 90.5   | 106.2  | 121.8  | 137.4  | 153.0  | 163.3  |
| 95°    | 61.9   | 65.5   | 69.1   | 72.7   | 76.3   | 85.8   | 101.3  | 116.8  | 132.3  | 147.8  | 157.6  |
| 97.5°  | 109.2  | 115.7  | 122.2  | 128.7  | 135.1  | 138.6  | 138.9  | 139.2  | 139.5  | 139.7  | 149.4  |
| 100°   | 144.8  | 157.2  | 169.6  | 182.0  | 194.3  | 193.1  | 178.5  | 163.8  | 149.1  | 134.4  | 143.9  |
| 102.5° | 185.6  | 196.1  | 206.6  | 217.1  | 227.6  | 224.1  | 206.7  | 189.3  | 171.8  | 154.4  | 157.8  |
| 105°   | 245.6  | 254.1  | 262.8  | 271.3  | 279.9  | 282.3  | 278.3  | 274.4  | 270.5  | 266.6  | 243.2  |
| 107.5° | 307.7  | 314.9  | 322.0  | 329.2  | 336.4  | 346.9  | 360.7  | 374.5  | 388.2  | 402.0  | 386.7  |
| 110°   | 349.0  | 355.5  | 361.9  | 368.2  | 374.6  | 384.3  | 397.3  | 410.3  | 423.3  | 436.3  | 437.7  |



TEST NUMBER: P332075-927

CATALOG NUMBER: S123DIP-S1165D1025U927-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 389.5  | 394.9  | 400.3  | 405.6  | 411.0  | 419.9  | 432.5  | 445.0  | 457.6  | 470.2  | 477.3  |
| 115°   | 448.2  | 452.6  | 457.0  | 461.4  | 465.7  | 473.7  | 485.2  | 496.8  | 508.3  | 519.8  | 528.2  |
| 117.5° | 506.0  | 509.4  | 512.7  | 516.1  | 519.4  | 526.2  | 536.3  | 546.5  | 556.7  | 566.8  | 574.8  |
| 120°   | 541.1  | 544.1  | 547.0  | 550.0  | 552.9  | 559.3  | 568.9  | 578.6  | 588.2  | 597.9  | 605.7  |
| 122.5° | 577.7  | 579.8  | 581.8  | 583.8  | 585.8  | 591.5  | 600.9  | 610.2  | 619.6  | 629.0  | 636.1  |
| 125°   | 626.9  | 628.2  | 629.6  | 631.1  | 632.5  | 637.5  | 646.3  | 655.0  | 663.7  | 672.4  | 678.6  |
| 127.5° | 675.5  | 676.7  | 677.8  | 678.9  | 680.0  | 684.4  | 691.8  | 699.3  | 706.8  | 714.3  | 720.3  |
| 130°   | 705.9  | 707.0  | 708.1  | 709.2  | 710.4  | 714.1  | 720.3  | 726.6  | 732.8  | 739.0  | 745.0  |
| 132.5° | 734.0  | 735.3  | 736.7  | 738.1  | 739.4  | 742.6  | 747.6  | 752.6  | 757.6  | 762.6  | 768.3  |
| 135°   | 778.2  | 779.0  | 779.7  | 780.5  | 781.3  | 783.5  | 787.3  | 791.1  | 794.8  | 798.5  | 804.1  |
| 137.5° | 815.9  | 817.0  | 818.1  | 819.2  | 820.3  | 822.0  | 824.0  | 826.2  | 828.2  | 830.4  | 835.6  |
| 140°   | 840.2  | 841.2  | 842.3  | 843.4  | 844.4  | 845.7  | 847.0  | 848.3  | 849.7  | 851.0  | 855.9  |
| 142.5° | 863.6  | 864.4  | 865.3  | 866.1  | 867.0  | 867.7  | 868.4  | 869.1  | 869.7  | 870.4  | 874.7  |
| 145°   | 896.4  | 897.3  | 898.3  | 899.2  | 900.2  | 900.8  | 901.2  | 901.5  | 901.8  | 902.2  | 904.8  |
| 147.5° | 925.9  | 926.8  | 927.6  | 928.4  | 929.2  | 929.7  | 930.1  | 930.4  | 930.8  | 931.1  | 932.2  |
| 150°   | 944.9  | 945.5  | 945.9  | 946.5  | 947.0  | 947.5  | 947.8  | 948.2  | 948.5  | 948.9  | 949.2  |
| 152.5° | 961.9  | 962.3  | 962.5  | 962.7  | 963.0  | 963.2  | 963.4  | 963.6  | 963.8  | 964.0  | 964.6  |
| 155°   | 986.0  | 985.6  | 985.3  | 985.0  | 984.6  | 984.5  | 984.7  | 984.8  | 985.1  | 985.2  | 986.1  |
| 157.5° | 1004.6 | 1004.6 | 1004.6 | 1004.6 | 1004.6 | 1004.4 | 1004.2 | 1004.1 | 1003.9 | 1003.7 | 1004.8 |
| 160°   | 1016.1 | 1015.9 | 1015.7 | 1015.6 | 1015.3 | 1015.2 | 1015.0 | 1014.9 | 1014.6 | 1014.5 | 1015.6 |
| 162.5° | 1026.8 | 1026.4 | 1025.9 | 1025.5 | 1025.0 | 1024.7 | 1024.5 | 1024.3 | 1024.1 | 1024.0 | 1025.2 |
| 165°   | 1039.8 | 1039.3 | 1038.7 | 1038.2 | 1037.7 | 1037.4 | 1037.1 | 1037.0 | 1036.8 | 1036.6 | 1038.0 |
| 167.5° | 1049.9 | 1049.2 | 1048.5 | 1047.8 | 1047.1 | 1046.7 | 1046.7 | 1046.7 | 1046.7 | 1046.7 | 1048.1 |
| 170°   | 1055.6 | 1054.9 | 1054.2 | 1053.5 | 1052.8 | 1052.4 | 1052.4 | 1052.4 | 1052.4 | 1052.4 | 1053.8 |
| 172.5° | 1059.4 | 1058.6 | 1057.7 | 1056.9 | 1056.1 | 1055.7 | 1055.8 | 1056.0 | 1056.1 | 1056.2 | 1057.6 |
| 175°   | 1064.3 | 1063.4 | 1062.6 | 1061.7 | 1060.8 | 1060.4 | 1060.6 | 1060.8 | 1061.0 | 1061.1 | 1062.4 |
| 177.5° | 1065.6 | 1064.9 | 1064.1 | 1063.4 | 1062.8 | 1062.5 | 1062.6 | 1062.8 | 1062.9 | 1063.0 | 1064.1 |
| 180°   | 1064.3 | 1064.3 | 1064.3 | 1064.3 | 1064.3 | 1064.3 | 1064.3 | 1064.3 | 1064.3 | 1064.3 | 1064.3 |



TEST NUMBER: P332075-927

CATALOG NUMBER: S123DIP-S1165D1025U927-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1143.1 | 1143.1 | 1143.1 | 1143.1 | 1143.1 | 1143.1 | 1143.1 | 1143.1 |
| 2.5°   | 1140.7 | 1142.5 | 1144.2 | 1145.0 | 1144.8 | 1144.5 | 1144.3 | 1144.1 |
| 5°     | 1138.8 | 1141.1 | 1143.3 | 1144.2 | 1144.0 | 1143.7 | 1143.4 | 1143.1 |
| 7.5°   | 1131.9 | 1134.7 | 1137.5 | 1138.8 | 1138.4 | 1138.0 | 1137.7 | 1137.4 |
| 10°    | 1125.0 | 1127.8 | 1130.5 | 1131.6 | 1131.1 | 1130.5 | 1130.0 | 1129.4 |
| 12.5°  | 1115.6 | 1118.2 | 1120.7 | 1121.7 | 1121.1 | 1120.5 | 1120.0 | 1119.4 |
| 15°    | 1097.6 | 1100.3 | 1103.1 | 1104.4 | 1104.1 | 1103.8 | 1103.6 | 1103.3 |
| 17.5°  | 1074.1 | 1076.7 | 1079.1 | 1080.1 | 1079.8 | 1079.4 | 1079.0 | 1078.6 |
| 20°    | 1057.2 | 1059.7 | 1062.2 | 1063.6 | 1063.8 | 1064.1 | 1064.4 | 1064.7 |
| 22.5°  | 1038.6 | 1041.8 | 1044.9 | 1046.4 | 1046.2 | 1046.1 | 1045.9 | 1045.8 |
| 25°    | 1007.1 | 1010.7 | 1014.3 | 1016.1 | 1016.1 | 1016.1 | 1016.1 | 1016.1 |
| 27.5°  | 974.2  | 977.3  | 980.4  | 982.1  | 982.3  | 982.5  | 982.8  | 983.0  |
| 30°    | 951.8  | 955.1  | 958.4  | 960.0  | 960.0  | 960.0  | 960.0  | 960.0  |
| 32.5°  | 927.3  | 930.9  | 934.4  | 936.5  | 937.2  | 937.9  | 938.5  | 939.1  |
| 35°    | 891.2  | 895.3  | 899.4  | 902.1  | 903.2  | 904.4  | 905.5  | 906.5  |
| 37.5°  | 853.7  | 858.4  | 863.1  | 865.9  | 866.8  | 867.7  | 868.5  | 869.4  |
| 40°    | 828.8  | 833.5  | 838.2  | 841.1  | 842.2  | 843.3  | 844.4  | 845.5  |
| 42.5°  | 802.8  | 807.9  | 813.1  | 816.4  | 817.9  | 819.5  | 821.0  | 822.6  |
| 45°    | 763.9  | 769.1  | 774.4  | 778.2  | 780.4  | 782.6  | 784.8  | 787.0  |
| 47.5°  | 724.6  | 730.6  | 736.5  | 740.3  | 742.0  | 743.7  | 745.4  | 747.1  |
| 50°    | 697.6  | 704.0  | 710.3  | 714.5  | 716.4  | 718.4  | 720.3  | 722.2  |
| 52.5°  | 670.2  | 676.8  | 683.3  | 687.9  | 690.2  | 692.6  | 695.0  | 697.4  |
| 55°    | 628.8  | 636.3  | 643.8  | 648.6  | 650.9  | 653.1  | 655.3  | 657.5  |
| 57.5°  | 586.6  | 594.1  | 601.7  | 606.7  | 609.3  | 612.0  | 614.6  | 617.1  |
| 60°    | 557.1  | 564.9  | 572.7  | 578.1  | 581.1  | 584.2  | 587.2  | 590.3  |
| 62.5°  | 529.3  | 537.0  | 544.8  | 550.1  | 552.9  | 555.7  | 558.6  | 561.3  |
| 65°    | 484.8  | 493.1  | 501.5  | 506.9  | 509.7  | 512.5  | 515.2  | 518.0  |
| 67.5°  | 440.5  | 449.6  | 458.7  | 464.4  | 466.8  | 469.1  | 471.3  | 473.7  |
| 70°    | 411.2  | 420.1  | 428.9  | 434.7  | 437.5  | 440.3  | 443.0  | 445.8  |
| 72.5°  | 381.8  | 390.9  | 399.9  | 405.8  | 408.6  | 411.4  | 414.2  | 416.9  |
| 75°    | 337.1  | 346.2  | 355.3  | 361.6  | 364.9  | 368.2  | 371.5  | 374.8  |
| 77.5°  | 295.2  | 304.8  | 314.5  | 320.5  | 323.1  | 325.7  | 328.2  | 330.7  |
| 80°    | 267.8  | 277.3  | 286.7  | 292.8  | 295.6  | 298.3  | 301.1  | 303.8  |
| 82.5°  | 243.0  | 252.4  | 261.7  | 267.8  | 270.6  | 273.4  | 276.2  | 278.9  |
| 85°    | 208.1  | 217.5  | 226.9  | 233.0  | 235.8  | 238.5  | 241.3  | 244.1  |
| 87.5°  | 181.6  | 191.1  | 200.7  | 206.8  | 209.7  | 212.5  | 215.3  | 218.2  |
| 90°    | 179.9  | 190.0  | 200.1  | 206.8  | 209.8  | 213.0  | 216.1  | 219.2  |
| 92.5°  | 173.6  | 183.9  | 194.2  | 200.7  | 203.5  | 206.3  | 209.1  | 211.8  |
| 95°    | 167.4  | 177.2  | 187.0  | 193.3  | 196.1  | 198.8  | 201.6  | 204.4  |
| 97.5°  | 159.1  | 168.7  | 178.4  | 184.7  | 187.6  | 190.6  | 193.5  | 196.5  |
| 100°   | 153.3  | 162.7  | 172.1  | 178.3  | 181.3  | 184.3  | 187.2  | 190.1  |
| 102.5° | 161.3  | 164.7  | 168.2  | 171.4  | 174.5  | 177.6  | 180.7  | 183.8  |
| 105°   | 219.8  | 196.5  | 173.2  | 162.9  | 165.7  | 168.6  | 171.4  | 174.3  |
| 107.5° | 371.3  | 355.9  | 340.5  | 322.3  | 301.3  | 280.3  | 259.3  | 238.3  |
| 110°   | 439.1  | 440.5  | 441.9  | 431.1  | 408.2  | 385.3  | 362.4  | 339.5  |





TEST NUMBER: P332075-927

CATALOG NUMBER: S123DIP-S1165D1025U927-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 484.3  | 491.4  | 498.5  | 500.6  | 497.7  | 494.9  | 492.0  | 489.1  |
| 115°   | 536.7  | 545.1  | 553.5  | 559.1  | 562.1  | 565.0  | 567.8  | 570.8  |
| 117.5° | 582.8  | 590.8  | 598.8  | 604.0  | 606.3  | 608.6  | 610.9  | 613.1  |
| 120°   | 613.5  | 621.2  | 629.0  | 633.8  | 635.7  | 637.7  | 639.6  | 641.6  |
| 122.5° | 643.3  | 650.4  | 657.5  | 662.1  | 664.2  | 666.2  | 668.3  | 670.4  |
| 125°   | 684.8  | 690.9  | 697.0  | 701.3  | 703.6  | 705.8  | 708.1  | 710.4  |
| 127.5° | 726.4  | 732.4  | 738.5  | 742.3  | 743.8  | 745.3  | 746.9  | 748.4  |
| 130°   | 751.0  | 756.9  | 762.9  | 766.5  | 767.9  | 769.1  | 770.5  | 771.7  |
| 132.5° | 774.0  | 779.7  | 785.4  | 789.0  | 790.4  | 791.8  | 793.2  | 794.6  |
| 135°   | 809.5  | 815.1  | 820.5  | 823.8  | 824.6  | 825.5  | 826.3  | 827.2  |
| 137.5° | 840.8  | 846.0  | 851.2  | 854.4  | 855.4  | 856.4  | 857.5  | 858.5  |
| 140°   | 860.8  | 865.6  | 870.4  | 873.4  | 874.4  | 875.4  | 876.5  | 877.5  |
| 142.5° | 879.0  | 883.3  | 887.6  | 890.1  | 891.0  | 891.9  | 892.8  | 893.7  |
| 145°   | 907.4  | 909.9  | 912.4  | 914.3  | 915.4  | 916.6  | 917.6  | 918.7  |
| 147.5° | 933.2  | 934.2  | 935.2  | 935.8  | 936.0  | 936.2  | 936.4  | 936.6  |
| 150°   | 949.6  | 949.9  | 950.3  | 950.5  | 950.5  | 950.5  | 950.5  | 950.5  |
| 152.5° | 965.3  | 965.9  | 966.5  | 966.5  | 965.8  | 965.1  | 964.5  | 963.8  |
| 155°   | 987.0  | 987.9  | 988.7  | 988.6  | 987.6  | 986.6  | 985.5  | 984.4  |
| 157.5° | 1005.8 | 1006.9 | 1008.0 | 1007.8 | 1006.4 | 1005.0 | 1003.7 | 1002.3 |
| 160°   | 1016.6 | 1017.6 | 1018.7 | 1018.6 | 1017.4 | 1016.1 | 1014.9 | 1013.7 |
| 162.5° | 1026.4 | 1027.5 | 1028.7 | 1028.8 | 1027.7 | 1026.6 | 1025.6 | 1024.5 |
| 165°   | 1039.4 | 1040.8 | 1042.3 | 1042.4 | 1041.1 | 1039.9 | 1038.6 | 1037.4 |
| 167.5° | 1049.6 | 1051.0 | 1052.3 | 1052.3 | 1051.0 | 1049.6 | 1048.1 | 1046.7 |
| 170°   | 1055.3 | 1056.7 | 1058.0 | 1058.0 | 1056.7 | 1055.3 | 1053.8 | 1052.4 |
| 172.5° | 1059.1 | 1060.4 | 1061.8 | 1061.8 | 1060.3 | 1058.7 | 1057.2 | 1055.6 |
| 175°   | 1063.6 | 1064.9 | 1066.0 | 1066.0 | 1064.5 | 1063.2 | 1061.8 | 1060.3 |
| 177.5° | 1065.2 | 1066.4 | 1067.5 | 1067.4 | 1066.0 | 1064.6 | 1063.2 | 1061.8 |
| 180°   | 1064.3 | 1064.3 | 1064.3 | 1064.3 | 1064.3 | 1064.3 | 1064.3 | 1064.3 |

(END OF REPORT)