

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: P332068-927

Luminaire Tested: **S123DIP-S1165D805U927-4F0-1E-UDD-D4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332068-927  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIP-S1165D805U927-4F0-1E-UDD-D4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1165 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 805 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6145.7 lumens  
Efficiency: N/A  
Efficacy: 101.2 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

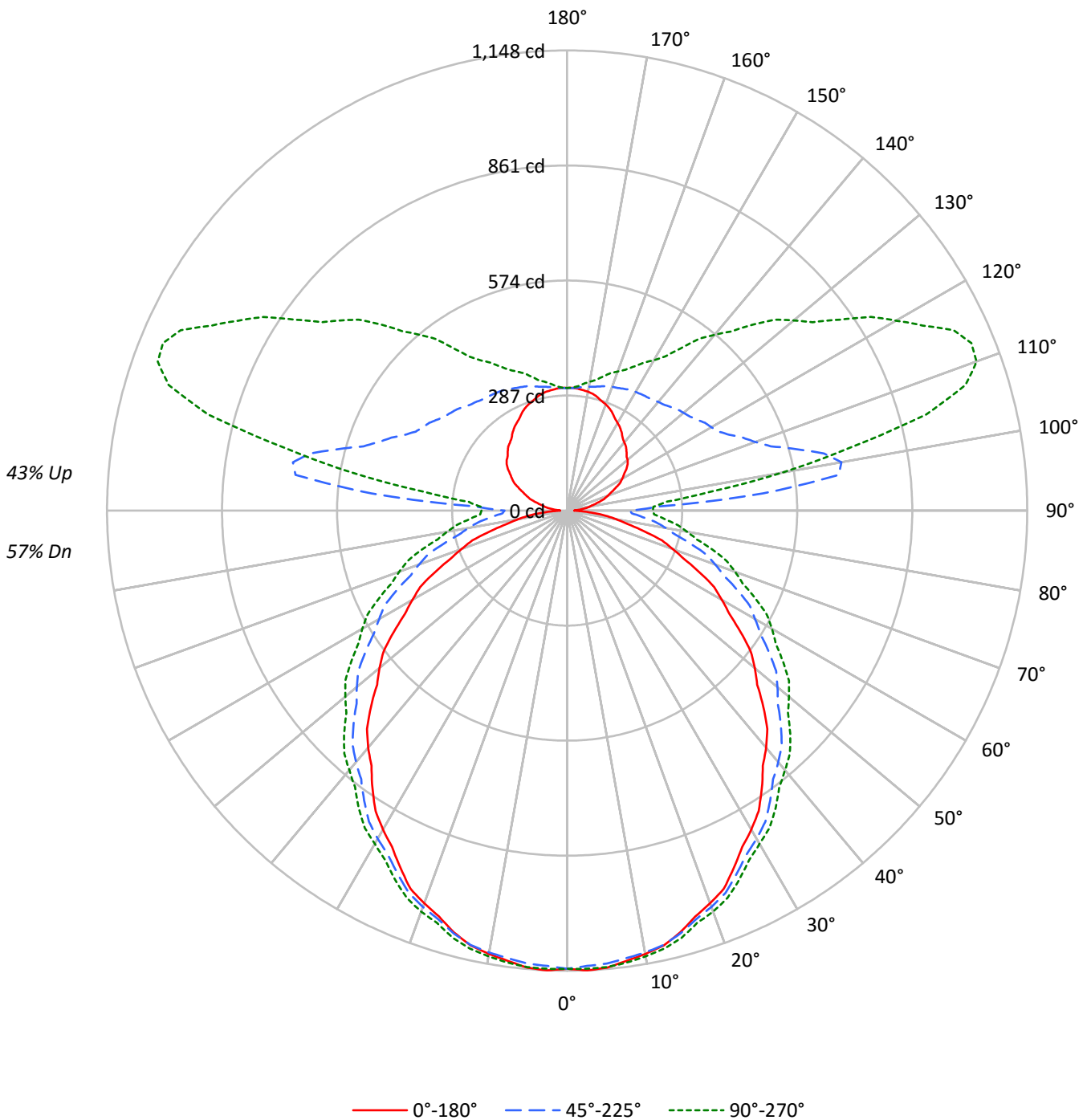
Input Watts (W): 60.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332068-927

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### Luminous Intensity Polar Plot





TEST NUMBER: P332068-927

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20 |    |    |    | 20 |    |    |    | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     | 50 |    |    |    | 30 |    |    |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |
| 0   | 109 | 109 | 109 | 109 | 101 | 101 | 101 | 101 | 87 | 87 | 87 | 75 | 75 | 75 | 63 | 63 | 63 |
| 1   | 98  | 93  | 89  | 85  | 91  | 87  | 83  | 80  | 75 | 72 | 69 | 64 | 62 | 60 | 54 | 52 | 51 |
| 2   | 89  | 81  | 74  | 68  | 82  | 75  | 69  | 64  | 65 | 60 | 56 | 55 | 52 | 49 | 46 | 44 | 42 |
| 3   | 81  | 71  | 63  | 56  | 75  | 66  | 59  | 53  | 57 | 51 | 47 | 49 | 44 | 41 | 41 | 38 | 35 |
| 4   | 74  | 62  | 54  | 47  | 68  | 58  | 51  | 45  | 50 | 44 | 40 | 43 | 38 | 35 | 36 | 33 | 30 |
| 5   | 68  | 55  | 47  | 40  | 63  | 52  | 44  | 38  | 45 | 39 | 34 | 39 | 34 | 30 | 33 | 29 | 26 |
| 6   | 62  | 50  | 41  | 35  | 58  | 46  | 39  | 33  | 40 | 34 | 30 | 35 | 30 | 26 | 29 | 26 | 23 |
| 7   | 58  | 45  | 36  | 31  | 53  | 42  | 34  | 29  | 37 | 30 | 26 | 32 | 27 | 23 | 27 | 23 | 20 |
| 8   | 53  | 41  | 33  | 27  | 50  | 38  | 31  | 26  | 33 | 27 | 23 | 29 | 24 | 20 | 25 | 21 | 18 |
| 9   | 50  | 37  | 29  | 24  | 46  | 35  | 28  | 23  | 31 | 25 | 21 | 27 | 22 | 18 | 23 | 19 | 16 |
| 10  | 46  | 34  | 27  | 22  | 43  | 32  | 25  | 21  | 28 | 22 | 19 | 25 | 20 | 17 | 21 | 17 | 15 |

**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  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 108.4  | 1.8       |
| 10°-20°   | 308.9  | 5.0       |
| 20°-30°   | 462.0  | 7.5       |
| 30°-40°   | 551.8  | 9.0       |
| 40°-50°   | 577.3  | 9.4       |
| 50°-60°   | 541.7  | 8.8       |
| 60°-70°   | 452.5  | 7.4       |
| 70°-80°   | 323.7  | 5.3       |
| 80°-90°   | 195.4  | 3.2       |
| 90°-100°  | 291.4  | 4.7       |
| 100°-110° | 571.1  | 9.3       |
| 110°-120° | 533.7  | 8.7       |
| 120°-130° | 412.3  | 6.7       |
| 130°-140° | 313.5  | 5.1       |
| 140°-150° | 225.9  | 3.7       |
| 150°-160° | 155.2  | 2.5       |
| 160°-170° | 91.2   | 1.5       |
| 170°-180° | 29.7   | 0.5       |
| 0°-30°    | 879.3  | 14.3      |
| 0°-40°    | 1431.1 | 23.3      |
| 0°-60°    | 2550.1 | 41.5      |
| 0°-90°    | 3521.7 | 57.3      |
| 90°-120°  | 1396.3 | 22.7      |
| 90°-150°  | 2347.9 | 38.2      |
| 90°-180°  | 2624.0 | 42.7      |
| 0°-180°   | 6145.7 | 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   | 85    | 156  | 199   | 214  | 12   |
| 95°  | 35   | 131   | 490  | 268   | 246  | 33   |
| 105° | 82   | 147   | 591  | 998   | 927  | 86   |
| 115° | 133  | 181   | 447  | 930   | 1064 | 132  |
| 125° | 180  | 214   | 395  | 709   | 830  | 160  |
| 135° | 209  | 249   | 366  | 567   | 656  | 162  |
| 145° | 237  | 270   | 346  | 445   | 494  | 148  |
| 155° | 268  | 289   | 335  | 381   | 397  | 123  |
| 165° | 293  | 301   | 321  | 340   | 346  | 83   |
| 175° | 305  | 306   | 308  | 312   | 312  | 29   |
| 180° | 306  | 306   | 306  | 306   | 306  |      |



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**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°  | 33.4   | 47.4   | 61.4   | 75.6   | 89.6   | 103.8  | 118.3  | 132.8  | 147.3  | 161.8  | 171.0  |
| 90°    | 17.4   | 32.2   | 47.1   | 62.4   | 77.2   | 92.3   | 108.3  | 124.3  | 140.2  | 156.2  | 165.0  |
| 92.5°  | 22.9   | 38.8   | 56.2   | 73.3   | 90.8   | 113.0  | 143.1  | 183.6  | 223.6  | 228.0  | 213.8  |
| 95°    | 34.8   | 47.4   | 65.0   | 86.3   | 113.2  | 149.6  | 215.8  | 321.6  | 436.7  | 490.5  | 429.8  |
| 97.5°  | 48.2   | 58.5   | 73.5   | 92.4   | 118.0  | 155.5  | 218.8  | 335.8  | 518.1  | 683.5  | 731.5  |
| 100°   | 57.0   | 66.5   | 79.7   | 97.2   | 121.0  | 155.9  | 212.0  | 316.4  | 492.0  | 694.8  | 824.9  |
| 102.5° | 66.5   | 75.5   | 87.4   | 103.5  | 124.8  | 157.2  | 208.7  | 299.0  | 456.5  | 656.6  | 823.6  |
| 105°   | 81.8   | 90.3   | 100.7  | 114.7  | 133.2  | 161.6  | 207.0  | 282.7  | 411.6  | 591.4  | 776.8  |
| 107.5° | 96.9   | 104.4  | 113.7  | 126.6  | 143.3  | 169.6  | 210.2  | 274.5  | 380.2  | 532.8  | 701.6  |
| 110°   | 107.8  | 114.6  | 122.7  | 134.5  | 150.0  | 175.4  | 214.4  | 272.4  | 366.5  | 499.6  | 654.8  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 118.7 | 124.7 | 131.8 | 142.8 | 157.4 | 181.6 | 218.1 | 272.4 | 356.0 | 474.8 | 612.4 |
| 115°   | 133.2 | 139.0 | 146.0 | 155.5 | 169.4 | 192.7 | 226.2 | 274.0 | 347.1 | 446.9 | 560.7 |
| 117.5° | 148.7 | 153.6 | 158.8 | 166.4 | 180.3 | 201.5 | 234.1 | 277.2 | 340.2 | 426.3 | 525.5 |
| 120°   | 158.6 | 161.8 | 166.3 | 173.9 | 187.0 | 207.8 | 239.2 | 280.5 | 337.4 | 415.8 | 506.4 |
| 122.5° | 168.0 | 170.6 | 174.4 | 181.8 | 193.8 | 215.0 | 245.4 | 283.8 | 336.3 | 407.4 | 489.9 |
| 125°   | 180.2 | 181.5 | 185.2 | 192.0 | 203.7 | 224.5 | 254.2 | 289.5 | 334.7 | 395.4 | 467.5 |
| 127.5° | 190.5 | 192.1 | 196.4 | 203.1 | 215.8 | 235.7 | 263.3 | 294.5 | 334.5 | 385.6 | 446.7 |
| 130°   | 196.9 | 198.5 | 203.8 | 211.0 | 223.7 | 243.1 | 269.0 | 298.1 | 334.6 | 379.2 | 434.6 |
| 132.5° | 200.9 | 203.2 | 209.2 | 218.1 | 231.1 | 249.5 | 273.9 | 301.3 | 333.7 | 373.7 | 422.9 |
| 135°   | 209.4 | 211.5 | 218.1 | 227.1 | 239.8 | 257.9 | 280.2 | 304.3 | 332.1 | 365.5 | 407.0 |
| 137.5° | 217.3 | 219.7 | 226.1 | 235.8 | 248.5 | 264.7 | 284.9 | 306.7 | 330.4 | 358.1 | 393.1 |
| 140°   | 221.7 | 224.8 | 231.0 | 240.9 | 253.3 | 269.2 | 288.0 | 307.4 | 329.3 | 353.7 | 384.4 |
| 142.5° | 227.7 | 230.0 | 236.5 | 245.3 | 257.4 | 271.9 | 289.5 | 307.8 | 327.5 | 348.7 | 376.0 |
| 145°   | 237.2 | 238.8 | 244.1 | 253.1 | 263.3 | 277.5 | 293.6 | 310.3 | 327.6 | 346.2 | 368.3 |
| 147.5° | 245.7 | 246.8 | 252.2 | 260.2 | 270.4 | 282.6 | 297.3 | 312.3 | 327.6 | 343.9 | 361.5 |
| 150°   | 252.1 | 252.7 | 257.6 | 265.7 | 274.3 | 285.5 | 299.8 | 312.8 | 327.6 | 341.9 | 357.4 |
| 152.5° | 258.5 | 258.6 | 263.6 | 270.7 | 278.3 | 289.0 | 301.3 | 313.8 | 326.1 | 339.4 | 353.4 |
| 155°   | 268.2 | 268.2 | 271.9 | 278.1 | 284.9 | 293.6 | 304.1 | 314.0 | 324.6 | 335.1 | 347.5 |
| 157.5° | 275.8 | 276.3 | 279.3 | 284.8 | 290.6 | 297.3 | 305.7 | 314.7 | 322.4 | 331.2 | 340.8 |
| 160°   | 281.8 | 281.8 | 284.3 | 289.2 | 293.6 | 299.8 | 307.2 | 314.7 | 321.5 | 328.3 | 336.3 |
| 162.5° | 286.3 | 286.3 | 288.3 | 292.2 | 296.0 | 301.3 | 307.7 | 314.1 | 319.5 | 325.3 | 331.8 |
| 165°   | 292.9 | 292.3 | 293.6 | 296.7 | 299.1 | 303.5 | 308.4 | 312.8 | 316.5 | 320.8 | 325.7 |
| 167.5° | 298.0 | 297.3 | 297.9 | 300.2 | 302.0 | 304.8 | 308.3 | 311.8 | 313.5 | 316.4 | 320.0 |
| 170°   | 301.0 | 299.8 | 300.4 | 302.2 | 303.5 | 304.8 | 307.8 | 310.3 | 311.6 | 313.4 | 316.5 |
| 172.5° | 303.0 | 302.2 | 302.4 | 303.7 | 304.4 | 305.2 | 307.8 | 309.8 | 310.1 | 310.9 | 313.0 |
| 175°   | 305.3 | 304.8 | 304.1 | 305.3 | 305.3 | 305.9 | 307.2 | 308.4 | 307.8 | 307.8 | 309.0 |
| 177.5° | 306.4 | 305.9 | 305.5 | 305.9 | 305.9 | 305.9 | 306.4 | 307.4 | 306.4 | 305.9 | 306.4 |
| 180°   | 305.9 | 305.9 | 305.9 | 305.9 | 305.9 | 305.9 | 305.9 | 305.9 | 305.9 | 305.9 | 305.9 |



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**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°  | 180.5  | 190.1  | 199.6  | 206.0  | 208.6  | 211.5  | 214.4  | 217.1  |
| 90°    | 175.0  | 185.1  | 195.0  | 202.4  | 204.5  | 207.9  | 211.4  | 213.5  |
| 92.5°  | 203.3  | 201.7  | 206.0  | 208.7  | 210.1  | 210.8  | 214.0  | 215.4  |
| 95°    | 363.4  | 300.2  | 275.9  | 259.3  | 250.3  | 247.5  | 245.9  | 246.2  |
| 97.5°  | 686.6  | 584.2  | 512.6  | 444.0  | 401.1  | 376.0  | 362.0  | 359.5  |
| 100°   | 854.6  | 812.5  | 748.0  | 665.4  | 605.7  | 563.2  | 541.9  | 545.3  |
| 102.5° | 906.2  | 912.4  | 877.9  | 827.4  | 781.6  | 748.5  | 731.1  | 719.6  |
| 105°   | 914.0  | 983.7  | 1003.2 | 992.3  | 966.2  | 945.2  | 927.9  | 927.2  |
| 107.5° | 855.9  | 963.8  | 1025.5 | 1052.5 | 1055.4 | 1050.0 | 1045.7 | 1042.4 |
| 110°   | 803.8  | 925.0  | 1010.3 | 1058.3 | 1077.8 | 1085.1 | 1086.0 | 1087.0 |





TEST NUMBER: P332068-927

CATALOG NUMBER: S123DIP-S1165D805U927-4F0-1E-UDD-D4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|-------|-------|-------|--------|--------|--------|--------|--------|
| 112.5° | 751.4 | 874.7 | 969.2 | 1029.6 | 1063.7 | 1081.6 | 1088.7 | 1091.4 |
| 115°   | 681.9 | 796.3 | 894.0 | 965.9  | 1014.6 | 1044.1 | 1058.7 | 1064.0 |
| 117.5° | 628.8 | 728.5 | 816.8 | 889.7  | 940.2  | 973.7  | 993.6  | 1000.0 |
| 120°   | 600.2 | 690.1 | 770.8 | 837.5  | 888.4  | 925.0  | 941.8  | 947.5  |
| 122.5° | 576.4 | 658.2 | 733.2 | 795.4  | 840.7  | 873.9  | 892.2  | 898.9  |
| 125°   | 543.8 | 617.2 | 682.5 | 735.9  | 777.4  | 806.6  | 824.0  | 830.3  |
| 127.5° | 514.4 | 580.1 | 639.2 | 687.9  | 725.2  | 750.4  | 766.2  | 772.1  |
| 130°   | 495.6 | 556.6 | 612.0 | 657.6  | 692.1  | 716.1  | 730.7  | 737.4  |
| 132.5° | 477.8 | 534.1 | 585.8 | 629.5  | 662.2  | 686.3  | 699.7  | 705.1  |
| 135°   | 453.5 | 502.5 | 547.7 | 586.1  | 617.9  | 637.9  | 650.4  | 656.1  |
| 137.5° | 431.0 | 471.5 | 510.6 | 544.0  | 570.9  | 591.1  | 601.9  | 606.2  |
| 140°   | 417.7 | 453.4 | 487.4 | 516.7  | 541.6  | 560.4  | 571.6  | 572.4  |
| 142.5° | 404.4 | 435.2 | 464.7 | 490.4  | 511.9  | 528.6  | 538.9  | 539.7  |
| 145°   | 390.3 | 413.0 | 435.0 | 454.6  | 471.2  | 485.3  | 491.3  | 493.7  |
| 147.5° | 378.9 | 395.8 | 412.4 | 426.0  | 438.8  | 448.5  | 454.2  | 455.7  |
| 150°   | 371.6 | 385.9 | 398.9 | 410.9  | 420.7  | 428.1  | 432.4  | 432.9  |
| 152.5° | 366.1 | 378.4 | 389.9 | 399.8  | 407.2  | 413.6  | 416.0  | 416.1  |
| 155°   | 358.0 | 367.9 | 377.2 | 384.6  | 390.1  | 395.1  | 396.4  | 397.0  |
| 157.5° | 349.3 | 357.6 | 364.8 | 370.6  | 375.4  | 379.1  | 380.2  | 380.0  |
| 160°   | 344.4 | 351.2 | 357.4 | 361.7  | 366.1  | 369.7  | 369.7  | 369.2  |
| 162.5° | 338.4 | 344.2 | 349.9 | 353.8  | 356.6  | 359.8  | 359.8  | 359.3  |
| 165°   | 330.7 | 334.5 | 338.8 | 341.9  | 344.4  | 346.8  | 346.2  | 346.2  |
| 167.5° | 324.0 | 326.9 | 329.4 | 331.6  | 332.7  | 334.5  | 333.8  | 333.8  |
| 170°   | 319.6 | 321.5 | 323.9 | 325.2  | 325.7  | 327.0  | 326.4  | 326.4  |
| 172.5° | 315.6 | 317.0 | 318.9 | 319.7  | 319.8  | 321.1  | 320.0  | 319.5  |
| 175°   | 310.3 | 310.9 | 312.1 | 312.1  | 312.1  | 312.8  | 312.1  | 311.6  |
| 177.5° | 307.0 | 307.4 | 307.9 | 307.9  | 307.4  | 307.9  | 307.0  | 307.0  |
| 180°   | 305.9 | 305.9 | 305.9 | 305.9  | 305.9  | 305.9  | 305.9  | 305.9  |

(END OF REPORT)