

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: P331318

Luminaire Tested: **S122DIP-S485D925U835-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331318
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-S485D925U835-4F0-1E-UDD-F
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 925 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5678.0 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.3
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Indirect

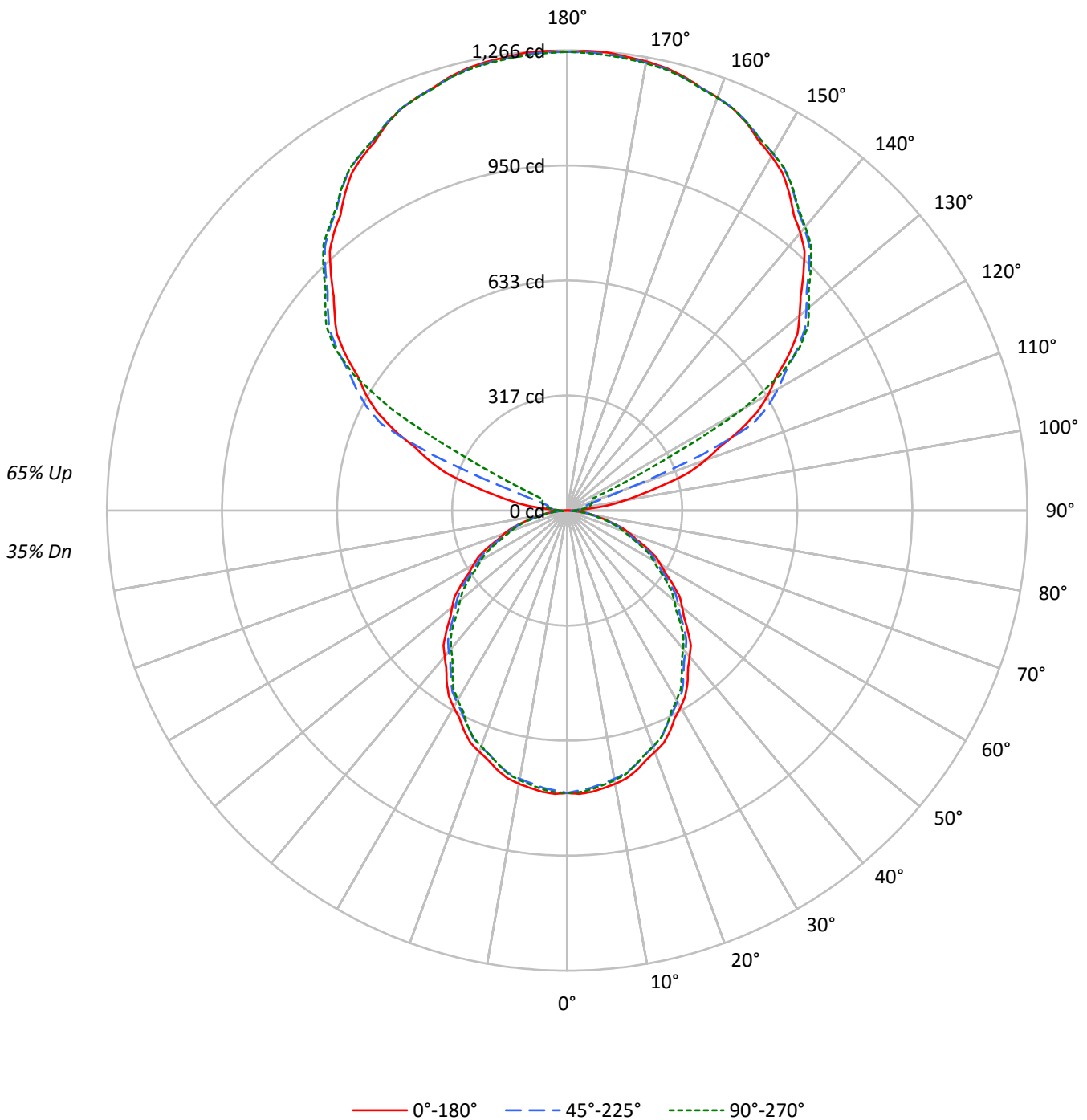
Input Watts (W): 44.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331318

CATALOG NUMBER: S122DIP-S485D925U835-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P331318

CATALOG NUMBER: S122DIP-S485D925U835-4F0-1E-UDD-F

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 | 104 | 104 | 104 | 104 | 94 | 94 | 94 | 94 | 75 | 75 | 75 | 58 | 58 | 58 | 42 | 42 | 42 | 35 |
| 1 | 94 | 90 | 86 | 83 | 85 | 82 | 78 | 75 | 66 | 63 | 61 | 51 | 49 | 48 | 37 | 36 | 36 | 29 |
| 2 | 86 | 79 | 73 | 68 | 77 | 71 | 66 | 62 | 57 | 54 | 51 | 45 | 42 | 40 | 33 | 31 | 30 | 25 |
| 3 | 78 | 69 | 62 | 56 | 70 | 63 | 57 | 52 | 51 | 46 | 43 | 39 | 36 | 34 | 29 | 27 | 25 | 21 |
| 4 | 72 | 61 | 53 | 48 | 64 | 55 | 49 | 44 | 45 | 40 | 36 | 35 | 32 | 29 | 26 | 24 | 22 | 18 |
| 5 | 66 | 54 | 46 | 41 | 59 | 49 | 43 | 37 | 40 | 35 | 31 | 31 | 28 | 25 | 23 | 21 | 19 | 16 |
| 6 | 60 | 49 | 41 | 35 | 54 | 44 | 37 | 32 | 36 | 31 | 27 | 28 | 25 | 22 | 21 | 19 | 17 | 14 |
| 7 | 56 | 44 | 36 | 31 | 50 | 40 | 33 | 28 | 33 | 28 | 24 | 26 | 22 | 19 | 19 | 17 | 15 | 12 |
| 8 | 52 | 40 | 32 | 27 | 47 | 36 | 30 | 25 | 30 | 25 | 21 | 24 | 20 | 17 | 18 | 15 | 13 | 11 |
| 9 | 48 | 36 | 29 | 24 | 43 | 33 | 27 | 22 | 27 | 22 | 19 | 22 | 18 | 15 | 16 | 14 | 12 | 10 |
| 10 | 45 | 33 | 26 | 21 | 40 | 30 | 24 | 20 | 25 | 20 | 17 | 20 | 16 | 14 | 15 | 13 | 11 | 9 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 12540 | 12540 | 12540 |
| 5° | 12588 | 12407 | 12480 |
| 10° | 12514 | 12281 | 12342 |
| 15° | 12359 | 12122 | 12109 |
| 20° | 12139 | 11883 | 11869 |
| 25° | 11922 | 11589 | 11589 |
| 30° | 11641 | 11320 | 11222 |
| 35° | 11379 | 10996 | 10835 |
| 40° | 11051 | 10673 | 10467 |
| 45° | 10727 | 10351 | 10095 |
| 50° | 10374 | 10017 | 9661 |
| 55° | 10007 | 9627 | 9272 |
| 60° | 9597 | 9164 | 8825 |
| 65° | 9158 | 8703 | 8302 |
| 70° | 8601 | 8143 | 7756 |
| 75° | 7829 | 7498 | 7317 |
| 80° | 6946 | 6732 | 6388 |
| 85° | 5669 | 5391 | 4835 |



TEST NUMBER: P331318

CATALOG NUMBER: S122DIP-S485D925U835-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 73.0 | 1.3 |
| 10°-20° | 205.5 | 3.6 |
| 20°-30° | 302.1 | 5.3 |
| 30°-40° | 350.9 | 6.2 |
| 40°-50° | 350.5 | 6.2 |
| 50°-60° | 305.6 | 5.4 |
| 60°-70° | 226.0 | 4.0 |
| 70°-80° | 128.0 | 2.3 |
| 80°-90° | 37.5 | 0.7 |
| 90°-100° | 42.1 | 0.7 |
| 100°-110° | 154.4 | 2.7 |
| 110°-120° | 412.7 | 7.3 |
| 120°-130° | 681.3 | 12.0 |
| 130°-140° | 724.5 | 12.8 |
| 140°-150° | 673.4 | 11.9 |
| 150°-160° | 541.4 | 9.5 |
| 160°-170° | 348.9 | 6.1 |
| 170°-180° | 120.1 | 2.1 |
| 0°-30° | 580.6 | 10.2 |
| 0°-40° | 931.5 | 16.4 |
| 0°-60° | 1587.6 | 28.0 |
| 0°-90° | 1979.2 | 34.9 |
| 90°-120° | 609.2 | 10.7 |
| 90°-150° | 2688.4 | 47.3 |
| 90°-180° | 3699.0 | 65.1 |
| 0°-180° | 5678.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 777 | 777 | 777 | 777 | 777 | |
| 5° | 777 | 773 | 766 | 771 | 770 | 74 |
| 15° | 739 | 735 | 725 | 728 | 724 | 208 |
| 25° | 669 | 663 | 650 | 652 | 650 | 308 |
| 35° | 577 | 570 | 558 | 553 | 550 | 360 |
| 45° | 470 | 464 | 453 | 445 | 442 | 362 |
| 55° | 356 | 351 | 342 | 333 | 329 | 318 |
| 65° | 240 | 235 | 228 | 221 | 217 | 237 |
| 75° | 126 | 124 | 120 | 116 | 117 | 134 |
| 85° | 31 | 30 | 29 | 27 | 26 | 35 |
| 90° | 1 | 11 | 18 | 23 | 25 | 4 |
| 95° | 59 | 31 | 36 | 40 | 39 | 73 |
| 105° | 278 | 290 | 56 | 65 | 69 | 297 |
| 115° | 525 | 541 | 564 | 160 | 75 | 517 |
| 125° | 742 | 755 | 772 | 778 | 781 | 662 |
| 135° | 919 | 933 | 942 | 950 | 949 | 709 |
| 145° | 1066 | 1066 | 1080 | 1086 | 1082 | 666 |
| 155° | 1174 | 1166 | 1176 | 1181 | 1174 | 541 |
| 165° | 1237 | 1232 | 1234 | 1240 | 1234 | 349 |
| 175° | 1265 | 1259 | 1260 | 1266 | 1258 | 120 |
| 180° | 1262 | 1262 | 1262 | 1262 | 1262 | |



TEST NUMBER: P331318

CATALOG NUMBER: S122DIP-S485D925U835-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 776.7 | 776.7 | 776.7 | 776.7 | 776.7 | 776.7 | 776.7 | 776.7 | 776.7 | 776.7 | 776.7 |
| 2.5° | 780.3 | 779.6 | 779.0 | 778.3 | 777.6 | 776.6 | 775.1 | 773.7 | 772.2 | 770.7 | 772.1 |
| 5° | 776.7 | 776.0 | 775.4 | 774.7 | 774.1 | 772.8 | 771.0 | 769.2 | 767.3 | 765.5 | 766.8 |
| 7.5° | 769.8 | 768.8 | 767.8 | 766.7 | 765.7 | 764.3 | 762.4 | 760.6 | 758.7 | 756.8 | 758.2 |
| 10° | 763.3 | 762.1 | 760.9 | 759.8 | 758.6 | 757.0 | 755.0 | 753.1 | 751.1 | 749.1 | 750.4 |
| 12.5° | 754.3 | 753.3 | 752.2 | 751.2 | 750.2 | 748.7 | 746.7 | 744.7 | 742.7 | 740.7 | 741.6 |
| 15° | 739.4 | 738.4 | 737.4 | 736.4 | 735.4 | 733.8 | 731.6 | 729.5 | 727.3 | 725.2 | 725.8 |
| 17.5° | 720.2 | 719.3 | 718.3 | 717.3 | 716.3 | 714.7 | 712.5 | 710.3 | 708.1 | 705.9 | 706.7 |
| 20° | 706.5 | 705.5 | 704.5 | 703.5 | 702.5 | 700.9 | 698.5 | 696.2 | 693.9 | 691.6 | 692.1 |
| 22.5° | 692.8 | 691.4 | 690.0 | 688.6 | 687.2 | 685.4 | 683.2 | 681.0 | 678.8 | 676.6 | 676.7 |
| 25° | 669.2 | 667.8 | 666.5 | 665.2 | 663.9 | 661.8 | 659.0 | 656.1 | 653.3 | 650.5 | 650.8 |
| 27.5° | 642.3 | 641.1 | 639.9 | 638.7 | 637.5 | 635.8 | 633.6 | 631.3 | 629.1 | 626.9 | 626.4 |
| 30° | 624.4 | 623.0 | 621.7 | 620.4 | 619.0 | 617.1 | 614.6 | 612.2 | 609.7 | 607.2 | 606.7 |
| 32.5° | 605.2 | 604.2 | 603.1 | 602.0 | 601.0 | 599.1 | 596.5 | 593.9 | 591.3 | 588.7 | 587.8 |
| 35° | 577.3 | 575.6 | 574.0 | 572.3 | 570.7 | 568.5 | 565.9 | 563.2 | 560.5 | 557.9 | 556.9 |
| 37.5° | 545.8 | 544.3 | 542.9 | 541.4 | 539.9 | 537.9 | 535.2 | 532.6 | 529.9 | 527.3 | 526.0 |
| 40° | 524.3 | 522.9 | 521.6 | 520.3 | 519.0 | 517.0 | 514.3 | 511.7 | 509.0 | 506.4 | 504.9 |
| 42.5° | 503.4 | 502.0 | 500.7 | 499.4 | 498.1 | 496.1 | 493.4 | 490.8 | 488.1 | 485.4 | 483.8 |
| 45° | 469.8 | 468.6 | 467.4 | 466.3 | 465.1 | 463.3 | 460.8 | 458.3 | 455.8 | 453.3 | 451.5 |
| 47.5° | 436.3 | 435.2 | 434.1 | 433.0 | 431.9 | 430.1 | 427.5 | 424.9 | 422.3 | 419.7 | 417.8 |
| 50° | 413.0 | 412.2 | 411.3 | 410.5 | 409.7 | 408.1 | 405.8 | 403.5 | 401.1 | 398.8 | 396.5 |
| 52.5° | 390.3 | 389.2 | 388.1 | 387.0 | 385.9 | 384.3 | 382.1 | 379.9 | 377.7 | 375.5 | 373.6 |
| 55° | 355.5 | 354.5 | 353.5 | 352.5 | 351.5 | 350.0 | 348.0 | 346.0 | 344.0 | 342.0 | 340.1 |
| 57.5° | 320.5 | 319.7 | 318.9 | 318.2 | 317.4 | 315.9 | 313.7 | 311.5 | 309.3 | 307.1 | 305.1 |
| 60° | 297.2 | 296.6 | 295.9 | 295.2 | 294.6 | 293.1 | 290.8 | 288.4 | 286.1 | 283.8 | 282.0 |
| 62.5° | 274.5 | 273.5 | 272.4 | 271.3 | 270.3 | 268.9 | 267.1 | 265.3 | 263.5 | 261.7 | 260.0 |
| 65° | 239.7 | 238.7 | 237.7 | 236.7 | 235.8 | 234.4 | 232.8 | 231.1 | 229.4 | 227.8 | 226.3 |
| 67.5° | 204.3 | 203.5 | 202.7 | 201.9 | 201.1 | 200.0 | 198.5 | 197.0 | 195.5 | 194.0 | 192.9 |
| 70° | 182.2 | 181.6 | 180.9 | 180.2 | 179.6 | 178.5 | 177.0 | 175.5 | 174.0 | 172.5 | 171.4 |
| 72.5° | 159.5 | 158.9 | 158.2 | 157.5 | 156.9 | 156.1 | 155.1 | 154.1 | 153.2 | 152.2 | 151.0 |
| 75° | 125.5 | 125.1 | 124.8 | 124.5 | 124.1 | 123.6 | 122.7 | 121.9 | 121.1 | 120.2 | 119.2 |
| 77.5° | 95.0 | 94.4 | 93.9 | 93.3 | 92.7 | 92.3 | 92.0 | 91.6 | 91.3 | 91.0 | 90.5 |
| 80° | 74.7 | 74.5 | 74.4 | 74.2 | 74.0 | 73.8 | 73.4 | 73.1 | 72.8 | 72.4 | 71.9 |
| 82.5° | 55.6 | 55.5 | 55.5 | 55.5 | 55.4 | 55.3 | 55.1 | 54.9 | 54.7 | 54.5 | 53.9 |
| 85° | 30.6 | 30.5 | 30.3 | 30.1 | 30.0 | 29.8 | 29.6 | 29.5 | 29.3 | 29.1 | 28.6 |
| 87.5° | 10.9 | 11.1 | 11.3 | 11.5 | 11.7 | 11.8 | 11.8 | 11.9 | 12.0 | 12.0 | 11.8 |
| 90° | 0.9 | 3.1 | 5.4 | 7.6 | 9.8 | 11.8 | 13.4 | 15.0 | 16.6 | 18.3 | 19.3 |
| 92.5° | 18.4 | 18.2 | 18.0 | 17.8 | 17.6 | 17.9 | 18.8 | 19.6 | 20.4 | 21.2 | 21.7 |
| 95° | 59.4 | 52.7 | 46.0 | 39.3 | 32.6 | 29.9 | 31.4 | 32.8 | 34.2 | 35.6 | 36.6 |
| 97.5° | 117.8 | 98.9 | 80.1 | 61.2 | 42.3 | 34.5 | 37.8 | 41.1 | 44.4 | 47.7 | 48.5 |
| 100° | 161.7 | 133.8 | 106.0 | 78.2 | 50.4 | 38.3 | 41.7 | 45.2 | 48.6 | 52.1 | 53.7 |
| 102.5° | 209.9 | 204.0 | 198.1 | 192.2 | 186.3 | 169.0 | 140.1 | 111.2 | 82.4 | 53.5 | 55.6 |
| 105° | 277.6 | 283.7 | 289.8 | 295.9 | 302.0 | 277.3 | 221.9 | 166.5 | 111.1 | 55.7 | 57.9 |
| 107.5° | 354.9 | 359.8 | 364.7 | 369.6 | 374.6 | 343.8 | 277.3 | 210.9 | 144.4 | 78.0 | 75.7 |
| 110° | 404.6 | 408.9 | 413.1 | 417.4 | 421.6 | 394.4 | 335.8 | 277.1 | 218.5 | 159.8 | 139.5 |



TEST NUMBER: P331318

CATALOG NUMBER: S122DIP-S485D925U835-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 451.3 | 455.1 | 458.9 | 462.7 | 466.4 | 461.1 | 446.6 | 432.1 | 417.6 | 403.1 | 329.1 |
| 115° | 525.1 | 528.6 | 532.0 | 535.5 | 538.9 | 543.2 | 548.3 | 553.4 | 558.4 | 563.5 | 469.5 |
| 117.5° | 591.1 | 594.9 | 598.8 | 602.7 | 606.5 | 610.2 | 613.7 | 617.2 | 620.7 | 624.1 | 601.4 |
| 120° | 639.3 | 642.3 | 645.4 | 648.4 | 651.5 | 654.8 | 658.5 | 662.1 | 665.8 | 669.4 | 671.9 |
| 122.5° | 680.2 | 683.4 | 686.6 | 689.8 | 693.0 | 696.6 | 700.6 | 704.6 | 708.6 | 712.6 | 714.0 |
| 125° | 742.5 | 745.1 | 747.8 | 750.4 | 753.1 | 756.3 | 760.2 | 764.0 | 767.9 | 771.7 | 773.2 |
| 127.5° | 798.9 | 801.9 | 804.8 | 807.7 | 810.6 | 813.5 | 816.4 | 819.3 | 822.2 | 825.1 | 827.1 |
| 130° | 834.8 | 838.0 | 841.2 | 844.5 | 847.7 | 850.5 | 852.7 | 854.9 | 857.2 | 859.4 | 861.6 |
| 132.5° | 871.3 | 874.0 | 876.8 | 879.6 | 882.3 | 884.8 | 887.1 | 889.3 | 891.5 | 893.7 | 895.7 |
| 135° | 918.8 | 922.0 | 925.3 | 928.5 | 931.8 | 934.3 | 936.1 | 938.0 | 939.8 | 941.6 | 943.6 |
| 137.5° | 966.8 | 969.1 | 971.4 | 973.6 | 975.9 | 978.1 | 980.1 | 982.2 | 984.3 | 986.4 | 988.3 |
| 140° | 998.2 | 999.9 | 1001.5 | 1003.1 | 1004.7 | 1006.7 | 1008.9 | 1011.1 | 1013.4 | 1015.6 | 1017.4 |
| 142.5° | 1024.5 | 1026.0 | 1027.5 | 1028.9 | 1030.4 | 1032.4 | 1034.9 | 1037.5 | 1040.1 | 1042.6 | 1044.3 |
| 145° | 1065.8 | 1065.6 | 1065.4 | 1065.2 | 1065.0 | 1066.6 | 1070.1 | 1073.5 | 1077.0 | 1080.4 | 1081.8 |
| 147.5° | 1101.8 | 1101.0 | 1100.3 | 1099.5 | 1098.7 | 1100.0 | 1103.4 | 1106.9 | 1110.3 | 1113.7 | 1114.7 |
| 150° | 1125.2 | 1123.8 | 1122.3 | 1120.9 | 1119.5 | 1120.4 | 1123.7 | 1126.9 | 1130.2 | 1133.4 | 1134.6 |
| 152.5° | 1144.9 | 1143.3 | 1141.7 | 1140.2 | 1138.6 | 1139.3 | 1142.4 | 1145.5 | 1148.6 | 1151.7 | 1152.9 |
| 155° | 1173.6 | 1171.8 | 1169.9 | 1168.1 | 1166.3 | 1166.6 | 1169.0 | 1171.5 | 1173.9 | 1176.3 | 1177.5 |
| 157.5° | 1196.0 | 1194.5 | 1193.0 | 1191.4 | 1189.9 | 1190.0 | 1191.7 | 1193.4 | 1195.1 | 1196.8 | 1198.2 |
| 160° | 1209.2 | 1208.0 | 1206.8 | 1205.5 | 1204.3 | 1204.3 | 1205.5 | 1206.8 | 1208.0 | 1209.2 | 1210.4 |
| 162.5° | 1220.9 | 1219.7 | 1218.5 | 1217.2 | 1216.0 | 1215.9 | 1217.0 | 1218.0 | 1219.1 | 1220.2 | 1221.5 |
| 165° | 1236.6 | 1235.4 | 1234.2 | 1232.9 | 1231.7 | 1231.4 | 1232.0 | 1232.6 | 1233.3 | 1233.9 | 1235.3 |
| 167.5° | 1248.3 | 1247.1 | 1245.9 | 1244.6 | 1243.4 | 1243.1 | 1243.7 | 1244.2 | 1244.8 | 1245.4 | 1246.8 |
| 170° | 1254.9 | 1253.6 | 1252.4 | 1251.2 | 1250.0 | 1249.6 | 1250.0 | 1250.4 | 1250.8 | 1251.2 | 1252.6 |
| 172.5° | 1259.2 | 1258.0 | 1256.8 | 1255.6 | 1254.4 | 1254.0 | 1254.4 | 1254.8 | 1255.2 | 1255.6 | 1257.0 |
| 175° | 1264.9 | 1263.5 | 1262.1 | 1260.6 | 1259.2 | 1258.7 | 1259.1 | 1259.5 | 1259.9 | 1260.3 | 1261.8 |
| 177.5° | 1265.8 | 1264.7 | 1263.6 | 1262.4 | 1261.3 | 1260.8 | 1261.0 | 1261.1 | 1261.3 | 1261.4 | 1262.6 |
| 180° | 1262.2 | 1262.2 | 1262.2 | 1262.2 | 1262.2 | 1262.2 | 1262.2 | 1262.2 | 1262.2 | 1262.2 | 1262.2 |



TEST NUMBER: P331318

CATALOG NUMBER: S122DIP-S485D925U835-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 776.7 | 776.7 | 776.7 | 776.7 | 776.7 | 776.7 | 776.7 | 776.7 |
| 2.5° | 773.4 | 774.7 | 776.0 | 776.6 | 776.3 | 776.0 | 775.8 | 775.5 |
| 5° | 768.2 | 769.5 | 770.8 | 771.3 | 771.0 | 770.6 | 770.3 | 770.0 |
| 7.5° | 759.5 | 760.8 | 762.2 | 762.6 | 762.3 | 761.9 | 761.5 | 761.2 |
| 10° | 751.7 | 753.1 | 754.4 | 754.8 | 754.3 | 753.8 | 753.3 | 752.8 |
| 12.5° | 742.6 | 743.5 | 744.4 | 744.7 | 744.3 | 744.0 | 743.6 | 743.2 |
| 15° | 726.5 | 727.2 | 727.8 | 727.7 | 726.9 | 726.1 | 725.3 | 724.4 |
| 17.5° | 707.4 | 708.2 | 709.0 | 708.9 | 708.1 | 707.4 | 706.6 | 705.8 |
| 20° | 692.6 | 693.1 | 693.6 | 693.5 | 692.8 | 692.1 | 691.5 | 690.8 |
| 22.5° | 676.8 | 676.9 | 677.0 | 676.9 | 676.5 | 676.1 | 675.7 | 675.3 |
| 25° | 651.2 | 651.5 | 651.8 | 651.8 | 651.5 | 651.2 | 650.8 | 650.5 |
| 27.5° | 625.9 | 625.4 | 624.9 | 624.3 | 623.5 | 622.7 | 621.9 | 621.1 |
| 30° | 606.2 | 605.7 | 605.2 | 604.6 | 603.9 | 603.3 | 602.6 | 601.9 |
| 32.5° | 586.9 | 586.0 | 585.1 | 584.3 | 583.6 | 583.0 | 582.3 | 581.6 |
| 35° | 555.9 | 554.9 | 553.9 | 553.0 | 552.2 | 551.3 | 550.5 | 549.7 |
| 37.5° | 524.8 | 523.6 | 522.4 | 521.3 | 520.5 | 519.7 | 518.9 | 518.2 |
| 40° | 503.4 | 501.9 | 500.4 | 499.3 | 498.6 | 498.0 | 497.3 | 496.6 |
| 42.5° | 482.2 | 480.6 | 478.9 | 477.7 | 476.7 | 475.8 | 474.9 | 473.9 |
| 45° | 449.7 | 447.9 | 446.0 | 444.8 | 444.1 | 443.5 | 442.8 | 442.1 |
| 47.5° | 415.9 | 413.9 | 412.0 | 410.6 | 409.6 | 408.7 | 407.7 | 406.7 |
| 50° | 394.2 | 391.8 | 389.5 | 387.9 | 387.1 | 386.3 | 385.4 | 384.6 |
| 52.5° | 371.7 | 369.7 | 367.8 | 366.3 | 365.2 | 364.1 | 363.0 | 361.9 |
| 55° | 338.1 | 336.1 | 334.1 | 332.7 | 331.8 | 331.0 | 330.2 | 329.4 |
| 57.5° | 303.2 | 301.2 | 299.3 | 298.0 | 297.3 | 296.7 | 296.1 | 295.4 |
| 60° | 280.1 | 278.3 | 276.5 | 275.3 | 274.8 | 274.3 | 273.8 | 273.3 |
| 62.5° | 258.3 | 256.6 | 254.9 | 253.8 | 253.1 | 252.5 | 251.9 | 251.2 |
| 65° | 224.8 | 223.3 | 221.8 | 220.6 | 219.8 | 219.0 | 218.2 | 217.3 |
| 67.5° | 191.7 | 190.5 | 189.4 | 188.5 | 187.8 | 187.1 | 186.5 | 185.8 |
| 70° | 170.2 | 169.0 | 167.9 | 167.0 | 166.3 | 165.6 | 165.0 | 164.3 |
| 72.5° | 149.9 | 148.7 | 147.6 | 146.7 | 146.2 | 145.6 | 145.1 | 144.6 |
| 75° | 118.2 | 117.3 | 116.3 | 115.9 | 116.3 | 116.6 | 116.9 | 117.3 |
| 77.5° | 90.0 | 89.5 | 89.0 | 88.5 | 88.0 | 87.6 | 87.1 | 86.6 |
| 80° | 71.4 | 70.9 | 70.5 | 70.0 | 69.7 | 69.4 | 69.0 | 68.7 |
| 82.5° | 53.3 | 52.6 | 52.0 | 51.6 | 51.6 | 51.5 | 51.4 | 51.4 |
| 85° | 28.1 | 27.6 | 27.1 | 26.8 | 26.6 | 26.5 | 26.3 | 26.1 |
| 87.5° | 11.6 | 11.4 | 11.2 | 11.1 | 11.1 | 11.0 | 11.0 | 10.9 |
| 90° | 20.3 | 21.3 | 22.3 | 23.0 | 23.4 | 23.8 | 24.3 | 24.7 |
| 92.5° | 22.2 | 22.8 | 23.3 | 23.7 | 23.9 | 24.2 | 24.4 | 24.7 |
| 95° | 37.6 | 38.7 | 39.7 | 40.1 | 39.9 | 39.7 | 39.5 | 39.3 |
| 97.5° | 49.3 | 50.1 | 50.9 | 51.4 | 51.7 | 51.9 | 52.2 | 52.4 |
| 100° | 55.3 | 56.9 | 58.6 | 59.6 | 60.0 | 60.4 | 60.8 | 61.2 |
| 102.5° | 57.7 | 59.9 | 62.0 | 63.3 | 63.9 | 64.4 | 65.0 | 65.6 |
| 105° | 60.2 | 62.4 | 64.6 | 66.2 | 67.0 | 67.8 | 68.6 | 69.4 |
| 107.5° | 73.4 | 71.2 | 68.9 | 68.2 | 69.0 | 69.8 | 70.6 | 71.4 |
| 110° | 119.2 | 98.9 | 78.6 | 68.9 | 69.7 | 70.5 | 71.3 | 72.2 |



TEST NUMBER: P331318

CATALOG NUMBER: S122DIP-S485D925U835-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 255.1 | 181.0 | 107.0 | 70.3 | 70.9 | 71.6 | 72.2 | 72.9 |
| 115° | 375.6 | 281.6 | 187.6 | 133.3 | 118.7 | 104.1 | 89.5 | 74.9 |
| 117.5° | 578.7 | 556.0 | 533.2 | 497.8 | 449.8 | 401.8 | 353.8 | 305.8 |
| 120° | 674.3 | 676.8 | 679.2 | 666.7 | 639.3 | 611.9 | 584.5 | 557.1 |
| 122.5° | 715.5 | 716.9 | 718.4 | 716.5 | 711.2 | 705.8 | 700.5 | 695.2 |
| 125° | 774.6 | 776.0 | 777.4 | 778.4 | 779.0 | 779.6 | 780.3 | 780.9 |
| 127.5° | 829.2 | 831.3 | 833.4 | 834.4 | 834.6 | 834.7 | 834.8 | 834.9 |
| 130° | 863.9 | 866.1 | 868.3 | 869.4 | 869.2 | 868.9 | 868.7 | 868.5 |
| 132.5° | 897.6 | 899.5 | 901.4 | 902.2 | 902.0 | 901.8 | 901.6 | 901.4 |
| 135° | 945.7 | 947.7 | 949.7 | 950.5 | 950.1 | 949.7 | 949.3 | 948.9 |
| 137.5° | 990.3 | 992.3 | 994.3 | 995.0 | 994.3 | 993.6 | 992.9 | 992.2 |
| 140° | 1019.2 | 1021.1 | 1022.9 | 1023.3 | 1022.3 | 1021.3 | 1020.3 | 1019.2 |
| 142.5° | 1045.9 | 1047.6 | 1049.3 | 1049.6 | 1048.6 | 1047.6 | 1046.6 | 1045.5 |
| 145° | 1083.3 | 1084.7 | 1086.1 | 1086.3 | 1085.3 | 1084.3 | 1083.3 | 1082.3 |
| 147.5° | 1115.8 | 1116.8 | 1117.9 | 1118.0 | 1117.1 | 1116.3 | 1115.4 | 1114.6 |
| 150° | 1135.8 | 1137.1 | 1138.3 | 1138.4 | 1137.4 | 1136.3 | 1135.3 | 1134.3 |
| 152.5° | 1154.1 | 1155.3 | 1156.5 | 1156.5 | 1155.1 | 1153.8 | 1152.5 | 1151.1 |
| 155° | 1178.8 | 1180.0 | 1181.2 | 1181.0 | 1179.4 | 1177.7 | 1176.1 | 1174.5 |
| 157.5° | 1199.5 | 1200.9 | 1202.3 | 1202.2 | 1200.6 | 1199.0 | 1197.4 | 1195.9 |
| 160° | 1211.6 | 1212.9 | 1214.1 | 1214.0 | 1212.5 | 1211.1 | 1209.7 | 1208.3 |
| 162.5° | 1222.9 | 1224.3 | 1225.7 | 1225.5 | 1223.8 | 1222.0 | 1220.3 | 1218.5 |
| 165° | 1236.7 | 1238.1 | 1239.5 | 1239.5 | 1238.1 | 1236.7 | 1235.3 | 1233.9 |
| 167.5° | 1248.2 | 1249.6 | 1251.1 | 1250.8 | 1249.0 | 1247.2 | 1245.4 | 1243.5 |
| 170° | 1254.1 | 1255.5 | 1256.9 | 1256.7 | 1254.9 | 1253.0 | 1251.2 | 1249.4 |
| 172.5° | 1258.4 | 1259.9 | 1261.3 | 1261.1 | 1259.2 | 1257.4 | 1255.6 | 1253.8 |
| 175° | 1263.2 | 1264.6 | 1266.0 | 1265.7 | 1263.7 | 1261.7 | 1259.6 | 1257.6 |
| 177.5° | 1263.7 | 1264.9 | 1266.0 | 1265.8 | 1264.4 | 1262.9 | 1261.4 | 1260.0 |
| 180° | 1262.2 | 1262.2 | 1262.2 | 1262.2 | 1262.2 | 1262.2 | 1262.2 | 1262.2 |

(END OF REPORT)