

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: P331315-840

Luminaire Tested: **S122DIP-S485D925U840-4F0-1E-UDD-D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331315-840
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-S485D925U840-4F0-1E-UDD-D
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 925 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5723.8 lumens
Efficiency: N/A
Efficacy: 128.6 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-Indirect

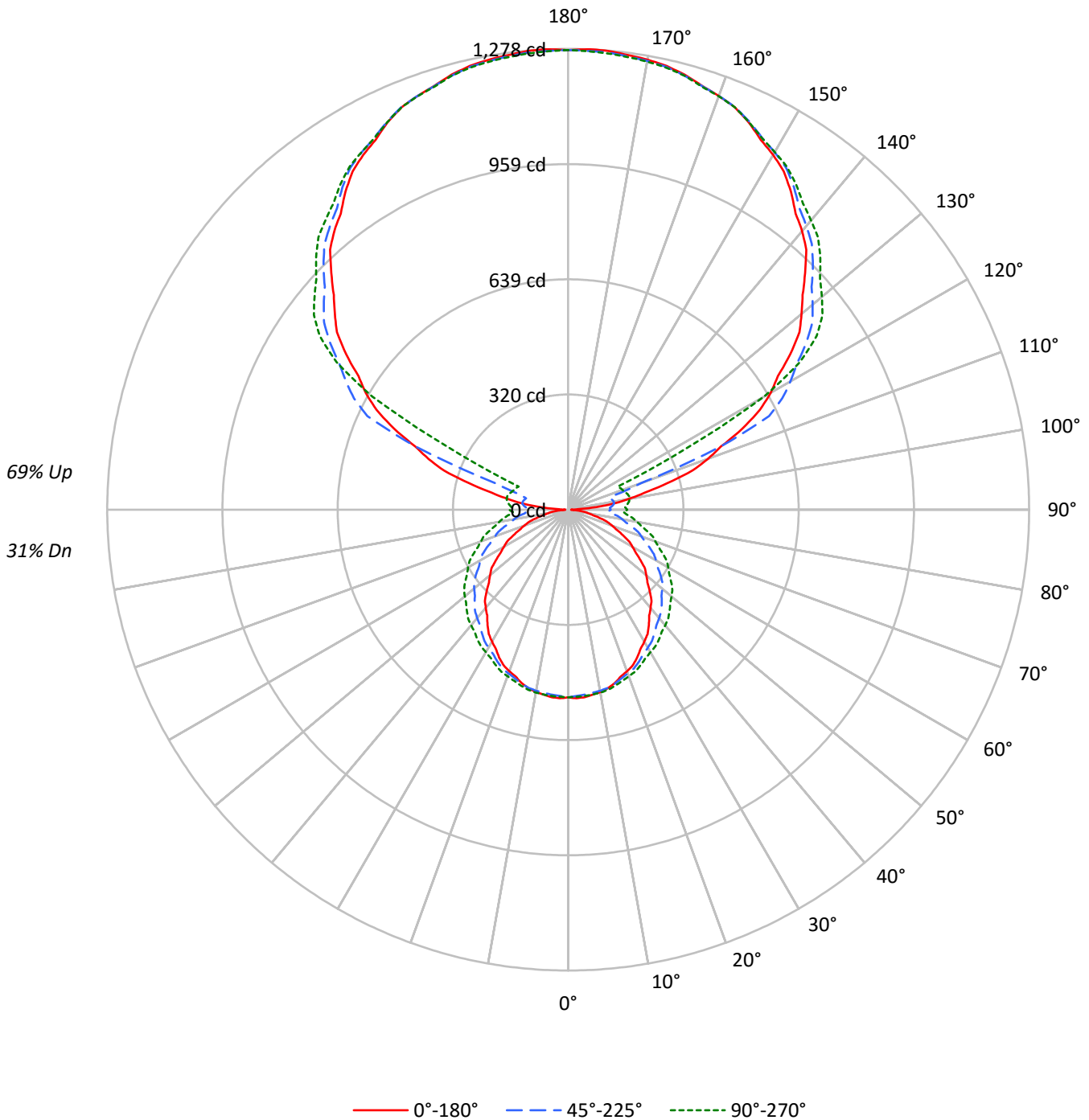
Input Watts (W): 44.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331315-840

CATALOG NUMBER: S122DIP-S485D925U840-4F0-1E-UDD-D

Luminous Intensity Polar Plot





TEST NUMBER: P331315-840

CATALOG NUMBER: S122DIP-S485D925U840-4F0-1E-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 | 103 | 103 | 103 | 103 | 92 | 92 | 92 | 92 | 73 | 73 | 73 | 55 | 55 | 55 | 39 | 39 | 39 | 31 |
| 1 | 93 | 88 | 84 | 80 | 83 | 79 | 76 | 72 | 62 | 60 | 58 | 47 | 45 | 44 | 33 | 32 | 31 | 24 |
| 2 | 84 | 76 | 70 | 65 | 75 | 68 | 63 | 59 | 54 | 50 | 47 | 41 | 38 | 36 | 28 | 26 | 25 | 19 |
| 3 | 76 | 67 | 59 | 53 | 68 | 60 | 54 | 48 | 47 | 43 | 39 | 35 | 32 | 30 | 25 | 23 | 21 | 16 |
| 4 | 70 | 59 | 51 | 45 | 62 | 53 | 46 | 41 | 42 | 37 | 33 | 31 | 28 | 25 | 22 | 20 | 18 | 13 |
| 5 | 64 | 52 | 44 | 38 | 57 | 47 | 40 | 35 | 37 | 32 | 28 | 28 | 24 | 22 | 19 | 17 | 15 | 12 |
| 6 | 58 | 46 | 38 | 33 | 52 | 42 | 35 | 30 | 33 | 28 | 24 | 25 | 21 | 19 | 18 | 15 | 13 | 10 |
| 7 | 54 | 42 | 34 | 28 | 48 | 38 | 31 | 26 | 30 | 25 | 21 | 23 | 19 | 16 | 16 | 14 | 12 | 9 |
| 8 | 50 | 38 | 30 | 25 | 45 | 34 | 27 | 23 | 27 | 22 | 19 | 21 | 17 | 14 | 15 | 12 | 10 | 8 |
| 9 | 46 | 34 | 27 | 22 | 41 | 31 | 25 | 20 | 25 | 20 | 16 | 19 | 15 | 13 | 13 | 11 | 9 | 7 |
| 10 | 43 | 31 | 24 | 19 | 39 | 28 | 22 | 18 | 23 | 18 | 15 | 17 | 14 | 12 | 12 | 10 | 8 | 6 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 8402 | 8402 | 8402 |
| 5° | 8443 | 8088 | 8058 |
| 10° | 8390 | 7850 | 7761 |
| 15° | 8275 | 7596 | 7448 |
| 20° | 8129 | 7324 | 7148 |
| 25° | 7984 | 7062 | 6875 |
| 30° | 7780 | 6794 | 6601 |
| 35° | 7575 | 6536 | 6409 |
| 40° | 7360 | 6315 | 6215 |
| 45° | 7153 | 6118 | 6051 |
| 50° | 6934 | 5937 | 5888 |
| 55° | 6700 | 5744 | 5722 |
| 60° | 6417 | 5546 | 5546 |
| 65° | 6122 | 5313 | 5339 |
| 70° | 5796 | 5061 | 5115 |
| 75° | 5371 | 4816 | 4908 |
| 80° | 4707 | 4564 | 4698 |
| 85° | 4070 | 4346 | 4535 |



TEST NUMBER: P331315-840

CATALOG NUMBER: S122DIP-S485D925U840-4F0-1E-UDD-D

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 49.3 | 0.9 |
| 10°-20° | 141.4 | 2.5 |
| 20°-30° | 214.3 | 3.7 |
| 30°-40° | 261.0 | 4.6 |
| 40°-50° | 280.8 | 4.9 |
| 50°-60° | 272.7 | 4.8 |
| 60°-70° | 238.1 | 4.2 |
| 70°-80° | 183.3 | 3.2 |
| 80°-90° | 126.2 | 2.2 |
| 90°-100° | 127.3 | 2.2 |
| 100°-110° | 217.8 | 3.8 |
| 110°-120° | 457.7 | 8.0 |
| 120°-130° | 710.8 | 12.4 |
| 130°-140° | 741.2 | 13.0 |
| 140°-150° | 681.7 | 11.9 |
| 150°-160° | 546.8 | 9.6 |
| 160°-170° | 352.3 | 6.2 |
| 170°-180° | 121.3 | 2.1 |
| 0°-30° | 405.0 | 7.1 |
| 0°-40° | 666.0 | 11.6 |
| 0°-60° | 1219.4 | 21.3 |
| 0°-90° | 1767.0 | 30.9 |
| 90°-120° | 802.7 | 14.0 |
| 90°-150° | 2936.5 | 51.3 |
| 90°-180° | 3957.0 | 69.1 |
| 0°-180° | 5723.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 520 | 520 | 520 | 520 | 520 | |
| 5° | 522 | 520 | 515 | 519 | 519 | 49 |
| 15° | 498 | 499 | 499 | 506 | 505 | 140 |
| 25° | 452 | 458 | 464 | 473 | 476 | 208 |
| 35° | 390 | 403 | 417 | 433 | 439 | 244 |
| 45° | 320 | 340 | 367 | 389 | 398 | 247 |
| 55° | 245 | 273 | 311 | 338 | 348 | 219 |
| 65° | 167 | 205 | 249 | 279 | 290 | 166 |
| 75° | 93 | 135 | 183 | 214 | 226 | 98 |
| 85° | 27 | 74 | 122 | 153 | 164 | 29 |
| 90° | 8 | 62 | 118 | 152 | 164 | 8 |
| 95° | 66 | 74 | 123 | 155 | 164 | 78 |
| 105° | 284 | 319 | 121 | 156 | 170 | 304 |
| 115° | 533 | 559 | 614 | 229 | 152 | 525 |
| 125° | 751 | 765 | 805 | 831 | 841 | 670 |
| 135° | 929 | 943 | 959 | 983 | 988 | 717 |
| 145° | 1076 | 1076 | 1091 | 1101 | 1101 | 673 |
| 155° | 1185 | 1178 | 1188 | 1193 | 1186 | 546 |
| 165° | 1249 | 1244 | 1246 | 1252 | 1246 | 353 |
| 175° | 1277 | 1271 | 1273 | 1278 | 1270 | 122 |
| 180° | 1275 | 1275 | 1275 | 1275 | 1275 | |



TEST NUMBER: P331315-840

CATALOG NUMBER: S122DIP-S485D925U840-4F0-1E-UDD-D

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 520.4 | 520.4 | 520.4 | 520.4 | 520.4 | 520.4 | 520.4 | 520.4 | 520.4 | 520.4 | 520.4 |
| 2.5° | 523.4 | 523.0 | 522.6 | 522.2 | 521.8 | 521.1 | 520.2 | 519.3 | 518.4 | 517.4 | 518.1 |
| 5° | 521.9 | 521.4 | 520.9 | 520.4 | 519.9 | 519.2 | 518.2 | 517.2 | 516.1 | 515.1 | 516.1 |
| 7.5° | 517.3 | 516.8 | 516.5 | 516.2 | 515.9 | 515.3 | 514.5 | 513.8 | 513.0 | 512.2 | 513.4 |
| 10° | 513.6 | 513.3 | 512.9 | 512.6 | 512.3 | 511.9 | 511.4 | 510.9 | 510.4 | 509.9 | 511.2 |
| 12.5° | 507.6 | 507.7 | 507.8 | 507.8 | 507.9 | 507.7 | 507.4 | 507.0 | 506.5 | 506.2 | 507.6 |
| 15° | 497.8 | 498.1 | 498.5 | 498.8 | 499.1 | 499.3 | 499.3 | 499.3 | 499.3 | 499.3 | 500.8 |
| 17.5° | 485.1 | 485.8 | 486.6 | 487.3 | 488.0 | 488.6 | 489.1 | 489.6 | 490.2 | 490.7 | 492.2 |
| 20° | 476.7 | 477.5 | 478.4 | 479.2 | 480.0 | 480.8 | 481.4 | 482.1 | 482.8 | 483.4 | 485.2 |
| 22.5° | 467.6 | 468.6 | 469.6 | 470.5 | 471.5 | 472.4 | 473.4 | 474.3 | 475.2 | 476.3 | 478.1 |
| 25° | 452.5 | 453.7 | 454.8 | 456.1 | 457.2 | 458.6 | 460.1 | 461.6 | 463.1 | 464.5 | 466.6 |
| 27.5° | 434.4 | 436.4 | 438.3 | 440.2 | 442.0 | 443.9 | 445.7 | 447.5 | 449.2 | 451.0 | 453.5 |
| 30° | 422.3 | 424.5 | 426.7 | 428.9 | 431.1 | 433.2 | 435.5 | 437.6 | 439.8 | 441.9 | 444.6 |
| 32.5° | 409.1 | 411.5 | 413.9 | 416.5 | 418.9 | 421.4 | 423.9 | 426.6 | 429.1 | 431.7 | 434.7 |
| 35° | 389.9 | 392.7 | 395.7 | 398.5 | 401.3 | 404.3 | 407.5 | 410.7 | 413.8 | 417.1 | 420.7 |
| 37.5° | 369.1 | 372.4 | 375.7 | 379.0 | 382.2 | 386.0 | 390.1 | 394.2 | 398.3 | 402.4 | 406.6 |
| 40° | 355.3 | 358.9 | 362.6 | 366.3 | 370.0 | 374.1 | 378.6 | 383.1 | 387.7 | 392.2 | 396.6 |
| 42.5° | 341.9 | 345.7 | 349.3 | 353.0 | 356.7 | 361.1 | 366.4 | 371.5 | 376.8 | 381.9 | 386.7 |
| 45° | 319.8 | 324.3 | 328.8 | 333.4 | 337.9 | 343.1 | 348.9 | 354.8 | 360.7 | 366.6 | 371.7 |
| 47.5° | 297.9 | 302.9 | 307.8 | 312.7 | 317.6 | 323.6 | 330.4 | 337.3 | 344.2 | 351.0 | 356.5 |
| 50° | 282.9 | 288.0 | 293.3 | 298.4 | 303.6 | 309.9 | 317.5 | 325.1 | 332.6 | 340.1 | 345.9 |
| 52.5° | 268.3 | 273.8 | 279.2 | 284.8 | 290.2 | 296.9 | 304.9 | 312.8 | 320.7 | 328.7 | 334.5 |
| 55° | 245.1 | 251.2 | 257.2 | 263.2 | 269.2 | 276.6 | 285.4 | 294.1 | 302.8 | 311.4 | 317.5 |
| 57.5° | 222.2 | 229.0 | 235.8 | 242.6 | 249.4 | 257.2 | 266.1 | 275.0 | 283.9 | 292.8 | 299.3 |
| 60° | 205.9 | 213.1 | 220.4 | 227.5 | 234.7 | 243.1 | 252.7 | 262.2 | 271.8 | 281.3 | 287.7 |
| 62.5° | 191.4 | 198.8 | 206.4 | 213.9 | 221.4 | 229.8 | 239.3 | 248.9 | 258.5 | 268.0 | 274.8 |
| 65° | 167.4 | 175.6 | 183.9 | 192.1 | 200.3 | 209.3 | 219.2 | 229.1 | 239.0 | 248.9 | 255.8 |
| 67.5° | 145.4 | 154.0 | 162.6 | 171.2 | 179.8 | 189.0 | 199.2 | 209.3 | 219.4 | 229.5 | 236.5 |
| 70° | 129.8 | 138.5 | 147.1 | 155.8 | 164.6 | 174.1 | 184.5 | 194.9 | 205.3 | 215.7 | 222.9 |
| 72.5° | 115.2 | 124.2 | 133.2 | 142.2 | 151.2 | 161.0 | 171.5 | 182.0 | 192.5 | 203.0 | 210.2 |
| 75° | 92.8 | 102.2 | 111.5 | 120.9 | 130.3 | 140.4 | 151.1 | 161.8 | 172.6 | 183.3 | 190.5 |
| 77.5° | 71.1 | 80.9 | 90.7 | 100.5 | 110.4 | 120.7 | 131.6 | 142.5 | 153.4 | 164.3 | 171.5 |
| 80° | 56.6 | 66.8 | 77.1 | 87.3 | 97.5 | 108.1 | 119.0 | 129.8 | 140.7 | 151.6 | 158.6 |
| 82.5° | 44.5 | 54.6 | 64.6 | 74.7 | 84.8 | 95.4 | 106.4 | 117.4 | 128.5 | 139.6 | 146.5 |
| 85° | 27.2 | 37.6 | 48.0 | 58.4 | 68.7 | 79.3 | 90.0 | 100.7 | 111.5 | 122.2 | 129.3 |
| 87.5° | 14.9 | 25.4 | 35.9 | 46.3 | 56.8 | 67.5 | 78.6 | 89.6 | 100.7 | 111.7 | 118.8 |
| 90° | 8.5 | 20.4 | 32.4 | 44.4 | 56.4 | 68.6 | 80.9 | 93.3 | 105.6 | 118.0 | 125.7 |
| 92.5° | 25.5 | 34.4 | 43.2 | 52.1 | 61.0 | 71.0 | 82.1 | 93.2 | 104.4 | 115.5 | 122.6 |
| 95° | 65.9 | 67.1 | 68.2 | 69.3 | 70.4 | 76.7 | 88.3 | 99.7 | 111.2 | 122.7 | 130.1 |
| 97.5° | 124.2 | 112.2 | 100.2 | 88.1 | 76.0 | 76.4 | 89.5 | 102.4 | 115.4 | 128.4 | 135.4 |
| 100° | 168.5 | 146.6 | 124.8 | 102.9 | 81.0 | 76.5 | 89.4 | 102.3 | 115.1 | 127.9 | 135.8 |
| 102.5° | 216.6 | 216.3 | 216.1 | 215.8 | 215.5 | 205.3 | 185.3 | 165.3 | 145.3 | 125.2 | 133.4 |
| 105° | 284.2 | 295.2 | 306.2 | 317.2 | 328.2 | 310.0 | 262.9 | 215.6 | 168.3 | 121.1 | 129.3 |
| 107.5° | 362.0 | 370.9 | 379.7 | 388.6 | 397.4 | 372.4 | 313.7 | 255.0 | 196.2 | 137.4 | 140.8 |
| 110° | 411.6 | 419.3 | 426.9 | 434.5 | 442.2 | 420.5 | 369.5 | 318.5 | 267.5 | 216.4 | 201.4 |



TEST NUMBER: P331315-840

CATALOG NUMBER: S122DIP-S485D925U840-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 458.8 | 465.4 | 472.1 | 478.7 | 485.3 | 485.2 | 478.4 | 471.6 | 464.7 | 458.0 | 388.5 |
| 115° | 533.3 | 538.7 | 544.0 | 549.4 | 554.6 | 563.6 | 576.3 | 589.0 | 601.7 | 614.3 | 524.4 |
| 117.5° | 599.2 | 604.3 | 609.4 | 614.5 | 619.6 | 627.4 | 637.8 | 648.3 | 658.8 | 669.3 | 651.4 |
| 120° | 647.8 | 651.7 | 655.4 | 659.1 | 662.9 | 669.9 | 680.3 | 690.7 | 701.1 | 711.4 | 718.6 |
| 122.5° | 689.2 | 692.7 | 696.2 | 699.7 | 703.3 | 710.1 | 720.4 | 730.7 | 741.1 | 751.4 | 757.4 |
| 125° | 751.3 | 754.0 | 756.7 | 759.3 | 762.0 | 768.0 | 777.2 | 786.5 | 795.8 | 805.0 | 810.9 |
| 127.5° | 808.3 | 811.1 | 814.0 | 816.7 | 819.5 | 824.5 | 831.7 | 839.0 | 846.2 | 853.4 | 859.7 |
| 130° | 844.4 | 847.6 | 850.7 | 853.8 | 857.0 | 861.4 | 867.2 | 872.9 | 878.7 | 884.4 | 890.8 |
| 132.5° | 881.4 | 884.0 | 886.7 | 889.3 | 891.9 | 895.6 | 900.6 | 905.6 | 910.6 | 915.5 | 921.4 |
| 135° | 928.6 | 931.9 | 935.1 | 938.5 | 941.7 | 945.1 | 948.7 | 952.1 | 955.6 | 959.2 | 964.7 |
| 137.5° | 977.1 | 979.4 | 981.6 | 983.9 | 986.1 | 988.7 | 991.5 | 994.3 | 997.1 | 1000.0 | 1005.1 |
| 140° | 1008.9 | 1010.3 | 1011.8 | 1013.2 | 1014.7 | 1016.7 | 1019.4 | 1021.9 | 1024.5 | 1027.1 | 1031.7 |
| 142.5° | 1035.4 | 1036.7 | 1038.0 | 1039.4 | 1040.7 | 1042.6 | 1045.2 | 1047.9 | 1050.6 | 1053.2 | 1057.0 |
| 145° | 1076.3 | 1076.1 | 1075.9 | 1075.7 | 1075.5 | 1077.1 | 1080.7 | 1084.1 | 1087.6 | 1091.1 | 1093.5 |
| 147.5° | 1112.7 | 1111.9 | 1111.2 | 1110.3 | 1109.5 | 1110.9 | 1114.3 | 1117.8 | 1121.3 | 1124.7 | 1125.9 |
| 150° | 1136.3 | 1134.9 | 1133.4 | 1132.0 | 1130.5 | 1131.5 | 1134.8 | 1138.0 | 1141.3 | 1144.6 | 1145.8 |
| 152.5° | 1156.2 | 1154.6 | 1153.0 | 1151.4 | 1149.8 | 1150.5 | 1153.7 | 1156.8 | 1159.9 | 1163.1 | 1164.3 |
| 155° | 1185.2 | 1183.4 | 1181.4 | 1179.6 | 1177.8 | 1178.1 | 1180.5 | 1183.1 | 1185.5 | 1187.9 | 1189.1 |
| 157.5° | 1207.8 | 1206.3 | 1204.8 | 1203.2 | 1201.6 | 1201.7 | 1203.5 | 1205.2 | 1206.9 | 1208.6 | 1210.0 |
| 160° | 1221.1 | 1219.9 | 1218.7 | 1217.4 | 1216.2 | 1216.2 | 1217.4 | 1218.7 | 1219.9 | 1221.1 | 1222.3 |
| 162.5° | 1232.9 | 1231.7 | 1230.5 | 1229.2 | 1228.0 | 1227.9 | 1229.0 | 1230.0 | 1231.1 | 1232.2 | 1233.6 |
| 165° | 1248.8 | 1247.6 | 1246.4 | 1245.1 | 1243.9 | 1243.5 | 1244.2 | 1244.8 | 1245.5 | 1246.1 | 1247.5 |
| 167.5° | 1260.6 | 1259.4 | 1258.2 | 1256.9 | 1255.7 | 1255.4 | 1256.0 | 1256.5 | 1257.1 | 1257.7 | 1259.1 |
| 170° | 1267.3 | 1266.0 | 1264.8 | 1263.5 | 1262.3 | 1261.9 | 1262.3 | 1262.7 | 1263.1 | 1263.5 | 1265.0 |
| 172.5° | 1271.6 | 1270.4 | 1269.2 | 1268.0 | 1266.8 | 1266.4 | 1266.8 | 1267.2 | 1267.6 | 1268.0 | 1269.4 |
| 175° | 1277.4 | 1276.0 | 1274.6 | 1273.0 | 1271.6 | 1271.1 | 1271.5 | 1271.9 | 1272.3 | 1272.7 | 1274.2 |
| 177.5° | 1278.3 | 1277.2 | 1276.1 | 1274.9 | 1273.7 | 1273.2 | 1273.4 | 1273.5 | 1273.7 | 1273.8 | 1275.1 |
| 180° | 1274.7 | 1274.7 | 1274.7 | 1274.7 | 1274.7 | 1274.7 | 1274.7 | 1274.7 | 1274.7 | 1274.7 | 1274.7 |



TEST NUMBER: P331315-840

CATALOG NUMBER: S122DIP-S485D925U840-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 520.4 | 520.4 | 520.4 | 520.4 | 520.4 | 520.4 | 520.4 | 520.4 |
| 2.5° | 518.8 | 519.4 | 520.1 | 520.3 | 520.0 | 519.8 | 519.5 | 519.2 |
| 5° | 517.2 | 518.2 | 519.2 | 519.6 | 519.4 | 519.3 | 519.1 | 518.9 |
| 7.5° | 514.6 | 515.8 | 517.1 | 517.6 | 517.5 | 517.3 | 517.1 | 516.9 |
| 10° | 512.5 | 513.8 | 515.2 | 515.8 | 515.6 | 515.4 | 515.3 | 515.1 |
| 12.5° | 508.9 | 510.3 | 511.6 | 512.2 | 512.0 | 511.8 | 511.7 | 511.5 |
| 15° | 502.3 | 503.8 | 505.3 | 505.9 | 505.8 | 505.6 | 505.4 | 505.3 |
| 17.5° | 493.8 | 495.4 | 497.0 | 497.8 | 497.8 | 497.8 | 497.8 | 497.8 |
| 20° | 487.2 | 489.0 | 490.8 | 491.7 | 491.7 | 491.7 | 491.7 | 491.7 |
| 22.5° | 479.9 | 481.7 | 483.6 | 484.6 | 484.9 | 485.1 | 485.4 | 485.7 |
| 25° | 468.6 | 470.6 | 472.6 | 473.9 | 474.4 | 474.9 | 475.4 | 475.9 |
| 27.5° | 456.2 | 458.7 | 461.2 | 462.6 | 463.0 | 463.4 | 463.7 | 464.1 |
| 30° | 447.4 | 450.0 | 452.7 | 454.2 | 454.7 | 455.2 | 455.8 | 456.3 |
| 32.5° | 437.9 | 440.9 | 444.0 | 446.1 | 447.0 | 447.9 | 448.8 | 449.7 |
| 35° | 424.4 | 428.2 | 431.8 | 434.2 | 435.5 | 436.6 | 437.8 | 439.0 |
| 37.5° | 410.6 | 414.8 | 418.8 | 421.4 | 422.7 | 423.9 | 425.2 | 426.5 |
| 40° | 400.9 | 405.3 | 409.6 | 412.5 | 414.0 | 415.6 | 417.1 | 418.6 |
| 42.5° | 391.4 | 396.2 | 400.9 | 404.1 | 405.6 | 407.1 | 408.6 | 410.1 |
| 45° | 377.0 | 382.1 | 387.3 | 390.7 | 392.4 | 394.2 | 395.8 | 397.5 |
| 47.5° | 361.8 | 367.3 | 372.7 | 376.4 | 378.2 | 380.0 | 381.9 | 383.7 |
| 50° | 351.5 | 357.2 | 362.9 | 366.7 | 368.6 | 370.4 | 372.2 | 374.1 |
| 52.5° | 340.3 | 346.2 | 352.0 | 355.9 | 357.9 | 359.9 | 361.8 | 363.9 |
| 55° | 323.6 | 329.6 | 335.6 | 339.7 | 341.9 | 344.1 | 346.3 | 348.4 |
| 57.5° | 305.8 | 312.3 | 318.8 | 323.2 | 325.4 | 327.6 | 329.8 | 332.0 |
| 60° | 294.1 | 300.4 | 306.8 | 311.1 | 313.5 | 315.9 | 318.2 | 320.5 |
| 62.5° | 281.6 | 288.3 | 295.1 | 299.6 | 301.8 | 304.1 | 306.3 | 308.5 |
| 65° | 262.7 | 269.5 | 276.4 | 280.9 | 283.1 | 285.3 | 287.4 | 289.6 |
| 67.5° | 243.5 | 250.3 | 257.3 | 262.0 | 264.2 | 266.5 | 268.8 | 271.0 |
| 70° | 230.1 | 237.3 | 244.5 | 249.1 | 251.2 | 253.2 | 255.2 | 257.2 |
| 72.5° | 217.2 | 224.3 | 231.4 | 236.1 | 238.4 | 240.9 | 243.3 | 245.7 |
| 75° | 197.7 | 204.9 | 212.1 | 216.8 | 218.9 | 221.2 | 223.3 | 225.5 |
| 77.5° | 178.6 | 185.8 | 193.0 | 197.7 | 200.1 | 202.4 | 204.8 | 207.1 |
| 80° | 165.7 | 172.7 | 179.8 | 184.4 | 186.8 | 189.1 | 191.5 | 193.8 |
| 82.5° | 153.6 | 160.7 | 167.6 | 172.3 | 174.5 | 176.7 | 178.9 | 181.2 |
| 85° | 136.2 | 143.3 | 150.4 | 155.0 | 157.3 | 159.8 | 162.1 | 164.4 |
| 87.5° | 125.7 | 132.8 | 139.9 | 144.5 | 146.7 | 149.0 | 151.2 | 153.4 |
| 90° | 133.5 | 141.2 | 149.0 | 154.0 | 156.4 | 158.9 | 161.3 | 163.7 |
| 92.5° | 129.8 | 136.8 | 143.9 | 148.7 | 150.9 | 153.1 | 155.4 | 157.6 |
| 95° | 137.4 | 144.9 | 152.3 | 156.8 | 158.6 | 160.5 | 162.3 | 164.1 |
| 97.5° | 142.4 | 149.5 | 156.4 | 161.1 | 163.3 | 165.5 | 167.7 | 170.0 |
| 100° | 143.7 | 151.5 | 159.4 | 164.4 | 166.6 | 169.0 | 171.2 | 173.4 |
| 102.5° | 141.7 | 149.9 | 158.0 | 163.4 | 165.7 | 168.1 | 170.6 | 173.0 |
| 105° | 137.3 | 145.5 | 153.6 | 159.0 | 161.7 | 164.3 | 167.0 | 169.7 |
| 107.5° | 144.1 | 147.4 | 150.8 | 153.8 | 156.4 | 159.2 | 161.8 | 164.4 |
| 110° | 186.2 | 171.1 | 155.9 | 149.7 | 152.4 | 155.0 | 157.6 | 160.4 |



TEST NUMBER: P331315-840

CATALOG NUMBER: S122DIP-S485D925U840-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 319.1 | 249.7 | 180.4 | 146.8 | 149.4 | 151.9 | 154.4 | 156.8 |
| 115° | 434.5 | 344.7 | 254.9 | 203.5 | 190.6 | 177.6 | 164.7 | 151.8 |
| 117.5° | 633.4 | 615.4 | 597.4 | 565.0 | 518.3 | 471.4 | 424.6 | 377.9 |
| 120° | 725.8 | 733.0 | 740.1 | 730.7 | 705.0 | 679.1 | 653.3 | 627.4 |
| 122.5° | 763.5 | 769.5 | 775.6 | 776.7 | 772.8 | 769.1 | 765.3 | 761.4 |
| 125° | 816.9 | 822.8 | 828.8 | 832.8 | 835.0 | 837.1 | 839.2 | 841.3 |
| 127.5° | 866.0 | 872.1 | 878.4 | 882.3 | 883.9 | 885.6 | 887.2 | 888.7 |
| 130° | 897.1 | 903.3 | 909.6 | 913.3 | 914.4 | 915.5 | 916.7 | 917.9 |
| 132.5° | 927.2 | 933.0 | 938.8 | 942.3 | 943.4 | 944.5 | 945.6 | 946.8 |
| 135° | 970.4 | 975.9 | 981.5 | 984.7 | 985.6 | 986.5 | 987.5 | 988.5 |
| 137.5° | 1010.2 | 1015.3 | 1020.4 | 1023.2 | 1023.6 | 1024.0 | 1024.5 | 1024.9 |
| 140° | 1036.1 | 1040.7 | 1045.2 | 1047.4 | 1047.4 | 1047.4 | 1047.4 | 1047.4 |
| 142.5° | 1060.9 | 1064.7 | 1068.5 | 1070.4 | 1070.2 | 1070.1 | 1069.9 | 1069.8 |
| 145° | 1096.0 | 1098.4 | 1100.9 | 1102.0 | 1101.8 | 1101.6 | 1101.5 | 1101.3 |
| 147.5° | 1127.0 | 1128.2 | 1129.4 | 1129.8 | 1129.3 | 1128.9 | 1128.4 | 1128.0 |
| 150° | 1147.0 | 1148.3 | 1149.5 | 1149.6 | 1148.6 | 1147.5 | 1146.5 | 1145.5 |
| 152.5° | 1165.5 | 1166.7 | 1167.9 | 1167.9 | 1166.5 | 1165.2 | 1163.9 | 1162.5 |
| 155° | 1190.4 | 1191.6 | 1192.9 | 1192.7 | 1191.0 | 1189.3 | 1187.7 | 1186.1 |
| 157.5° | 1211.3 | 1212.7 | 1214.2 | 1214.1 | 1212.4 | 1210.8 | 1209.2 | 1207.7 |
| 160° | 1223.6 | 1224.9 | 1226.1 | 1226.0 | 1224.5 | 1223.0 | 1221.6 | 1220.2 |
| 162.5° | 1235.0 | 1236.4 | 1237.8 | 1237.6 | 1235.9 | 1234.1 | 1232.3 | 1230.5 |
| 165° | 1248.9 | 1250.3 | 1251.7 | 1251.7 | 1250.3 | 1248.9 | 1247.5 | 1246.1 |
| 167.5° | 1260.5 | 1261.9 | 1263.4 | 1263.1 | 1261.3 | 1259.5 | 1257.7 | 1255.8 |
| 170° | 1266.5 | 1267.9 | 1269.3 | 1269.1 | 1267.3 | 1265.4 | 1263.5 | 1261.7 |
| 172.5° | 1270.8 | 1272.3 | 1273.7 | 1273.5 | 1271.6 | 1269.8 | 1268.0 | 1266.2 |
| 175° | 1275.7 | 1277.1 | 1278.5 | 1278.2 | 1276.2 | 1274.1 | 1272.0 | 1270.0 |
| 177.5° | 1276.2 | 1277.4 | 1278.5 | 1278.3 | 1276.9 | 1275.4 | 1273.8 | 1272.4 |
| 180° | 1274.7 | 1274.7 | 1274.7 | 1274.7 | 1274.7 | 1274.7 | 1274.7 | 1274.7 |

(END OF REPORT)