

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: P331325-940

Luminaire Tested: **S122DIP-S485D1080U940-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331325-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIP-S485D1080U940-4F0-1E-UDD-D1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1080 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5190.1 lumens
Efficiency: N/A
Efficacy: 105.1 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

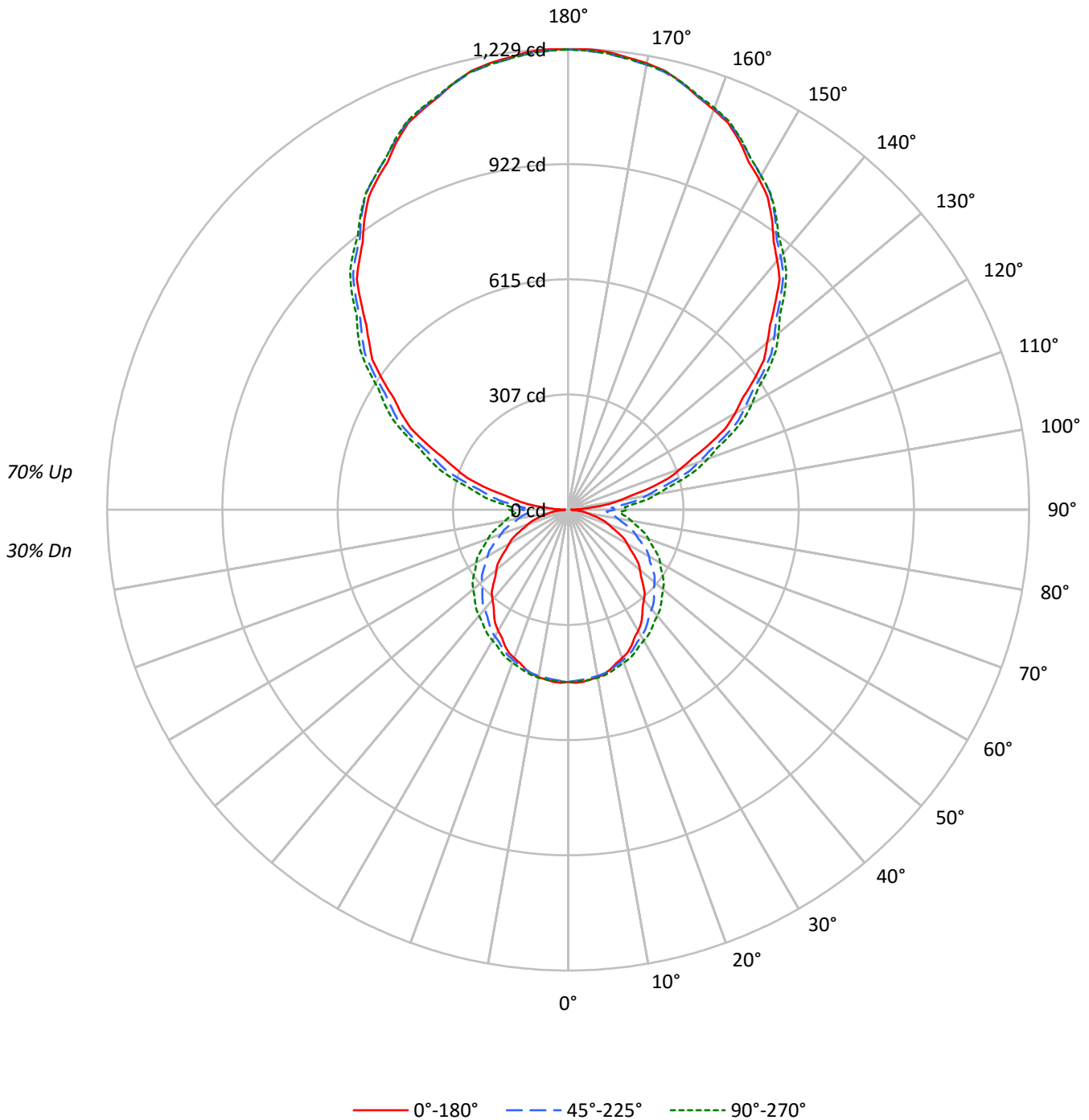
Input Watts (W): 49.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331325-940

CATALOG NUMBER: S122DIP-S485D1080U940-4F0-1E-UDD-D1

Luminous Intensity Polar Plot





TEST NUMBER: P331325-940

CATALOG NUMBER: S122DIP-S485D1080U940-4F0-1E-UDD-D1

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 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 102 | 102 | 102 | 102 | 92 | 92 | 92 | 92 | 72 | 72 | 72 | 54 | 54 | 54 | 38 | 38 | 38 | 30 | | | | |
| 1 | 92 | 88 | 84 | 80 | 83 | 79 | 75 | 72 | 62 | 59 | 57 | 46 | 45 | 43 | 32 | 31 | 30 | 23 | | | | |
| 2 | 84 | 76 | 70 | 65 | 75 | 68 | 63 | 58 | 54 | 50 | 47 | 40 | 38 | 35 | 28 | 26 | 25 | 19 | | | | |
| 3 | 76 | 67 | 59 | 53 | 68 | 60 | 53 | 48 | 47 | 42 | 39 | 35 | 32 | 29 | 24 | 22 | 21 | 16 | | | | |
| 4 | 69 | 59 | 51 | 45 | 62 | 53 | 46 | 41 | 41 | 37 | 33 | 31 | 28 | 25 | 21 | 19 | 17 | 13 | | | | |
| 5 | 64 | 52 | 44 | 38 | 57 | 47 | 40 | 34 | 37 | 32 | 28 | 28 | 24 | 21 | 19 | 17 | 15 | 11 | | | | |
| 6 | 58 | 46 | 38 | 33 | 52 | 42 | 35 | 30 | 33 | 28 | 24 | 25 | 21 | 18 | 17 | 15 | 13 | 10 | | | | |
| 7 | 54 | 42 | 34 | 28 | 48 | 38 | 31 | 26 | 30 | 25 | 21 | 23 | 19 | 16 | 16 | 13 | 11 | 9 | | | | |
| 8 | 50 | 38 | 30 | 25 | 44 | 34 | 27 | 23 | 27 | 22 | 18 | 20 | 17 | 14 | 14 | 12 | 10 | 8 | | | | |
| 9 | 46 | 34 | 27 | 22 | 41 | 31 | 24 | 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 | 11 | 12 | 10 | 8 | 6 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 7419 | 7419 | 7419 |
| 5° | 7455 | 7143 | 7115 |
| 10° | 7408 | 6931 | 6854 |
| 15° | 7306 | 6708 | 6577 |
| 20° | 7177 | 6468 | 6312 |
| 25° | 7050 | 6237 | 6072 |
| 30° | 6870 | 5999 | 5829 |
| 35° | 6689 | 5771 | 5659 |
| 40° | 6498 | 5576 | 5488 |
| 45° | 6317 | 5402 | 5343 |
| 50° | 6123 | 5242 | 5199 |
| 55° | 5916 | 5073 | 5052 |
| 60° | 5666 | 4897 | 4897 |
| 65° | 5405 | 4692 | 4714 |
| 70° | 5117 | 4470 | 4516 |
| 75° | 4741 | 4251 | 4334 |
| 80° | 4149 | 4028 | 4148 |
| 85° | 3591 | 3837 | 4006 |



TEST NUMBER: P331325-940

CATALOG NUMBER: S122DIP-S485D1080U940-4F0-1E-UDD-D1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 43.5 | 0.8 |
| 10°-20° | 124.9 | 2.4 |
| 20°-30° | 189.2 | 3.6 |
| 30°-40° | 230.5 | 4.4 |
| 40°-50° | 247.9 | 4.8 |
| 50°-60° | 240.8 | 4.6 |
| 60°-70° | 210.2 | 4.1 |
| 70°-80° | 161.8 | 3.1 |
| 80°-90° | 113.5 | 2.2 |
| 90°-100° | 152.6 | 2.9 |
| 100°-110° | 296.2 | 5.7 |
| 110°-120° | 449.0 | 8.7 |
| 120°-130° | 563.1 | 10.9 |
| 130°-140° | 617.9 | 11.9 |
| 140°-150° | 599.0 | 11.5 |
| 150°-160° | 501.2 | 9.7 |
| 160°-170° | 332.4 | 6.4 |
| 170°-180° | 116.2 | 2.2 |
| 0°-30° | 357.6 | 6.9 |
| 0°-40° | 588.1 | 11.3 |
| 0°-60° | 1076.8 | 20.7 |
| 0°-90° | 1562.4 | 30.1 |
| 90°-120° | 897.8 | 17.3 |
| 90°-150° | 2677.9 | 51.6 |
| 90°-180° | 3628.0 | 69.9 |
| 0°-180° | 5190.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 460 | 460 | 460 | 460 | 460 | |
| 5° | 461 | 459 | 455 | 459 | 458 | 44 |
| 15° | 440 | 441 | 441 | 446 | 446 | 124 |
| 25° | 400 | 404 | 410 | 418 | 420 | 184 |
| 35° | 344 | 356 | 368 | 382 | 388 | 215 |
| 45° | 282 | 301 | 324 | 344 | 351 | 218 |
| 55° | 216 | 241 | 275 | 298 | 308 | 193 |
| 65° | 148 | 181 | 220 | 246 | 256 | 147 |
| 75° | 82 | 119 | 162 | 189 | 199 | 87 |
| 85° | 24 | 65 | 108 | 135 | 145 | 26 |
| 90° | 8 | 60 | 124 | 148 | 158 | 7 |
| 95° | 59 | 101 | 143 | 167 | 174 | 66 |
| 105° | 226 | 249 | 285 | 310 | 318 | 239 |
| 115° | 417 | 431 | 458 | 477 | 482 | 412 |
| 125° | 604 | 614 | 632 | 646 | 652 | 540 |
| 135° | 781 | 792 | 801 | 813 | 816 | 603 |
| 145° | 947 | 954 | 960 | 965 | 964 | 591 |
| 155° | 1082 | 1086 | 1089 | 1093 | 1091 | 498 |
| 165° | 1178 | 1177 | 1177 | 1183 | 1179 | 332 |
| 175° | 1225 | 1222 | 1220 | 1227 | 1221 | 116 |
| 180° | 1227 | 1227 | 1227 | 1227 | 1227 | |



TEST NUMBER: P331325-940

CATALOG NUMBER: S122DIP-S485D1080U940-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 459.5 | 459.5 | 459.5 | 459.5 | 459.5 | 459.5 | 459.5 | 459.5 | 459.5 | 459.5 | 459.5 |
| 2.5° | 462.2 | 461.8 | 461.5 | 461.1 | 460.7 | 460.1 | 459.3 | 458.5 | 457.7 | 456.8 | 457.4 |
| 5° | 460.8 | 460.4 | 459.9 | 459.5 | 459.1 | 458.4 | 457.5 | 456.6 | 455.8 | 454.9 | 455.8 |
| 7.5° | 456.7 | 456.4 | 456.1 | 455.8 | 455.6 | 455.0 | 454.3 | 453.7 | 453.0 | 452.3 | 453.3 |
| 10° | 453.5 | 453.3 | 452.9 | 452.6 | 452.4 | 452.0 | 451.6 | 451.1 | 450.7 | 450.2 | 451.4 |
| 12.5° | 448.2 | 448.3 | 448.4 | 448.4 | 448.4 | 448.3 | 448.0 | 447.6 | 447.3 | 447.0 | 448.2 |
| 15° | 439.5 | 439.8 | 440.1 | 440.4 | 440.7 | 440.9 | 440.9 | 440.9 | 440.9 | 440.9 | 442.2 |
| 17.5° | 428.4 | 429.0 | 429.6 | 430.3 | 430.9 | 431.4 | 431.9 | 432.3 | 432.8 | 433.3 | 434.6 |
| 20° | 420.9 | 421.6 | 422.4 | 423.1 | 423.8 | 424.5 | 425.1 | 425.7 | 426.3 | 426.9 | 428.5 |
| 22.5° | 412.9 | 413.8 | 414.6 | 415.4 | 416.3 | 417.1 | 418.0 | 418.8 | 419.6 | 420.5 | 422.1 |
| 25° | 399.6 | 400.6 | 401.6 | 402.7 | 403.7 | 404.9 | 406.3 | 407.6 | 408.9 | 410.2 | 412.0 |
| 27.5° | 383.6 | 385.3 | 387.0 | 388.7 | 390.3 | 392.0 | 393.5 | 395.1 | 396.6 | 398.2 | 400.5 |
| 30° | 372.9 | 374.9 | 376.7 | 378.7 | 380.7 | 382.5 | 384.5 | 386.4 | 388.3 | 390.2 | 392.6 |
| 32.5° | 361.2 | 363.4 | 365.5 | 367.7 | 369.9 | 372.1 | 374.3 | 376.7 | 378.9 | 381.2 | 383.9 |
| 35° | 344.3 | 346.8 | 349.4 | 351.9 | 354.4 | 357.0 | 359.8 | 362.7 | 365.4 | 368.3 | 371.5 |
| 37.5° | 325.9 | 328.9 | 331.7 | 334.7 | 337.5 | 340.8 | 344.5 | 348.0 | 351.7 | 355.3 | 359.0 |
| 40° | 313.7 | 316.9 | 320.2 | 323.4 | 326.7 | 330.3 | 334.3 | 338.3 | 342.3 | 346.3 | 350.2 |
| 42.5° | 301.9 | 305.2 | 308.4 | 311.7 | 315.0 | 318.9 | 323.5 | 328.1 | 332.7 | 337.2 | 341.4 |
| 45° | 282.4 | 286.3 | 290.3 | 294.4 | 298.4 | 302.9 | 308.1 | 313.3 | 318.5 | 323.7 | 328.2 |
| 47.5° | 263.1 | 267.4 | 271.8 | 276.1 | 280.4 | 285.7 | 291.8 | 297.8 | 303.9 | 310.0 | 314.8 |
| 50° | 249.8 | 254.3 | 259.0 | 263.5 | 268.0 | 273.7 | 280.4 | 287.0 | 293.7 | 300.3 | 305.4 |
| 52.5° | 236.9 | 241.7 | 246.6 | 251.5 | 256.3 | 262.2 | 269.2 | 276.2 | 283.2 | 290.3 | 295.3 |
| 55° | 216.4 | 221.8 | 227.1 | 232.4 | 237.7 | 244.2 | 252.0 | 259.7 | 267.3 | 275.0 | 280.4 |
| 57.5° | 196.2 | 202.2 | 208.2 | 214.2 | 220.3 | 227.1 | 235.0 | 242.8 | 250.7 | 258.5 | 264.3 |
| 60° | 181.8 | 188.2 | 194.6 | 200.9 | 207.2 | 214.6 | 223.1 | 231.5 | 240.0 | 248.4 | 254.0 |
| 62.5° | 169.0 | 175.6 | 182.3 | 188.9 | 195.5 | 203.0 | 211.3 | 219.8 | 228.3 | 236.7 | 242.6 |
| 65° | 147.8 | 155.1 | 162.4 | 169.6 | 176.8 | 184.9 | 193.6 | 202.3 | 211.1 | 219.8 | 225.9 |
| 67.5° | 128.4 | 136.0 | 143.6 | 151.1 | 158.7 | 166.9 | 175.9 | 184.9 | 193.8 | 202.7 | 208.8 |
| 70° | 114.6 | 122.3 | 129.9 | 137.6 | 145.3 | 153.7 | 162.9 | 172.1 | 181.3 | 190.5 | 196.8 |
| 72.5° | 101.7 | 109.7 | 117.6 | 125.6 | 133.5 | 142.1 | 151.4 | 160.7 | 170.0 | 179.2 | 185.6 |
| 75° | 81.9 | 90.2 | 98.4 | 106.7 | 115.0 | 123.9 | 133.4 | 142.9 | 152.4 | 161.8 | 168.2 |
| 77.5° | 62.8 | 71.4 | 80.1 | 88.7 | 97.5 | 106.6 | 116.2 | 125.8 | 135.5 | 145.1 | 151.4 |
| 80° | 49.9 | 58.9 | 68.0 | 77.0 | 86.1 | 95.4 | 105.0 | 114.6 | 124.2 | 133.8 | 140.1 |
| 82.5° | 39.3 | 48.2 | 57.1 | 66.0 | 74.9 | 84.3 | 94.0 | 103.7 | 113.4 | 123.2 | 129.4 |
| 85° | 24.0 | 33.2 | 42.4 | 51.5 | 60.6 | 70.0 | 79.5 | 88.9 | 98.4 | 107.9 | 114.1 |
| 87.5° | 13.3 | 22.6 | 32.0 | 41.4 | 50.7 | 60.6 | 71.2 | 81.7 | 92.1 | 102.6 | 108.5 |
| 90° | 7.7 | 19.1 | 30.4 | 41.7 | 53.1 | 66.0 | 80.5 | 95.1 | 109.6 | 124.1 | 129.7 |
| 92.5° | 24.5 | 34.6 | 44.6 | 54.6 | 64.6 | 74.8 | 85.1 | 95.4 | 105.8 | 116.0 | 122.0 |
| 95° | 59.2 | 68.5 | 77.7 | 86.9 | 96.2 | 105.5 | 114.9 | 124.2 | 133.6 | 142.9 | 148.5 |
| 97.5° | 103.1 | 111.3 | 119.5 | 127.7 | 135.9 | 144.7 | 154.1 | 163.5 | 172.9 | 182.3 | 187.8 |
| 100° | 136.2 | 143.6 | 150.9 | 158.2 | 165.5 | 173.6 | 182.6 | 191.5 | 200.5 | 209.6 | 215.0 |
| 102.5° | 170.5 | 176.9 | 183.4 | 189.9 | 196.4 | 204.1 | 213.0 | 221.9 | 230.9 | 239.8 | 245.3 |
| 105° | 226.0 | 231.0 | 235.9 | 240.9 | 245.9 | 252.5 | 260.6 | 268.9 | 277.0 | 285.2 | 290.8 |
| 107.5° | 282.7 | 287.1 | 291.6 | 296.0 | 300.4 | 306.4 | 313.7 | 321.1 | 328.4 | 335.8 | 341.0 |
| 110° | 318.6 | 322.9 | 327.3 | 331.6 | 335.9 | 341.7 | 349.0 | 356.2 | 363.5 | 370.8 | 375.5 |



TEST NUMBER: P331325-940

CATALOG NUMBER: S122DIP-S485D1080U940-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 358.4 | 362.2 | 366.0 | 370.0 | 373.8 | 379.2 | 385.8 | 392.5 | 399.2 | 406.0 | 410.2 |
| 115° | 417.0 | 420.0 | 423.0 | 426.0 | 429.0 | 433.6 | 439.8 | 446.0 | 452.2 | 458.4 | 462.6 |
| 117.5° | 474.7 | 477.6 | 480.5 | 483.5 | 486.3 | 490.3 | 495.1 | 500.0 | 504.9 | 509.7 | 513.5 |
| 120° | 513.7 | 516.1 | 518.5 | 520.9 | 523.4 | 526.6 | 530.7 | 534.8 | 539.0 | 543.0 | 547.2 |
| 122.5° | 549.3 | 551.8 | 554.2 | 556.7 | 559.1 | 562.5 | 566.8 | 571.1 | 575.2 | 579.5 | 583.0 |
| 125° | 604.1 | 606.3 | 608.3 | 610.4 | 612.4 | 615.5 | 619.6 | 623.6 | 627.7 | 631.7 | 635.0 |
| 127.5° | 658.3 | 660.7 | 663.2 | 665.7 | 668.2 | 670.8 | 673.9 | 676.8 | 679.8 | 682.9 | 685.6 |
| 130° | 692.2 | 695.1 | 697.9 | 700.7 | 703.6 | 706.3 | 709.0 | 711.6 | 714.3 | 716.9 | 720.1 |
| 132.5° | 730.3 | 732.6 | 734.9 | 737.2 | 739.5 | 741.9 | 744.4 | 746.9 | 749.4 | 751.8 | 754.3 |
| 135° | 780.6 | 783.2 | 785.7 | 788.2 | 790.8 | 793.0 | 795.0 | 796.8 | 798.8 | 800.8 | 803.6 |
| 137.5° | 834.3 | 836.3 | 838.4 | 840.4 | 842.4 | 844.1 | 845.3 | 846.6 | 847.8 | 849.1 | 851.6 |
| 140° | 866.6 | 868.5 | 870.4 | 872.4 | 874.3 | 875.9 | 877.4 | 878.9 | 880.3 | 881.7 | 884.1 |
| 142.5° | 899.7 | 901.7 | 903.6 | 905.5 | 907.4 | 908.8 | 909.6 | 910.5 | 911.3 | 912.2 | 914.3 |
| 145° | 946.7 | 948.3 | 949.9 | 951.5 | 953.1 | 954.7 | 956.0 | 957.4 | 958.8 | 960.2 | 961.3 |
| 147.5° | 989.2 | 991.1 | 993.0 | 995.0 | 996.9 | 998.4 | 999.3 | 1000.2 | 1001.1 | 1002.0 | 1002.6 |
| 150° | 1018.2 | 1019.6 | 1020.9 | 1022.3 | 1023.7 | 1024.8 | 1025.8 | 1026.7 | 1027.6 | 1028.6 | 1029.2 |
| 152.5° | 1043.8 | 1045.3 | 1046.6 | 1048.0 | 1049.4 | 1050.6 | 1051.8 | 1052.8 | 1054.0 | 1055.1 | 1056.0 |
| 155° | 1082.4 | 1083.1 | 1083.8 | 1084.5 | 1085.2 | 1085.8 | 1086.5 | 1087.3 | 1088.0 | 1088.6 | 1089.8 |
| 157.5° | 1115.4 | 1115.8 | 1116.2 | 1116.7 | 1117.2 | 1117.6 | 1118.0 | 1118.5 | 1118.8 | 1119.3 | 1120.9 |
| 160° | 1135.2 | 1135.7 | 1136.1 | 1136.6 | 1137.1 | 1137.4 | 1137.6 | 1137.9 | 1138.1 | 1138.4 | 1139.7 |
| 162.5° | 1153.4 | 1153.5 | 1153.6 | 1153.7 | 1153.9 | 1154.0 | 1154.2 | 1154.4 | 1154.7 | 1154.9 | 1156.5 |
| 165° | 1177.7 | 1177.5 | 1177.2 | 1177.0 | 1176.8 | 1176.7 | 1176.7 | 1176.7 | 1176.7 | 1176.7 | 1178.3 |
| 167.5° | 1198.0 | 1197.3 | 1196.6 | 1196.0 | 1195.2 | 1194.9 | 1194.8 | 1194.8 | 1194.7 | 1194.7 | 1196.3 |
| 170° | 1208.8 | 1208.1 | 1207.4 | 1206.7 | 1206.0 | 1205.6 | 1205.3 | 1205.1 | 1204.9 | 1204.6 | 1206.2 |
| 172.5° | 1216.2 | 1215.6 | 1214.9 | 1214.2 | 1213.4 | 1213.0 | 1212.8 | 1212.5 | 1212.3 | 1212.1 | 1213.7 |
| 175° | 1225.4 | 1224.7 | 1224.0 | 1223.2 | 1222.6 | 1222.0 | 1221.6 | 1221.1 | 1220.7 | 1220.1 | 1221.8 |
| 177.5° | 1229.0 | 1228.5 | 1228.0 | 1227.4 | 1226.9 | 1226.4 | 1226.0 | 1225.7 | 1225.3 | 1224.9 | 1226.0 |
| 180° | 1227.4 | 1227.4 | 1227.4 | 1227.4 | 1227.4 | 1227.4 | 1227.4 | 1227.4 | 1227.4 | 1227.4 | 1227.4 |



TEST NUMBER: P331325-940

CATALOG NUMBER: S122DIP-S485D1080U940-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 459.5 | 459.5 | 459.5 | 459.5 | 459.5 | 459.5 | 459.5 | 459.5 |
| 2.5° | 458.1 | 458.6 | 459.2 | 459.4 | 459.1 | 459.0 | 458.7 | 458.4 |
| 5° | 456.6 | 457.5 | 458.4 | 458.8 | 458.6 | 458.5 | 458.3 | 458.2 |
| 7.5° | 454.4 | 455.5 | 456.6 | 457.0 | 456.9 | 456.7 | 456.6 | 456.5 |
| 10° | 452.5 | 453.7 | 455.0 | 455.5 | 455.3 | 455.1 | 455.0 | 454.9 |
| 12.5° | 449.3 | 450.6 | 451.7 | 452.3 | 452.1 | 451.9 | 451.8 | 451.7 |
| 15° | 443.5 | 444.9 | 446.2 | 446.7 | 446.7 | 446.5 | 446.3 | 446.2 |
| 17.5° | 436.0 | 437.5 | 438.8 | 439.5 | 439.5 | 439.5 | 439.5 | 439.5 |
| 20° | 430.2 | 431.8 | 433.4 | 434.2 | 434.2 | 434.2 | 434.2 | 434.2 |
| 22.5° | 423.7 | 425.3 | 427.0 | 427.9 | 428.2 | 428.4 | 428.6 | 428.9 |
| 25° | 413.8 | 415.5 | 417.3 | 418.5 | 418.9 | 419.4 | 419.8 | 420.3 |
| 27.5° | 402.8 | 405.0 | 407.2 | 408.5 | 408.8 | 409.2 | 409.5 | 409.8 |
| 30° | 395.0 | 397.3 | 399.8 | 401.1 | 401.5 | 402.0 | 402.4 | 402.9 |
| 32.5° | 386.6 | 389.3 | 392.1 | 393.9 | 394.7 | 395.5 | 396.3 | 397.1 |
| 35° | 374.8 | 378.1 | 381.3 | 383.4 | 384.5 | 385.5 | 386.6 | 387.6 |
| 37.5° | 362.6 | 366.2 | 369.8 | 372.1 | 373.3 | 374.3 | 375.4 | 376.6 |
| 40° | 354.0 | 357.8 | 361.7 | 364.3 | 365.6 | 366.9 | 368.3 | 369.6 |
| 42.5° | 345.6 | 349.8 | 354.0 | 356.9 | 358.1 | 359.4 | 360.8 | 362.1 |
| 45° | 332.9 | 337.4 | 342.0 | 345.0 | 346.5 | 348.0 | 349.5 | 351.0 |
| 47.5° | 319.5 | 324.3 | 329.1 | 332.3 | 333.9 | 335.6 | 337.2 | 338.9 |
| 50° | 310.4 | 315.4 | 320.5 | 323.8 | 325.5 | 327.1 | 328.7 | 330.3 |
| 52.5° | 300.5 | 305.7 | 310.9 | 314.2 | 316.0 | 317.8 | 319.5 | 321.3 |
| 55° | 285.7 | 291.1 | 296.3 | 300.0 | 301.9 | 303.8 | 305.8 | 307.6 |
| 57.5° | 270.0 | 275.7 | 281.5 | 285.3 | 287.3 | 289.3 | 291.2 | 293.2 |
| 60° | 259.7 | 265.3 | 270.9 | 274.7 | 276.8 | 278.9 | 281.0 | 283.0 |
| 62.5° | 248.6 | 254.6 | 260.6 | 264.6 | 266.5 | 268.5 | 270.5 | 272.4 |
| 65° | 231.9 | 238.0 | 244.1 | 248.1 | 249.9 | 251.9 | 253.8 | 255.7 |
| 67.5° | 215.0 | 221.1 | 227.2 | 231.3 | 233.3 | 235.3 | 237.4 | 239.3 |
| 70° | 203.2 | 209.6 | 215.9 | 220.0 | 221.8 | 223.6 | 225.3 | 227.1 |
| 72.5° | 191.8 | 198.0 | 204.3 | 208.5 | 210.5 | 212.7 | 214.8 | 217.0 |
| 75° | 174.6 | 180.9 | 187.3 | 191.5 | 193.3 | 195.3 | 197.2 | 199.1 |
| 77.5° | 157.7 | 164.1 | 170.4 | 174.6 | 176.6 | 178.7 | 180.8 | 182.9 |
| 80° | 146.3 | 152.5 | 158.7 | 162.8 | 165.0 | 167.0 | 169.1 | 171.1 |
| 82.5° | 135.6 | 141.9 | 148.0 | 152.1 | 154.1 | 156.0 | 158.0 | 160.0 |
| 85° | 120.3 | 126.5 | 132.8 | 136.9 | 138.9 | 141.1 | 143.1 | 145.2 |
| 87.5° | 114.5 | 120.5 | 126.4 | 130.4 | 132.2 | 134.2 | 136.2 | 138.1 |
| 90° | 135.1 | 140.5 | 146.0 | 149.7 | 151.8 | 153.7 | 155.8 | 157.7 |
| 92.5° | 127.9 | 133.8 | 139.6 | 143.5 | 145.3 | 147.1 | 148.9 | 150.8 |
| 95° | 154.1 | 159.7 | 165.4 | 168.8 | 170.1 | 171.5 | 172.8 | 174.1 |
| 97.5° | 193.2 | 198.8 | 204.2 | 207.8 | 209.5 | 211.2 | 212.9 | 214.6 |
| 100° | 220.5 | 226.0 | 231.4 | 234.9 | 236.3 | 237.6 | 239.1 | 240.5 |
| 102.5° | 250.8 | 256.4 | 262.0 | 265.4 | 266.8 | 268.2 | 269.7 | 271.0 |
| 105° | 296.4 | 302.1 | 307.7 | 311.4 | 313.0 | 314.6 | 316.2 | 317.9 |
| 107.5° | 346.2 | 351.3 | 356.4 | 359.4 | 359.9 | 360.4 | 361.1 | 361.6 |
| 110° | 380.2 | 385.0 | 389.7 | 392.5 | 393.4 | 394.4 | 395.3 | 396.3 |



TEST NUMBER: P331325-940

CATALOG NUMBER: S122DIP-S485D1080U940-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 414.3 | 418.5 | 422.7 | 425.3 | 426.5 | 427.6 | 428.7 | 429.8 |
| 115° | 466.8 | 471.1 | 475.3 | 477.9 | 478.8 | 479.7 | 480.6 | 481.6 |
| 117.5° | 517.4 | 521.2 | 525.0 | 527.4 | 528.2 | 529.0 | 529.9 | 530.7 |
| 120° | 551.3 | 555.4 | 559.5 | 562.1 | 563.0 | 564.0 | 564.9 | 565.9 |
| 122.5° | 586.5 | 590.0 | 593.4 | 595.7 | 596.6 | 597.4 | 598.2 | 599.1 |
| 125° | 638.3 | 641.6 | 644.9 | 647.1 | 648.2 | 649.3 | 650.4 | 651.5 |
| 127.5° | 688.5 | 691.3 | 694.2 | 695.9 | 696.4 | 697.1 | 697.6 | 698.1 |
| 130° | 723.1 | 726.2 | 729.3 | 730.9 | 731.2 | 731.5 | 731.7 | 732.0 |
| 132.5° | 756.7 | 759.1 | 761.5 | 762.9 | 763.4 | 763.8 | 764.3 | 764.7 |
| 135° | 806.5 | 809.4 | 812.3 | 814.0 | 814.4 | 814.9 | 815.4 | 815.9 |
| 137.5° | 854.2 | 856.7 | 859.3 | 860.6 | 860.7 | 860.8 | 860.8 | 860.9 |
| 140° | 886.5 | 888.9 | 891.3 | 892.4 | 892.3 | 892.3 | 892.3 | 892.2 |
| 142.5° | 916.3 | 918.4 | 920.5 | 921.5 | 921.3 | 921.1 | 921.0 | 920.9 |
| 145° | 962.4 | 963.5 | 964.7 | 965.1 | 964.9 | 964.7 | 964.6 | 964.4 |
| 147.5° | 1003.3 | 1003.9 | 1004.5 | 1004.6 | 1004.1 | 1003.5 | 1003.0 | 1002.5 |
| 150° | 1029.9 | 1030.6 | 1031.4 | 1031.4 | 1030.6 | 1029.9 | 1029.2 | 1028.6 |
| 152.5° | 1056.9 | 1057.7 | 1058.5 | 1058.5 | 1057.7 | 1056.9 | 1056.0 | 1055.1 |
| 155° | 1090.9 | 1092.1 | 1093.2 | 1093.4 | 1092.8 | 1092.1 | 1091.4 | 1090.7 |
| 157.5° | 1122.4 | 1124.0 | 1125.5 | 1125.8 | 1124.6 | 1123.6 | 1122.5 | 1121.3 |
| 160° | 1141.1 | 1142.5 | 1143.9 | 1144.1 | 1143.2 | 1142.3 | 1141.3 | 1140.4 |
| 162.5° | 1158.1 | 1159.6 | 1161.2 | 1161.4 | 1160.3 | 1159.2 | 1158.1 | 1157.0 |
| 165° | 1179.9 | 1181.5 | 1183.1 | 1183.3 | 1182.2 | 1181.1 | 1179.9 | 1178.8 |
| 167.5° | 1197.9 | 1199.5 | 1201.1 | 1201.3 | 1200.2 | 1198.9 | 1197.7 | 1196.6 |
| 170° | 1207.8 | 1209.4 | 1211.0 | 1211.2 | 1209.8 | 1208.4 | 1207.0 | 1205.7 |
| 172.5° | 1215.3 | 1216.9 | 1218.5 | 1218.6 | 1217.3 | 1215.8 | 1214.5 | 1213.1 |
| 175° | 1223.4 | 1225.0 | 1226.6 | 1226.7 | 1225.4 | 1224.0 | 1222.6 | 1221.2 |
| 177.5° | 1227.2 | 1228.2 | 1229.3 | 1229.3 | 1228.2 | 1227.2 | 1226.0 | 1224.9 |
| 180° | 1227.4 | 1227.4 | 1227.4 | 1227.4 | 1227.4 | 1227.4 | 1227.4 | 1227.4 |

(END OF REPORT)