

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: P331505-927

Luminaire Tested: **S122DIW-S485D710U927-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331505-927
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: S122DIW-S485D710U927-4F0-1E-UDD-F
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 710 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3813.3 lumens
Efficiency: N/A
Efficacy: 101.4 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: General Diffuse

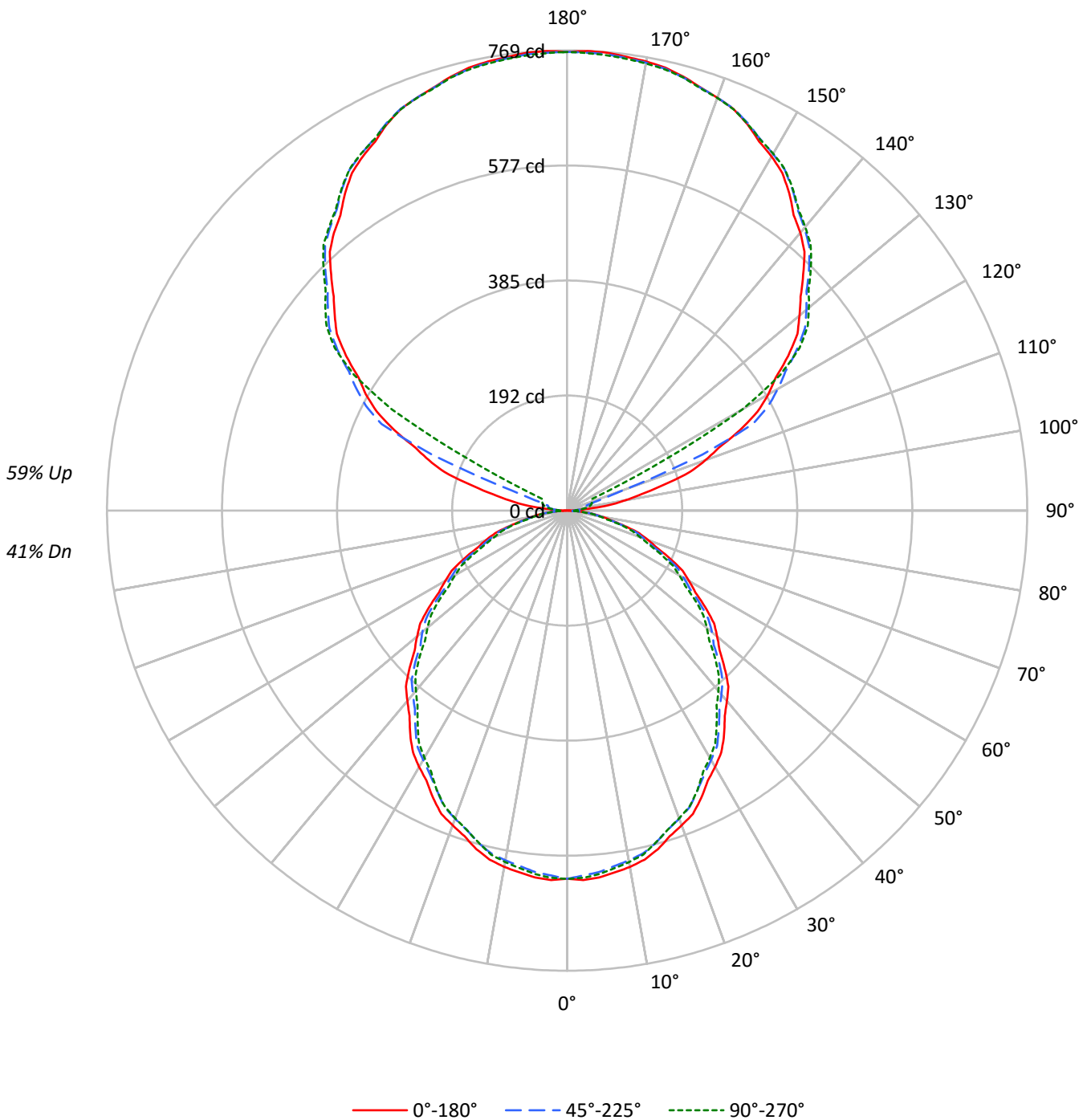
Input Watts (W): 37.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331505-927

CATALOG NUMBER: S122DIW-S485D710U927-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P331505-927

CATALOG NUMBER: S122DIW-S485D710U927-4F0-1E-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 | 105 | 105 | 105 | 105 | 96 | 96 | 96 | 96 | 78 | 78 | 78 | 63 | 63 | 63 | 48 | 48 | 48 | 41 |
| 1 | 96 | 92 | 88 | 84 | 87 | 84 | 80 | 77 | 69 | 66 | 64 | 55 | 53 | 52 | 42 | 41 | 40 | 35 |
| 2 | 87 | 80 | 74 | 69 | 79 | 73 | 68 | 63 | 60 | 56 | 53 | 48 | 46 | 43 | 37 | 36 | 34 | 29 |
| 3 | 80 | 70 | 63 | 57 | 72 | 64 | 58 | 53 | 53 | 48 | 45 | 43 | 39 | 37 | 33 | 31 | 29 | 25 |
| 4 | 73 | 62 | 54 | 48 | 66 | 57 | 50 | 45 | 47 | 42 | 38 | 38 | 34 | 31 | 30 | 27 | 25 | 21 |
| 5 | 67 | 55 | 47 | 41 | 61 | 51 | 44 | 38 | 42 | 37 | 33 | 34 | 30 | 27 | 27 | 24 | 22 | 18 |
| 6 | 61 | 50 | 42 | 36 | 56 | 45 | 38 | 33 | 38 | 33 | 29 | 31 | 27 | 24 | 24 | 21 | 19 | 16 |
| 7 | 57 | 45 | 37 | 31 | 52 | 41 | 34 | 29 | 34 | 29 | 25 | 28 | 24 | 21 | 22 | 19 | 17 | 14 |
| 8 | 53 | 40 | 33 | 28 | 48 | 37 | 31 | 26 | 31 | 26 | 22 | 26 | 22 | 19 | 20 | 17 | 15 | 13 |
| 9 | 49 | 37 | 30 | 25 | 45 | 34 | 27 | 23 | 29 | 23 | 20 | 23 | 20 | 17 | 19 | 16 | 14 | 12 |
| 10 | 46 | 34 | 27 | 22 | 42 | 31 | 25 | 21 | 26 | 21 | 18 | 22 | 18 | 15 | 17 | 14 | 12 | 10 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 9935 | 9935 | 9935 |
| 5° | 9972 | 9828 | 9887 |
| 10° | 9914 | 9729 | 9778 |
| 15° | 9790 | 9603 | 9593 |
| 20° | 9617 | 9414 | 9402 |
| 25° | 9444 | 9180 | 9180 |
| 30° | 9221 | 8968 | 8889 |
| 35° | 9014 | 8712 | 8584 |
| 40° | 8753 | 8456 | 8292 |
| 45° | 8499 | 8200 | 7996 |
| 50° | 8219 | 7935 | 7654 |
| 55° | 7927 | 7626 | 7344 |
| 60° | 7601 | 7259 | 6991 |
| 65° | 7255 | 6896 | 6575 |
| 70° | 6812 | 6453 | 6146 |
| 75° | 6201 | 5939 | 5795 |
| 80° | 5504 | 5337 | 5058 |
| 85° | 4483 | 4279 | 3835 |



TEST NUMBER: P331505-927

CATALOG NUMBER: S122DIW-S485D710U927-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 57.9 | 1.5 |
| 10°-20° | 162.8 | 4.3 |
| 20°-30° | 239.3 | 6.3 |
| 30°-40° | 278.0 | 7.3 |
| 40°-50° | 277.7 | 7.3 |
| 50°-60° | 242.1 | 6.3 |
| 60°-70° | 179.0 | 4.7 |
| 70°-80° | 101.4 | 2.7 |
| 80°-90° | 29.2 | 0.8 |
| 90°-100° | 25.6 | 0.7 |
| 100°-110° | 93.8 | 2.5 |
| 110°-120° | 250.6 | 6.6 |
| 120°-130° | 413.7 | 10.8 |
| 130°-140° | 440.0 | 11.5 |
| 140°-150° | 408.9 | 10.7 |
| 150°-160° | 328.8 | 8.6 |
| 160°-170° | 211.9 | 5.6 |
| 170°-180° | 72.9 | 1.9 |
| 0°-30° | 459.9 | 12.1 |
| 0°-40° | 737.9 | 19.4 |
| 0°-60° | 1257.7 | 33.0 |
| 0°-90° | 1567.3 | 41.1 |
| 90°-120° | 369.9 | 9.7 |
| 90°-150° | 1632.5 | 42.8 |
| 90°-180° | 2246.0 | 58.9 |
| 0°-180° | 3813.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 615 | 615 | 615 | 615 | 615 | |
| 5° | 615 | 613 | 606 | 611 | 610 | 58 |
| 15° | 586 | 582 | 574 | 577 | 574 | 165 |
| 25° | 530 | 525 | 515 | 516 | 515 | 244 |
| 35° | 457 | 451 | 442 | 438 | 436 | 285 |
| 45° | 372 | 368 | 359 | 353 | 350 | 287 |
| 55° | 282 | 278 | 271 | 264 | 261 | 252 |
| 65° | 190 | 186 | 180 | 175 | 172 | 188 |
| 75° | 99 | 98 | 95 | 92 | 93 | 106 |
| 85° | 24 | 24 | 23 | 21 | 21 | 28 |
| 90° | 1 | 6 | 11 | 14 | 15 | 3 |
| 95° | 36 | 19 | 22 | 24 | 24 | 44 |
| 105° | 169 | 176 | 34 | 40 | 42 | 180 |
| 115° | 319 | 329 | 342 | 97 | 46 | 314 |
| 125° | 451 | 458 | 469 | 472 | 474 | 402 |
| 135° | 558 | 567 | 572 | 577 | 576 | 431 |
| 145° | 647 | 647 | 656 | 660 | 657 | 405 |
| 155° | 713 | 708 | 714 | 717 | 713 | 328 |
| 165° | 751 | 748 | 749 | 753 | 749 | 212 |
| 175° | 768 | 764 | 765 | 769 | 764 | 73 |
| 180° | 766 | 766 | 766 | 766 | 766 | |



TEST NUMBER: P331505-927

CATALOG NUMBER: S122DIW-S485D710U927-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 615.3 | 615.3 | 615.3 | 615.3 | 615.3 | 615.3 | 615.3 | 615.3 | 615.3 | 615.3 | 615.3 |
| 2.5° | 618.1 | 617.6 | 617.1 | 616.6 | 616.0 | 615.2 | 614.0 | 612.9 | 611.7 | 610.5 | 611.6 |
| 5° | 615.3 | 614.7 | 614.3 | 613.7 | 613.2 | 612.2 | 610.8 | 609.3 | 607.8 | 606.4 | 607.4 |
| 7.5° | 609.8 | 609.0 | 608.2 | 607.4 | 606.6 | 605.5 | 604.0 | 602.5 | 601.0 | 599.5 | 600.6 |
| 10° | 604.7 | 603.7 | 602.8 | 601.9 | 600.9 | 599.7 | 598.1 | 596.6 | 595.0 | 593.4 | 594.5 |
| 12.5° | 597.5 | 596.8 | 595.9 | 595.1 | 594.3 | 593.1 | 591.5 | 589.9 | 588.4 | 586.8 | 587.5 |
| 15° | 585.7 | 584.9 | 584.2 | 583.4 | 582.6 | 581.3 | 579.6 | 577.9 | 576.2 | 574.5 | 575.0 |
| 17.5° | 570.5 | 569.8 | 569.0 | 568.2 | 567.4 | 566.2 | 564.4 | 562.7 | 560.9 | 559.2 | 559.8 |
| 20° | 559.7 | 558.9 | 558.1 | 557.3 | 556.5 | 555.2 | 553.3 | 551.5 | 549.7 | 547.9 | 548.3 |
| 22.5° | 548.8 | 547.7 | 546.6 | 545.5 | 544.4 | 543.0 | 541.2 | 539.5 | 537.7 | 536.0 | 536.1 |
| 25° | 530.1 | 529.0 | 528.0 | 527.0 | 525.9 | 524.3 | 522.0 | 519.8 | 517.5 | 515.3 | 515.6 |
| 27.5° | 508.8 | 507.9 | 506.9 | 506.0 | 505.0 | 503.7 | 501.9 | 500.1 | 498.4 | 496.6 | 496.2 |
| 30° | 494.6 | 493.5 | 492.5 | 491.5 | 490.4 | 488.9 | 486.9 | 485.0 | 483.0 | 481.0 | 480.6 |
| 32.5° | 479.4 | 478.6 | 477.8 | 476.9 | 476.1 | 474.6 | 472.5 | 470.5 | 468.4 | 466.4 | 465.6 |
| 35° | 457.3 | 456.0 | 454.7 | 453.4 | 452.1 | 450.4 | 448.3 | 446.2 | 444.0 | 442.0 | 441.2 |
| 37.5° | 432.4 | 431.2 | 430.1 | 428.9 | 427.7 | 426.1 | 424.0 | 421.9 | 419.8 | 417.7 | 416.7 |
| 40° | 415.3 | 414.2 | 413.2 | 412.2 | 411.1 | 409.6 | 407.4 | 405.4 | 403.2 | 401.2 | 400.0 |
| 42.5° | 398.8 | 397.7 | 396.6 | 395.6 | 394.6 | 393.0 | 390.9 | 388.8 | 386.7 | 384.5 | 383.3 |
| 45° | 372.2 | 371.2 | 370.3 | 369.4 | 368.4 | 367.0 | 365.0 | 363.1 | 361.1 | 359.1 | 357.7 |
| 47.5° | 345.6 | 344.8 | 343.9 | 343.0 | 342.1 | 340.7 | 338.7 | 336.6 | 334.5 | 332.5 | 331.0 |
| 50° | 327.2 | 326.5 | 325.8 | 325.2 | 324.6 | 323.3 | 321.5 | 319.6 | 317.7 | 315.9 | 314.1 |
| 52.5° | 309.2 | 308.3 | 307.4 | 306.6 | 305.7 | 304.4 | 302.7 | 301.0 | 299.2 | 297.5 | 296.0 |
| 55° | 281.6 | 280.8 | 280.0 | 279.2 | 278.5 | 277.3 | 275.7 | 274.1 | 272.5 | 270.9 | 269.4 |
| 57.5° | 253.9 | 253.3 | 252.6 | 252.1 | 251.4 | 250.3 | 248.5 | 246.8 | 245.0 | 243.3 | 241.7 |
| 60° | 235.4 | 235.0 | 234.4 | 233.9 | 233.4 | 232.2 | 230.4 | 228.5 | 226.6 | 224.8 | 223.4 |
| 62.5° | 217.5 | 216.7 | 215.8 | 214.9 | 214.1 | 213.0 | 211.6 | 210.2 | 208.7 | 207.3 | 206.0 |
| 65° | 189.9 | 189.1 | 188.3 | 187.5 | 186.8 | 185.7 | 184.4 | 183.1 | 181.7 | 180.5 | 179.3 |
| 67.5° | 161.8 | 161.2 | 160.6 | 159.9 | 159.3 | 158.4 | 157.2 | 156.1 | 154.9 | 153.7 | 152.8 |
| 70° | 144.3 | 143.9 | 143.3 | 142.8 | 142.3 | 141.4 | 140.2 | 139.0 | 137.8 | 136.7 | 135.8 |
| 72.5° | 126.4 | 125.9 | 125.3 | 124.8 | 124.3 | 123.7 | 122.9 | 122.1 | 121.4 | 120.6 | 119.6 |
| 75° | 99.4 | 99.1 | 98.9 | 98.6 | 98.3 | 97.9 | 97.2 | 96.6 | 95.9 | 95.2 | 94.4 |
| 77.5° | 75.3 | 74.8 | 74.4 | 73.9 | 73.4 | 73.1 | 72.9 | 72.6 | 72.3 | 72.1 | 71.7 |
| 80° | 59.2 | 59.0 | 58.9 | 58.8 | 58.6 | 58.5 | 58.1 | 57.9 | 57.7 | 57.4 | 57.0 |
| 82.5° | 44.0 | 44.0 | 44.0 | 44.0 | 43.9 | 43.8 | 43.6 | 43.5 | 43.3 | 43.2 | 42.7 |
| 85° | 24.2 | 24.2 | 24.0 | 23.8 | 23.8 | 23.6 | 23.4 | 23.4 | 23.2 | 23.1 | 22.7 |
| 87.5° | 8.6 | 8.7 | 8.7 | 8.8 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.6 |
| 90° | 0.6 | 1.9 | 3.2 | 4.6 | 5.9 | 7.1 | 8.2 | 9.1 | 10.1 | 11.1 | 11.7 |
| 92.5° | 11.2 | 11.1 | 10.9 | 10.9 | 10.7 | 10.9 | 11.4 | 11.9 | 12.4 | 12.8 | 13.2 |
| 95° | 36.0 | 32.0 | 27.9 | 23.8 | 19.8 | 18.1 | 19.0 | 19.9 | 20.8 | 21.6 | 22.3 |
| 97.5° | 71.5 | 60.0 | 48.6 | 37.2 | 25.7 | 21.0 | 23.0 | 25.0 | 26.9 | 28.9 | 29.5 |
| 100° | 98.2 | 81.3 | 64.4 | 47.5 | 30.7 | 23.2 | 25.3 | 27.4 | 29.5 | 31.6 | 32.6 |
| 102.5° | 127.5 | 123.9 | 120.3 | 116.7 | 113.1 | 102.6 | 85.1 | 67.6 | 50.0 | 32.5 | 33.7 |
| 105° | 168.6 | 172.3 | 176.0 | 179.7 | 183.4 | 168.4 | 134.8 | 101.1 | 67.5 | 33.8 | 35.2 |
| 107.5° | 215.5 | 218.5 | 221.5 | 224.4 | 227.4 | 208.7 | 168.4 | 128.1 | 87.7 | 47.4 | 45.9 |
| 110° | 245.7 | 248.3 | 250.9 | 253.4 | 256.0 | 239.5 | 203.9 | 168.3 | 132.7 | 97.0 | 84.8 |



TEST NUMBER: P331505-927

CATALOG NUMBER: S122DIW-S485D710U927-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 274.1 | 276.4 | 278.7 | 280.9 | 283.2 | 280.0 | 271.2 | 262.4 | 253.6 | 244.8 | 199.9 |
| 115° | 318.9 | 321.0 | 323.1 | 325.2 | 327.3 | 329.9 | 333.0 | 336.0 | 339.1 | 342.1 | 285.1 |
| 117.5° | 358.9 | 361.2 | 363.6 | 365.9 | 368.3 | 370.5 | 372.6 | 374.8 | 376.8 | 379.0 | 365.2 |
| 120° | 388.2 | 390.1 | 391.9 | 393.7 | 395.6 | 397.6 | 399.8 | 402.0 | 404.3 | 406.5 | 408.0 |
| 122.5° | 413.0 | 415.0 | 416.9 | 418.9 | 420.8 | 423.0 | 425.4 | 427.9 | 430.2 | 432.7 | 433.6 |
| 125° | 450.8 | 452.5 | 454.1 | 455.7 | 457.2 | 459.2 | 461.6 | 463.9 | 466.3 | 468.6 | 469.4 |
| 127.5° | 485.1 | 486.9 | 488.7 | 490.4 | 492.3 | 494.0 | 495.7 | 497.5 | 499.2 | 501.0 | 502.2 |
| 130° | 506.8 | 508.8 | 510.8 | 512.8 | 514.8 | 516.4 | 517.8 | 519.1 | 520.5 | 521.9 | 523.2 |
| 132.5° | 529.1 | 530.8 | 532.4 | 534.1 | 535.8 | 537.3 | 538.6 | 540.0 | 541.4 | 542.7 | 543.8 |
| 135° | 557.9 | 559.8 | 561.8 | 563.8 | 565.8 | 567.4 | 568.5 | 569.6 | 570.7 | 571.8 | 573.0 |
| 137.5° | 587.1 | 588.4 | 589.9 | 591.2 | 592.6 | 593.9 | 595.2 | 596.4 | 597.7 | 599.0 | 600.2 |
| 140° | 606.2 | 607.1 | 608.1 | 609.1 | 610.1 | 611.2 | 612.6 | 613.9 | 615.3 | 616.7 | 617.8 |
| 142.5° | 622.1 | 623.0 | 623.9 | 624.8 | 625.7 | 626.9 | 628.4 | 630.0 | 631.5 | 633.1 | 634.1 |
| 145° | 647.2 | 647.1 | 647.0 | 646.8 | 646.7 | 647.7 | 649.7 | 651.9 | 653.9 | 656.1 | 657.0 |
| 147.5° | 669.0 | 668.6 | 668.1 | 667.7 | 667.2 | 668.0 | 670.0 | 672.1 | 674.1 | 676.2 | 676.9 |
| 150° | 683.3 | 682.4 | 681.5 | 680.6 | 679.8 | 680.3 | 682.3 | 684.3 | 686.3 | 688.2 | 689.0 |
| 152.5° | 695.2 | 694.3 | 693.3 | 692.3 | 691.3 | 691.8 | 693.7 | 695.5 | 697.4 | 699.3 | 700.1 |
| 155° | 712.6 | 711.5 | 710.4 | 709.3 | 708.2 | 708.4 | 709.9 | 711.3 | 712.8 | 714.3 | 715.0 |
| 157.5° | 726.3 | 725.3 | 724.4 | 723.4 | 722.5 | 722.5 | 723.6 | 724.6 | 725.6 | 726.7 | 727.5 |
| 160° | 734.3 | 733.5 | 732.8 | 732.1 | 731.3 | 731.3 | 732.1 | 732.8 | 733.5 | 734.3 | 735.0 |
| 162.5° | 741.3 | 740.6 | 739.9 | 739.1 | 738.4 | 738.3 | 738.9 | 739.7 | 740.3 | 740.9 | 741.7 |
| 165° | 750.9 | 750.1 | 749.4 | 748.7 | 747.9 | 747.7 | 748.1 | 748.5 | 748.8 | 749.2 | 750.1 |
| 167.5° | 758.0 | 757.2 | 756.5 | 755.7 | 755.0 | 754.9 | 755.2 | 755.5 | 755.9 | 756.2 | 757.1 |
| 170° | 762.0 | 761.2 | 760.5 | 759.8 | 759.0 | 758.8 | 759.0 | 759.3 | 759.5 | 759.8 | 760.7 |
| 172.5° | 764.6 | 763.9 | 763.2 | 762.4 | 761.7 | 761.4 | 761.7 | 761.9 | 762.2 | 762.4 | 763.3 |
| 175° | 768.1 | 767.2 | 766.4 | 765.5 | 764.6 | 764.3 | 764.5 | 764.9 | 765.1 | 765.3 | 766.2 |
| 177.5° | 768.7 | 767.9 | 767.2 | 766.6 | 765.9 | 765.6 | 765.6 | 765.8 | 765.9 | 766.0 | 766.7 |
| 180° | 766.4 | 766.4 | 766.4 | 766.4 | 766.4 | 766.4 | 766.4 | 766.4 | 766.4 | 766.4 | 766.4 |



TEST NUMBER: P331505-927

CATALOG NUMBER: S122DIW-S485D710U927-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 615.3 | 615.3 | 615.3 | 615.3 | 615.3 | 615.3 | 615.3 | 615.3 |
| 2.5° | 612.7 | 613.7 | 614.7 | 615.2 | 615.0 | 614.7 | 614.6 | 614.3 |
| 5° | 608.6 | 609.6 | 610.6 | 611.0 | 610.8 | 610.5 | 610.2 | 610.0 |
| 7.5° | 601.7 | 602.7 | 603.8 | 604.1 | 603.9 | 603.6 | 603.2 | 603.0 |
| 10° | 595.5 | 596.6 | 597.6 | 597.9 | 597.5 | 597.1 | 596.8 | 596.4 |
| 12.5° | 588.3 | 589.0 | 589.7 | 589.9 | 589.6 | 589.4 | 589.1 | 588.7 |
| 15° | 575.5 | 576.1 | 576.6 | 576.5 | 575.8 | 575.2 | 574.6 | 573.9 |
| 17.5° | 560.4 | 561.0 | 561.7 | 561.6 | 560.9 | 560.4 | 559.8 | 559.1 |
| 20° | 548.7 | 549.1 | 549.5 | 549.4 | 548.8 | 548.3 | 547.8 | 547.2 |
| 22.5° | 536.1 | 536.2 | 536.3 | 536.2 | 535.9 | 535.6 | 535.3 | 535.0 |
| 25° | 515.9 | 516.1 | 516.3 | 516.3 | 516.1 | 515.9 | 515.6 | 515.3 |
| 27.5° | 495.8 | 495.4 | 495.0 | 494.6 | 493.9 | 493.3 | 492.7 | 492.0 |
| 30° | 480.2 | 479.8 | 479.4 | 479.0 | 478.4 | 477.9 | 477.4 | 476.8 |
| 32.5° | 464.9 | 464.2 | 463.5 | 462.9 | 462.3 | 461.8 | 461.3 | 460.7 |
| 35° | 440.4 | 439.6 | 438.8 | 438.1 | 437.4 | 436.7 | 436.1 | 435.5 |
| 37.5° | 415.7 | 414.8 | 413.8 | 413.0 | 412.3 | 411.7 | 411.1 | 410.5 |
| 40° | 398.8 | 397.6 | 396.4 | 395.5 | 395.0 | 394.5 | 394.0 | 393.4 |
| 42.5° | 382.0 | 380.7 | 379.4 | 378.4 | 377.6 | 376.9 | 376.2 | 375.4 |
| 45° | 356.2 | 354.8 | 353.3 | 352.4 | 351.8 | 351.3 | 350.8 | 350.2 |
| 47.5° | 329.5 | 327.9 | 326.4 | 325.3 | 324.5 | 323.8 | 323.0 | 322.2 |
| 50° | 312.3 | 310.4 | 308.6 | 307.3 | 306.7 | 306.0 | 305.3 | 304.7 |
| 52.5° | 294.5 | 292.9 | 291.4 | 290.2 | 289.3 | 288.4 | 287.6 | 286.7 |
| 55° | 267.8 | 266.3 | 264.7 | 263.6 | 262.8 | 262.2 | 261.6 | 260.9 |
| 57.5° | 240.2 | 238.6 | 237.1 | 236.1 | 235.5 | 235.0 | 234.6 | 234.0 |
| 60° | 221.9 | 220.5 | 219.0 | 218.1 | 217.7 | 217.3 | 216.9 | 216.5 |
| 62.5° | 204.6 | 203.3 | 201.9 | 201.1 | 200.5 | 200.0 | 199.6 | 199.0 |
| 65° | 178.1 | 176.9 | 175.7 | 174.8 | 174.1 | 173.5 | 172.9 | 172.1 |
| 67.5° | 151.9 | 150.9 | 150.0 | 149.3 | 148.8 | 148.2 | 147.7 | 147.2 |
| 70° | 134.8 | 133.9 | 133.0 | 132.3 | 131.7 | 131.2 | 130.7 | 130.2 |
| 72.5° | 118.7 | 117.8 | 116.9 | 116.2 | 115.8 | 115.3 | 114.9 | 114.5 |
| 75° | 93.6 | 92.9 | 92.1 | 91.8 | 92.1 | 92.4 | 92.6 | 92.9 |
| 77.5° | 71.3 | 70.9 | 70.5 | 70.1 | 69.7 | 69.4 | 69.0 | 68.6 |
| 80° | 56.6 | 56.2 | 55.8 | 55.5 | 55.2 | 55.0 | 54.7 | 54.4 |
| 82.5° | 42.2 | 41.7 | 41.2 | 40.9 | 40.9 | 40.8 | 40.7 | 40.7 |
| 85° | 22.3 | 21.9 | 21.5 | 21.2 | 21.1 | 21.0 | 20.8 | 20.7 |
| 87.5° | 8.5 | 8.2 | 8.1 | 7.9 | 7.9 | 7.8 | 7.8 | 7.8 |
| 90° | 12.4 | 12.9 | 13.5 | 14.0 | 14.3 | 14.5 | 14.7 | 15.0 |
| 92.5° | 13.5 | 13.9 | 14.2 | 14.4 | 14.5 | 14.7 | 14.8 | 15.0 |
| 95° | 22.9 | 23.4 | 24.1 | 24.3 | 24.2 | 24.1 | 24.0 | 23.8 |
| 97.5° | 29.9 | 30.4 | 30.9 | 31.2 | 31.4 | 31.5 | 31.7 | 31.8 |
| 100° | 33.6 | 34.5 | 35.6 | 36.2 | 36.4 | 36.7 | 36.9 | 37.2 |
| 102.5° | 35.1 | 36.4 | 37.6 | 38.4 | 38.8 | 39.1 | 39.5 | 39.8 |
| 105° | 36.5 | 37.9 | 39.2 | 40.2 | 40.6 | 41.2 | 41.7 | 42.1 |
| 107.5° | 44.6 | 43.3 | 41.8 | 41.4 | 41.9 | 42.4 | 42.9 | 43.3 |
| 110° | 72.4 | 60.0 | 47.8 | 41.8 | 42.3 | 42.9 | 43.3 | 43.8 |



TEST NUMBER: P331505-927

CATALOG NUMBER: S122DIW-S485D710U927-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 154.9 | 110.0 | 65.0 | 42.7 | 43.1 | 43.5 | 43.9 | 44.3 |
| 115° | 228.1 | 171.0 | 113.9 | 81.0 | 72.1 | 63.2 | 54.3 | 45.5 |
| 117.5° | 351.4 | 337.5 | 323.8 | 302.3 | 273.1 | 244.0 | 214.8 | 185.7 |
| 120° | 409.5 | 410.9 | 412.4 | 404.8 | 388.2 | 371.5 | 354.9 | 338.3 |
| 122.5° | 434.4 | 435.3 | 436.3 | 435.1 | 431.8 | 428.6 | 425.4 | 422.2 |
| 125° | 470.3 | 471.2 | 472.1 | 472.7 | 473.0 | 473.4 | 473.8 | 474.1 |
| 127.5° | 503.5 | 504.8 | 506.0 | 506.7 | 506.8 | 506.8 | 506.9 | 507.0 |
| 130° | 524.6 | 525.9 | 527.3 | 527.9 | 527.8 | 527.7 | 527.5 | 527.4 |
| 132.5° | 545.0 | 546.2 | 547.3 | 547.9 | 547.7 | 547.6 | 547.5 | 547.4 |
| 135° | 574.3 | 575.4 | 576.7 | 577.2 | 576.9 | 576.7 | 576.5 | 576.2 |
| 137.5° | 601.3 | 602.5 | 603.8 | 604.2 | 603.7 | 603.3 | 602.9 | 602.5 |
| 140° | 618.9 | 620.0 | 621.2 | 621.4 | 620.8 | 620.1 | 619.5 | 618.9 |
| 142.5° | 635.1 | 636.1 | 637.2 | 637.3 | 636.8 | 636.1 | 635.5 | 634.9 |
| 145° | 657.7 | 658.6 | 659.5 | 659.7 | 659.0 | 658.4 | 657.7 | 657.2 |
| 147.5° | 677.6 | 678.2 | 678.8 | 678.9 | 678.3 | 677.9 | 677.3 | 676.8 |
| 150° | 689.7 | 690.5 | 691.2 | 691.3 | 690.6 | 690.0 | 689.4 | 688.8 |
| 152.5° | 700.8 | 701.6 | 702.3 | 702.3 | 701.4 | 700.6 | 699.8 | 698.9 |
| 155° | 715.7 | 716.5 | 717.2 | 717.1 | 716.1 | 715.2 | 714.2 | 713.2 |
| 157.5° | 728.4 | 729.2 | 730.1 | 730.0 | 729.0 | 728.1 | 727.1 | 726.1 |
| 160° | 735.7 | 736.5 | 737.2 | 737.1 | 736.3 | 735.4 | 734.6 | 733.7 |
| 162.5° | 742.6 | 743.4 | 744.3 | 744.2 | 743.1 | 742.0 | 740.9 | 739.9 |
| 165° | 751.0 | 751.8 | 752.7 | 752.7 | 751.8 | 751.0 | 750.1 | 749.2 |
| 167.5° | 758.0 | 758.8 | 759.6 | 759.5 | 758.4 | 757.3 | 756.2 | 755.1 |
| 170° | 761.5 | 762.3 | 763.2 | 763.1 | 762.0 | 760.9 | 759.8 | 758.7 |
| 172.5° | 764.1 | 765.0 | 765.9 | 765.7 | 764.6 | 763.5 | 762.4 | 761.3 |
| 175° | 767.1 | 767.9 | 768.7 | 768.6 | 767.3 | 766.1 | 764.9 | 763.7 |
| 177.5° | 767.4 | 768.0 | 768.7 | 768.7 | 767.8 | 766.8 | 766.0 | 765.1 |
| 180° | 766.4 | 766.4 | 766.4 | 766.4 | 766.4 | 766.4 | 766.4 | 766.4 |

(END OF REPORT)