

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: P331564-935

Luminaire Tested: **S122DIW-S865D710U935-4F0-1E-UDD-D1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331564-935
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: S122DIW-S865D710U935-4F0-1E-UDD-D1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 710 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5127.5 lumens
Efficiency: N/A
Efficacy: 95.7 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: General Diffuse

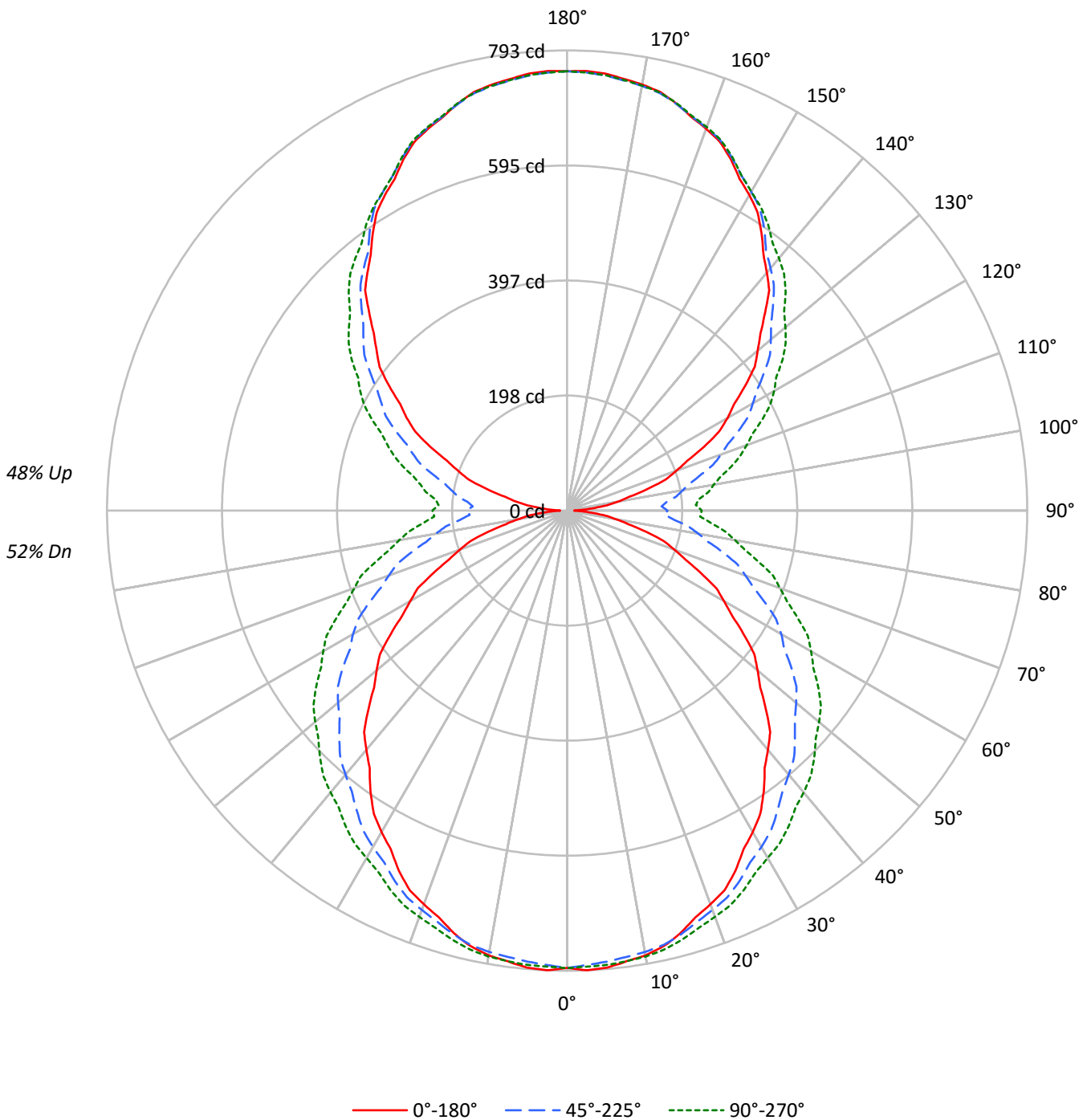
Input Watts (W): 53.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331564-935

CATALOG NUMBER: S122DIW-S865D710U935-4F0-1E-UDD-D1

Luminous Intensity Polar Plot





TEST NUMBER: P331564-935

CATALOG NUMBER: S122DIW-S865D710U935-4F0-1E-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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 108 | 108 | 108 | 108 | 100 | 100 | 100 | 100 | 85 | 85 | 85 | 71 | 71 | 71 | 58 | 58 | 58 | 52 |
| 1 | 97 | 92 | 87 | 83 | 89 | 85 | 81 | 77 | 72 | 69 | 66 | 60 | 58 | 56 | 49 | 47 | 46 | 41 |
| 2 | 87 | 79 | 72 | 67 | 80 | 73 | 67 | 62 | 62 | 57 | 54 | 52 | 48 | 45 | 42 | 40 | 37 | 33 |
| 3 | 79 | 69 | 61 | 55 | 73 | 64 | 57 | 51 | 54 | 49 | 44 | 45 | 41 | 38 | 37 | 34 | 31 | 27 |
| 4 | 72 | 61 | 52 | 46 | 66 | 56 | 49 | 43 | 48 | 42 | 37 | 40 | 35 | 32 | 33 | 29 | 26 | 23 |
| 5 | 66 | 54 | 45 | 39 | 61 | 50 | 42 | 37 | 43 | 37 | 32 | 36 | 31 | 27 | 29 | 26 | 23 | 20 |
| 6 | 61 | 48 | 40 | 34 | 56 | 45 | 37 | 32 | 38 | 32 | 28 | 32 | 27 | 24 | 26 | 23 | 20 | 17 |
| 7 | 56 | 43 | 35 | 29 | 52 | 40 | 33 | 28 | 35 | 29 | 24 | 29 | 24 | 21 | 24 | 20 | 18 | 15 |
| 8 | 52 | 39 | 31 | 26 | 48 | 37 | 29 | 24 | 31 | 26 | 21 | 27 | 22 | 18 | 22 | 18 | 16 | 13 |
| 9 | 49 | 36 | 28 | 23 | 45 | 33 | 26 | 22 | 29 | 23 | 19 | 24 | 20 | 17 | 20 | 17 | 14 | 12 |
| 10 | 45 | 33 | 25 | 20 | 42 | 31 | 24 | 19 | 26 | 21 | 17 | 23 | 18 | 15 | 19 | 15 | 13 | 11 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 12728 | 12728 | 12728 |
| 5° | 12790 | 12252 | 12205 |
| 10° | 12710 | 11890 | 11756 |
| 15° | 12535 | 11506 | 11284 |
| 20° | 12312 | 11097 | 10828 |
| 25° | 12095 | 10701 | 10415 |
| 30° | 11786 | 10293 | 10000 |
| 35° | 11474 | 9900 | 9708 |
| 40° | 11147 | 9566 | 9415 |
| 45° | 10835 | 9267 | 9165 |
| 50° | 10500 | 8995 | 8920 |
| 55° | 10150 | 8703 | 8668 |
| 60° | 9721 | 8403 | 8403 |
| 65° | 9278 | 8047 | 8088 |
| 70° | 8774 | 7666 | 7748 |
| 75° | 8132 | 7293 | 7435 |
| 80° | 7126 | 6912 | 7117 |
| 85° | 6164 | 6582 | 6872 |



TEST NUMBER: P331564-935

CATALOG NUMBER: S122DIW-S865D710U935-4F0-1E-UDD-D1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 74.7 | 1.5 |
| 10°-20° | 214.2 | 4.2 |
| 20°-30° | 324.6 | 6.3 |
| 30°-40° | 395.4 | 7.7 |
| 40°-50° | 425.3 | 8.3 |
| 50°-60° | 413.1 | 8.1 |
| 60°-70° | 360.7 | 7.0 |
| 70°-80° | 277.7 | 5.4 |
| 80°-90° | 189.4 | 3.7 |
| 90°-100° | 176.3 | 3.4 |
| 100°-110° | 242.7 | 4.7 |
| 110°-120° | 316.6 | 6.2 |
| 120°-130° | 369.5 | 7.2 |
| 130°-140° | 390.4 | 7.6 |
| 140°-150° | 371.1 | 7.2 |
| 150°-160° | 309.2 | 6.0 |
| 160°-170° | 205.1 | 4.0 |
| 170°-180° | 71.7 | 1.4 |
| 0°-30° | 613.5 | 12.0 |
| 0°-40° | 1008.9 | 19.7 |
| 0°-60° | 1847.2 | 36.0 |
| 0°-90° | 2674.9 | 52.2 |
| 90°-120° | 735.7 | 14.3 |
| 90°-150° | 1866.7 | 36.4 |
| 90°-180° | 2453.0 | 47.8 |
| 0°-180° | 5127.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 788 | 788 | 788 | 788 | 788 | |
| 5° | 791 | 787 | 780 | 787 | 786 | 75 |
| 15° | 754 | 756 | 756 | 766 | 766 | 212 |
| 25° | 686 | 694 | 704 | 717 | 721 | 315 |
| 35° | 591 | 610 | 632 | 656 | 665 | 369 |
| 45° | 484 | 516 | 555 | 589 | 602 | 374 |
| 55° | 371 | 413 | 472 | 512 | 528 | 332 |
| 65° | 254 | 310 | 377 | 422 | 439 | 252 |
| 75° | 140 | 205 | 278 | 325 | 342 | 149 |
| 85° | 41 | 112 | 185 | 231 | 249 | 44 |
| 90° | 12 | 87 | 173 | 216 | 232 | 9 |
| 95° | 42 | 103 | 172 | 214 | 228 | 45 |
| 105° | 143 | 180 | 239 | 278 | 293 | 152 |
| 115° | 260 | 278 | 327 | 359 | 371 | 257 |
| 125° | 374 | 382 | 414 | 442 | 453 | 335 |
| 135° | 482 | 490 | 502 | 524 | 532 | 373 |
| 145° | 584 | 588 | 592 | 600 | 603 | 365 |
| 155° | 668 | 670 | 672 | 674 | 673 | 307 |
| 165° | 726 | 726 | 726 | 730 | 727 | 205 |
| 175° | 756 | 754 | 753 | 757 | 753 | 72 |
| 180° | 757 | 757 | 757 | 757 | 757 | |



TEST NUMBER: P331564-935

CATALOG NUMBER: S122DIW-S865D710U935-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 788.3 | 788.3 | 788.3 | 788.3 | 788.3 | 788.3 | 788.3 | 788.3 | 788.3 | 788.3 | 788.3 |
| 2.5° | 792.9 | 792.3 | 791.7 | 791.1 | 790.5 | 789.5 | 788.0 | 786.6 | 785.1 | 783.8 | 784.8 |
| 5° | 790.6 | 789.9 | 789.1 | 788.3 | 787.6 | 786.4 | 784.9 | 783.3 | 781.9 | 780.3 | 781.9 |
| 7.5° | 783.5 | 783.0 | 782.5 | 782.0 | 781.5 | 780.7 | 779.5 | 778.3 | 777.1 | 776.0 | 777.8 |
| 10° | 778.1 | 777.6 | 777.1 | 776.5 | 776.0 | 775.4 | 774.6 | 773.9 | 773.1 | 772.3 | 774.4 |
| 12.5° | 768.9 | 769.0 | 769.1 | 769.2 | 769.3 | 769.0 | 768.5 | 767.9 | 767.4 | 766.8 | 768.9 |
| 15° | 754.1 | 754.6 | 755.1 | 755.6 | 756.0 | 756.3 | 756.3 | 756.3 | 756.3 | 756.3 | 758.6 |
| 17.5° | 734.9 | 735.9 | 737.0 | 738.0 | 739.1 | 740.0 | 740.9 | 741.7 | 742.5 | 743.3 | 745.7 |
| 20° | 722.0 | 723.3 | 724.6 | 725.9 | 727.1 | 728.3 | 729.3 | 730.3 | 731.3 | 732.4 | 735.1 |
| 22.5° | 708.3 | 709.8 | 711.3 | 712.7 | 714.2 | 715.7 | 717.1 | 718.5 | 720.0 | 721.3 | 724.2 |
| 25° | 685.5 | 687.3 | 689.1 | 690.9 | 692.6 | 694.7 | 696.9 | 699.2 | 701.5 | 703.8 | 706.8 |
| 27.5° | 658.1 | 661.0 | 663.8 | 666.8 | 669.7 | 672.4 | 675.1 | 677.9 | 680.5 | 683.2 | 687.1 |
| 30° | 639.8 | 643.1 | 646.4 | 649.7 | 653.0 | 656.3 | 659.6 | 662.9 | 666.2 | 669.5 | 673.6 |
| 32.5° | 619.7 | 623.4 | 627.1 | 630.9 | 634.6 | 638.3 | 642.2 | 646.2 | 650.1 | 653.9 | 658.7 |
| 35° | 590.6 | 595.0 | 599.3 | 603.6 | 608.0 | 612.5 | 617.3 | 622.2 | 627.0 | 631.8 | 637.4 |
| 37.5° | 559.1 | 564.1 | 569.1 | 574.0 | 579.0 | 584.6 | 590.9 | 597.2 | 603.4 | 609.7 | 615.9 |
| 40° | 538.1 | 543.7 | 549.3 | 554.9 | 560.4 | 566.7 | 573.5 | 580.4 | 587.3 | 594.1 | 600.7 |
| 42.5° | 518.0 | 523.6 | 529.2 | 534.8 | 540.4 | 547.1 | 554.9 | 562.8 | 570.7 | 578.6 | 585.7 |
| 45° | 484.4 | 491.3 | 498.1 | 505.0 | 511.9 | 519.7 | 528.6 | 537.5 | 546.4 | 555.3 | 563.1 |
| 47.5° | 451.3 | 458.7 | 466.2 | 473.7 | 481.1 | 490.1 | 500.5 | 510.9 | 521.3 | 531.8 | 539.9 |
| 50° | 428.4 | 436.3 | 444.2 | 452.0 | 459.9 | 469.6 | 481.0 | 492.4 | 503.9 | 515.3 | 523.9 |
| 52.5° | 406.5 | 414.7 | 423.1 | 431.4 | 439.6 | 449.8 | 461.8 | 473.8 | 485.9 | 497.9 | 506.7 |
| 55° | 371.3 | 380.5 | 389.6 | 398.7 | 407.9 | 419.0 | 432.2 | 445.5 | 458.7 | 471.8 | 481.0 |
| 57.5° | 336.6 | 346.9 | 357.2 | 367.5 | 377.8 | 389.7 | 403.1 | 416.6 | 430.1 | 443.5 | 453.4 |
| 60° | 311.9 | 322.8 | 333.7 | 344.7 | 355.6 | 368.2 | 382.7 | 397.2 | 411.6 | 426.2 | 435.8 |
| 62.5° | 290.0 | 301.3 | 312.6 | 323.9 | 335.3 | 348.2 | 362.7 | 377.1 | 391.6 | 406.0 | 416.3 |
| 65° | 253.7 | 266.0 | 278.5 | 290.9 | 303.4 | 317.1 | 332.1 | 347.1 | 362.1 | 377.0 | 387.4 |
| 67.5° | 220.2 | 233.2 | 246.2 | 259.2 | 272.2 | 286.5 | 301.8 | 317.1 | 332.4 | 347.8 | 358.3 |
| 70° | 196.5 | 209.7 | 222.9 | 236.1 | 249.3 | 263.8 | 279.6 | 295.2 | 311.0 | 326.7 | 337.7 |
| 72.5° | 174.6 | 188.2 | 201.8 | 215.4 | 229.0 | 243.7 | 259.8 | 275.7 | 291.6 | 307.5 | 318.3 |
| 75° | 140.5 | 154.7 | 168.9 | 183.2 | 197.4 | 212.7 | 228.9 | 245.1 | 261.4 | 277.6 | 288.5 |
| 77.5° | 107.6 | 122.5 | 137.4 | 152.2 | 167.1 | 182.8 | 199.3 | 215.9 | 232.3 | 248.8 | 259.7 |
| 80° | 85.7 | 101.2 | 116.7 | 132.2 | 147.7 | 163.6 | 180.1 | 196.7 | 213.1 | 229.6 | 240.3 |
| 82.5° | 67.4 | 82.7 | 98.0 | 113.2 | 128.5 | 144.6 | 161.3 | 178.0 | 194.7 | 211.4 | 222.1 |
| 85° | 41.2 | 56.9 | 72.6 | 88.3 | 104.1 | 120.1 | 136.3 | 152.6 | 168.8 | 185.1 | 195.8 |
| 87.5° | 22.6 | 38.0 | 53.5 | 69.0 | 84.4 | 100.6 | 117.4 | 134.3 | 151.2 | 168.1 | 178.4 |
| 90° | 12.1 | 28.5 | 44.9 | 61.4 | 77.7 | 95.7 | 115.0 | 134.4 | 153.8 | 173.1 | 183.0 |
| 92.5° | 21.9 | 36.9 | 51.8 | 66.7 | 81.7 | 97.4 | 113.7 | 130.2 | 146.5 | 162.9 | 172.9 |
| 95° | 42.4 | 55.7 | 69.1 | 82.4 | 95.7 | 110.2 | 125.7 | 141.2 | 156.8 | 172.3 | 181.9 |
| 97.5° | 68.7 | 80.6 | 92.4 | 104.3 | 116.1 | 129.7 | 144.8 | 160.0 | 175.1 | 190.3 | 199.7 |
| 100° | 89.1 | 99.7 | 110.2 | 120.7 | 131.2 | 143.9 | 158.5 | 173.1 | 187.8 | 202.4 | 211.8 |
| 102.5° | 109.7 | 119.2 | 128.6 | 138.2 | 147.7 | 159.5 | 173.9 | 188.3 | 202.6 | 217.0 | 226.3 |
| 105° | 143.1 | 150.8 | 158.7 | 166.4 | 174.3 | 184.9 | 198.4 | 211.8 | 225.3 | 238.8 | 248.0 |
| 107.5° | 177.9 | 184.3 | 190.9 | 197.4 | 203.9 | 213.5 | 226.2 | 238.8 | 251.4 | 264.1 | 272.7 |
| 110° | 199.4 | 205.3 | 211.3 | 217.2 | 223.2 | 232.3 | 244.8 | 257.2 | 269.7 | 282.1 | 290.2 |



TEST NUMBER: P331564-935

CATALOG NUMBER: S122DIW-S865D710U935-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 223.9 | 229.1 | 234.2 | 239.4 | 244.4 | 252.9 | 264.6 | 276.3 | 288.0 | 299.7 | 307.5 |
| 115° | 260.1 | 263.8 | 267.4 | 271.0 | 274.7 | 282.1 | 293.3 | 304.4 | 315.6 | 326.7 | 334.2 |
| 117.5° | 295.1 | 298.0 | 300.9 | 303.9 | 306.9 | 313.2 | 323.0 | 332.8 | 342.5 | 352.3 | 359.5 |
| 120° | 319.1 | 321.2 | 323.4 | 325.5 | 327.6 | 333.2 | 342.2 | 351.3 | 360.3 | 369.3 | 376.4 |
| 122.5° | 341.0 | 342.8 | 344.6 | 346.3 | 348.1 | 353.4 | 362.1 | 370.8 | 379.6 | 388.4 | 394.9 |
| 125° | 374.1 | 375.4 | 376.7 | 378.0 | 379.3 | 383.7 | 391.4 | 399.2 | 406.8 | 414.5 | 420.9 |
| 127.5° | 407.5 | 408.8 | 410.2 | 411.6 | 412.9 | 416.6 | 422.7 | 428.7 | 434.7 | 440.8 | 446.6 |
| 130° | 428.4 | 430.1 | 431.6 | 433.2 | 434.8 | 438.2 | 443.2 | 448.2 | 453.2 | 458.3 | 464.2 |
| 132.5° | 451.9 | 453.2 | 454.4 | 455.7 | 456.9 | 459.7 | 463.8 | 468.0 | 472.2 | 476.3 | 481.6 |
| 135° | 482.2 | 483.8 | 485.3 | 486.9 | 488.4 | 490.7 | 493.5 | 496.3 | 499.1 | 502.0 | 507.1 |
| 137.5° | 515.3 | 516.6 | 517.8 | 519.0 | 520.2 | 521.6 | 523.1 | 524.6 | 526.1 | 527.5 | 532.1 |
| 140° | 535.3 | 536.3 | 537.4 | 538.3 | 539.3 | 540.4 | 541.7 | 542.9 | 544.2 | 545.4 | 549.4 |
| 142.5° | 555.7 | 556.7 | 557.8 | 558.8 | 559.8 | 560.6 | 561.2 | 561.8 | 562.4 | 562.9 | 566.3 |
| 145° | 583.9 | 585.0 | 585.9 | 586.9 | 588.0 | 588.8 | 589.7 | 590.6 | 591.4 | 592.3 | 593.9 |
| 147.5° | 610.2 | 611.3 | 612.5 | 613.7 | 614.9 | 615.8 | 616.4 | 616.9 | 617.5 | 618.1 | 618.6 |
| 150° | 628.0 | 628.9 | 629.7 | 630.6 | 631.5 | 632.1 | 632.7 | 633.3 | 633.9 | 634.5 | 634.9 |
| 152.5° | 643.9 | 644.7 | 645.6 | 646.4 | 647.3 | 648.1 | 648.8 | 649.5 | 650.1 | 650.8 | 651.3 |
| 155° | 667.6 | 668.0 | 668.5 | 668.9 | 669.3 | 669.8 | 670.2 | 670.6 | 671.1 | 671.5 | 672.2 |
| 157.5° | 687.9 | 688.3 | 688.5 | 688.8 | 689.1 | 689.4 | 689.7 | 689.9 | 690.2 | 690.4 | 691.4 |
| 160° | 700.3 | 700.5 | 700.8 | 701.1 | 701.4 | 701.6 | 701.7 | 701.9 | 702.0 | 702.1 | 703.0 |
| 162.5° | 711.4 | 711.5 | 711.6 | 711.6 | 711.7 | 711.8 | 712.0 | 712.1 | 712.2 | 712.4 | 713.3 |
| 165° | 726.4 | 726.3 | 726.2 | 726.0 | 725.9 | 725.8 | 725.8 | 725.8 | 725.8 | 725.8 | 726.8 |
| 167.5° | 739.0 | 738.6 | 738.1 | 737.7 | 737.3 | 737.0 | 737.0 | 736.9 | 736.9 | 736.9 | 737.9 |
| 170° | 745.6 | 745.2 | 744.8 | 744.3 | 743.9 | 743.6 | 743.5 | 743.3 | 743.2 | 743.0 | 744.1 |
| 172.5° | 750.2 | 749.8 | 749.3 | 748.9 | 748.5 | 748.2 | 748.0 | 748.0 | 747.8 | 747.6 | 748.6 |
| 175° | 755.8 | 755.4 | 755.0 | 754.6 | 754.1 | 753.8 | 753.5 | 753.2 | 752.9 | 752.6 | 753.6 |
| 177.5° | 758.1 | 757.8 | 757.4 | 757.1 | 756.7 | 756.5 | 756.2 | 756.0 | 755.8 | 755.5 | 756.2 |
| 180° | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 |



TEST NUMBER: P331564-935

CATALOG NUMBER: S122DIW-S865D710U935-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 788.3 | 788.3 | 788.3 | 788.3 | 788.3 | 788.3 | 788.3 | 788.3 |
| 2.5° | 785.7 | 786.8 | 787.8 | 788.2 | 787.7 | 787.3 | 786.9 | 786.5 |
| 5° | 783.3 | 784.9 | 786.4 | 787.0 | 786.8 | 786.5 | 786.3 | 786.0 |
| 7.5° | 779.6 | 781.4 | 783.3 | 784.1 | 783.9 | 783.6 | 783.3 | 783.1 |
| 10° | 776.4 | 778.4 | 780.5 | 781.4 | 781.1 | 780.8 | 780.6 | 780.3 |
| 12.5° | 770.9 | 772.9 | 775.0 | 775.8 | 775.6 | 775.3 | 775.1 | 774.8 |
| 15° | 760.9 | 763.2 | 765.5 | 766.5 | 766.2 | 765.9 | 765.7 | 765.5 |
| 17.5° | 748.1 | 750.4 | 752.9 | 754.1 | 754.1 | 754.1 | 754.1 | 754.1 |
| 20° | 738.0 | 740.7 | 743.5 | 744.9 | 744.9 | 744.9 | 744.9 | 744.9 |
| 22.5° | 726.9 | 729.8 | 732.5 | 734.2 | 734.5 | 734.9 | 735.4 | 735.8 |
| 25° | 709.9 | 712.9 | 716.0 | 717.9 | 718.6 | 719.4 | 720.1 | 720.9 |
| 27.5° | 691.0 | 694.8 | 698.6 | 700.9 | 701.5 | 702.0 | 702.6 | 703.1 |
| 30° | 677.6 | 681.7 | 685.8 | 688.2 | 688.9 | 689.7 | 690.4 | 691.2 |
| 32.5° | 663.3 | 668.0 | 672.6 | 675.7 | 677.0 | 678.4 | 679.8 | 681.1 |
| 35° | 643.0 | 648.6 | 654.2 | 657.8 | 659.6 | 661.4 | 663.1 | 665.0 |
| 37.5° | 622.0 | 628.2 | 634.4 | 638.4 | 640.3 | 642.2 | 644.1 | 646.0 |
| 40° | 607.3 | 613.9 | 620.5 | 624.9 | 627.2 | 629.5 | 631.8 | 634.1 |
| 42.5° | 593.0 | 600.2 | 607.4 | 612.2 | 614.4 | 616.7 | 619.0 | 621.3 |
| 45° | 571.0 | 578.9 | 586.8 | 591.9 | 594.5 | 597.0 | 599.6 | 602.1 |
| 47.5° | 548.2 | 556.4 | 564.6 | 570.2 | 572.9 | 575.8 | 578.5 | 581.3 |
| 50° | 532.5 | 541.1 | 549.8 | 555.5 | 558.3 | 561.1 | 563.9 | 566.7 |
| 52.5° | 515.6 | 524.4 | 533.2 | 539.2 | 542.2 | 545.2 | 548.1 | 551.1 |
| 55° | 490.2 | 499.3 | 508.4 | 514.6 | 517.9 | 521.2 | 524.5 | 527.8 |
| 57.5° | 463.2 | 473.0 | 482.9 | 489.6 | 492.8 | 496.2 | 499.6 | 502.9 |
| 60° | 445.5 | 455.1 | 464.8 | 471.3 | 474.9 | 478.5 | 482.0 | 485.6 |
| 62.5° | 426.5 | 436.8 | 447.0 | 453.9 | 457.2 | 460.5 | 463.9 | 467.3 |
| 65° | 397.9 | 408.3 | 418.7 | 425.5 | 428.8 | 432.1 | 435.4 | 438.7 |
| 67.5° | 368.8 | 379.3 | 389.9 | 396.8 | 400.3 | 403.7 | 407.2 | 410.6 |
| 70° | 348.6 | 359.5 | 370.4 | 377.4 | 380.5 | 383.5 | 386.6 | 389.6 |
| 72.5° | 329.0 | 339.7 | 350.4 | 357.6 | 361.3 | 364.9 | 368.6 | 372.2 |
| 75° | 299.5 | 310.4 | 321.3 | 328.4 | 331.7 | 335.0 | 338.3 | 341.6 |
| 77.5° | 270.6 | 281.5 | 292.3 | 299.5 | 303.1 | 306.6 | 310.2 | 313.7 |
| 80° | 251.0 | 261.7 | 272.3 | 279.4 | 282.9 | 286.5 | 290.1 | 293.6 |
| 82.5° | 232.7 | 243.3 | 254.0 | 261.1 | 264.4 | 267.7 | 271.0 | 274.4 |
| 85° | 206.4 | 217.1 | 227.7 | 234.9 | 238.4 | 241.9 | 245.5 | 249.1 |
| 87.5° | 188.6 | 199.0 | 209.3 | 216.1 | 219.4 | 222.7 | 225.9 | 229.2 |
| 90° | 193.0 | 202.8 | 212.7 | 219.2 | 222.4 | 225.6 | 228.8 | 232.0 |
| 92.5° | 183.0 | 193.0 | 202.9 | 209.5 | 212.6 | 215.6 | 218.7 | 221.8 |
| 95° | 191.6 | 201.2 | 210.9 | 217.1 | 219.8 | 222.6 | 225.3 | 228.2 |
| 97.5° | 209.1 | 218.5 | 227.9 | 234.1 | 237.0 | 240.0 | 243.0 | 245.9 |
| 100° | 221.2 | 230.6 | 240.0 | 246.0 | 248.7 | 251.3 | 254.0 | 256.6 |
| 102.5° | 235.6 | 244.9 | 254.2 | 260.2 | 262.9 | 265.4 | 268.1 | 270.8 |
| 105° | 257.2 | 266.3 | 275.5 | 281.5 | 284.3 | 287.1 | 289.8 | 292.7 |
| 107.5° | 281.4 | 290.0 | 298.7 | 304.0 | 306.2 | 308.3 | 310.5 | 312.6 |
| 110° | 298.3 | 306.5 | 314.6 | 319.9 | 322.2 | 324.6 | 326.9 | 329.3 |



TEST NUMBER: P331564-935

CATALOG NUMBER: S122DIW-S865D710U935-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 315.3 | 323.0 | 330.9 | 336.0 | 338.5 | 341.0 | 343.5 | 345.9 |
| 115° | 341.6 | 349.0 | 356.5 | 361.4 | 363.9 | 366.2 | 368.6 | 370.9 |
| 117.5° | 366.7 | 373.8 | 381.0 | 385.6 | 387.9 | 390.0 | 392.2 | 394.3 |
| 120° | 383.6 | 390.6 | 397.8 | 402.5 | 404.8 | 407.3 | 409.6 | 412.0 |
| 122.5° | 401.5 | 408.0 | 414.7 | 419.0 | 421.0 | 423.1 | 425.2 | 427.2 |
| 125° | 427.4 | 433.8 | 440.2 | 444.5 | 446.7 | 448.8 | 451.0 | 453.1 |
| 127.5° | 452.4 | 458.1 | 463.9 | 467.7 | 469.5 | 471.3 | 473.0 | 474.8 |
| 130° | 469.9 | 475.7 | 481.6 | 485.2 | 486.6 | 488.1 | 489.6 | 491.0 |
| 132.5° | 486.9 | 492.1 | 497.4 | 500.8 | 502.4 | 503.9 | 505.6 | 507.1 |
| 135° | 512.4 | 517.5 | 522.7 | 526.2 | 527.7 | 529.3 | 531.0 | 532.5 |
| 137.5° | 536.7 | 541.2 | 545.8 | 548.6 | 549.8 | 551.0 | 552.1 | 553.3 |
| 140° | 553.5 | 557.6 | 561.6 | 564.1 | 565.1 | 566.0 | 567.0 | 567.9 |
| 142.5° | 569.6 | 573.1 | 576.4 | 578.4 | 579.2 | 580.0 | 580.7 | 581.4 |
| 145° | 595.6 | 597.3 | 598.9 | 600.1 | 600.8 | 601.5 | 602.2 | 603.0 |
| 147.5° | 619.1 | 619.7 | 620.2 | 620.4 | 620.5 | 620.6 | 620.6 | 620.7 |
| 150° | 635.2 | 635.7 | 636.1 | 636.1 | 635.7 | 635.2 | 634.9 | 634.5 |
| 152.5° | 651.9 | 652.4 | 653.0 | 653.0 | 652.4 | 651.9 | 651.3 | 650.8 |
| 155° | 672.9 | 673.6 | 674.3 | 674.5 | 674.1 | 673.6 | 673.2 | 672.8 |
| 157.5° | 692.3 | 693.3 | 694.2 | 694.4 | 693.7 | 693.0 | 692.3 | 691.6 |
| 160° | 703.9 | 704.7 | 705.6 | 705.7 | 705.2 | 704.6 | 704.0 | 703.4 |
| 162.5° | 714.3 | 715.3 | 716.3 | 716.4 | 715.7 | 715.1 | 714.4 | 713.7 |
| 165° | 727.8 | 728.8 | 729.8 | 730.0 | 729.2 | 728.5 | 727.8 | 727.1 |
| 167.5° | 738.9 | 739.9 | 740.9 | 741.0 | 740.3 | 739.5 | 738.8 | 738.0 |
| 170° | 745.0 | 746.1 | 747.0 | 747.1 | 746.2 | 745.4 | 744.5 | 743.6 |
| 172.5° | 749.7 | 750.6 | 751.7 | 751.7 | 750.9 | 750.0 | 749.2 | 748.3 |
| 175° | 754.6 | 755.6 | 756.6 | 756.6 | 755.8 | 755.0 | 754.1 | 753.3 |
| 177.5° | 756.9 | 757.6 | 758.3 | 758.3 | 757.6 | 756.9 | 756.2 | 755.5 |
| 180° | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 | 757.1 |

(END OF REPORT)