

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: P331405-927

Luminaire Tested: **SA2XXDIP-C865D925U927-4F0-1E-UDD-D**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331405-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C865D925U927-4F0-1E-UDD-D
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 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: 5699.8 lumens
Efficiency: N/A
Efficacy: 94.2 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

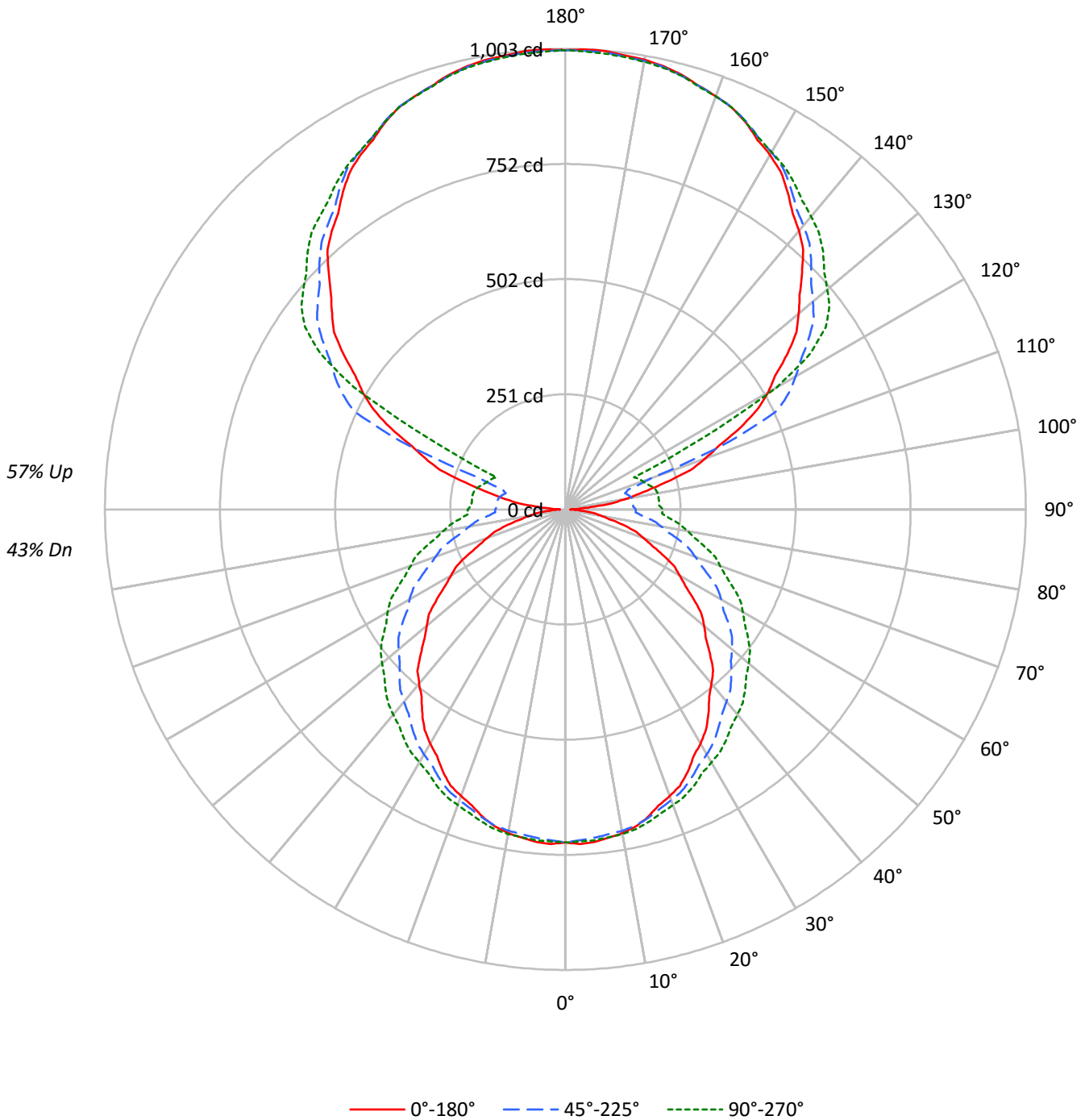
Input Watts (W): 60.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331405-927

CATALOG NUMBER: SA2XXDIP-C865D925U927-4F0-1E-UDD-D

Luminous Intensity Polar Plot





TEST NUMBER: P331405-927

CATALOG NUMBER: SA2XXDIP-C865D925U927-4F0-1E-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 | 106 | 106 | 106 | 106 | 96 | 96 | 96 | 96 | 80 | 80 | 80 | 64 | 64 | 64 | 50 | 50 | 50 | 43 |
| 1 | 95 | 90 | 86 | 82 | 86 | 82 | 79 | 75 | 68 | 65 | 63 | 54 | 52 | 51 | 42 | 41 | 39 | 34 |
| 2 | 86 | 78 | 71 | 66 | 78 | 71 | 65 | 61 | 59 | 54 | 51 | 47 | 44 | 41 | 36 | 34 | 32 | 27 |
| 3 | 78 | 68 | 60 | 54 | 71 | 62 | 55 | 50 | 51 | 46 | 42 | 41 | 37 | 34 | 32 | 29 | 27 | 22 |
| 4 | 71 | 60 | 52 | 45 | 65 | 55 | 48 | 42 | 45 | 40 | 35 | 36 | 32 | 29 | 28 | 25 | 23 | 19 |
| 5 | 65 | 53 | 45 | 39 | 59 | 49 | 41 | 36 | 40 | 35 | 30 | 32 | 28 | 25 | 25 | 22 | 20 | 16 |
| 6 | 60 | 47 | 39 | 33 | 54 | 44 | 36 | 31 | 36 | 30 | 26 | 29 | 25 | 22 | 23 | 20 | 17 | 14 |
| 7 | 55 | 43 | 35 | 29 | 50 | 39 | 32 | 27 | 33 | 27 | 23 | 26 | 22 | 19 | 21 | 17 | 15 | 12 |
| 8 | 51 | 39 | 31 | 25 | 47 | 36 | 29 | 24 | 30 | 24 | 20 | 24 | 20 | 17 | 19 | 16 | 13 | 11 |
| 9 | 48 | 35 | 28 | 22 | 43 | 32 | 26 | 21 | 27 | 22 | 18 | 22 | 18 | 15 | 17 | 14 | 12 | 10 |
| 10 | 44 | 32 | 25 | 20 | 40 | 30 | 23 | 19 | 25 | 20 | 16 | 20 | 16 | 13 | 16 | 13 | 11 | 9 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 11711 | 11711 | 11711 |
| 5° | 11768 | 11274 | 11230 |
| 10° | 11694 | 10940 | 10818 |
| 15° | 11533 | 10587 | 10382 |
| 20° | 11328 | 10209 | 9963 |
| 25° | 11128 | 9845 | 9582 |
| 30° | 10845 | 9471 | 9201 |
| 35° | 10557 | 9109 | 8932 |
| 40° | 10256 | 8801 | 8662 |
| 45° | 9969 | 8526 | 8433 |
| 50° | 9662 | 8276 | 8207 |
| 55° | 9341 | 8008 | 7975 |
| 60° | 8945 | 7730 | 7732 |
| 65° | 8536 | 7405 | 7441 |
| 70° | 8073 | 7053 | 7130 |
| 75° | 7484 | 6710 | 6841 |
| 80° | 6553 | 6361 | 6548 |
| 85° | 5671 | 6056 | 6323 |



TEST NUMBER: P331405-927

CATALOG NUMBER: SA2XXDIP-C865D925U927-4F0-1E-UDD-D

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 68.7 | 1.2 |
| 10°-20° | 197.1 | 3.5 |
| 20°-30° | 298.7 | 5.2 |
| 30°-40° | 363.8 | 6.4 |
| 40°-50° | 391.3 | 6.9 |
| 50°-60° | 380.0 | 6.7 |
| 60°-70° | 331.8 | 5.8 |
| 70°-80° | 255.5 | 4.5 |
| 80°-90° | 173.9 | 3.1 |
| 90°-100° | 151.5 | 2.7 |
| 100°-110° | 208.6 | 3.7 |
| 110°-120° | 383.9 | 6.7 |
| 120°-130° | 571.5 | 10.0 |
| 130°-140° | 587.3 | 10.3 |
| 140°-150° | 535.8 | 9.4 |
| 150°-160° | 428.9 | 7.5 |
| 160°-170° | 276.4 | 4.8 |
| 170°-180° | 95.1 | 1.7 |
| 0°-30° | 564.5 | 9.9 |
| 0°-40° | 928.2 | 16.3 |
| 0°-60° | 1699.6 | 29.8 |
| 0°-90° | 2460.8 | 43.2 |
| 90°-120° | 743.9 | 13.1 |
| 90°-150° | 2438.5 | 42.8 |
| 90°-180° | 3239.0 | 56.8 |
| 0°-180° | 5699.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 725 | 725 | 725 | 725 | 725 | |
| 5° | 727 | 724 | 718 | 724 | 723 | 69 |
| 15° | 694 | 696 | 696 | 705 | 704 | 195 |
| 25° | 631 | 638 | 648 | 660 | 663 | 290 |
| 35° | 543 | 562 | 581 | 604 | 612 | 340 |
| 45° | 446 | 475 | 511 | 542 | 554 | 344 |
| 55° | 342 | 380 | 434 | 471 | 486 | 305 |
| 65° | 233 | 286 | 347 | 388 | 404 | 232 |
| 75° | 129 | 189 | 255 | 299 | 314 | 137 |
| 85° | 38 | 103 | 170 | 213 | 229 | 41 |
| 90° | 11 | 80 | 153 | 197 | 213 | 9 |
| 95° | 56 | 83 | 149 | 191 | 204 | 64 |
| 105° | 225 | 267 | 134 | 178 | 194 | 241 |
| 115° | 420 | 446 | 510 | 221 | 166 | 413 |
| 125° | 590 | 602 | 647 | 679 | 692 | 527 |
| 135° | 729 | 741 | 758 | 786 | 794 | 563 |
| 145° | 844 | 844 | 856 | 867 | 869 | 528 |
| 155° | 930 | 924 | 932 | 936 | 930 | 428 |
| 165° | 980 | 976 | 978 | 982 | 978 | 277 |
| 175° | 1002 | 997 | 998 | 1003 | 996 | 95 |
| 180° | 1000 | 1000 | 1000 | 1000 | 1000 | |



TEST NUMBER: P331405-927

CATALOG NUMBER: SA2XXDIP-C865D925U927-4F0-1E-UDD-D

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 725.3 | 725.3 | 725.3 | 725.3 | 725.3 | 725.3 | 725.3 | 725.3 | 725.3 | 725.3 | 725.3 |
| 2.5° | 729.5 | 729.0 | 728.4 | 727.9 | 727.3 | 726.4 | 725.0 | 723.7 | 722.4 | 721.1 | 722.1 |
| 5° | 727.4 | 726.7 | 726.0 | 725.3 | 724.6 | 723.6 | 722.2 | 720.7 | 719.4 | 718.0 | 719.4 |
| 7.5° | 720.9 | 720.4 | 719.9 | 719.5 | 719.1 | 718.3 | 717.2 | 716.1 | 715.0 | 714.0 | 715.7 |
| 10° | 715.9 | 715.4 | 714.9 | 714.5 | 714.0 | 713.4 | 712.7 | 712.0 | 711.3 | 710.6 | 712.5 |
| 12.5° | 707.4 | 707.6 | 707.7 | 707.7 | 707.8 | 707.6 | 707.1 | 706.5 | 706.1 | 705.5 | 707.4 |
| 15° | 693.8 | 694.3 | 694.7 | 695.2 | 695.6 | 695.9 | 695.9 | 695.9 | 695.9 | 695.9 | 698.0 |
| 17.5° | 676.1 | 677.1 | 678.1 | 679.1 | 680.0 | 680.9 | 681.7 | 682.4 | 683.2 | 683.9 | 686.1 |
| 20° | 664.3 | 665.5 | 666.7 | 667.9 | 669.0 | 670.1 | 671.0 | 671.9 | 672.9 | 673.8 | 676.4 |
| 22.5° | 651.7 | 653.1 | 654.4 | 655.8 | 657.1 | 658.5 | 659.8 | 661.1 | 662.4 | 663.7 | 666.3 |
| 25° | 630.7 | 632.3 | 634.0 | 635.6 | 637.2 | 639.1 | 641.2 | 643.3 | 645.4 | 647.5 | 650.3 |
| 27.5° | 605.5 | 608.2 | 610.8 | 613.5 | 616.2 | 618.7 | 621.2 | 623.7 | 626.1 | 628.6 | 632.2 |
| 30° | 588.7 | 591.7 | 594.8 | 597.8 | 600.8 | 603.9 | 606.9 | 609.9 | 613.0 | 616.0 | 619.7 |
| 32.5° | 570.1 | 573.5 | 576.9 | 580.4 | 583.8 | 587.3 | 590.9 | 594.5 | 598.1 | 601.7 | 606.0 |
| 35° | 543.4 | 547.4 | 551.4 | 555.4 | 559.4 | 563.6 | 568.0 | 572.4 | 576.9 | 581.3 | 586.5 |
| 37.5° | 514.4 | 519.0 | 523.6 | 528.1 | 532.7 | 537.9 | 543.7 | 549.5 | 555.2 | 560.9 | 566.6 |
| 40° | 495.1 | 500.3 | 505.4 | 510.6 | 515.6 | 521.4 | 527.7 | 534.0 | 540.3 | 546.6 | 552.7 |
| 42.5° | 476.6 | 481.7 | 486.9 | 492.0 | 497.2 | 503.4 | 510.6 | 517.8 | 525.1 | 532.3 | 538.9 |
| 45° | 445.7 | 452.0 | 458.3 | 464.6 | 471.0 | 478.2 | 486.3 | 494.6 | 502.7 | 510.9 | 518.1 |
| 47.5° | 415.2 | 422.1 | 429.0 | 435.9 | 442.7 | 450.9 | 460.5 | 470.1 | 479.7 | 489.3 | 496.8 |
| 50° | 394.2 | 401.4 | 408.7 | 415.9 | 423.2 | 432.1 | 442.5 | 453.0 | 463.6 | 474.1 | 482.0 |
| 52.5° | 374.0 | 381.6 | 389.3 | 396.9 | 404.5 | 413.8 | 424.9 | 435.9 | 447.0 | 458.1 | 466.2 |
| 55° | 341.7 | 350.1 | 358.5 | 366.9 | 375.3 | 385.6 | 397.7 | 409.9 | 422.0 | 434.1 | 442.5 |
| 57.5° | 309.7 | 319.2 | 328.7 | 338.1 | 347.6 | 358.5 | 370.9 | 383.3 | 395.7 | 408.1 | 417.2 |
| 60° | 287.0 | 297.0 | 307.0 | 317.1 | 327.2 | 338.8 | 352.1 | 365.4 | 378.7 | 392.1 | 401.0 |
| 62.5° | 266.8 | 277.2 | 287.6 | 298.0 | 308.5 | 320.4 | 333.7 | 347.0 | 360.3 | 373.6 | 383.0 |
| 65° | 233.4 | 244.8 | 256.3 | 267.7 | 279.2 | 291.8 | 305.5 | 319.3 | 333.1 | 346.9 | 356.5 |
| 67.5° | 202.6 | 214.6 | 226.6 | 238.5 | 250.5 | 263.6 | 277.7 | 291.8 | 305.9 | 320.0 | 329.6 |
| 70° | 180.8 | 193.0 | 205.1 | 217.2 | 229.4 | 242.7 | 257.2 | 271.6 | 286.1 | 300.6 | 310.7 |
| 72.5° | 160.7 | 173.2 | 185.7 | 198.2 | 210.7 | 224.3 | 239.0 | 253.7 | 268.3 | 283.0 | 292.9 |
| 75° | 129.3 | 142.4 | 155.4 | 168.6 | 181.6 | 195.7 | 210.6 | 225.5 | 240.5 | 255.4 | 265.5 |
| 77.5° | 99.0 | 112.7 | 126.4 | 140.1 | 153.8 | 168.2 | 183.4 | 198.6 | 213.7 | 228.9 | 238.9 |
| 80° | 78.8 | 93.1 | 107.3 | 121.6 | 135.9 | 150.5 | 165.7 | 180.9 | 196.1 | 211.3 | 221.1 |
| 82.5° | 62.0 | 76.0 | 90.2 | 104.2 | 118.3 | 133.0 | 148.4 | 163.7 | 179.1 | 194.5 | 204.3 |
| 85° | 37.9 | 52.4 | 66.8 | 81.3 | 95.8 | 110.5 | 125.4 | 140.4 | 155.3 | 170.3 | 180.1 |
| 87.5° | 20.8 | 35.0 | 49.3 | 63.6 | 77.9 | 92.6 | 107.8 | 123.0 | 138.2 | 153.4 | 163.1 |
| 90° | 11.2 | 26.5 | 41.9 | 57.2 | 72.5 | 88.2 | 104.5 | 120.7 | 137.0 | 153.2 | 163.3 |
| 92.5° | 24.3 | 36.8 | 49.2 | 61.6 | 74.1 | 87.9 | 102.9 | 117.9 | 132.9 | 148.0 | 157.6 |
| 95° | 55.5 | 61.1 | 66.8 | 72.5 | 78.1 | 88.6 | 103.7 | 118.8 | 134.0 | 149.1 | 158.8 |
| 97.5° | 100.7 | 95.5 | 90.3 | 85.2 | 79.9 | 85.4 | 101.4 | 117.5 | 133.6 | 149.6 | 158.9 |
| 100° | 135.4 | 122.0 | 108.7 | 95.3 | 81.9 | 83.1 | 98.9 | 114.7 | 130.6 | 146.4 | 156.3 |
| 102.5° | 172.8 | 176.0 | 179.3 | 182.4 | 185.7 | 182.3 | 172.1 | 161.9 | 151.8 | 141.6 | 151.8 |
| 105° | 225.2 | 236.8 | 248.4 | 260.0 | 271.6 | 261.5 | 229.7 | 198.0 | 166.3 | 134.5 | 144.5 |
| 107.5° | 286.2 | 295.5 | 304.8 | 314.1 | 323.4 | 307.6 | 266.6 | 225.6 | 184.6 | 143.5 | 149.6 |
| 110° | 324.7 | 332.8 | 340.8 | 348.9 | 356.9 | 343.4 | 308.4 | 273.4 | 238.4 | 203.4 | 194.7 |



TEST NUMBER: P331405-927

CATALOG NUMBER: SA2XXDIP-C865D925U927-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|--------|
| 112.5° | 361.8 | 368.7 | 375.6 | 382.5 | 389.4 | 392.6 | 392.0 | 391.4 | 390.8 | 390.2 | 339.1 |
| 115° | 420.3 | 425.5 | 430.8 | 436.1 | 441.4 | 451.3 | 465.9 | 480.4 | 495.0 | 509.5 | 442.0 |
| 117.5° | 471.4 | 476.1 | 480.9 | 485.6 | 490.4 | 499.0 | 511.4 | 523.9 | 536.4 | 548.9 | 537.8 |
| 120° | 509.6 | 512.9 | 516.3 | 519.7 | 523.0 | 530.8 | 543.0 | 555.2 | 567.5 | 579.7 | 588.2 |
| 122.5° | 542.0 | 544.9 | 547.9 | 550.7 | 553.7 | 561.1 | 573.1 | 584.9 | 596.9 | 608.8 | 616.3 |
| 125° | 590.3 | 592.4 | 594.5 | 596.6 | 598.7 | 605.0 | 615.5 | 626.1 | 636.6 | 647.1 | 654.5 |
| 127.5° | 635.0 | 637.1 | 639.2 | 641.3 | 643.3 | 648.6 | 656.9 | 665.2 | 673.4 | 681.8 | 689.2 |
| 130° | 663.4 | 665.7 | 668.0 | 670.4 | 672.7 | 677.2 | 683.9 | 690.6 | 697.3 | 703.9 | 711.3 |
| 132.5° | 692.3 | 694.3 | 696.2 | 698.2 | 700.1 | 703.9 | 709.4 | 715.0 | 720.6 | 726.1 | 733.0 |
| 135° | 728.9 | 731.4 | 734.0 | 736.6 | 739.2 | 742.4 | 746.2 | 750.0 | 753.7 | 757.5 | 764.0 |
| 137.5° | 766.9 | 768.7 | 770.5 | 772.2 | 774.0 | 776.2 | 778.9 | 781.5 | 784.2 | 786.9 | 792.7 |
| 140° | 791.9 | 792.9 | 793.9 | 795.0 | 796.1 | 797.6 | 799.9 | 802.2 | 804.4 | 806.6 | 811.8 |
| 142.5° | 812.7 | 813.6 | 814.5 | 815.5 | 816.3 | 817.8 | 820.0 | 822.1 | 824.3 | 826.3 | 830.7 |
| 145° | 844.3 | 844.1 | 844.0 | 843.8 | 843.7 | 844.9 | 847.7 | 850.4 | 853.2 | 855.9 | 858.4 |
| 147.5° | 872.8 | 872.2 | 871.6 | 871.0 | 870.4 | 871.4 | 874.1 | 876.9 | 879.6 | 882.3 | 883.3 |
| 150° | 891.4 | 890.3 | 889.1 | 888.0 | 886.8 | 887.6 | 890.2 | 892.7 | 895.3 | 897.9 | 898.8 |
| 152.5° | 907.0 | 905.7 | 904.4 | 903.2 | 902.0 | 902.5 | 905.0 | 907.4 | 909.9 | 912.4 | 913.3 |
| 155° | 929.7 | 928.3 | 926.8 | 925.3 | 923.9 | 924.2 | 926.1 | 928.0 | 929.9 | 931.8 | 932.8 |
| 157.5° | 947.5 | 946.3 | 945.1 | 943.8 | 942.6 | 942.7 | 944.0 | 945.4 | 946.7 | 948.1 | 949.2 |
| 160° | 957.9 | 957.0 | 956.0 | 955.0 | 954.0 | 954.0 | 955.0 | 956.0 | 957.0 | 957.9 | 958.9 |
| 162.5° | 967.2 | 966.2 | 965.3 | 964.2 | 963.3 | 963.2 | 964.1 | 964.9 | 965.7 | 966.6 | 967.7 |
| 165° | 979.6 | 978.7 | 977.7 | 976.7 | 975.7 | 975.5 | 976.0 | 976.4 | 977.0 | 977.5 | 978.6 |
| 167.5° | 988.9 | 987.9 | 987.0 | 986.0 | 985.0 | 984.8 | 985.2 | 985.6 | 986.1 | 986.6 | 987.7 |
| 170° | 994.1 | 993.1 | 992.1 | 991.2 | 990.2 | 989.9 | 990.2 | 990.5 | 990.9 | 991.2 | 992.3 |
| 172.5° | 997.5 | 996.6 | 995.6 | 994.7 | 993.7 | 993.4 | 993.7 | 994.0 | 994.3 | 994.7 | 995.8 |
| 175° | 1002.0 | 1000.9 | 999.8 | 998.6 | 997.5 | 997.1 | 997.4 | 997.8 | 998.1 | 998.4 | 999.6 |
| 177.5° | 1002.7 | 1001.9 | 1001.0 | 1000.1 | 999.2 | 998.8 | 998.9 | 999.0 | 999.2 | 999.3 | 1000.2 |
| 180° | 999.9 | 999.9 | 999.9 | 999.9 | 999.9 | 999.9 | 999.9 | 999.9 | 999.9 | 999.9 | 999.9 |



TEST NUMBER: P331405-927

CATALOG NUMBER: SA2XXDIP-C865D925U927-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 725.3 | 725.3 | 725.3 | 725.3 | 725.3 | 725.3 | 725.3 | 725.3 |
| 2.5° | 722.9 | 723.9 | 724.8 | 725.2 | 724.8 | 724.4 | 724.0 | 723.7 |
| 5° | 720.7 | 722.2 | 723.6 | 724.1 | 723.9 | 723.7 | 723.4 | 723.2 |
| 7.5° | 717.3 | 719.0 | 720.7 | 721.4 | 721.2 | 721.0 | 720.7 | 720.5 |
| 10° | 714.3 | 716.2 | 718.1 | 718.9 | 718.7 | 718.4 | 718.2 | 718.0 |
| 12.5° | 709.3 | 711.1 | 713.0 | 713.8 | 713.6 | 713.4 | 713.1 | 712.9 |
| 15° | 700.1 | 702.2 | 704.3 | 705.2 | 705.0 | 704.7 | 704.5 | 704.3 |
| 17.5° | 688.3 | 690.5 | 692.7 | 693.8 | 693.8 | 693.8 | 693.8 | 693.8 |
| 20° | 679.0 | 681.5 | 684.0 | 685.4 | 685.4 | 685.4 | 685.4 | 685.4 |
| 22.5° | 668.8 | 671.5 | 674.0 | 675.5 | 675.8 | 676.2 | 676.6 | 677.0 |
| 25° | 653.2 | 655.9 | 658.8 | 660.5 | 661.2 | 661.9 | 662.6 | 663.3 |
| 27.5° | 635.7 | 639.3 | 642.8 | 644.8 | 645.4 | 645.9 | 646.4 | 646.9 |
| 30° | 623.4 | 627.2 | 631.0 | 633.2 | 633.8 | 634.5 | 635.3 | 636.0 |
| 32.5° | 610.3 | 614.6 | 618.9 | 621.7 | 622.9 | 624.2 | 625.4 | 626.7 |
| 35° | 591.6 | 596.8 | 601.9 | 605.2 | 606.9 | 608.6 | 610.1 | 611.8 |
| 37.5° | 572.3 | 578.0 | 583.7 | 587.4 | 589.1 | 590.9 | 592.6 | 594.4 |
| 40° | 558.7 | 564.8 | 570.9 | 575.0 | 577.1 | 579.2 | 581.3 | 583.4 |
| 42.5° | 545.6 | 552.2 | 558.9 | 563.2 | 565.3 | 567.4 | 569.5 | 571.6 |
| 45° | 525.4 | 532.6 | 539.9 | 544.6 | 547.0 | 549.3 | 551.7 | 554.0 |
| 47.5° | 504.4 | 511.9 | 519.5 | 524.6 | 527.1 | 529.7 | 532.3 | 534.9 |
| 50° | 490.0 | 497.9 | 505.9 | 511.1 | 513.7 | 516.3 | 518.8 | 521.4 |
| 52.5° | 474.4 | 482.5 | 490.6 | 496.1 | 498.8 | 501.6 | 504.3 | 507.1 |
| 55° | 451.0 | 459.4 | 467.8 | 473.5 | 476.5 | 479.6 | 482.6 | 485.6 |
| 57.5° | 426.2 | 435.2 | 444.3 | 450.4 | 453.4 | 456.5 | 459.6 | 462.7 |
| 60° | 409.9 | 418.7 | 427.6 | 433.6 | 437.0 | 440.2 | 443.5 | 446.8 |
| 62.5° | 392.4 | 401.9 | 411.3 | 417.6 | 420.6 | 423.7 | 426.8 | 429.9 |
| 65° | 366.1 | 375.7 | 385.2 | 391.5 | 394.5 | 397.6 | 400.6 | 403.6 |
| 67.5° | 339.3 | 349.0 | 358.7 | 365.1 | 368.3 | 371.5 | 374.6 | 377.8 |
| 70° | 320.8 | 330.7 | 340.8 | 347.2 | 350.1 | 352.8 | 355.7 | 358.5 |
| 72.5° | 302.7 | 312.5 | 322.4 | 329.0 | 332.4 | 335.7 | 339.1 | 342.5 |
| 75° | 275.5 | 285.6 | 295.6 | 302.1 | 305.2 | 308.2 | 311.2 | 314.3 |
| 77.5° | 249.0 | 259.0 | 268.9 | 275.6 | 278.8 | 282.1 | 285.4 | 288.7 |
| 80° | 230.9 | 240.7 | 250.6 | 257.1 | 260.3 | 263.6 | 266.9 | 270.1 |
| 82.5° | 214.1 | 223.9 | 233.7 | 240.2 | 243.3 | 246.3 | 249.4 | 252.5 |
| 85° | 189.9 | 199.7 | 209.5 | 216.1 | 219.4 | 222.6 | 225.9 | 229.2 |
| 87.5° | 172.8 | 182.5 | 192.2 | 198.6 | 201.6 | 204.7 | 207.7 | 210.8 |
| 90° | 173.5 | 183.7 | 193.8 | 200.4 | 203.6 | 206.7 | 209.8 | 212.9 |
| 92.5° | 167.2 | 176.7 | 186.2 | 192.6 | 195.6 | 198.5 | 201.5 | 204.5 |
| 95° | 168.5 | 178.2 | 187.8 | 194.0 | 196.6 | 199.2 | 201.9 | 204.5 |
| 97.5° | 168.2 | 177.4 | 186.8 | 192.9 | 195.8 | 198.8 | 201.7 | 204.7 |
| 100° | 166.2 | 176.2 | 186.1 | 192.5 | 195.4 | 198.3 | 201.1 | 204.1 |
| 102.5° | 161.9 | 172.0 | 182.1 | 188.7 | 191.7 | 194.7 | 197.8 | 200.8 |
| 105° | 154.4 | 164.4 | 174.3 | 180.9 | 184.1 | 187.4 | 190.5 | 193.8 |
| 107.5° | 155.7 | 161.7 | 167.8 | 172.4 | 175.6 | 178.8 | 182.0 | 185.2 |
| 110° | 186.2 | 177.5 | 169.0 | 166.3 | 169.4 | 172.7 | 175.9 | 179.1 |



TEST NUMBER: P331405-927

CATALOG NUMBER: SA2XXDIP-C865D925U927-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 112.5° | 287.9 | 236.7 | 185.5 | 161.4 | 164.5 | 167.6 | 170.7 | 173.8 |
| 115° | 374.6 | 307.2 | 239.7 | 201.5 | 192.5 | 183.5 | 174.5 | 165.5 |
| 117.5° | 526.7 | 515.6 | 504.5 | 481.2 | 445.5 | 409.8 | 374.1 | 338.5 |
| 120° | 596.7 | 605.1 | 613.6 | 608.2 | 589.1 | 570.0 | 550.9 | 531.7 |
| 122.5° | 623.8 | 631.4 | 638.9 | 641.6 | 639.6 | 637.6 | 635.6 | 633.6 |
| 125° | 661.9 | 669.4 | 676.8 | 681.8 | 684.4 | 687.0 | 689.6 | 692.2 |
| 127.5° | 696.6 | 704.1 | 711.5 | 716.3 | 718.4 | 720.6 | 722.8 | 724.9 |
| 130° | 718.7 | 726.0 | 733.4 | 738.0 | 739.7 | 741.4 | 743.1 | 744.8 |
| 132.5° | 740.0 | 746.9 | 753.8 | 758.1 | 759.9 | 761.5 | 763.3 | 764.9 |
| 135° | 770.5 | 777.1 | 783.5 | 787.6 | 789.1 | 790.7 | 792.2 | 793.8 |
| 137.5° | 798.6 | 804.5 | 810.3 | 813.8 | 814.8 | 815.9 | 816.9 | 817.9 |
| 140° | 817.0 | 822.2 | 827.4 | 830.3 | 830.8 | 831.5 | 832.0 | 832.7 |
| 142.5° | 835.0 | 839.3 | 843.6 | 846.0 | 846.4 | 846.8 | 847.2 | 847.6 |
| 145° | 860.9 | 863.5 | 866.0 | 867.4 | 867.8 | 868.2 | 868.5 | 868.9 |
| 147.5° | 884.3 | 885.3 | 886.3 | 886.8 | 886.7 | 886.5 | 886.5 | 886.3 |
| 150° | 899.8 | 900.8 | 901.7 | 901.8 | 901.0 | 900.2 | 899.4 | 898.6 |
| 152.5° | 914.3 | 915.2 | 916.2 | 916.2 | 915.0 | 914.0 | 913.0 | 911.9 |
| 155° | 933.8 | 934.8 | 935.7 | 935.6 | 934.3 | 933.0 | 931.7 | 930.4 |
| 157.5° | 950.2 | 951.3 | 952.4 | 952.4 | 951.1 | 949.8 | 948.6 | 947.4 |
| 160° | 959.8 | 960.8 | 961.8 | 961.7 | 960.5 | 959.4 | 958.3 | 957.2 |
| 162.5° | 968.8 | 969.9 | 971.0 | 970.8 | 969.5 | 968.0 | 966.7 | 965.3 |
| 165° | 979.7 | 980.8 | 981.9 | 981.9 | 980.8 | 979.7 | 978.6 | 977.5 |
| 167.5° | 988.8 | 989.9 | 991.1 | 990.9 | 989.4 | 988.0 | 986.6 | 985.1 |
| 170° | 993.5 | 994.6 | 995.7 | 995.5 | 994.1 | 992.6 | 991.2 | 989.8 |
| 172.5° | 996.9 | 998.1 | 999.2 | 999.0 | 997.5 | 996.1 | 994.7 | 993.2 |
| 175° | 1000.7 | 1001.8 | 1002.9 | 1002.7 | 1001.1 | 999.5 | 997.8 | 996.2 |
| 177.5° | 1001.1 | 1002.0 | 1002.9 | 1002.7 | 1001.6 | 1000.4 | 999.3 | 998.1 |
| 180° | 999.9 | 999.9 | 999.9 | 999.9 | 999.9 | 999.9 | 999.9 | 999.9 |

(END OF REPORT)