

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: P331660-830

Luminaire Tested: **SA2XXRDIP-C485D725U830-4F0-1E-UDD-F**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331660-830
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: SA2XXRDIP-C485D725U830-4F0-1E-UDD-F
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 725 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

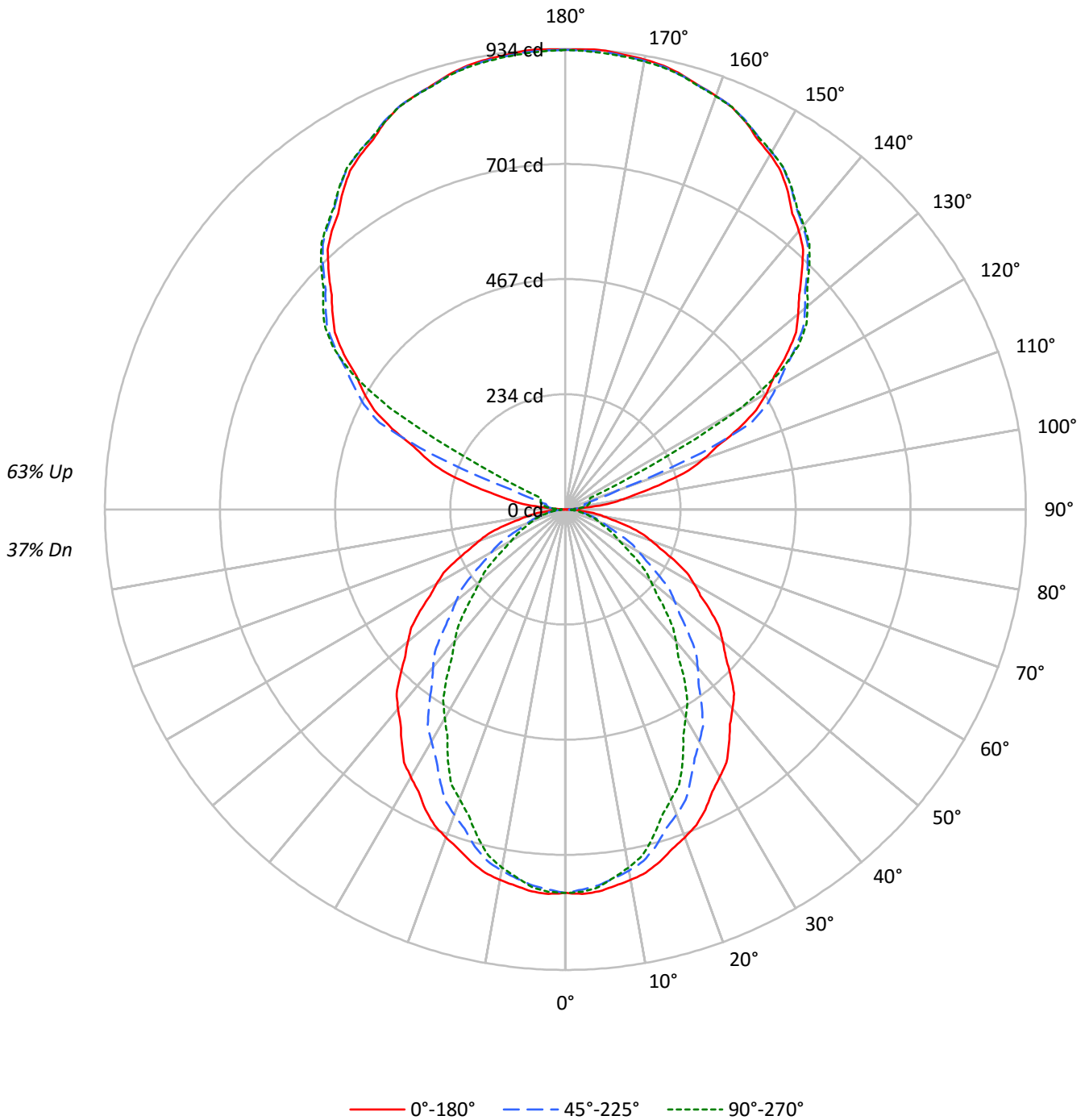
Lumens per Lamp: N/A
Luminaire Lumens: 4332.8 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 38.4
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: P331660-830
CATALOG NUMBER: SA2XXRDIP-C485D725U830-4F0-1E-UDD-F

Luminous Intensity Polar Plot





TEST NUMBER: P331660-830

CATALOG NUMBER: SA2XXRDIP-C485D725U830-4F0-1E-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 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 104 | 104 | 104 | 104 | 94 | 94 | 94 | 94 | 76 | 76 | 76 | 59 | 59 | 59 | 44 | 44 | 44 | 37 | | | | 37 |
| 1 | 95 | 91 | 87 | 84 | 86 | 83 | 80 | 77 | 67 | 65 | 63 | 53 | 51 | 50 | 40 | 39 | 38 | | | | 32 | |
| 2 | 87 | 80 | 74 | 69 | 79 | 73 | 68 | 64 | 59 | 56 | 53 | 47 | 44 | 42 | 35 | 34 | 32 | | | | 27 | |
| 3 | 80 | 71 | 64 | 58 | 72 | 64 | 58 | 54 | 53 | 48 | 45 | 42 | 39 | 36 | 32 | 30 | 28 | | | | 23 | |
| 4 | 73 | 63 | 55 | 49 | 66 | 57 | 51 | 46 | 47 | 42 | 38 | 37 | 34 | 31 | 28 | 26 | 24 | | | | 20 | |
| 5 | 67 | 56 | 48 | 42 | 61 | 51 | 44 | 39 | 42 | 37 | 33 | 34 | 30 | 27 | 26 | 23 | 22 | | | | 18 | |
| 6 | 62 | 50 | 42 | 37 | 56 | 46 | 39 | 34 | 38 | 33 | 29 | 30 | 27 | 24 | 23 | 21 | 19 | | | | 16 | |
| 7 | 57 | 45 | 38 | 32 | 52 | 42 | 35 | 30 | 34 | 29 | 26 | 28 | 24 | 21 | 21 | 19 | 17 | | | | 14 | |
| 8 | 53 | 41 | 34 | 29 | 48 | 38 | 31 | 27 | 31 | 26 | 23 | 25 | 22 | 19 | 20 | 17 | 15 | | | | 13 | |
| 9 | 49 | 38 | 30 | 25 | 45 | 35 | 28 | 24 | 29 | 24 | 20 | 23 | 20 | 17 | 18 | 16 | 14 | | | | 12 | |
| 10 | 46 | 34 | 27 | 23 | 42 | 32 | 26 | 21 | 27 | 22 | 18 | 22 | 18 | 16 | 17 | 15 | 13 | | | | 11 | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 12558 | 12558 | 12558 |
| 5° | 12606 | 12402 | 12470 |
| 10° | 12511 | 12198 | 12095 |
| 15° | 12366 | 11836 | 11497 |
| 20° | 12167 | 11320 | 10753 |
| 25° | 11965 | 10735 | 10033 |
| 30° | 11680 | 10133 | 9107 |
| 35° | 11404 | 9477 | 8296 |
| 40° | 11126 | 8800 | 7358 |
| 45° | 10803 | 8035 | 6510 |
| 50° | 10467 | 7267 | 5674 |
| 55° | 10125 | 6441 | 4873 |
| 60° | 9726 | 5570 | 4046 |
| 65° | 9280 | 4676 | 3683 |
| 70° | 8738 | 3852 | 3389 |
| 75° | 8079 | 3512 | 3163 |
| 80° | 7132 | 3133 | 2882 |
| 85° | 5613 | 2482 | 2482 |



TEST NUMBER: P331660-830

CATALOG NUMBER: SA2XXRDIP-C485D725U830-4F0-1E-UDD-F

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 72.8 | 1.7 |
| 10°-20° | 199.9 | 4.6 |
| 20°-30° | 280.7 | 6.5 |
| 30°-40° | 306.1 | 7.1 |
| 40°-50° | 281.5 | 6.5 |
| 50°-60° | 221.1 | 5.1 |
| 60°-70° | 144.1 | 3.3 |
| 70°-80° | 74.3 | 1.7 |
| 80°-90° | 21.6 | 0.5 |
| 90°-100° | 31.1 | 0.7 |
| 100°-110° | 114.0 | 2.6 |
| 110°-120° | 304.7 | 7.0 |
| 120°-130° | 502.9 | 11.6 |
| 130°-140° | 534.9 | 12.3 |
| 140°-150° | 497.1 | 11.5 |
| 150°-160° | 399.7 | 9.2 |
| 160°-170° | 257.6 | 5.9 |
| 170°-180° | 88.7 | 2.0 |
| 0°-30° | 553.4 | 12.8 |
| 0°-40° | 859.6 | 19.8 |
| 0°-60° | 1362.1 | 31.4 |
| 0°-90° | 1602.1 | 37.0 |
| 90°-120° | 449.7 | 10.4 |
| 90°-150° | 1984.7 | 45.8 |
| 90°-180° | 2731.0 | 63.0 |
| 0°-180° | 4332.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 778 | 778 | 778 | 778 | 778 | |
| 5° | 778 | 774 | 765 | 771 | 769 | 74 |
| 15° | 740 | 731 | 708 | 695 | 688 | 208 |
| 25° | 672 | 648 | 603 | 575 | 563 | 309 |
| 35° | 579 | 541 | 481 | 438 | 421 | 362 |
| 45° | 473 | 424 | 352 | 304 | 285 | 365 |
| 55° | 360 | 304 | 229 | 188 | 173 | 321 |
| 65° | 243 | 186 | 122 | 100 | 96 | 241 |
| 75° | 130 | 82 | 56 | 52 | 51 | 137 |
| 85° | 30 | 16 | 13 | 13 | 13 | 36 |
| 90° | 1 | 8 | 14 | 17 | 18 | 3 |
| 95° | 44 | 23 | 26 | 29 | 29 | 54 |
| 105° | 205 | 214 | 41 | 48 | 51 | 219 |
| 115° | 388 | 399 | 416 | 118 | 55 | 382 |
| 125° | 548 | 557 | 570 | 574 | 576 | 489 |
| 135° | 678 | 689 | 695 | 701 | 700 | 524 |
| 145° | 787 | 787 | 798 | 802 | 799 | 492 |
| 155° | 866 | 861 | 868 | 872 | 867 | 399 |
| 165° | 913 | 909 | 911 | 915 | 911 | 258 |
| 175° | 934 | 929 | 930 | 934 | 928 | 89 |
| 180° | 932 | 932 | 932 | 932 | 932 | |



TEST NUMBER: P331660-830

CATALOG NUMBER: SA2XXRDIP-C485D725U830-4F0-1E-UDD-F

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 777.8 | 777.8 | 777.8 | 777.8 | 777.8 | 777.8 | 777.8 | 777.8 | 777.8 | 777.8 | 777.8 |
| 2.5° | 780.6 | 780.0 | 779.4 | 778.7 | 778.2 | 777.1 | 775.8 | 774.4 | 773.0 | 771.7 | 772.9 |
| 5° | 777.8 | 777.0 | 776.3 | 775.5 | 774.7 | 773.3 | 771.3 | 769.2 | 767.2 | 765.2 | 766.6 |
| 7.5° | 769.8 | 768.8 | 767.9 | 766.9 | 765.9 | 764.2 | 761.9 | 759.5 | 757.1 | 754.8 | 755.2 |
| 10° | 763.1 | 762.0 | 760.8 | 759.8 | 758.7 | 756.6 | 753.5 | 750.3 | 747.2 | 744.0 | 743.6 |
| 12.5° | 754.6 | 753.3 | 751.9 | 750.5 | 749.2 | 746.6 | 742.5 | 738.6 | 734.5 | 730.6 | 729.7 |
| 15° | 739.8 | 738.1 | 736.4 | 734.6 | 732.9 | 729.4 | 724.1 | 718.8 | 713.5 | 708.1 | 705.2 |
| 17.5° | 721.7 | 719.1 | 716.4 | 713.8 | 711.1 | 706.4 | 699.6 | 692.8 | 686.0 | 679.1 | 675.6 |
| 20° | 708.1 | 705.0 | 701.9 | 698.8 | 695.6 | 690.1 | 682.3 | 674.5 | 666.7 | 658.8 | 655.0 |
| 22.5° | 693.5 | 690.0 | 686.5 | 683.0 | 679.5 | 673.4 | 664.5 | 655.6 | 646.9 | 638.0 | 633.0 |
| 25° | 671.6 | 666.6 | 661.6 | 656.5 | 651.5 | 643.9 | 633.5 | 623.2 | 612.8 | 602.6 | 596.2 |
| 27.5° | 645.1 | 639.6 | 634.1 | 628.8 | 623.3 | 614.7 | 603.1 | 591.4 | 579.9 | 568.2 | 560.7 |
| 30° | 626.5 | 620.6 | 614.6 | 608.7 | 602.8 | 593.5 | 581.0 | 568.4 | 555.9 | 543.5 | 535.5 |
| 32.5° | 608.5 | 601.5 | 594.6 | 587.7 | 580.7 | 570.8 | 558.1 | 545.3 | 532.5 | 519.8 | 510.7 |
| 35° | 578.6 | 570.6 | 562.7 | 554.7 | 546.7 | 535.8 | 522.1 | 508.3 | 494.6 | 480.8 | 470.9 |
| 37.5° | 548.7 | 540.0 | 531.2 | 522.5 | 513.8 | 502.0 | 487.4 | 472.7 | 458.0 | 443.4 | 432.4 |
| 40° | 527.9 | 518.6 | 509.2 | 499.8 | 490.4 | 478.2 | 463.0 | 447.8 | 432.6 | 417.5 | 406.3 |
| 42.5° | 506.5 | 496.6 | 486.7 | 476.9 | 467.0 | 454.2 | 438.6 | 422.8 | 407.2 | 391.5 | 380.0 |
| 45° | 473.1 | 462.6 | 452.0 | 441.6 | 431.1 | 417.6 | 401.2 | 384.8 | 368.3 | 351.9 | 340.8 |
| 47.5° | 440.4 | 429.2 | 418.2 | 407.1 | 396.0 | 381.9 | 365.0 | 348.0 | 331.0 | 314.1 | 303.0 |
| 50° | 416.7 | 405.6 | 394.5 | 383.4 | 372.3 | 358.2 | 340.9 | 323.8 | 306.5 | 289.3 | 278.5 |
| 52.5° | 393.6 | 382.0 | 370.4 | 358.8 | 347.2 | 333.0 | 316.1 | 299.4 | 282.5 | 265.7 | 255.2 |
| 55° | 359.7 | 347.5 | 335.3 | 323.1 | 310.9 | 296.3 | 279.5 | 262.6 | 245.6 | 228.8 | 219.4 |
| 57.5° | 324.9 | 312.5 | 299.9 | 287.4 | 274.8 | 260.5 | 244.3 | 228.0 | 211.8 | 195.6 | 186.9 |
| 60° | 301.2 | 288.8 | 276.3 | 263.7 | 251.2 | 237.0 | 220.8 | 204.7 | 188.6 | 172.5 | 164.5 |
| 62.5° | 278.1 | 265.7 | 253.2 | 240.6 | 228.1 | 214.2 | 198.9 | 183.5 | 168.1 | 152.8 | 145.2 |
| 65° | 242.9 | 230.2 | 217.5 | 204.8 | 192.2 | 178.8 | 164.8 | 150.6 | 136.6 | 122.4 | 117.2 |
| 67.5° | 208.8 | 196.2 | 183.6 | 171.1 | 158.4 | 145.8 | 133.2 | 120.6 | 107.8 | 95.2 | 92.7 |
| 70° | 185.1 | 173.0 | 160.7 | 148.5 | 136.3 | 124.8 | 114.0 | 103.2 | 92.5 | 81.6 | 80.1 |
| 72.5° | 162.6 | 150.9 | 139.2 | 127.5 | 115.8 | 105.7 | 97.0 | 88.3 | 79.6 | 71.0 | 69.7 |
| 75° | 129.5 | 118.6 | 107.6 | 96.7 | 85.7 | 77.6 | 72.3 | 66.9 | 61.6 | 56.3 | 55.2 |
| 77.5° | 97.0 | 87.4 | 77.8 | 68.1 | 58.6 | 52.5 | 50.0 | 47.4 | 44.8 | 42.2 | 41.6 |
| 80° | 76.7 | 68.7 | 60.8 | 52.8 | 44.8 | 40.1 | 38.5 | 36.9 | 35.3 | 33.7 | 33.2 |
| 82.5° | 58.2 | 51.9 | 45.7 | 39.5 | 33.3 | 29.6 | 28.6 | 27.4 | 26.4 | 25.4 | 25.0 |
| 85° | 30.3 | 27.0 | 23.7 | 20.5 | 17.2 | 15.3 | 14.8 | 14.3 | 13.9 | 13.4 | 13.4 |
| 87.5° | 9.1 | 8.5 | 7.8 | 7.2 | 6.5 | 6.2 | 6.5 | 6.7 | 7.0 | 7.2 | 7.3 |
| 90° | 0.7 | 2.4 | 4.0 | 5.7 | 7.3 | 8.7 | 9.9 | 11.1 | 12.3 | 13.5 | 14.2 |
| 92.5° | 13.6 | 13.5 | 13.3 | 13.2 | 13.0 | 13.3 | 13.9 | 14.4 | 15.1 | 15.6 | 16.0 |
| 95° | 43.8 | 38.9 | 33.9 | 29.0 | 24.0 | 22.1 | 23.2 | 24.2 | 25.3 | 26.3 | 27.1 |
| 97.5° | 87.0 | 73.0 | 59.1 | 45.1 | 31.2 | 25.4 | 27.9 | 30.3 | 32.8 | 35.2 | 35.8 |
| 100° | 119.3 | 98.8 | 78.3 | 57.8 | 37.2 | 28.3 | 30.8 | 33.4 | 35.9 | 38.5 | 39.6 |
| 102.5° | 155.0 | 150.6 | 146.3 | 141.9 | 137.5 | 124.7 | 103.4 | 82.1 | 60.8 | 39.5 | 41.1 |
| 105° | 205.0 | 209.4 | 214.0 | 218.5 | 222.9 | 204.7 | 163.8 | 122.9 | 82.0 | 41.1 | 42.8 |
| 107.5° | 262.0 | 265.6 | 269.3 | 272.9 | 276.5 | 253.8 | 204.7 | 155.7 | 106.6 | 57.6 | 55.9 |
| 110° | 298.7 | 301.8 | 305.0 | 308.1 | 311.2 | 291.2 | 247.9 | 204.6 | 161.3 | 118.0 | 103.0 |



TEST NUMBER: P331660-830

CATALOG NUMBER: SA2XXRDIP-C485D725U830-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 333.2 | 336.0 | 338.7 | 341.6 | 344.3 | 340.4 | 329.7 | 319.0 | 308.3 | 297.6 | 243.0 |
| 115° | 387.7 | 390.2 | 392.8 | 395.3 | 397.8 | 401.1 | 404.7 | 408.5 | 412.3 | 416.0 | 346.7 |
| 117.5° | 436.4 | 439.2 | 442.1 | 444.9 | 447.7 | 450.4 | 453.1 | 455.6 | 458.2 | 460.8 | 444.0 |
| 120° | 471.9 | 474.2 | 476.5 | 478.7 | 481.0 | 483.4 | 486.2 | 488.8 | 491.5 | 494.2 | 496.0 |
| 122.5° | 502.2 | 504.5 | 506.9 | 509.3 | 511.6 | 514.3 | 517.3 | 520.2 | 523.1 | 526.0 | 527.1 |
| 125° | 548.2 | 550.1 | 552.0 | 554.0 | 555.9 | 558.4 | 561.2 | 564.0 | 566.8 | 569.8 | 570.8 |
| 127.5° | 589.8 | 592.0 | 594.2 | 596.3 | 598.4 | 600.6 | 602.8 | 604.8 | 607.0 | 609.1 | 610.7 |
| 130° | 616.2 | 618.7 | 621.0 | 623.4 | 625.8 | 627.8 | 629.5 | 631.1 | 632.8 | 634.4 | 636.1 |
| 132.5° | 643.2 | 645.3 | 647.3 | 649.3 | 651.4 | 653.2 | 654.9 | 656.5 | 658.2 | 659.8 | 661.2 |
| 135° | 678.3 | 680.7 | 683.1 | 685.5 | 687.9 | 689.8 | 691.1 | 692.4 | 693.8 | 695.1 | 696.6 |
| 137.5° | 713.8 | 715.4 | 717.1 | 718.8 | 720.5 | 722.1 | 723.6 | 725.1 | 726.6 | 728.2 | 729.6 |
| 140° | 737.0 | 738.1 | 739.3 | 740.6 | 741.7 | 743.2 | 744.8 | 746.5 | 748.1 | 749.8 | 751.1 |
| 142.5° | 756.4 | 757.4 | 758.6 | 759.6 | 760.6 | 762.1 | 764.0 | 765.9 | 767.8 | 769.7 | 770.9 |
| 145° | 786.8 | 786.6 | 786.6 | 786.4 | 786.3 | 787.4 | 789.9 | 792.5 | 795.0 | 797.6 | 798.7 |
| 147.5° | 813.4 | 812.8 | 812.3 | 811.7 | 811.2 | 812.1 | 814.6 | 817.1 | 819.6 | 822.2 | 822.9 |
| 150° | 830.7 | 829.6 | 828.6 | 827.6 | 826.4 | 827.2 | 829.5 | 831.9 | 834.3 | 836.7 | 837.6 |
| 152.5° | 845.2 | 844.0 | 842.9 | 841.7 | 840.6 | 841.1 | 843.4 | 845.6 | 847.9 | 850.2 | 851.1 |
| 155° | 866.4 | 865.1 | 863.7 | 862.3 | 861.0 | 861.2 | 863.0 | 864.8 | 866.6 | 868.4 | 869.3 |
| 157.5° | 883.0 | 881.8 | 880.7 | 879.6 | 878.4 | 878.4 | 879.8 | 881.0 | 882.2 | 883.5 | 884.6 |
| 160° | 892.7 | 891.7 | 890.9 | 889.9 | 889.1 | 889.1 | 889.9 | 890.9 | 891.7 | 892.7 | 893.6 |
| 162.5° | 901.4 | 900.4 | 899.6 | 898.6 | 897.7 | 897.7 | 898.4 | 899.2 | 900.0 | 900.8 | 901.8 |
| 165° | 912.9 | 912.0 | 911.2 | 910.2 | 909.3 | 909.1 | 909.6 | 910.0 | 910.4 | 910.9 | 911.9 |
| 167.5° | 921.5 | 920.7 | 919.7 | 918.9 | 917.9 | 917.7 | 918.1 | 918.5 | 919.0 | 919.4 | 920.4 |
| 170° | 926.4 | 925.5 | 924.6 | 923.7 | 922.8 | 922.5 | 922.8 | 923.1 | 923.4 | 923.7 | 924.7 |
| 172.5° | 929.6 | 928.7 | 927.8 | 926.9 | 926.0 | 925.8 | 926.0 | 926.3 | 926.6 | 926.9 | 928.0 |
| 175° | 933.8 | 932.7 | 931.7 | 930.7 | 929.6 | 929.3 | 929.5 | 929.8 | 930.1 | 930.5 | 931.5 |
| 177.5° | 934.5 | 933.7 | 932.8 | 932.0 | 931.1 | 930.8 | 930.9 | 931.0 | 931.1 | 931.2 | 932.1 |
| 180° | 931.8 | 931.8 | 931.8 | 931.8 | 931.8 | 931.8 | 931.8 | 931.8 | 931.8 | 931.8 | 931.8 |



TEST NUMBER: P331660-830

CATALOG NUMBER: SA2XXRDIP-C485D725U830-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 777.8 | 777.8 | 777.8 | 777.8 | 777.8 | 777.8 | 777.8 | 777.8 |
| 2.5° | 774.1 | 775.4 | 776.7 | 777.1 | 776.9 | 776.7 | 776.4 | 776.2 |
| 5° | 768.0 | 769.4 | 770.8 | 771.3 | 770.8 | 770.3 | 769.9 | 769.4 |
| 7.5° | 755.5 | 755.9 | 756.4 | 756.2 | 755.4 | 754.5 | 753.8 | 752.9 |
| 10° | 743.1 | 742.6 | 742.2 | 741.5 | 740.6 | 739.6 | 738.7 | 737.7 |
| 12.5° | 728.9 | 728.0 | 727.2 | 725.9 | 724.3 | 722.8 | 721.2 | 719.7 |
| 15° | 702.2 | 699.3 | 696.3 | 694.0 | 692.4 | 690.9 | 689.3 | 687.8 |
| 17.5° | 672.0 | 668.5 | 665.0 | 661.9 | 659.2 | 656.5 | 653.8 | 651.1 |
| 20° | 651.0 | 647.1 | 643.2 | 639.5 | 636.1 | 632.6 | 629.2 | 625.8 |
| 22.5° | 627.9 | 622.9 | 617.9 | 614.1 | 611.5 | 609.0 | 606.4 | 603.8 |
| 25° | 589.7 | 583.3 | 576.9 | 572.5 | 570.1 | 567.8 | 565.5 | 563.2 |
| 27.5° | 553.3 | 545.7 | 538.3 | 532.7 | 529.0 | 525.3 | 521.5 | 517.8 |
| 30° | 527.4 | 519.5 | 511.5 | 505.4 | 501.1 | 497.0 | 492.8 | 488.5 |
| 32.5° | 501.5 | 492.5 | 483.3 | 476.8 | 472.9 | 468.9 | 464.9 | 460.9 |
| 35° | 461.1 | 451.2 | 441.4 | 434.7 | 431.3 | 427.8 | 424.4 | 420.9 |
| 37.5° | 421.6 | 410.8 | 399.9 | 392.5 | 388.6 | 384.7 | 380.7 | 376.7 |
| 40° | 395.2 | 384.1 | 373.0 | 365.4 | 361.4 | 357.3 | 353.2 | 349.1 |
| 42.5° | 368.5 | 357.0 | 345.6 | 337.9 | 333.9 | 330.0 | 326.0 | 322.1 |
| 45° | 329.7 | 318.7 | 307.6 | 300.1 | 296.3 | 292.6 | 288.8 | 285.1 |
| 47.5° | 292.0 | 281.0 | 269.9 | 262.7 | 259.3 | 255.9 | 252.4 | 249.0 |
| 50° | 267.7 | 256.9 | 246.1 | 239.1 | 235.8 | 232.5 | 229.2 | 225.9 |
| 52.5° | 244.8 | 234.4 | 223.9 | 217.3 | 214.2 | 211.2 | 208.1 | 205.1 |
| 55° | 210.0 | 200.6 | 191.2 | 185.0 | 182.1 | 179.1 | 176.2 | 173.1 |
| 57.5° | 178.3 | 169.8 | 161.2 | 155.6 | 153.1 | 150.6 | 148.1 | 145.5 |
| 60° | 156.5 | 148.5 | 140.5 | 135.3 | 132.8 | 130.3 | 127.8 | 125.3 |
| 62.5° | 137.5 | 130.0 | 122.3 | 117.8 | 116.3 | 114.8 | 113.3 | 111.8 |
| 65° | 111.9 | 106.5 | 101.2 | 98.3 | 97.8 | 97.4 | 96.9 | 96.4 |
| 67.5° | 90.3 | 87.8 | 85.4 | 84.0 | 83.4 | 82.9 | 82.5 | 81.9 |
| 70° | 78.5 | 77.0 | 75.4 | 74.3 | 73.7 | 73.0 | 72.4 | 71.8 |
| 72.5° | 68.3 | 67.0 | 65.7 | 64.8 | 64.5 | 64.1 | 63.7 | 63.3 |
| 75° | 54.1 | 53.1 | 51.9 | 51.3 | 51.2 | 51.0 | 50.8 | 50.7 |
| 77.5° | 41.0 | 40.3 | 39.8 | 39.3 | 39.0 | 38.8 | 38.5 | 38.3 |
| 80° | 32.5 | 32.0 | 31.3 | 31.0 | 31.0 | 31.0 | 31.0 | 31.0 |
| 82.5° | 24.6 | 24.2 | 23.8 | 23.7 | 23.7 | 23.7 | 23.7 | 23.7 |
| 85° | 13.4 | 13.4 | 13.4 | 13.4 | 13.4 | 13.4 | 13.4 | 13.4 |
| 87.5° | 7.3 | 7.3 | 7.3 | 7.4 | 7.4 | 7.4 | 7.5 | 7.5 |
| 90° | 15.0 | 15.7 | 16.5 | 17.0 | 17.3 | 17.6 | 17.9 | 18.2 |
| 92.5° | 16.4 | 16.8 | 17.2 | 17.5 | 17.6 | 17.8 | 18.0 | 18.2 |
| 95° | 27.8 | 28.6 | 29.3 | 29.6 | 29.4 | 29.3 | 29.1 | 29.0 |
| 97.5° | 36.4 | 36.9 | 37.6 | 38.0 | 38.2 | 38.4 | 38.5 | 38.7 |
| 100° | 40.8 | 42.0 | 43.3 | 44.0 | 44.3 | 44.6 | 44.9 | 45.1 |
| 102.5° | 42.6 | 44.2 | 45.7 | 46.8 | 47.1 | 47.6 | 48.0 | 48.4 |
| 105° | 44.4 | 46.1 | 47.7 | 48.8 | 49.5 | 50.0 | 50.6 | 51.3 |
| 107.5° | 54.2 | 52.5 | 50.9 | 50.3 | 50.9 | 51.6 | 52.1 | 52.7 |
| 110° | 88.0 | 73.0 | 58.1 | 50.9 | 51.5 | 52.0 | 52.7 | 53.3 |



TEST NUMBER: P331660-830

CATALOG NUMBER: SA2XXRDIP-C485D725U830-4F0-1E-UDD-F

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 188.3 | 133.7 | 79.0 | 51.8 | 52.4 | 52.9 | 53.3 | 53.8 |
| 115° | 277.3 | 207.9 | 138.6 | 98.4 | 87.7 | 76.8 | 66.1 | 55.3 |
| 117.5° | 427.3 | 410.4 | 393.6 | 367.5 | 332.1 | 296.6 | 261.2 | 225.7 |
| 120° | 497.9 | 499.6 | 501.4 | 492.2 | 471.9 | 451.8 | 431.5 | 411.3 |
| 122.5° | 528.2 | 529.2 | 530.4 | 529.0 | 525.0 | 521.0 | 517.2 | 513.2 |
| 125° | 571.8 | 572.9 | 573.9 | 574.7 | 575.1 | 575.6 | 576.0 | 576.5 |
| 127.5° | 612.2 | 613.7 | 615.2 | 616.0 | 616.1 | 616.2 | 616.3 | 616.4 |
| 130° | 637.7 | 639.4 | 641.0 | 641.8 | 641.7 | 641.5 | 641.3 | 641.2 |
| 132.5° | 662.6 | 664.0 | 665.4 | 666.1 | 665.9 | 665.8 | 665.6 | 665.4 |
| 135° | 698.1 | 699.6 | 701.2 | 701.7 | 701.4 | 701.2 | 700.8 | 700.5 |
| 137.5° | 731.1 | 732.5 | 734.1 | 734.5 | 734.1 | 733.5 | 733.0 | 732.4 |
| 140° | 752.4 | 753.8 | 755.2 | 755.4 | 754.7 | 753.9 | 753.2 | 752.4 |
| 142.5° | 772.1 | 773.4 | 774.6 | 774.9 | 774.1 | 773.4 | 772.6 | 771.8 |
| 145° | 799.7 | 800.8 | 801.8 | 801.9 | 801.3 | 800.5 | 799.7 | 799.0 |
| 147.5° | 823.7 | 824.5 | 825.3 | 825.4 | 824.7 | 824.1 | 823.5 | 822.8 |
| 150° | 838.5 | 839.4 | 840.3 | 840.4 | 839.6 | 838.9 | 838.1 | 837.4 |
| 152.5° | 852.0 | 852.9 | 853.8 | 853.8 | 852.8 | 851.8 | 850.8 | 849.8 |
| 155° | 870.2 | 871.1 | 872.0 | 871.9 | 870.6 | 869.5 | 868.3 | 867.0 |
| 157.5° | 885.5 | 886.6 | 887.6 | 887.5 | 886.4 | 885.1 | 884.0 | 882.9 |
| 160° | 894.5 | 895.4 | 896.3 | 896.2 | 895.1 | 894.1 | 893.1 | 892.0 |
| 162.5° | 902.8 | 903.8 | 904.8 | 904.7 | 903.4 | 902.1 | 900.9 | 899.6 |
| 165° | 912.9 | 914.1 | 915.1 | 915.1 | 914.1 | 912.9 | 911.9 | 910.9 |
| 167.5° | 921.5 | 922.6 | 923.6 | 923.4 | 922.1 | 920.8 | 919.4 | 918.0 |
| 170° | 925.8 | 926.8 | 927.9 | 927.7 | 926.4 | 925.0 | 923.7 | 922.4 |
| 172.5° | 929.1 | 930.1 | 931.1 | 930.9 | 929.6 | 928.3 | 926.9 | 925.6 |
| 175° | 932.6 | 933.6 | 934.6 | 934.4 | 932.9 | 931.4 | 929.9 | 928.4 |
| 177.5° | 932.9 | 933.8 | 934.6 | 934.5 | 933.4 | 932.4 | 931.2 | 930.2 |
| 180° | 931.8 | 931.8 | 931.8 | 931.8 | 931.8 | 931.8 | 931.8 | 931.8 |

(END OF REPORT)