

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: P331673

Luminaire Tested: **SA2XXRDIP-C485D1080U835-4F0-1E-UDD-F1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331673
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C485D1080U835-4F0-1E-UDD-F1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED
HOUSING
UPLIGHT 1080 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

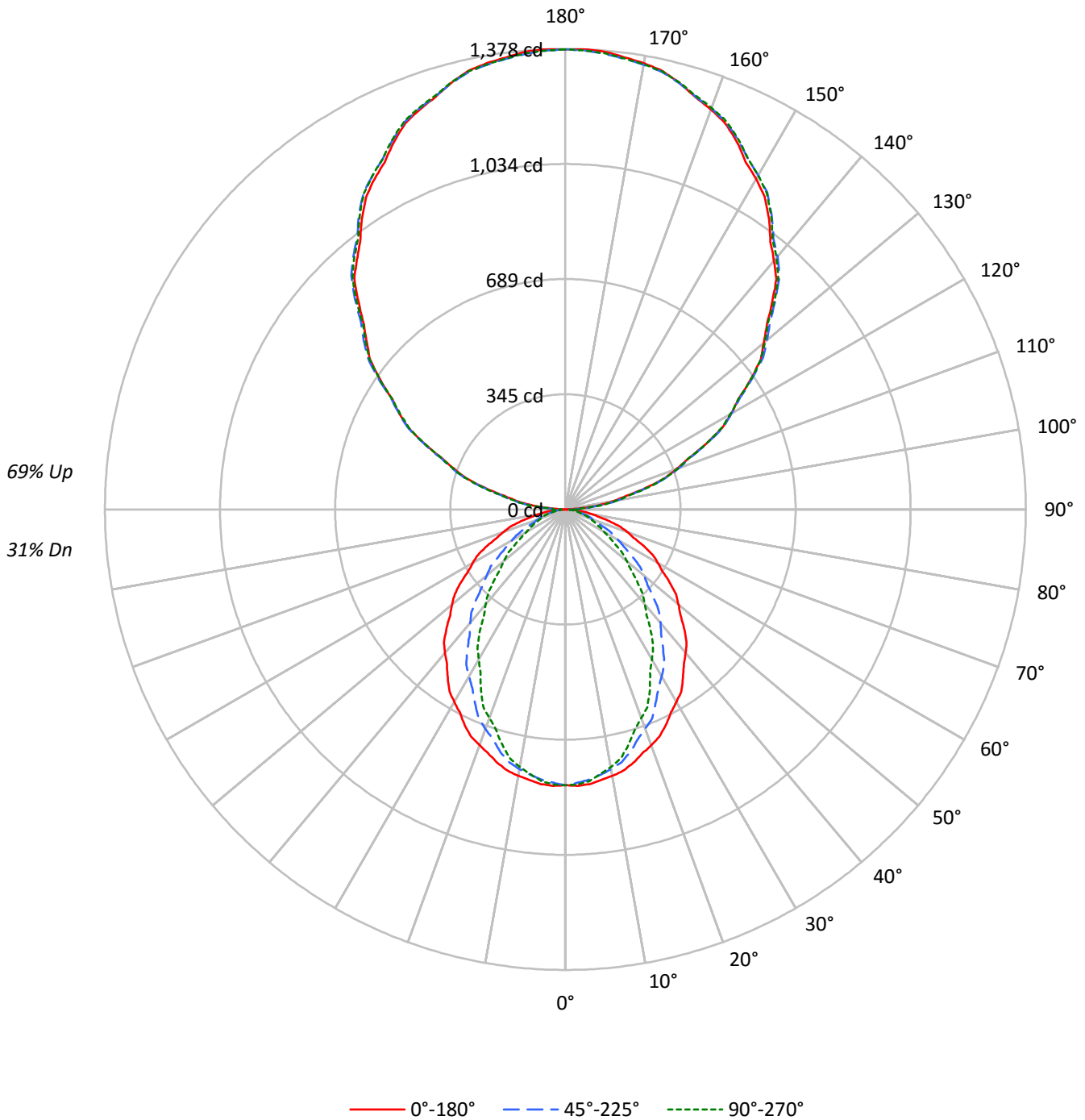
Lumens per Lamp: N/A
Luminaire Lumens: 5551.7 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 49.4
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: P331673
CATALOG NUMBER: SA2XXRDIP-C485D1080U835-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P331673

CATALOG NUMBER: SA2XXRDIP-C485D1080U835-4F0-1E-UDD-F1

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 | 103 | 103 | 103 | 103 | 92 | 92 | 92 | 92 | 73 | 73 | 73 | 55 | 55 | 55 | 38 | 38 | 38 | 31 |
| 1 | 94 | 90 | 86 | 83 | 84 | 81 | 78 | 75 | 64 | 62 | 60 | 48 | 47 | 46 | 34 | 34 | 33 | 26 |
| 2 | 86 | 79 | 73 | 68 | 77 | 71 | 66 | 62 | 56 | 53 | 50 | 43 | 41 | 39 | 31 | 29 | 28 | 23 |
| 3 | 78 | 69 | 62 | 57 | 70 | 63 | 57 | 52 | 50 | 46 | 42 | 38 | 35 | 33 | 27 | 26 | 24 | 19 |
| 4 | 72 | 61 | 54 | 48 | 64 | 56 | 49 | 44 | 44 | 40 | 36 | 34 | 31 | 29 | 25 | 23 | 21 | 17 |
| 5 | 66 | 55 | 47 | 41 | 59 | 50 | 43 | 38 | 40 | 35 | 31 | 31 | 27 | 25 | 22 | 20 | 19 | 15 |
| 6 | 61 | 49 | 41 | 36 | 54 | 45 | 38 | 33 | 36 | 31 | 27 | 28 | 24 | 22 | 20 | 18 | 16 | 13 |
| 7 | 56 | 44 | 37 | 31 | 50 | 40 | 34 | 29 | 33 | 28 | 24 | 25 | 22 | 19 | 19 | 16 | 15 | 12 |
| 8 | 52 | 40 | 33 | 28 | 47 | 37 | 30 | 26 | 30 | 25 | 21 | 23 | 20 | 17 | 17 | 15 | 13 | 11 |
| 9 | 48 | 37 | 29 | 25 | 43 | 33 | 27 | 23 | 27 | 22 | 19 | 21 | 18 | 16 | 16 | 14 | 12 | 10 |
| 10 | 45 | 33 | 27 | 22 | 41 | 31 | 24 | 20 | 25 | 20 | 17 | 20 | 16 | 14 | 15 | 13 | 11 | 9 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 13324 | 13324 | 13324 |
| 5° | 13374 | 13157 | 13230 |
| 10° | 13273 | 12942 | 12832 |
| 15° | 13120 | 12558 | 12197 |
| 20° | 12909 | 12010 | 11407 |
| 25° | 12693 | 11389 | 10644 |
| 30° | 12392 | 10750 | 9663 |
| 35° | 12100 | 10054 | 8803 |
| 40° | 11805 | 9335 | 7807 |
| 45° | 11460 | 8526 | 6907 |
| 50° | 11105 | 7709 | 6021 |
| 55° | 10742 | 6832 | 5171 |
| 60° | 10320 | 5909 | 4292 |
| 65° | 9845 | 4963 | 3908 |
| 70° | 9272 | 4088 | 3597 |
| 75° | 8571 | 3724 | 3356 |
| 80° | 7569 | 3329 | 3059 |
| 85° | 5947 | 2631 | 2631 |



TEST NUMBER: P331673

CATALOG NUMBER: SA2XXRDIP-C485D1080U835-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 77.2 | 1.4 |
| 10°-20° | 212.1 | 3.8 |
| 20°-30° | 297.8 | 5.4 |
| 30°-40° | 324.8 | 5.9 |
| 40°-50° | 298.6 | 5.4 |
| 50°-60° | 234.5 | 4.2 |
| 60°-70° | 152.9 | 2.8 |
| 70°-80° | 78.8 | 1.4 |
| 80°-90° | 26.0 | 0.5 |
| 90°-100° | 87.2 | 1.6 |
| 100°-110° | 270.9 | 4.9 |
| 110°-120° | 463.1 | 8.3 |
| 120°-130° | 608.9 | 11.0 |
| 130°-140° | 683.5 | 12.3 |
| 140°-150° | 670.1 | 12.1 |
| 150°-160° | 562.1 | 10.1 |
| 160°-170° | 372.8 | 6.7 |
| 170°-180° | 130.3 | 2.3 |
| 0°-30° | 587.2 | 10.6 |
| 0°-40° | 912.0 | 16.4 |
| 0°-60° | 1445.1 | 26.0 |
| 0°-90° | 1702.8 | 30.7 |
| 90°-120° | 821.2 | 14.8 |
| 90°-150° | 2783.7 | 50.1 |
| 90°-180° | 3849.0 | 69.3 |
| 0°-180° | 5551.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 825 | 825 | 825 | 825 | 825 | |
| 5° | 825 | 821 | 812 | 818 | 816 | 78 |
| 15° | 785 | 776 | 751 | 738 | 730 | 221 |
| 25° | 712 | 687 | 639 | 610 | 598 | 327 |
| 35° | 614 | 574 | 510 | 465 | 447 | 384 |
| 45° | 502 | 450 | 373 | 322 | 302 | 387 |
| 55° | 382 | 322 | 243 | 200 | 184 | 341 |
| 65° | 258 | 197 | 130 | 106 | 102 | 255 |
| 75° | 137 | 87 | 60 | 55 | 54 | 145 |
| 85° | 32 | 17 | 14 | 14 | 14 | 38 |
| 90° | 1 | 16 | 41 | 39 | 40 | 5 |
| 95° | 60 | 72 | 74 | 74 | 72 | 69 |
| 105° | 250 | 253 | 256 | 258 | 258 | 264 |
| 115° | 465 | 471 | 469 | 468 | 465 | 459 |
| 125° | 676 | 686 | 683 | 680 | 678 | 604 |
| 135° | 875 | 887 | 890 | 888 | 885 | 675 |
| 145° | 1062 | 1070 | 1077 | 1078 | 1073 | 663 |
| 155° | 1214 | 1217 | 1221 | 1226 | 1223 | 558 |
| 165° | 1321 | 1320 | 1320 | 1327 | 1322 | 372 |
| 175° | 1374 | 1371 | 1368 | 1376 | 1370 | 130 |
| 180° | 1376 | 1376 | 1376 | 1376 | 1376 | |



TEST NUMBER: P331673

CATALOG NUMBER: SA2XXRDIP-C485D1080U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 825.2 | 825.2 | 825.2 | 825.2 | 825.2 | 825.2 | 825.2 | 825.2 | 825.2 | 825.2 | 825.2 |
| 2.5° | 828.2 | 827.6 | 826.9 | 826.2 | 825.6 | 824.5 | 823.1 | 821.6 | 820.1 | 818.7 | 820.0 |
| 5° | 825.2 | 824.4 | 823.6 | 822.8 | 821.9 | 820.4 | 818.3 | 816.1 | 814.0 | 811.8 | 813.3 |
| 7.5° | 816.7 | 815.7 | 814.7 | 813.6 | 812.6 | 810.8 | 808.3 | 805.8 | 803.3 | 800.8 | 801.2 |
| 10° | 809.6 | 808.4 | 807.2 | 806.1 | 804.9 | 802.7 | 799.4 | 796.0 | 792.7 | 789.4 | 788.9 |
| 12.5° | 800.6 | 799.2 | 797.7 | 796.3 | 794.9 | 792.1 | 787.8 | 783.6 | 779.3 | 775.1 | 774.2 |
| 15° | 784.9 | 783.1 | 781.3 | 779.4 | 777.6 | 773.9 | 768.2 | 762.6 | 757.0 | 751.3 | 748.2 |
| 17.5° | 765.7 | 762.9 | 760.1 | 757.3 | 754.5 | 749.5 | 742.3 | 735.0 | 727.8 | 720.5 | 716.8 |
| 20° | 751.3 | 748.0 | 744.7 | 741.4 | 738.0 | 732.2 | 723.9 | 715.6 | 707.3 | 699.0 | 694.9 |
| 22.5° | 735.8 | 732.1 | 728.3 | 724.6 | 720.9 | 714.4 | 705.0 | 695.6 | 686.3 | 676.9 | 671.6 |
| 25° | 712.5 | 707.2 | 701.9 | 696.5 | 691.2 | 683.1 | 672.1 | 661.2 | 650.2 | 639.3 | 632.5 |
| 27.5° | 684.4 | 678.6 | 672.8 | 667.1 | 661.3 | 652.2 | 639.9 | 627.5 | 615.2 | 602.8 | 594.9 |
| 30° | 664.7 | 658.4 | 652.1 | 645.8 | 639.5 | 629.7 | 616.4 | 603.1 | 589.8 | 576.6 | 568.1 |
| 32.5° | 645.6 | 638.2 | 630.8 | 623.5 | 616.1 | 605.6 | 592.1 | 578.5 | 565.0 | 551.5 | 541.8 |
| 35° | 613.9 | 605.4 | 597.0 | 588.5 | 580.0 | 568.5 | 553.9 | 539.3 | 524.7 | 510.1 | 499.6 |
| 37.5° | 582.2 | 572.9 | 563.6 | 554.3 | 545.1 | 532.6 | 517.1 | 501.5 | 485.9 | 470.4 | 458.8 |
| 40° | 560.1 | 550.2 | 540.2 | 530.3 | 520.3 | 507.3 | 491.2 | 475.1 | 459.0 | 442.9 | 431.1 |
| 42.5° | 537.4 | 526.9 | 516.4 | 506.0 | 495.5 | 481.9 | 465.3 | 448.6 | 432.0 | 415.4 | 403.2 |
| 45° | 501.9 | 490.8 | 479.6 | 468.5 | 457.4 | 443.1 | 425.7 | 408.3 | 390.8 | 373.4 | 361.6 |
| 47.5° | 467.2 | 455.4 | 443.7 | 431.9 | 420.1 | 405.2 | 387.2 | 369.2 | 351.2 | 333.2 | 321.5 |
| 50° | 442.1 | 430.3 | 418.6 | 406.8 | 395.0 | 380.0 | 361.7 | 343.5 | 325.2 | 306.9 | 295.5 |
| 52.5° | 417.6 | 405.3 | 393.0 | 380.7 | 368.4 | 353.3 | 335.4 | 317.6 | 299.7 | 281.9 | 270.8 |
| 55° | 381.6 | 368.7 | 355.7 | 342.8 | 329.9 | 314.4 | 296.5 | 278.6 | 260.6 | 242.7 | 232.8 |
| 57.5° | 344.7 | 331.5 | 318.2 | 304.9 | 291.6 | 276.4 | 259.2 | 241.9 | 224.7 | 207.5 | 198.3 |
| 60° | 319.6 | 306.4 | 293.1 | 279.8 | 266.5 | 251.4 | 234.3 | 217.2 | 200.1 | 183.0 | 174.5 |
| 62.5° | 295.1 | 281.9 | 268.6 | 255.3 | 242.0 | 227.3 | 211.0 | 194.7 | 178.4 | 162.1 | 154.0 |
| 65° | 257.7 | 244.2 | 230.8 | 217.3 | 203.9 | 189.7 | 174.8 | 159.8 | 144.9 | 129.9 | 124.3 |
| 67.5° | 221.5 | 208.2 | 194.8 | 181.5 | 168.1 | 154.7 | 141.3 | 127.9 | 114.4 | 101.0 | 98.4 |
| 70° | 196.4 | 183.5 | 170.5 | 157.6 | 144.6 | 132.4 | 121.0 | 109.5 | 98.1 | 86.6 | 85.0 |
| 72.5° | 172.5 | 160.1 | 147.7 | 135.3 | 122.9 | 112.1 | 102.9 | 93.7 | 84.5 | 75.3 | 73.9 |
| 75° | 137.4 | 125.8 | 114.2 | 102.6 | 90.9 | 82.3 | 76.7 | 71.0 | 65.4 | 59.7 | 58.6 |
| 77.5° | 102.9 | 92.7 | 82.5 | 72.3 | 62.2 | 55.7 | 53.0 | 50.3 | 47.5 | 44.8 | 44.1 |
| 80° | 81.4 | 72.9 | 64.5 | 56.0 | 47.5 | 42.5 | 40.8 | 39.2 | 37.5 | 35.8 | 35.2 |
| 82.5° | 61.7 | 55.1 | 48.5 | 41.9 | 35.3 | 31.4 | 30.3 | 29.1 | 28.0 | 26.9 | 26.5 |
| 85° | 32.1 | 28.6 | 25.1 | 21.7 | 18.2 | 16.2 | 15.7 | 15.2 | 14.7 | 14.2 | 14.2 |
| 87.5° | 9.8 | 9.3 | 8.9 | 8.5 | 8.0 | 8.4 | 9.5 | 10.6 | 11.8 | 12.9 | 12.7 |
| 90° | 1.2 | 4.3 | 7.4 | 10.5 | 13.6 | 17.9 | 23.6 | 29.3 | 35.0 | 40.7 | 40.1 |
| 92.5° | 20.7 | 22.9 | 25.2 | 27.5 | 29.8 | 31.6 | 32.9 | 34.3 | 35.6 | 36.9 | 37.0 |
| 95° | 60.4 | 63.0 | 65.6 | 68.1 | 70.7 | 72.3 | 72.8 | 73.3 | 73.8 | 74.3 | 74.3 |
| 97.5° | 110.4 | 112.6 | 114.9 | 117.2 | 119.4 | 121.1 | 122.0 | 123.0 | 124.0 | 125.0 | 125.0 |
| 100° | 147.5 | 149.6 | 151.7 | 153.7 | 155.8 | 157.2 | 158.0 | 158.7 | 159.5 | 160.3 | 160.3 |
| 102.5° | 186.6 | 188.2 | 189.9 | 191.5 | 193.2 | 194.5 | 195.5 | 196.4 | 197.4 | 198.4 | 198.6 |
| 105° | 249.7 | 250.5 | 251.3 | 252.1 | 252.8 | 253.5 | 254.0 | 254.5 | 255.0 | 255.5 | 256.1 |
| 107.5° | 313.4 | 314.5 | 315.7 | 316.8 | 317.9 | 318.5 | 318.5 | 318.5 | 318.5 | 318.5 | 318.7 |
| 110° | 354.3 | 355.8 | 357.4 | 358.9 | 360.5 | 361.3 | 361.3 | 361.3 | 361.3 | 361.3 | 361.3 |



TEST NUMBER: P331673

CATALOG NUMBER: SA2XXRDIP-C485D1080U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 398.9 | 400.4 | 402.0 | 403.5 | 405.1 | 405.8 | 405.5 | 405.3 | 405.1 | 404.9 | 404.3 |
| 115° | 464.6 | 466.2 | 467.7 | 469.3 | 470.8 | 471.3 | 470.8 | 470.3 | 469.8 | 469.3 | 469.0 |
| 117.5° | 530.1 | 532.2 | 534.3 | 536.3 | 538.4 | 538.7 | 537.3 | 535.8 | 534.4 | 532.9 | 532.3 |
| 120° | 573.8 | 575.9 | 578.0 | 580.0 | 582.1 | 582.1 | 580.0 | 578.0 | 575.9 | 573.8 | 573.8 |
| 122.5° | 613.8 | 616.3 | 618.7 | 621.2 | 623.7 | 624.2 | 622.8 | 621.3 | 619.9 | 618.4 | 617.8 |
| 125° | 676.0 | 678.4 | 680.7 | 683.0 | 685.3 | 686.1 | 685.3 | 684.6 | 683.8 | 683.0 | 682.2 |
| 127.5° | 736.7 | 739.6 | 742.6 | 745.5 | 748.4 | 749.5 | 748.5 | 747.6 | 746.7 | 745.7 | 744.8 |
| 130° | 774.8 | 778.1 | 781.5 | 784.8 | 788.2 | 789.6 | 789.1 | 788.6 | 788.1 | 787.6 | 787.0 |
| 132.5° | 817.5 | 820.3 | 823.0 | 825.7 | 828.5 | 829.9 | 830.0 | 830.1 | 830.2 | 830.3 | 829.2 |
| 135° | 874.7 | 877.5 | 880.4 | 883.2 | 886.0 | 887.7 | 888.2 | 888.7 | 889.3 | 889.8 | 889.5 |
| 137.5° | 934.8 | 937.2 | 939.5 | 941.8 | 944.1 | 945.6 | 946.3 | 947.0 | 947.6 | 948.3 | 948.1 |
| 140° | 971.1 | 973.4 | 975.7 | 978.1 | 980.4 | 982.2 | 983.5 | 984.8 | 986.1 | 987.3 | 987.3 |
| 142.5° | 1008.3 | 1010.6 | 1012.9 | 1015.2 | 1017.5 | 1019.1 | 1020.0 | 1020.9 | 1021.8 | 1022.7 | 1022.9 |
| 145° | 1061.7 | 1063.5 | 1065.3 | 1067.1 | 1068.9 | 1070.6 | 1072.1 | 1073.7 | 1075.2 | 1076.8 | 1077.0 |
| 147.5° | 1109.3 | 1111.5 | 1113.6 | 1115.8 | 1118.0 | 1119.6 | 1120.6 | 1121.7 | 1122.7 | 1123.7 | 1124.3 |
| 150° | 1141.8 | 1143.4 | 1144.9 | 1146.5 | 1148.0 | 1149.3 | 1150.4 | 1151.4 | 1152.4 | 1153.5 | 1154.2 |
| 152.5° | 1170.6 | 1172.2 | 1173.7 | 1175.3 | 1176.8 | 1178.2 | 1179.5 | 1180.7 | 1182.0 | 1183.2 | 1184.2 |
| 155° | 1213.9 | 1214.6 | 1215.4 | 1216.2 | 1217.0 | 1217.7 | 1218.5 | 1219.3 | 1220.1 | 1220.8 | 1222.1 |
| 157.5° | 1250.8 | 1251.3 | 1251.8 | 1252.3 | 1252.9 | 1253.3 | 1253.8 | 1254.3 | 1254.7 | 1255.2 | 1257.0 |
| 160° | 1273.1 | 1273.6 | 1274.1 | 1274.6 | 1275.2 | 1275.5 | 1275.8 | 1276.1 | 1276.3 | 1276.6 | 1278.1 |
| 162.5° | 1293.5 | 1293.6 | 1293.7 | 1293.8 | 1294.0 | 1294.1 | 1294.4 | 1294.6 | 1294.9 | 1295.2 | 1296.9 |
| 165° | 1320.7 | 1320.5 | 1320.2 | 1319.9 | 1319.7 | 1319.6 | 1319.6 | 1319.6 | 1319.6 | 1319.6 | 1321.4 |
| 167.5° | 1343.5 | 1342.7 | 1341.9 | 1341.2 | 1340.4 | 1340.0 | 1339.9 | 1339.9 | 1339.8 | 1339.8 | 1341.6 |
| 170° | 1355.6 | 1354.8 | 1354.0 | 1353.2 | 1352.5 | 1352.0 | 1351.7 | 1351.4 | 1351.2 | 1350.9 | 1352.7 |
| 172.5° | 1363.9 | 1363.2 | 1362.4 | 1361.6 | 1360.8 | 1360.3 | 1360.1 | 1359.8 | 1359.5 | 1359.3 | 1361.1 |
| 175° | 1374.2 | 1373.4 | 1372.6 | 1371.8 | 1371.1 | 1370.4 | 1369.9 | 1369.4 | 1368.9 | 1368.3 | 1370.2 |
| 177.5° | 1378.3 | 1377.7 | 1377.1 | 1376.5 | 1375.9 | 1375.3 | 1374.9 | 1374.5 | 1374.1 | 1373.7 | 1374.9 |
| 180° | 1376.5 | 1376.5 | 1376.5 | 1376.5 | 1376.5 | 1376.5 | 1376.5 | 1376.5 | 1376.5 | 1376.5 | 1376.5 |



TEST NUMBER: P331673

CATALOG NUMBER: SA2XXRDIP-C485D1080U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 825.2 | 825.2 | 825.2 | 825.2 | 825.2 | 825.2 | 825.2 | 825.2 |
| 2.5° | 821.3 | 822.7 | 824.0 | 824.5 | 824.3 | 824.0 | 823.7 | 823.5 |
| 5° | 814.8 | 816.3 | 817.8 | 818.3 | 817.8 | 817.3 | 816.8 | 816.3 |
| 7.5° | 801.6 | 802.0 | 802.5 | 802.3 | 801.4 | 800.5 | 799.7 | 798.8 |
| 10° | 788.4 | 787.9 | 787.4 | 786.7 | 785.7 | 784.7 | 783.7 | 782.7 |
| 12.5° | 773.3 | 772.4 | 771.5 | 770.2 | 768.5 | 766.9 | 765.2 | 763.6 |
| 15° | 745.0 | 741.9 | 738.7 | 736.3 | 734.6 | 733.0 | 731.3 | 729.7 |
| 17.5° | 713.0 | 709.3 | 705.5 | 702.2 | 699.4 | 696.5 | 693.7 | 690.8 |
| 20° | 690.7 | 686.6 | 682.4 | 678.5 | 674.9 | 671.2 | 667.6 | 663.9 |
| 22.5° | 666.2 | 660.9 | 655.6 | 651.5 | 648.8 | 646.1 | 643.4 | 640.6 |
| 25° | 625.7 | 618.9 | 612.1 | 607.4 | 604.9 | 602.4 | 600.0 | 597.5 |
| 27.5° | 587.0 | 579.0 | 571.1 | 565.2 | 561.2 | 557.3 | 553.3 | 549.4 |
| 30° | 559.6 | 551.2 | 542.7 | 536.2 | 531.7 | 527.3 | 522.8 | 518.3 |
| 32.5° | 532.1 | 522.5 | 512.8 | 505.9 | 501.7 | 497.5 | 493.2 | 489.0 |
| 35° | 489.2 | 478.7 | 468.3 | 461.2 | 457.6 | 453.9 | 450.3 | 446.6 |
| 37.5° | 447.3 | 435.8 | 424.3 | 416.4 | 412.3 | 408.1 | 403.9 | 399.7 |
| 40° | 419.3 | 407.5 | 395.7 | 387.7 | 383.4 | 379.1 | 374.7 | 370.4 |
| 42.5° | 391.0 | 378.8 | 366.7 | 358.5 | 354.3 | 350.1 | 345.9 | 341.7 |
| 45° | 349.8 | 338.1 | 326.3 | 318.4 | 314.4 | 310.4 | 306.4 | 302.5 |
| 47.5° | 309.8 | 298.1 | 286.4 | 278.7 | 275.1 | 271.5 | 267.8 | 264.2 |
| 50° | 284.0 | 272.6 | 261.1 | 253.7 | 250.2 | 246.7 | 243.2 | 239.7 |
| 52.5° | 259.7 | 248.7 | 237.6 | 230.5 | 227.3 | 224.1 | 220.8 | 217.6 |
| 55° | 222.8 | 212.8 | 202.9 | 196.3 | 193.2 | 190.0 | 186.9 | 183.7 |
| 57.5° | 189.2 | 180.1 | 171.0 | 165.1 | 162.4 | 159.8 | 157.1 | 154.4 |
| 60° | 166.0 | 157.6 | 149.1 | 143.6 | 140.9 | 138.2 | 135.6 | 132.9 |
| 62.5° | 145.9 | 137.9 | 129.8 | 125.0 | 123.4 | 121.8 | 120.2 | 118.6 |
| 65° | 118.7 | 113.0 | 107.4 | 104.3 | 103.8 | 103.3 | 102.8 | 102.3 |
| 67.5° | 95.8 | 93.2 | 90.6 | 89.1 | 88.5 | 88.0 | 87.5 | 86.9 |
| 70° | 83.3 | 81.7 | 80.0 | 78.8 | 78.2 | 77.5 | 76.8 | 76.2 |
| 72.5° | 72.5 | 71.1 | 69.7 | 68.8 | 68.4 | 68.0 | 67.6 | 67.2 |
| 75° | 57.4 | 56.3 | 55.1 | 54.4 | 54.3 | 54.1 | 53.9 | 53.8 |
| 77.5° | 43.5 | 42.8 | 42.2 | 41.7 | 41.4 | 41.2 | 40.9 | 40.6 |
| 80° | 34.5 | 33.9 | 33.2 | 32.9 | 32.9 | 32.9 | 32.9 | 32.9 |
| 82.5° | 26.1 | 25.7 | 25.3 | 25.1 | 25.1 | 25.1 | 25.1 | 25.1 |
| 85° | 14.2 | 14.2 | 14.2 | 14.2 | 14.2 | 14.2 | 14.2 | 14.2 |
| 87.5° | 12.4 | 12.2 | 12.0 | 11.9 | 11.9 | 12.0 | 12.0 | 12.1 |
| 90° | 39.6 | 39.1 | 38.6 | 38.5 | 38.7 | 39.0 | 39.2 | 39.5 |
| 92.5° | 37.1 | 37.2 | 37.4 | 37.4 | 37.5 | 37.5 | 37.6 | 37.6 |
| 95° | 74.3 | 74.3 | 74.3 | 74.1 | 73.6 | 73.1 | 72.5 | 72.0 |
| 97.5° | 125.0 | 125.0 | 125.0 | 125.0 | 124.9 | 124.9 | 124.8 | 124.8 |
| 100° | 160.3 | 160.3 | 160.3 | 160.2 | 159.9 | 159.7 | 159.4 | 159.1 |
| 102.5° | 198.8 | 199.0 | 199.2 | 199.2 | 198.9 | 198.7 | 198.4 | 198.2 |
| 105° | 256.6 | 257.1 | 257.6 | 257.9 | 257.9 | 257.9 | 257.9 | 257.9 |
| 107.5° | 318.9 | 319.1 | 319.3 | 318.8 | 317.7 | 316.5 | 315.3 | 314.1 |
| 110° | 361.3 | 361.3 | 361.3 | 360.9 | 360.1 | 359.3 | 358.5 | 357.8 |



TEST NUMBER: P331673

CATALOG NUMBER: SA2XXRDIP-C485D1080U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 403.7 | 403.1 | 402.5 | 401.9 | 401.3 | 400.7 | 400.2 | 399.6 |
| 115° | 468.8 | 468.5 | 468.2 | 467.7 | 467.0 | 466.2 | 465.4 | 464.6 |
| 117.5° | 531.7 | 531.1 | 530.5 | 529.8 | 529.0 | 528.2 | 527.4 | 526.7 |
| 120° | 573.8 | 573.8 | 573.8 | 573.4 | 572.7 | 571.9 | 571.1 | 570.3 |
| 122.5° | 617.2 | 616.6 | 615.9 | 615.4 | 614.8 | 614.2 | 613.7 | 613.1 |
| 125° | 681.5 | 680.7 | 679.9 | 679.4 | 679.1 | 678.9 | 678.6 | 678.4 |
| 127.5° | 743.9 | 742.9 | 742.0 | 741.1 | 740.3 | 739.5 | 738.7 | 737.8 |
| 130° | 786.5 | 786.0 | 785.5 | 784.7 | 783.7 | 782.6 | 781.6 | 780.6 |
| 132.5° | 828.0 | 826.9 | 825.8 | 824.8 | 824.0 | 823.1 | 822.3 | 821.5 |
| 135° | 889.3 | 889.0 | 888.7 | 888.2 | 887.4 | 886.7 | 885.9 | 885.1 |
| 137.5° | 947.9 | 947.7 | 947.5 | 946.9 | 945.8 | 944.8 | 943.8 | 942.7 |
| 140° | 987.3 | 987.3 | 987.3 | 986.8 | 985.8 | 984.8 | 983.7 | 982.7 |
| 142.5° | 1023.1 | 1023.3 | 1023.5 | 1023.1 | 1022.0 | 1021.0 | 1020.0 | 1018.9 |
| 145° | 1077.3 | 1077.6 | 1077.8 | 1077.4 | 1076.4 | 1075.4 | 1074.3 | 1073.3 |
| 147.5° | 1124.9 | 1125.4 | 1126.0 | 1125.8 | 1124.8 | 1123.8 | 1122.8 | 1121.9 |
| 150° | 1155.0 | 1155.8 | 1156.6 | 1156.6 | 1155.8 | 1155.0 | 1154.2 | 1153.5 |
| 152.5° | 1185.2 | 1186.1 | 1187.1 | 1187.1 | 1186.1 | 1185.2 | 1184.2 | 1183.2 |
| 155° | 1223.4 | 1224.7 | 1226.0 | 1226.2 | 1225.5 | 1224.7 | 1223.9 | 1223.1 |
| 157.5° | 1258.7 | 1260.5 | 1262.2 | 1262.5 | 1261.2 | 1260.0 | 1258.8 | 1257.5 |
| 160° | 1279.7 | 1281.2 | 1282.8 | 1283.0 | 1282.0 | 1281.0 | 1279.9 | 1278.9 |
| 162.5° | 1298.7 | 1300.4 | 1302.2 | 1302.4 | 1301.2 | 1300.0 | 1298.7 | 1297.5 |
| 165° | 1323.2 | 1325.0 | 1326.8 | 1327.0 | 1325.8 | 1324.5 | 1323.2 | 1321.9 |
| 167.5° | 1343.4 | 1345.2 | 1347.0 | 1347.2 | 1345.9 | 1344.5 | 1343.2 | 1341.9 |
| 170° | 1354.5 | 1356.3 | 1358.1 | 1358.3 | 1356.7 | 1355.2 | 1353.6 | 1352.1 |
| 172.5° | 1362.9 | 1364.7 | 1366.5 | 1366.6 | 1365.1 | 1363.5 | 1362.0 | 1360.4 |
| 175° | 1372.0 | 1373.8 | 1375.6 | 1375.7 | 1374.2 | 1372.6 | 1371.1 | 1369.5 |
| 177.5° | 1376.2 | 1377.4 | 1378.6 | 1378.6 | 1377.4 | 1376.2 | 1374.9 | 1373.7 |
| 180° | 1376.5 | 1376.5 | 1376.5 | 1376.5 | 1376.5 | 1376.5 | 1376.5 | 1376.5 |

(END OF REPORT)