

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: P331673-840

Luminaire Tested: **SA2XXRDIP-C485D1080U840-4F0-1E-UDD-F1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331673-840
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-C485D1080U840-4F0-1E-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: 5606.5 lumens
Efficiency: N/A
Efficacy: 113.5 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

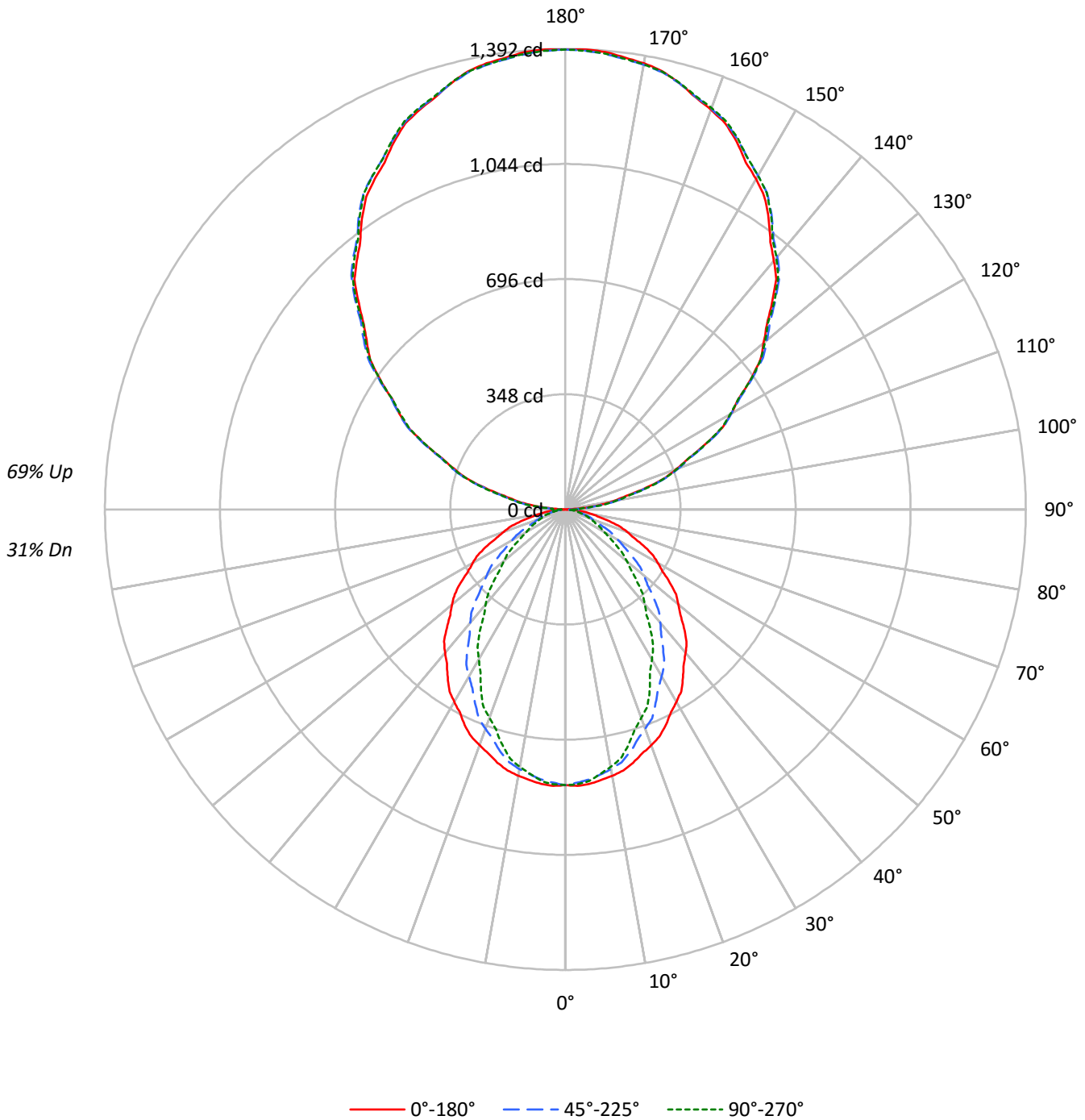
Input Watts (W): 49.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331673-840

CATALOG NUMBER: SA2XXRDIP-C485D1080U840-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P331673-840

CATALOG NUMBER: SA2XXRDIP-C485D1080U840-4F0-1E-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° | 13454 | 13454 | 13454 |
| 5° | 13506 | 13287 | 13361 |
| 10° | 13404 | 13070 | 12959 |
| 15° | 13249 | 12682 | 12318 |
| 20° | 13036 | 12129 | 11519 |
| 25° | 12818 | 11501 | 10750 |
| 30° | 12515 | 10856 | 9758 |
| 35° | 12220 | 10153 | 8889 |
| 40° | 11921 | 9428 | 7885 |
| 45° | 11574 | 8611 | 6976 |
| 50° | 11215 | 7784 | 6081 |
| 55° | 10849 | 6899 | 5222 |
| 60° | 10424 | 5968 | 4334 |
| 65° | 9941 | 5012 | 3947 |
| 70° | 9361 | 4131 | 3635 |
| 75° | 8659 | 3762 | 3387 |
| 80° | 7643 | 3366 | 3087 |
| 85° | 6002 | 2649 | 2649 |



TEST NUMBER: P331673-840

CATALOG NUMBER: SA2XXRDIP-C485D1080U840-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 78.0 | 1.4 |
| 10°-20° | 214.2 | 3.8 |
| 20°-30° | 300.8 | 5.4 |
| 30°-40° | 328.0 | 5.9 |
| 40°-50° | 301.6 | 5.4 |
| 50°-60° | 236.8 | 4.2 |
| 60°-70° | 154.4 | 2.8 |
| 70°-80° | 79.6 | 1.4 |
| 80°-90° | 26.2 | 0.5 |
| 90°-100° | 88.1 | 1.6 |
| 100°-110° | 273.6 | 4.9 |
| 110°-120° | 467.6 | 8.3 |
| 120°-130° | 614.9 | 11.0 |
| 130°-140° | 690.2 | 12.3 |
| 140°-150° | 676.7 | 12.1 |
| 150°-160° | 567.6 | 10.1 |
| 160°-170° | 376.5 | 6.7 |
| 170°-180° | 131.6 | 2.3 |
| 0°-30° | 593.0 | 10.6 |
| 0°-40° | 921.0 | 16.4 |
| 0°-60° | 1459.4 | 26.0 |
| 0°-90° | 1719.6 | 30.7 |
| 90°-120° | 829.3 | 14.8 |
| 90°-150° | 2811.1 | 50.1 |
| 90°-180° | 3887.0 | 69.3 |
| 0°-180° | 5606.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 833 | 833 | 833 | 833 | 833 | |
| 5° | 833 | 829 | 820 | 826 | 824 | 79 |
| 15° | 793 | 783 | 759 | 745 | 737 | 223 |
| 25° | 720 | 694 | 646 | 616 | 603 | 331 |
| 35° | 620 | 580 | 515 | 469 | 451 | 388 |
| 45° | 507 | 455 | 377 | 326 | 306 | 391 |
| 55° | 385 | 325 | 245 | 202 | 186 | 344 |
| 65° | 260 | 199 | 131 | 107 | 103 | 258 |
| 75° | 139 | 87 | 60 | 55 | 54 | 147 |
| 85° | 32 | 17 | 14 | 14 | 14 | 38 |
| 90° | 1 | 16 | 41 | 39 | 40 | 5 |
| 95° | 61 | 72 | 75 | 75 | 73 | 70 |
| 105° | 252 | 256 | 258 | 260 | 260 | 266 |
| 115° | 469 | 476 | 474 | 473 | 469 | 464 |
| 125° | 683 | 692 | 690 | 686 | 685 | 610 |
| 135° | 883 | 896 | 899 | 897 | 894 | 682 |
| 145° | 1072 | 1080 | 1087 | 1088 | 1084 | 670 |
| 155° | 1226 | 1229 | 1233 | 1238 | 1235 | 564 |
| 165° | 1334 | 1333 | 1333 | 1340 | 1335 | 376 |
| 175° | 1388 | 1384 | 1382 | 1389 | 1383 | 132 |
| 180° | 1390 | 1390 | 1390 | 1390 | 1390 | |



TEST NUMBER: P331673-840

CATALOG NUMBER: SA2XXRDIP-C485D1080U840-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 833.3 | 833.3 | 833.3 | 833.3 | 833.3 | 833.3 | 833.3 | 833.3 | 833.3 | 833.3 | 833.3 |
| 2.5° | 836.4 | 835.8 | 835.1 | 834.4 | 833.7 | 832.6 | 831.2 | 829.7 | 828.2 | 826.8 | 828.1 |
| 5° | 833.3 | 832.5 | 831.7 | 830.9 | 830.0 | 828.5 | 826.4 | 824.2 | 822.0 | 819.8 | 821.3 |
| 7.5° | 824.8 | 823.7 | 822.7 | 821.6 | 820.6 | 818.8 | 816.3 | 813.7 | 811.2 | 808.7 | 809.1 |
| 10° | 817.6 | 816.4 | 815.2 | 814.1 | 812.8 | 810.6 | 807.3 | 803.9 | 800.5 | 797.2 | 796.7 |
| 12.5° | 808.5 | 807.1 | 805.6 | 804.2 | 802.7 | 799.9 | 795.6 | 791.3 | 787.0 | 782.7 | 781.8 |
| 15° | 792.6 | 790.8 | 789.0 | 787.1 | 785.3 | 781.5 | 775.8 | 770.1 | 764.5 | 758.7 | 755.6 |
| 17.5° | 773.3 | 770.4 | 767.6 | 764.8 | 761.9 | 756.9 | 749.6 | 742.3 | 735.0 | 727.6 | 723.9 |
| 20° | 758.7 | 755.4 | 752.0 | 748.7 | 745.3 | 739.4 | 731.0 | 722.7 | 714.3 | 705.9 | 701.8 |
| 22.5° | 743.1 | 739.3 | 735.5 | 731.7 | 728.0 | 721.4 | 712.0 | 702.5 | 693.1 | 683.6 | 678.2 |
| 25° | 719.5 | 714.2 | 708.8 | 703.4 | 698.0 | 689.8 | 678.7 | 667.7 | 656.6 | 645.6 | 638.7 |
| 27.5° | 691.2 | 685.3 | 679.4 | 673.7 | 667.8 | 658.6 | 646.2 | 633.7 | 621.3 | 608.7 | 600.8 |
| 30° | 671.3 | 664.9 | 658.5 | 652.2 | 645.8 | 635.9 | 622.5 | 609.0 | 595.6 | 582.3 | 573.7 |
| 32.5° | 652.0 | 644.5 | 637.0 | 629.7 | 622.2 | 611.6 | 597.9 | 584.2 | 570.6 | 556.9 | 547.1 |
| 35° | 620.0 | 611.4 | 602.9 | 594.3 | 585.7 | 574.1 | 559.4 | 544.6 | 529.9 | 515.1 | 504.5 |
| 37.5° | 587.9 | 578.6 | 569.2 | 559.8 | 550.5 | 537.9 | 522.2 | 506.4 | 490.7 | 475.0 | 463.3 |
| 40° | 565.6 | 555.6 | 545.5 | 535.5 | 525.4 | 512.3 | 496.0 | 479.8 | 463.5 | 447.3 | 435.4 |
| 42.5° | 542.7 | 532.1 | 521.5 | 511.0 | 500.4 | 486.7 | 469.9 | 453.0 | 436.3 | 419.5 | 407.2 |
| 45° | 506.9 | 495.6 | 484.3 | 473.1 | 461.9 | 447.5 | 429.9 | 412.3 | 394.7 | 377.1 | 365.2 |
| 47.5° | 471.8 | 459.9 | 448.1 | 436.2 | 424.2 | 409.2 | 391.0 | 372.8 | 354.7 | 336.5 | 324.7 |
| 50° | 446.5 | 434.5 | 422.7 | 410.8 | 398.9 | 383.7 | 365.3 | 346.9 | 328.4 | 309.9 | 298.4 |
| 52.5° | 421.7 | 409.3 | 396.9 | 384.5 | 372.0 | 356.8 | 338.7 | 320.7 | 302.7 | 284.7 | 273.5 |
| 55° | 385.4 | 372.3 | 359.2 | 346.2 | 333.2 | 317.5 | 299.4 | 281.3 | 263.2 | 245.1 | 235.1 |
| 57.5° | 348.1 | 334.8 | 321.3 | 307.9 | 294.5 | 279.1 | 261.8 | 244.3 | 226.9 | 209.5 | 200.3 |
| 60° | 322.8 | 309.4 | 296.0 | 282.6 | 269.1 | 253.9 | 236.6 | 219.3 | 202.1 | 184.8 | 176.2 |
| 62.5° | 298.0 | 284.7 | 271.2 | 257.8 | 244.4 | 229.5 | 213.1 | 196.6 | 180.2 | 163.7 | 155.5 |
| 65° | 260.2 | 246.6 | 233.1 | 219.4 | 205.9 | 191.6 | 176.5 | 161.4 | 146.3 | 131.2 | 125.5 |
| 67.5° | 223.7 | 210.3 | 196.7 | 183.3 | 169.8 | 156.2 | 142.7 | 129.2 | 115.5 | 102.0 | 99.4 |
| 70° | 198.3 | 185.3 | 172.2 | 159.2 | 146.0 | 133.7 | 122.2 | 110.6 | 99.1 | 87.5 | 85.8 |
| 72.5° | 174.2 | 161.7 | 149.2 | 136.6 | 124.1 | 113.2 | 103.9 | 94.6 | 85.3 | 76.0 | 74.6 |
| 75° | 138.8 | 127.0 | 115.3 | 103.6 | 91.8 | 83.1 | 77.5 | 71.7 | 66.0 | 60.3 | 59.2 |
| 77.5° | 103.9 | 93.6 | 83.3 | 73.0 | 62.8 | 56.2 | 53.5 | 50.8 | 48.0 | 45.2 | 44.5 |
| 80° | 82.2 | 73.6 | 65.1 | 56.6 | 48.0 | 42.9 | 41.2 | 39.6 | 37.9 | 36.2 | 35.5 |
| 82.5° | 62.3 | 55.6 | 49.0 | 42.3 | 35.6 | 31.7 | 30.6 | 29.4 | 28.3 | 27.2 | 26.8 |
| 85° | 32.4 | 28.9 | 25.3 | 21.9 | 18.4 | 16.4 | 15.9 | 15.3 | 14.8 | 14.3 | 14.3 |
| 87.5° | 9.9 | 9.4 | 9.0 | 8.6 | 8.1 | 8.5 | 9.6 | 10.7 | 11.9 | 13.0 | 12.8 |
| 90° | 1.2 | 4.3 | 7.5 | 10.6 | 13.7 | 18.1 | 23.8 | 29.6 | 35.3 | 41.1 | 40.5 |
| 92.5° | 20.9 | 23.1 | 25.4 | 27.8 | 30.1 | 31.9 | 33.2 | 34.6 | 36.0 | 37.3 | 37.4 |
| 95° | 61.0 | 63.6 | 66.2 | 68.8 | 71.4 | 73.0 | 73.5 | 74.0 | 74.5 | 75.0 | 75.0 |
| 97.5° | 111.5 | 113.7 | 116.0 | 118.4 | 120.6 | 122.3 | 123.2 | 124.2 | 125.2 | 126.2 | 126.2 |
| 100° | 149.0 | 151.1 | 153.2 | 155.2 | 157.3 | 158.8 | 159.6 | 160.3 | 161.1 | 161.9 | 161.9 |
| 102.5° | 188.4 | 190.1 | 191.8 | 193.4 | 195.1 | 196.4 | 197.4 | 198.3 | 199.3 | 200.4 | 200.6 |
| 105° | 252.2 | 253.0 | 253.8 | 254.6 | 255.3 | 256.0 | 256.5 | 257.0 | 257.5 | 258.0 | 258.6 |
| 107.5° | 316.5 | 317.6 | 318.8 | 319.9 | 321.0 | 321.6 | 321.6 | 321.6 | 321.6 | 321.6 | 321.8 |
| 110° | 357.8 | 359.3 | 360.9 | 362.4 | 364.1 | 364.9 | 364.9 | 364.9 | 364.9 | 364.9 | 364.9 |



TEST NUMBER: P331673-840

CATALOG NUMBER: SA2XXRDIP-C485D1080U840-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 402.8 | 404.3 | 406.0 | 407.5 | 409.1 | 409.8 | 409.5 | 409.3 | 409.1 | 408.9 | 408.3 |
| 115° | 469.2 | 470.8 | 472.3 | 473.9 | 475.4 | 475.9 | 475.4 | 474.9 | 474.4 | 473.9 | 473.6 |
| 117.5° | 535.3 | 537.5 | 539.6 | 541.6 | 543.7 | 544.0 | 542.6 | 541.1 | 539.7 | 538.2 | 537.6 |
| 120° | 579.5 | 581.6 | 583.7 | 585.7 | 587.8 | 587.8 | 585.7 | 583.7 | 581.6 | 579.5 | 579.5 |
| 122.5° | 619.9 | 622.4 | 624.8 | 627.3 | 629.9 | 630.4 | 628.9 | 627.4 | 626.0 | 624.5 | 623.9 |
| 125° | 682.7 | 685.1 | 687.4 | 689.7 | 692.1 | 692.9 | 692.1 | 691.4 | 690.5 | 689.7 | 688.9 |
| 127.5° | 744.0 | 746.9 | 749.9 | 752.9 | 755.8 | 756.9 | 755.9 | 755.0 | 754.1 | 753.1 | 752.1 |
| 130° | 782.4 | 785.8 | 789.2 | 792.5 | 796.0 | 797.4 | 796.9 | 796.4 | 795.9 | 795.4 | 794.8 |
| 132.5° | 825.6 | 828.4 | 831.1 | 833.8 | 836.7 | 838.1 | 838.2 | 838.3 | 838.4 | 838.5 | 837.4 |
| 135° | 883.3 | 886.2 | 889.1 | 891.9 | 894.7 | 896.5 | 897.0 | 897.5 | 898.1 | 898.6 | 898.3 |
| 137.5° | 944.0 | 946.4 | 948.8 | 951.1 | 953.4 | 954.9 | 955.6 | 956.3 | 956.9 | 957.7 | 957.5 |
| 140° | 980.7 | 983.0 | 985.3 | 987.7 | 990.1 | 991.9 | 993.2 | 994.5 | 995.8 | 997.0 | 997.0 |
| 142.5° | 1018.2 | 1020.6 | 1022.9 | 1025.2 | 1027.5 | 1029.2 | 1030.1 | 1031.0 | 1031.9 | 1032.8 | 1033.0 |
| 145° | 1072.2 | 1074.0 | 1075.8 | 1077.6 | 1079.4 | 1081.2 | 1082.7 | 1084.3 | 1085.8 | 1087.4 | 1087.6 |
| 147.5° | 1120.2 | 1122.5 | 1124.6 | 1126.8 | 1129.0 | 1130.6 | 1131.7 | 1132.8 | 1133.8 | 1134.8 | 1135.4 |
| 150° | 1153.1 | 1154.7 | 1156.2 | 1157.8 | 1159.3 | 1160.6 | 1161.7 | 1162.8 | 1163.8 | 1164.9 | 1165.6 |
| 152.5° | 1182.1 | 1183.8 | 1185.3 | 1186.9 | 1188.4 | 1189.8 | 1191.1 | 1192.3 | 1193.7 | 1194.9 | 1195.9 |
| 155° | 1225.9 | 1226.6 | 1227.4 | 1228.2 | 1229.0 | 1229.7 | 1230.5 | 1231.3 | 1232.1 | 1232.8 | 1234.2 |
| 157.5° | 1263.1 | 1263.6 | 1264.1 | 1264.7 | 1265.3 | 1265.7 | 1266.2 | 1266.7 | 1267.1 | 1267.6 | 1269.4 |
| 160° | 1285.7 | 1286.2 | 1286.7 | 1287.2 | 1287.8 | 1288.1 | 1288.4 | 1288.7 | 1288.9 | 1289.2 | 1290.7 |
| 162.5° | 1306.3 | 1306.4 | 1306.5 | 1306.6 | 1306.8 | 1306.9 | 1307.2 | 1307.4 | 1307.7 | 1308.0 | 1309.7 |
| 165° | 1333.7 | 1333.5 | 1333.2 | 1332.9 | 1332.7 | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1332.6 | 1334.4 |
| 167.5° | 1356.8 | 1355.9 | 1355.1 | 1354.4 | 1353.6 | 1353.2 | 1353.1 | 1353.1 | 1353.0 | 1353.0 | 1354.8 |
| 170° | 1369.0 | 1368.2 | 1367.4 | 1366.5 | 1365.8 | 1365.3 | 1365.0 | 1364.7 | 1364.5 | 1364.2 | 1366.0 |
| 172.5° | 1377.4 | 1376.6 | 1375.8 | 1375.0 | 1374.2 | 1373.7 | 1373.5 | 1373.2 | 1372.9 | 1372.7 | 1374.5 |
| 175° | 1387.8 | 1386.9 | 1386.1 | 1385.3 | 1384.6 | 1383.9 | 1383.4 | 1382.9 | 1382.4 | 1381.8 | 1383.7 |
| 177.5° | 1391.9 | 1391.3 | 1390.7 | 1390.1 | 1389.5 | 1388.9 | 1388.5 | 1388.1 | 1387.7 | 1387.3 | 1388.5 |
| 180° | 1390.1 | 1390.1 | 1390.1 | 1390.1 | 1390.1 | 1390.1 | 1390.1 | 1390.1 | 1390.1 | 1390.1 | 1390.1 |



TEST NUMBER: P331673-840

CATALOG NUMBER: SA2XXRDIP-C485D1080U840-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 833.3 | 833.3 | 833.3 | 833.3 | 833.3 | 833.3 | 833.3 | 833.3 |
| 2.5° | 829.4 | 830.8 | 832.1 | 832.6 | 832.4 | 832.1 | 831.8 | 831.6 |
| 5° | 822.8 | 824.4 | 825.9 | 826.4 | 825.9 | 825.4 | 824.9 | 824.4 |
| 7.5° | 809.5 | 809.9 | 810.4 | 810.2 | 809.3 | 808.4 | 807.6 | 806.7 |
| 10° | 796.2 | 795.7 | 795.2 | 794.5 | 793.5 | 792.4 | 791.4 | 790.4 |
| 12.5° | 780.9 | 780.0 | 779.1 | 777.8 | 776.1 | 774.5 | 772.7 | 771.1 |
| 15° | 752.3 | 749.2 | 746.0 | 743.6 | 741.8 | 740.2 | 738.5 | 736.9 |
| 17.5° | 720.0 | 716.3 | 712.5 | 709.1 | 706.3 | 703.4 | 700.5 | 697.6 |
| 20° | 697.5 | 693.4 | 689.1 | 685.2 | 681.6 | 677.8 | 674.2 | 670.4 |
| 22.5° | 672.8 | 667.4 | 662.1 | 657.9 | 655.2 | 652.5 | 649.7 | 646.9 |
| 25° | 631.9 | 625.0 | 618.1 | 613.4 | 610.9 | 608.3 | 605.9 | 603.4 |
| 27.5° | 592.8 | 584.7 | 576.7 | 570.8 | 566.7 | 562.8 | 558.8 | 554.8 |
| 30° | 565.1 | 556.6 | 548.1 | 541.5 | 536.9 | 532.5 | 528.0 | 523.4 |
| 32.5° | 537.3 | 527.7 | 517.9 | 510.9 | 506.6 | 502.4 | 498.1 | 493.8 |
| 35° | 494.0 | 483.4 | 472.9 | 465.7 | 462.1 | 458.4 | 454.7 | 451.0 |
| 37.5° | 451.7 | 440.1 | 428.5 | 420.5 | 416.4 | 412.1 | 407.9 | 403.6 |
| 40° | 423.4 | 411.5 | 399.6 | 391.5 | 387.2 | 382.8 | 378.4 | 374.1 |
| 42.5° | 394.9 | 382.5 | 370.3 | 362.0 | 357.8 | 353.6 | 349.3 | 345.1 |
| 45° | 353.3 | 341.4 | 329.5 | 321.5 | 317.5 | 313.5 | 309.4 | 305.5 |
| 47.5° | 312.9 | 301.0 | 289.2 | 281.4 | 277.8 | 274.2 | 270.4 | 266.8 |
| 50° | 286.8 | 275.3 | 263.7 | 256.2 | 252.7 | 249.1 | 245.6 | 242.1 |
| 52.5° | 262.3 | 251.2 | 239.9 | 232.8 | 229.5 | 226.3 | 223.0 | 219.7 |
| 55° | 225.0 | 214.9 | 204.9 | 198.2 | 195.1 | 191.9 | 188.7 | 185.5 |
| 57.5° | 191.1 | 181.9 | 172.7 | 166.7 | 164.0 | 161.4 | 158.6 | 155.9 |
| 60° | 167.6 | 159.2 | 150.6 | 145.0 | 142.3 | 139.6 | 136.9 | 134.2 |
| 62.5° | 147.3 | 139.3 | 131.1 | 126.2 | 124.6 | 123.0 | 121.4 | 119.8 |
| 65° | 119.9 | 114.1 | 108.5 | 105.3 | 104.8 | 104.3 | 103.8 | 103.3 |
| 67.5° | 96.7 | 94.1 | 91.5 | 90.0 | 89.4 | 88.9 | 88.4 | 87.8 |
| 70° | 84.1 | 82.5 | 80.8 | 79.6 | 79.0 | 78.3 | 77.6 | 77.0 |
| 72.5° | 73.2 | 71.8 | 70.4 | 69.5 | 69.1 | 68.7 | 68.3 | 67.9 |
| 75° | 58.0 | 56.9 | 55.6 | 54.9 | 54.8 | 54.6 | 54.4 | 54.3 |
| 77.5° | 43.9 | 43.2 | 42.6 | 42.1 | 41.8 | 41.6 | 41.3 | 41.0 |
| 80° | 34.8 | 34.2 | 33.5 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 |
| 82.5° | 26.4 | 26.0 | 25.5 | 25.3 | 25.3 | 25.3 | 25.3 | 25.3 |
| 85° | 14.3 | 14.3 | 14.3 | 14.3 | 14.3 | 14.3 | 14.3 | 14.3 |
| 87.5° | 12.5 | 12.3 | 12.1 | 12.0 | 12.0 | 12.1 | 12.1 | 12.2 |
| 90° | 40.0 | 39.5 | 39.0 | 38.9 | 39.1 | 39.4 | 39.6 | 39.9 |
| 92.5° | 37.5 | 37.6 | 37.8 | 37.8 | 37.9 | 37.9 | 38.0 | 38.0 |
| 95° | 75.0 | 75.0 | 75.0 | 74.8 | 74.3 | 73.8 | 73.2 | 72.7 |
| 97.5° | 126.2 | 126.2 | 126.2 | 126.2 | 126.1 | 126.1 | 126.0 | 126.0 |
| 100° | 161.9 | 161.9 | 161.9 | 161.8 | 161.5 | 161.3 | 161.0 | 160.7 |
| 102.5° | 200.8 | 201.0 | 201.2 | 201.2 | 200.9 | 200.7 | 200.4 | 200.2 |
| 105° | 259.1 | 259.6 | 260.1 | 260.4 | 260.4 | 260.4 | 260.4 | 260.4 |
| 107.5° | 322.0 | 322.2 | 322.4 | 321.9 | 320.8 | 319.6 | 318.4 | 317.2 |
| 110° | 364.9 | 364.9 | 364.9 | 364.5 | 363.7 | 362.8 | 362.0 | 361.3 |



TEST NUMBER: P331673-840

CATALOG NUMBER: SA2XXRDIP-C485D1080U840-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 407.7 | 407.1 | 406.5 | 405.9 | 405.3 | 404.7 | 404.1 | 403.5 |
| 115° | 473.4 | 473.1 | 472.8 | 472.3 | 471.6 | 470.8 | 470.0 | 469.2 |
| 117.5° | 536.9 | 536.3 | 535.7 | 535.0 | 534.2 | 533.4 | 532.6 | 531.9 |
| 120° | 579.5 | 579.5 | 579.5 | 579.1 | 578.3 | 577.5 | 576.7 | 575.9 |
| 122.5° | 623.3 | 622.7 | 622.0 | 621.5 | 620.9 | 620.3 | 619.8 | 619.1 |
| 125° | 688.2 | 687.4 | 686.6 | 686.1 | 685.8 | 685.6 | 685.3 | 685.1 |
| 127.5° | 751.2 | 750.2 | 749.3 | 748.4 | 747.6 | 746.8 | 746.0 | 745.1 |
| 130° | 794.3 | 793.8 | 793.2 | 792.4 | 791.4 | 790.3 | 789.3 | 788.3 |
| 132.5° | 836.2 | 835.1 | 833.9 | 832.9 | 832.1 | 831.2 | 830.4 | 829.6 |
| 135° | 898.1 | 897.8 | 897.5 | 897.0 | 896.2 | 895.4 | 894.6 | 893.8 |
| 137.5° | 957.3 | 957.0 | 956.8 | 956.2 | 955.1 | 954.1 | 953.1 | 952.0 |
| 140° | 997.0 | 997.0 | 997.0 | 996.5 | 995.5 | 994.5 | 993.4 | 992.4 |
| 142.5° | 1033.2 | 1033.4 | 1033.6 | 1033.2 | 1032.1 | 1031.1 | 1030.1 | 1029.0 |
| 145° | 1087.9 | 1088.2 | 1088.4 | 1088.0 | 1087.0 | 1086.0 | 1084.9 | 1083.9 |
| 147.5° | 1136.0 | 1136.5 | 1137.1 | 1136.9 | 1135.9 | 1134.9 | 1133.9 | 1133.0 |
| 150° | 1166.4 | 1167.2 | 1168.0 | 1168.0 | 1167.2 | 1166.4 | 1165.6 | 1164.9 |
| 152.5° | 1196.9 | 1197.8 | 1198.8 | 1198.8 | 1197.8 | 1196.9 | 1195.9 | 1194.9 |
| 155° | 1235.5 | 1236.8 | 1238.1 | 1238.3 | 1237.6 | 1236.8 | 1236.0 | 1235.2 |
| 157.5° | 1271.1 | 1272.9 | 1274.7 | 1275.0 | 1273.6 | 1272.4 | 1271.2 | 1269.9 |
| 160° | 1292.3 | 1293.8 | 1295.5 | 1295.7 | 1294.6 | 1293.6 | 1292.5 | 1291.5 |
| 162.5° | 1311.5 | 1313.2 | 1315.0 | 1315.2 | 1314.0 | 1312.8 | 1311.5 | 1310.3 |
| 165° | 1336.3 | 1338.1 | 1339.9 | 1340.1 | 1338.9 | 1337.6 | 1336.3 | 1334.9 |
| 167.5° | 1356.7 | 1358.5 | 1360.3 | 1360.5 | 1359.2 | 1357.8 | 1356.5 | 1355.1 |
| 170° | 1367.9 | 1369.7 | 1371.5 | 1371.7 | 1370.1 | 1368.6 | 1367.0 | 1365.4 |
| 172.5° | 1376.3 | 1378.2 | 1380.0 | 1380.1 | 1378.6 | 1377.0 | 1375.4 | 1373.8 |
| 175° | 1385.5 | 1387.4 | 1389.2 | 1389.3 | 1387.8 | 1386.1 | 1384.6 | 1383.0 |
| 177.5° | 1389.8 | 1391.0 | 1392.2 | 1392.2 | 1391.0 | 1389.8 | 1388.5 | 1387.3 |
| 180° | 1390.1 | 1390.1 | 1390.1 | 1390.1 | 1390.1 | 1390.1 | 1390.1 | 1390.1 |

(END OF REPORT)