

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: P331370

Luminaire Tested: **SA2XXDIP-C675D1080U835-4F0-1E-UDD-D1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331370
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: SA2XXDIP-C675D1080U835-4F0-1E-UDD-D1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 1080 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

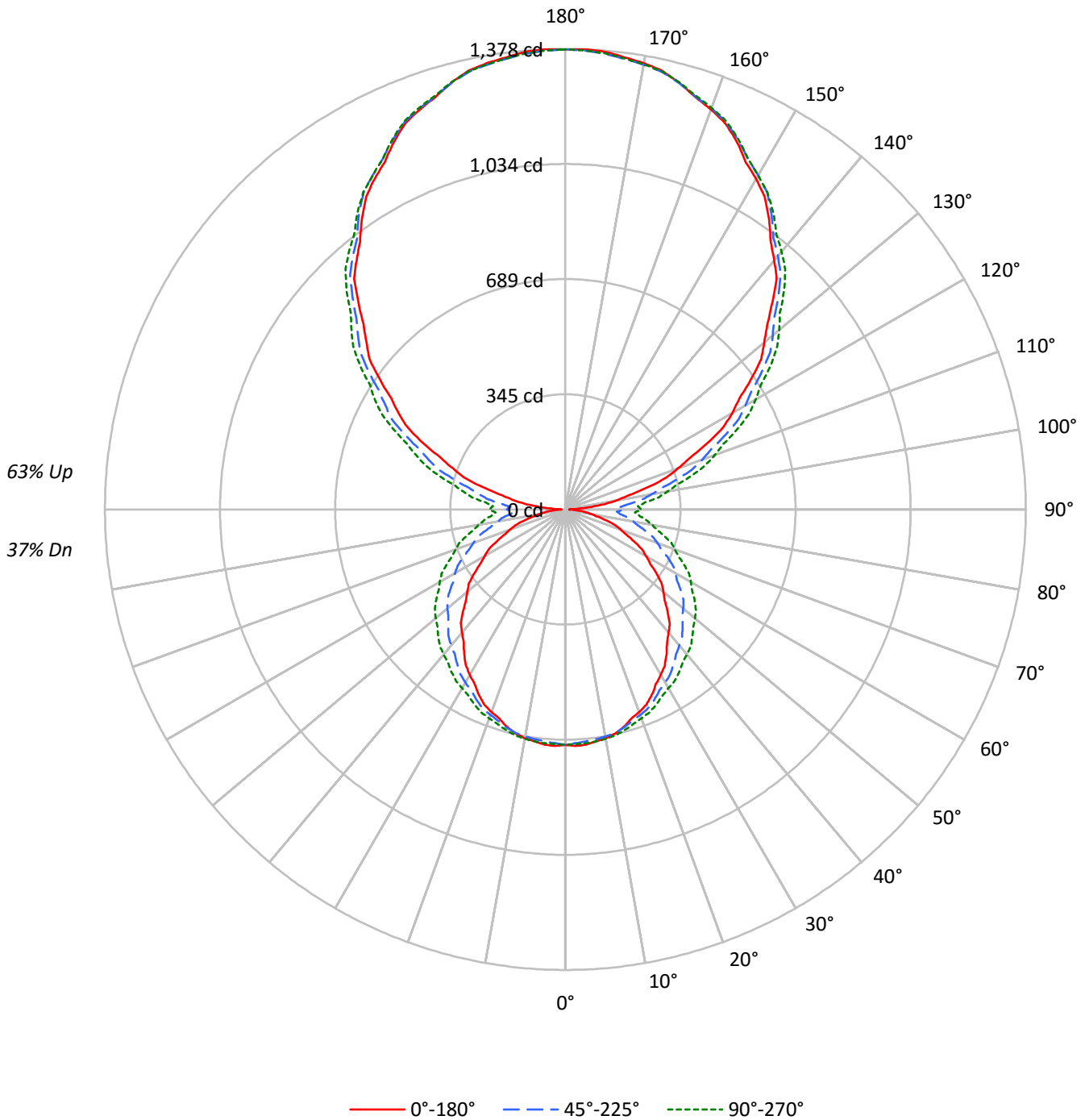
Lumens per Lamp: N/A
Luminaire Lumens: 6541.7 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.08')
CIE Type: Semi-Indirect

Input Watts (W): 56.9
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: P331370
CATALOG NUMBER: SA2XXDIP-C675D1080U835-4F0-1E-UDD-D1

Luminous Intensity Polar Plot





TEST NUMBER: P331370

CATALOG NUMBER: SA2XXDIP-C675D1080U835-4F0-1E-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 | 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 | 37 | 0 | |
| 1 | 94 | 89 | 85 | 81 | 85 | 81 | 77 | 74 | 65 | 62 | 60 | 50 | 49 | 47 | 37 | 36 | 35 | 29 | 29 | 29 | 0 | |
| 2 | 85 | 77 | 71 | 65 | 76 | 70 | 64 | 59 | 56 | 52 | 49 | 43 | 41 | 38 | 32 | 30 | 28 | 23 | 23 | 23 | 0 | |
| 3 | 77 | 67 | 60 | 54 | 69 | 61 | 54 | 49 | 49 | 44 | 40 | 38 | 35 | 32 | 28 | 26 | 24 | 19 | 19 | 19 | 0 | |
| 4 | 70 | 59 | 51 | 45 | 63 | 54 | 47 | 41 | 43 | 38 | 34 | 34 | 30 | 27 | 25 | 22 | 20 | 16 | 16 | 16 | 0 | |
| 5 | 64 | 53 | 44 | 38 | 58 | 48 | 40 | 35 | 39 | 33 | 29 | 30 | 26 | 23 | 22 | 19 | 17 | 14 | 14 | 14 | 0 | |
| 6 | 59 | 47 | 39 | 33 | 53 | 43 | 35 | 30 | 35 | 29 | 25 | 27 | 23 | 20 | 20 | 17 | 15 | 12 | 12 | 12 | 0 | |
| 7 | 55 | 42 | 34 | 29 | 49 | 38 | 31 | 26 | 31 | 26 | 22 | 24 | 21 | 18 | 18 | 15 | 13 | 10 | 10 | 10 | 0 | |
| 8 | 50 | 38 | 30 | 25 | 45 | 35 | 28 | 23 | 28 | 23 | 19 | 22 | 18 | 16 | 17 | 14 | 12 | 9 | 9 | 9 | 0 | |
| 9 | 47 | 35 | 27 | 22 | 42 | 32 | 25 | 20 | 26 | 21 | 17 | 20 | 17 | 14 | 15 | 13 | 11 | 8 | 8 | 8 | 0 | |
| 10 | 44 | 32 | 24 | 20 | 39 | 29 | 23 | 18 | 24 | 19 | 15 | 19 | 15 | 12 | 14 | 11 | 10 | 7 | 7 | 7 | 0 | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 11373 | 11373 | 11373 |
| 5° | 11428 | 10947 | 10905 |
| 10° | 11356 | 10624 | 10504 |
| 15° | 11200 | 10282 | 10083 |
| 20° | 11002 | 9915 | 9676 |
| 25° | 10807 | 9560 | 9307 |
| 30° | 10532 | 9197 | 8935 |
| 35° | 10254 | 8846 | 8673 |
| 40° | 9960 | 8547 | 8413 |
| 45° | 9681 | 8279 | 8190 |
| 50° | 9382 | 8037 | 7969 |
| 55° | 9070 | 7777 | 7745 |
| 60° | 8686 | 7508 | 7509 |
| 65° | 8287 | 7191 | 7227 |
| 70° | 7841 | 6852 | 6923 |
| 75° | 7270 | 6518 | 6643 |
| 80° | 6370 | 6177 | 6361 |
| 85° | 5506 | 5882 | 6138 |



TEST NUMBER: P331370

CATALOG NUMBER: SA2XXDIP-C675D1080U835-4F0-1E-UDD-D1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 66.7 | 1.0 |
| 10°-20° | 191.4 | 2.9 |
| 20°-30° | 290.0 | 4.4 |
| 30°-40° | 353.3 | 5.4 |
| 40°-50° | 380.0 | 5.8 |
| 50°-60° | 369.1 | 5.6 |
| 60°-70° | 322.3 | 4.9 |
| 70°-80° | 248.1 | 3.8 |
| 80°-90° | 172.0 | 2.6 |
| 90°-100° | 201.9 | 3.1 |
| 100°-110° | 354.6 | 5.4 |
| 110°-120° | 518.4 | 7.9 |
| 120°-130° | 639.8 | 9.8 |
| 130°-140° | 696.4 | 10.6 |
| 140°-150° | 672.4 | 10.3 |
| 150°-160° | 562.1 | 8.6 |
| 160°-170° | 372.8 | 5.7 |
| 170°-180° | 130.3 | 2.0 |
| 0°-30° | 548.2 | 8.4 |
| 0°-40° | 901.4 | 13.8 |
| 0°-60° | 1650.6 | 25.2 |
| 0°-90° | 2392.9 | 36.6 |
| 90°-120° | 1074.9 | 16.4 |
| 90°-150° | 3083.6 | 47.1 |
| 90°-180° | 4149.0 | 63.4 |
| 0°-180° | 6541.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 704 | 704 | 704 | 704 | 704 | |
| 5° | 706 | 703 | 697 | 703 | 702 | 67 |
| 15° | 674 | 676 | 676 | 684 | 684 | 190 |
| 25° | 612 | 620 | 629 | 641 | 644 | 281 |
| 35° | 528 | 545 | 564 | 586 | 594 | 330 |
| 45° | 433 | 461 | 496 | 527 | 538 | 334 |
| 55° | 332 | 369 | 422 | 457 | 472 | 297 |
| 65° | 227 | 277 | 337 | 377 | 392 | 225 |
| 75° | 126 | 183 | 248 | 290 | 305 | 133 |
| 85° | 37 | 100 | 165 | 207 | 222 | 40 |
| 90° | 11 | 86 | 175 | 212 | 227 | 10 |
| 95° | 69 | 128 | 192 | 229 | 240 | 76 |
| 105° | 255 | 289 | 343 | 380 | 393 | 270 |
| 115° | 469 | 488 | 530 | 559 | 568 | 463 |
| 125° | 678 | 690 | 718 | 741 | 750 | 606 |
| 135° | 876 | 888 | 901 | 920 | 926 | 677 |
| 145° | 1062 | 1070 | 1077 | 1084 | 1084 | 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: P331370

CATALOG NUMBER: SA2XXDIP-C675D1080U835-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 704.4 | 704.4 | 704.4 | 704.4 | 704.4 | 704.4 | 704.4 | 704.4 | 704.4 | 704.4 | 704.4 |
| 2.5° | 708.5 | 707.9 | 707.4 | 706.8 | 706.3 | 705.4 | 704.1 | 702.8 | 701.6 | 700.3 | 701.2 |
| 5° | 706.4 | 705.7 | 705.1 | 704.4 | 703.7 | 702.7 | 701.3 | 700.0 | 698.6 | 697.2 | 698.6 |
| 7.5° | 700.1 | 699.6 | 699.2 | 698.7 | 698.3 | 697.5 | 696.5 | 695.4 | 694.4 | 693.4 | 695.0 |
| 10° | 695.2 | 694.7 | 694.3 | 693.8 | 693.4 | 692.8 | 692.1 | 691.5 | 690.8 | 690.1 | 691.9 |
| 12.5° | 687.0 | 687.1 | 687.2 | 687.3 | 687.4 | 687.2 | 686.7 | 686.2 | 685.7 | 685.2 | 687.0 |
| 15° | 673.8 | 674.2 | 674.7 | 675.1 | 675.6 | 675.8 | 675.8 | 675.8 | 675.8 | 675.8 | 677.8 |
| 17.5° | 656.6 | 657.6 | 658.5 | 659.5 | 660.4 | 661.3 | 662.0 | 662.7 | 663.4 | 664.2 | 666.3 |
| 20° | 645.2 | 646.3 | 647.4 | 648.6 | 649.7 | 650.7 | 651.6 | 652.6 | 653.5 | 654.4 | 656.9 |
| 22.5° | 632.9 | 634.2 | 635.6 | 636.9 | 638.2 | 639.5 | 640.8 | 642.0 | 643.3 | 644.6 | 647.1 |
| 25° | 612.5 | 614.1 | 615.7 | 617.3 | 618.9 | 620.7 | 622.7 | 624.8 | 626.8 | 628.8 | 631.6 |
| 27.5° | 588.0 | 590.6 | 593.2 | 595.8 | 598.4 | 600.9 | 603.3 | 605.7 | 608.1 | 610.5 | 613.9 |
| 30° | 571.7 | 574.6 | 577.6 | 580.5 | 583.5 | 586.4 | 589.4 | 592.3 | 595.3 | 598.2 | 601.8 |
| 32.5° | 553.7 | 557.0 | 560.3 | 563.6 | 567.0 | 570.4 | 573.9 | 577.3 | 580.8 | 584.3 | 588.5 |
| 35° | 527.8 | 531.6 | 535.5 | 539.3 | 543.2 | 547.3 | 551.6 | 555.9 | 560.2 | 564.5 | 569.5 |
| 37.5° | 499.6 | 504.1 | 508.5 | 512.9 | 517.4 | 522.4 | 528.0 | 533.6 | 539.1 | 544.7 | 550.3 |
| 40° | 480.8 | 485.8 | 490.8 | 495.8 | 500.8 | 506.3 | 512.5 | 518.6 | 524.7 | 530.8 | 536.7 |
| 42.5° | 462.9 | 467.8 | 472.8 | 477.8 | 482.8 | 488.8 | 495.9 | 502.9 | 509.9 | 517.0 | 523.4 |
| 45° | 432.8 | 439.0 | 445.1 | 451.2 | 457.3 | 464.4 | 472.3 | 480.3 | 488.2 | 496.1 | 503.2 |
| 47.5° | 403.2 | 409.9 | 416.6 | 423.2 | 429.9 | 437.9 | 447.2 | 456.5 | 465.8 | 475.1 | 482.5 |
| 50° | 382.8 | 389.9 | 396.9 | 403.9 | 410.9 | 419.6 | 429.8 | 440.0 | 450.2 | 460.4 | 468.1 |
| 52.5° | 363.2 | 370.6 | 378.0 | 385.4 | 392.8 | 401.9 | 412.6 | 423.4 | 434.1 | 444.9 | 452.8 |
| 55° | 331.8 | 339.9 | 348.1 | 356.3 | 364.4 | 374.4 | 386.2 | 398.0 | 409.8 | 421.6 | 429.8 |
| 57.5° | 300.7 | 310.0 | 319.2 | 328.4 | 337.6 | 348.2 | 360.2 | 372.2 | 384.3 | 396.3 | 405.1 |
| 60° | 278.7 | 288.4 | 298.2 | 308.0 | 317.7 | 329.1 | 342.0 | 354.9 | 367.8 | 380.8 | 389.4 |
| 62.5° | 259.1 | 269.2 | 279.3 | 289.4 | 299.6 | 311.1 | 324.0 | 336.9 | 349.9 | 362.8 | 372.0 |
| 65° | 226.6 | 237.7 | 248.9 | 260.0 | 271.1 | 283.3 | 296.7 | 310.1 | 323.5 | 336.9 | 346.2 |
| 67.5° | 196.8 | 208.4 | 220.1 | 231.7 | 243.3 | 255.9 | 269.6 | 283.3 | 297.0 | 310.7 | 320.1 |
| 70° | 175.6 | 187.4 | 199.2 | 211.0 | 222.8 | 235.7 | 249.8 | 263.8 | 277.9 | 292.0 | 301.7 |
| 72.5° | 156.0 | 168.1 | 180.3 | 192.5 | 204.6 | 217.8 | 232.1 | 246.3 | 260.6 | 274.8 | 284.4 |
| 75° | 125.6 | 138.3 | 151.0 | 163.7 | 176.4 | 190.0 | 204.5 | 219.0 | 233.5 | 248.1 | 257.8 |
| 77.5° | 96.2 | 109.5 | 122.8 | 136.0 | 149.3 | 163.4 | 178.1 | 192.9 | 207.6 | 222.3 | 232.1 |
| 80° | 76.6 | 90.4 | 104.2 | 118.1 | 131.9 | 146.2 | 161.0 | 175.7 | 190.4 | 205.2 | 214.7 |
| 82.5° | 60.2 | 73.9 | 87.5 | 101.2 | 114.9 | 129.1 | 144.1 | 159.0 | 173.9 | 188.9 | 198.4 |
| 85° | 36.8 | 50.8 | 64.9 | 78.9 | 93.0 | 107.3 | 121.8 | 136.3 | 150.9 | 165.4 | 174.9 |
| 87.5° | 20.2 | 34.4 | 48.5 | 62.7 | 76.8 | 91.7 | 107.4 | 123.0 | 138.7 | 154.3 | 163.5 |
| 90° | 11.4 | 27.6 | 43.9 | 60.1 | 76.4 | 94.6 | 114.8 | 135.0 | 155.2 | 175.4 | 184.0 |
| 92.5° | 30.1 | 44.6 | 59.1 | 73.6 | 88.2 | 103.1 | 118.4 | 133.7 | 149.0 | 164.3 | 173.3 |
| 95° | 68.6 | 81.8 | 95.1 | 108.3 | 121.5 | 135.2 | 149.4 | 163.5 | 177.6 | 191.7 | 200.4 |
| 97.5° | 117.5 | 129.3 | 141.0 | 152.8 | 164.5 | 177.4 | 191.5 | 205.5 | 219.6 | 233.6 | 242.0 |
| 100° | 154.7 | 165.1 | 175.6 | 186.0 | 196.5 | 208.5 | 221.9 | 235.4 | 248.9 | 262.4 | 270.8 |
| 102.5° | 192.9 | 202.2 | 211.5 | 220.8 | 230.2 | 241.5 | 254.8 | 268.1 | 281.4 | 294.8 | 303.2 |
| 105° | 254.8 | 262.2 | 269.6 | 276.9 | 284.3 | 294.1 | 306.4 | 318.7 | 331.0 | 343.3 | 351.8 |
| 107.5° | 318.3 | 324.7 | 331.1 | 337.5 | 343.9 | 352.7 | 364.0 | 375.3 | 386.6 | 397.9 | 405.8 |
| 110° | 358.4 | 364.5 | 370.5 | 376.6 | 382.7 | 391.3 | 402.4 | 413.5 | 424.7 | 435.8 | 443.0 |



TEST NUMBER: P331370

CATALOG NUMBER: SA2XXDIP-C675D1080U835-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 403.0 | 408.3 | 413.7 | 419.1 | 424.4 | 432.3 | 442.6 | 453.0 | 463.4 | 473.7 | 480.4 |
| 115° | 468.7 | 472.8 | 476.8 | 480.8 | 484.9 | 491.8 | 501.5 | 511.1 | 520.8 | 530.5 | 537.1 |
| 117.5° | 533.2 | 536.9 | 540.6 | 544.3 | 548.0 | 553.8 | 561.8 | 569.8 | 577.8 | 585.8 | 591.9 |
| 120° | 576.9 | 579.9 | 582.8 | 585.8 | 588.8 | 593.8 | 600.8 | 607.8 | 614.8 | 621.8 | 628.2 |
| 122.5° | 616.8 | 619.7 | 622.5 | 625.4 | 628.2 | 633.2 | 640.3 | 647.3 | 654.4 | 661.5 | 667.1 |
| 125° | 678.1 | 680.4 | 682.7 | 685.1 | 687.4 | 691.8 | 698.3 | 704.8 | 711.2 | 717.7 | 723.1 |
| 127.5° | 738.7 | 741.4 | 744.1 | 746.9 | 749.6 | 753.4 | 758.3 | 763.2 | 768.2 | 773.1 | 777.8 |
| 130° | 776.8 | 779.9 | 783.1 | 786.2 | 789.3 | 793.0 | 797.3 | 801.5 | 805.8 | 810.0 | 814.9 |
| 132.5° | 819.6 | 822.1 | 824.6 | 827.1 | 829.6 | 832.7 | 836.5 | 840.3 | 844.1 | 847.9 | 852.0 |
| 135° | 875.7 | 878.5 | 881.4 | 884.2 | 887.1 | 889.9 | 892.6 | 895.4 | 898.2 | 901.0 | 905.5 |
| 137.5° | 935.9 | 938.1 | 940.4 | 942.7 | 945.0 | 946.9 | 948.6 | 950.3 | 952.0 | 953.6 | 957.6 |
| 140° | 972.1 | 974.2 | 976.3 | 978.4 | 980.5 | 982.4 | 984.2 | 985.9 | 987.6 | 989.4 | 993.0 |
| 142.5° | 1009.3 | 1011.4 | 1013.5 | 1015.6 | 1017.7 | 1019.2 | 1020.2 | 1021.1 | 1022.1 | 1023.1 | 1026.2 |
| 145° | 1061.7 | 1063.5 | 1065.3 | 1067.1 | 1068.9 | 1070.6 | 1072.1 | 1073.7 | 1075.2 | 1076.8 | 1078.4 |
| 147.5° | 1109.3 | 1111.5 | 1113.6 | 1115.8 | 1118.0 | 1119.6 | 1120.6 | 1121.7 | 1122.7 | 1123.7 | 1124.5 |
| 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: P331370

CATALOG NUMBER: SA2XXDIP-C675D1080U835-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 704.4 | 704.4 | 704.4 | 704.4 | 704.4 | 704.4 | 704.4 | 704.4 |
| 2.5° | 702.1 | 703.0 | 703.9 | 704.2 | 703.8 | 703.5 | 703.1 | 702.8 |
| 5° | 700.0 | 701.3 | 702.7 | 703.3 | 703.0 | 702.8 | 702.6 | 702.3 |
| 7.5° | 696.6 | 698.3 | 699.9 | 700.6 | 700.4 | 700.1 | 699.9 | 699.7 |
| 10° | 693.7 | 695.5 | 697.4 | 698.1 | 697.9 | 697.7 | 697.5 | 697.2 |
| 12.5° | 688.8 | 690.6 | 692.5 | 693.2 | 693.0 | 692.8 | 692.6 | 692.3 |
| 15° | 679.9 | 681.9 | 684.0 | 684.9 | 684.7 | 684.4 | 684.2 | 684.0 |
| 17.5° | 668.4 | 670.6 | 672.7 | 673.8 | 673.8 | 673.8 | 673.8 | 673.8 |
| 20° | 659.4 | 661.9 | 664.3 | 665.6 | 665.6 | 665.6 | 665.6 | 665.6 |
| 22.5° | 649.6 | 652.1 | 654.5 | 656.0 | 656.3 | 656.7 | 657.1 | 657.4 |
| 25° | 634.3 | 637.0 | 639.7 | 641.4 | 642.1 | 642.8 | 643.5 | 644.2 |
| 27.5° | 617.4 | 620.8 | 624.3 | 626.2 | 626.7 | 627.2 | 627.7 | 628.2 |
| 30° | 605.5 | 609.1 | 612.7 | 614.9 | 615.6 | 616.3 | 616.9 | 617.6 |
| 32.5° | 592.7 | 596.9 | 601.0 | 603.7 | 605.0 | 606.2 | 607.4 | 608.6 |
| 35° | 574.5 | 579.5 | 584.5 | 587.8 | 589.4 | 591.0 | 592.5 | 594.1 |
| 37.5° | 555.8 | 561.3 | 566.9 | 570.5 | 572.2 | 573.8 | 575.5 | 577.2 |
| 40° | 542.6 | 548.5 | 554.4 | 558.4 | 560.4 | 562.5 | 564.5 | 566.6 |
| 42.5° | 529.8 | 536.3 | 542.7 | 547.0 | 549.0 | 551.1 | 553.1 | 555.1 |
| 45° | 510.2 | 517.2 | 524.3 | 528.9 | 531.2 | 533.5 | 535.7 | 538.0 |
| 47.5° | 489.8 | 497.2 | 504.5 | 509.4 | 511.9 | 514.4 | 516.9 | 519.4 |
| 50° | 475.8 | 483.5 | 491.3 | 496.4 | 498.9 | 501.4 | 503.8 | 506.3 |
| 52.5° | 460.7 | 468.6 | 476.5 | 481.8 | 484.4 | 487.1 | 489.8 | 492.5 |
| 55° | 437.9 | 446.1 | 454.3 | 459.8 | 462.8 | 465.7 | 468.7 | 471.6 |
| 57.5° | 413.9 | 422.7 | 431.5 | 437.4 | 440.4 | 443.4 | 446.4 | 449.4 |
| 60° | 398.0 | 406.6 | 415.3 | 421.2 | 424.3 | 427.5 | 430.7 | 433.9 |
| 62.5° | 381.1 | 390.3 | 399.5 | 405.6 | 408.5 | 411.5 | 414.5 | 417.5 |
| 65° | 355.5 | 364.8 | 374.1 | 380.2 | 383.2 | 386.1 | 389.1 | 392.0 |
| 67.5° | 329.5 | 338.9 | 348.3 | 354.6 | 357.6 | 360.7 | 363.8 | 366.9 |
| 70° | 311.5 | 321.2 | 331.0 | 337.2 | 339.9 | 342.7 | 345.4 | 348.1 |
| 72.5° | 294.0 | 303.5 | 313.1 | 319.5 | 322.8 | 326.1 | 329.3 | 332.6 |
| 75° | 267.6 | 277.3 | 287.1 | 293.4 | 296.4 | 299.3 | 302.3 | 305.2 |
| 77.5° | 241.8 | 251.5 | 261.2 | 267.6 | 270.8 | 274.0 | 277.1 | 280.3 |
| 80° | 224.2 | 233.8 | 243.3 | 249.7 | 252.8 | 256.0 | 259.2 | 262.4 |
| 82.5° | 207.9 | 217.4 | 227.0 | 233.2 | 236.2 | 239.2 | 242.2 | 245.2 |
| 85° | 184.4 | 194.0 | 203.5 | 209.8 | 213.0 | 216.2 | 219.4 | 222.5 |
| 87.5° | 172.6 | 181.8 | 190.9 | 197.0 | 199.9 | 202.9 | 205.8 | 208.8 |
| 90° | 192.5 | 201.1 | 209.6 | 215.4 | 218.4 | 221.4 | 224.4 | 227.3 |
| 92.5° | 182.3 | 191.3 | 200.3 | 206.2 | 209.0 | 211.8 | 214.5 | 217.3 |
| 95° | 209.0 | 217.6 | 226.2 | 231.6 | 233.8 | 236.0 | 238.3 | 240.5 |
| 97.5° | 250.4 | 258.8 | 267.2 | 272.7 | 275.3 | 277.9 | 280.6 | 283.2 |
| 100° | 279.2 | 287.6 | 296.0 | 301.3 | 303.5 | 305.7 | 308.0 | 310.2 |
| 102.5° | 311.6 | 320.0 | 328.4 | 333.8 | 336.0 | 338.2 | 340.5 | 342.7 |
| 105° | 360.3 | 368.7 | 377.2 | 382.6 | 385.1 | 387.6 | 390.1 | 392.6 |
| 107.5° | 413.6 | 421.4 | 429.2 | 433.8 | 435.1 | 436.4 | 437.7 | 439.0 |
| 110° | 450.3 | 457.6 | 464.8 | 469.3 | 471.0 | 472.7 | 474.5 | 476.2 |



TEST NUMBER: P331370

CATALOG NUMBER: SA2XXDIP-C675D1080U835-4F0-1E-UDD-D1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 487.0 | 493.7 | 500.3 | 504.6 | 506.5 | 508.4 | 510.4 | 512.3 |
| 115° | 543.6 | 550.2 | 556.7 | 560.9 | 562.6 | 564.3 | 566.0 | 567.7 |
| 117.5° | 598.0 | 604.1 | 610.2 | 614.0 | 615.6 | 617.1 | 618.6 | 620.2 |
| 120° | 634.5 | 640.9 | 647.2 | 651.2 | 653.0 | 654.7 | 656.4 | 658.1 |
| 122.5° | 672.6 | 678.2 | 683.7 | 687.3 | 688.8 | 690.4 | 692.0 | 693.5 |
| 125° | 728.4 | 733.8 | 739.1 | 742.7 | 744.5 | 746.3 | 748.0 | 749.8 |
| 127.5° | 782.5 | 787.2 | 791.9 | 794.8 | 796.0 | 797.2 | 798.3 | 799.5 |
| 130° | 819.9 | 824.8 | 829.7 | 832.6 | 833.4 | 834.1 | 834.9 | 835.7 |
| 132.5° | 856.1 | 860.2 | 864.4 | 866.9 | 867.9 | 868.9 | 869.9 | 870.9 |
| 135° | 910.0 | 914.5 | 919.0 | 921.8 | 922.8 | 923.9 | 924.9 | 926.0 |
| 137.5° | 961.6 | 965.5 | 969.5 | 971.7 | 972.2 | 972.8 | 973.3 | 973.8 |
| 140° | 996.6 | 1000.3 | 1003.9 | 1005.9 | 1006.2 | 1006.5 | 1006.9 | 1007.2 |
| 142.5° | 1029.3 | 1032.4 | 1035.5 | 1037.1 | 1037.3 | 1037.4 | 1037.6 | 1037.7 |
| 145° | 1080.0 | 1081.6 | 1083.3 | 1084.1 | 1084.2 | 1084.3 | 1084.4 | 1084.5 |
| 147.5° | 1125.2 | 1126.0 | 1126.7 | 1126.9 | 1126.4 | 1126.0 | 1125.6 | 1125.1 |
| 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)