

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: P332560

Luminaire Tested: **SA4XXDIP-C575D810U835-4F0-1E-UDD-F1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332560
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-C575D810U835-4F0-1E-UDD-F1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 575 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 810 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

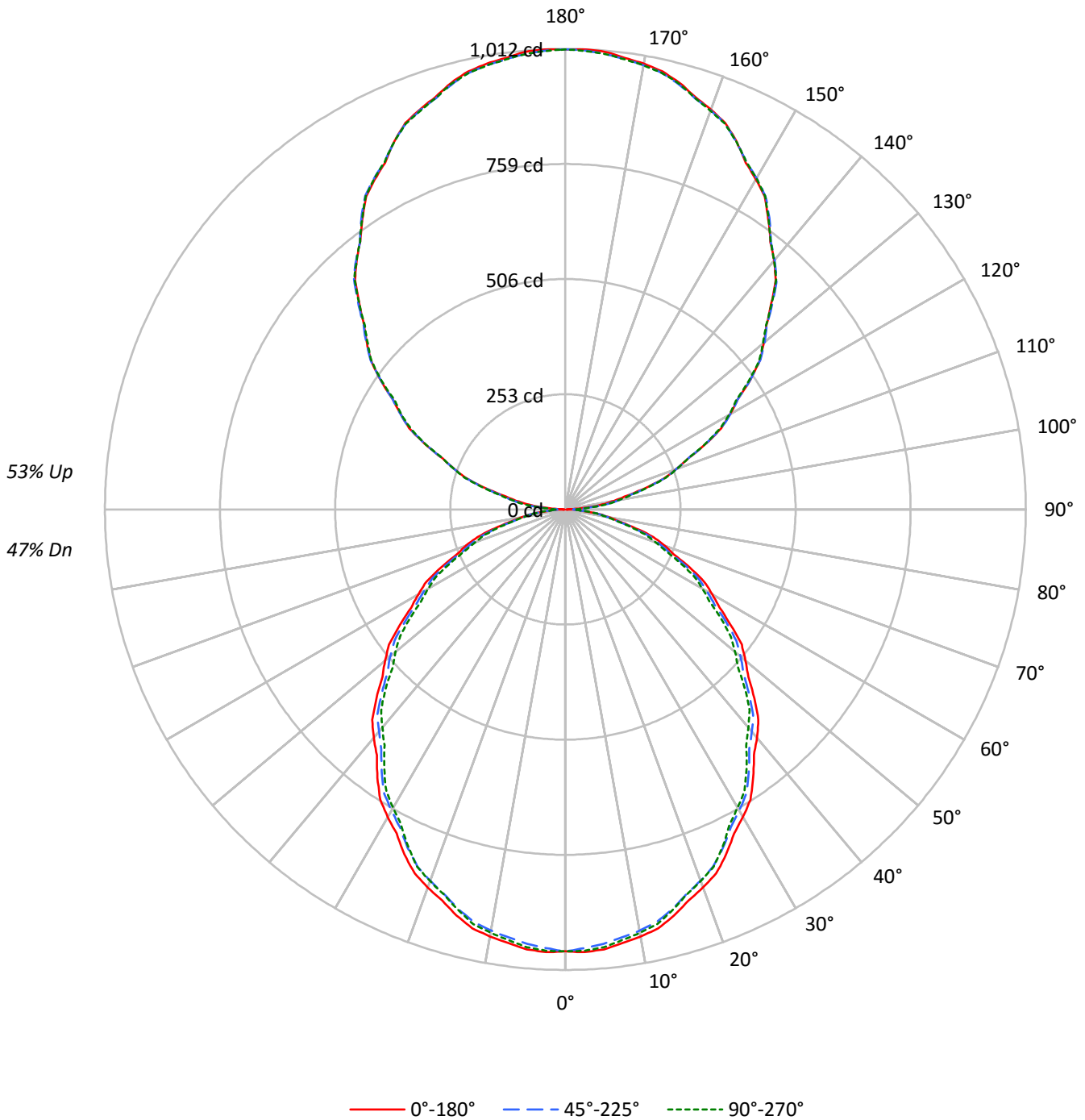
Lumens per Lamp: N/A
Luminaire Lumens: 5299.7 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: General Diffuse

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: P332560
CATALOG NUMBER: SA4XXDIP-C575D810U835-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P332560

CATALOG NUMBER: SA4XXDIP-C575D810U835-4F0-1E-UDD-F1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|----|--|--|--|--|--|--|--|--|----|---|
| RF | 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 | 50 | 30 | 10 | 0 | | | | | | | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 106 | 106 | 106 | 106 | 98 | 98 | 98 | 98 | 82 | 82 | 82 | 67 | 67 | 67 | 53 | 53 | 53 | 47 | 47 | 47 | 47 | 47 | 47 | 47 | | | | | | | | | | | | | | |
| 1 | 97 | 93 | 89 | 85 | 89 | 85 | 82 | 79 | 72 | 69 | 67 | 59 | 57 | 56 | 47 | 46 | 45 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | | | | | | | | | | | | | | |
| 2 | 88 | 81 | 75 | 70 | 81 | 75 | 69 | 65 | 63 | 59 | 55 | 52 | 49 | 46 | 41 | 40 | 38 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | | | | | | | | | | | | | | |
| 3 | 81 | 71 | 64 | 58 | 74 | 66 | 59 | 54 | 55 | 51 | 47 | 46 | 42 | 39 | 37 | 34 | 32 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | | | | | | | | | | | | | | |
| 4 | 74 | 63 | 55 | 49 | 67 | 58 | 51 | 46 | 49 | 44 | 40 | 41 | 37 | 34 | 33 | 30 | 28 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | | | | | | | | | | | | | | |
| 5 | 68 | 56 | 48 | 42 | 62 | 52 | 45 | 39 | 44 | 38 | 34 | 36 | 32 | 29 | 30 | 27 | 24 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | | | | | | | | | | | | | | |
| 6 | 62 | 50 | 42 | 36 | 57 | 47 | 39 | 34 | 40 | 34 | 30 | 33 | 29 | 26 | 27 | 24 | 21 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | | | | | | | | | | | | | | |
| 7 | 58 | 45 | 37 | 32 | 53 | 42 | 35 | 30 | 36 | 30 | 26 | 30 | 26 | 23 | 25 | 21 | 19 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | | | | | | | | | | | | | | |
| 8 | 53 | 41 | 33 | 28 | 49 | 38 | 31 | 27 | 33 | 27 | 23 | 27 | 23 | 20 | 23 | 19 | 17 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | | | | | | | | | | | | | | |
| 9 | 50 | 38 | 30 | 25 | 46 | 35 | 28 | 24 | 30 | 25 | 21 | 25 | 21 | 18 | 21 | 18 | 15 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | | | | | | | | | | | | | | |
| 10 | 46 | 34 | 27 | 22 | 43 | 32 | 26 | 21 | 28 | 22 | 19 | 23 | 19 | 16 | 19 | 16 | 14 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 7840 | 7840 | 7840 |
| 5° | 7864 | 7769 | 7826 |
| 10° | 7814 | 7706 | 7744 |
| 15° | 7720 | 7596 | 7616 |
| 20° | 7594 | 7460 | 7467 |
| 25° | 7451 | 7306 | 7285 |
| 30° | 7276 | 7124 | 7058 |
| 35° | 7094 | 6933 | 6841 |
| 40° | 6905 | 6716 | 6593 |
| 45° | 6707 | 6503 | 6379 |
| 50° | 6489 | 6314 | 6118 |
| 55° | 6253 | 6068 | 5871 |
| 60° | 6018 | 5792 | 5616 |
| 65° | 5752 | 5530 | 5307 |
| 70° | 5455 | 5179 | 4978 |
| 75° | 5000 | 4757 | 4635 |
| 80° | 4449 | 4268 | 4161 |
| 85° | 3890 | 3751 | 3677 |



TEST NUMBER: P332560

CATALOG NUMBER: SA4XXDIP-C575D810U835-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 91.5 | 1.7 |
| 10°-20° | 257.7 | 4.9 |
| 20°-30° | 379.3 | 7.2 |
| 30°-40° | 440.9 | 8.3 |
| 40°-50° | 440.9 | 8.3 |
| 50°-60° | 385.7 | 7.3 |
| 60°-70° | 286.4 | 5.4 |
| 70°-80° | 162.7 | 3.1 |
| 80°-90° | 50.0 | 0.9 |
| 90°-100° | 66.7 | 1.3 |
| 100°-110° | 197.5 | 3.7 |
| 110°-120° | 335.2 | 6.3 |
| 120°-130° | 442.0 | 8.3 |
| 130°-140° | 496.4 | 9.4 |
| 140°-150° | 487.8 | 9.2 |
| 150°-160° | 410.3 | 7.7 |
| 160°-170° | 273.0 | 5.2 |
| 170°-180° | 95.6 | 1.8 |
| 0°-30° | 728.4 | 13.7 |
| 0°-40° | 1169.3 | 22.1 |
| 0°-60° | 1996.0 | 37.7 |
| 0°-90° | 2495.1 | 47.1 |
| 90°-120° | 599.4 | 11.3 |
| 90°-150° | 2025.7 | 38.2 |
| 90°-180° | 2805.0 | 52.9 |
| 0°-180° | 5299.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 971 | 971 | 971 | 971 | 971 | |
| 5° | 970 | 967 | 959 | 967 | 966 | 92 |
| 15° | 924 | 920 | 909 | 913 | 911 | 260 |
| 25° | 836 | 831 | 820 | 821 | 818 | 385 |
| 35° | 720 | 714 | 704 | 698 | 694 | 450 |
| 45° | 588 | 582 | 570 | 561 | 559 | 453 |
| 55° | 444 | 442 | 431 | 422 | 417 | 398 |
| 65° | 301 | 297 | 290 | 282 | 278 | 298 |
| 75° | 160 | 156 | 152 | 150 | 149 | 170 |
| 85° | 42 | 42 | 40 | 40 | 40 | 46 |
| 90° | 2 | 11 | 17 | 22 | 24 | 5 |
| 95° | 47 | 54 | 59 | 62 | 62 | 52 |
| 105° | 182 | 183 | 186 | 188 | 191 | 193 |
| 115° | 341 | 341 | 339 | 338 | 338 | 336 |
| 125° | 496 | 496 | 496 | 494 | 492 | 442 |
| 135° | 640 | 645 | 645 | 643 | 641 | 495 |
| 145° | 778 | 781 | 782 | 781 | 779 | 487 |
| 155° | 891 | 891 | 890 | 893 | 890 | 410 |
| 165° | 970 | 968 | 966 | 971 | 968 | 273 |
| 175° | 1009 | 1006 | 1005 | 1010 | 1005 | 96 |
| 180° | 1011 | 1011 | 1011 | 1011 | 1011 | |



TEST NUMBER: P332560

CATALOG NUMBER: SA4XXDIP-C575D810U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 971.1 | 971.1 | 971.1 | 971.1 | 971.1 | 971.1 | 971.1 | 971.1 | 971.1 | 971.1 | 971.1 |
| 2.5° | 973.6 | 973.2 | 972.8 | 972.4 | 972.0 | 971.0 | 969.5 | 968.0 | 966.4 | 964.9 | 966.3 |
| 5° | 970.4 | 969.7 | 969.0 | 968.3 | 967.6 | 966.3 | 964.4 | 962.5 | 960.6 | 958.7 | 960.6 |
| 7.5° | 961.3 | 960.6 | 960.0 | 959.3 | 958.6 | 957.2 | 955.1 | 953.0 | 950.8 | 948.7 | 950.3 |
| 10° | 953.2 | 952.6 | 951.9 | 951.2 | 950.5 | 949.0 | 946.8 | 944.5 | 942.3 | 940.0 | 941.4 |
| 12.5° | 942.7 | 942.0 | 941.3 | 940.6 | 939.9 | 938.4 | 936.0 | 933.6 | 931.2 | 928.8 | 930.3 |
| 15° | 923.7 | 923.0 | 922.3 | 921.6 | 920.9 | 919.3 | 916.7 | 914.1 | 911.5 | 908.9 | 909.9 |
| 17.5° | 900.8 | 899.9 | 899.1 | 898.2 | 897.3 | 895.7 | 893.2 | 890.8 | 888.3 | 885.9 | 886.5 |
| 20° | 884.0 | 883.1 | 882.3 | 881.4 | 880.5 | 878.8 | 876.2 | 873.6 | 871.0 | 868.4 | 868.9 |
| 22.5° | 865.9 | 864.8 | 863.7 | 862.5 | 861.4 | 859.5 | 856.9 | 854.3 | 851.7 | 849.1 | 850.1 |
| 25° | 836.5 | 835.3 | 834.1 | 832.9 | 831.7 | 829.9 | 827.4 | 825.0 | 822.6 | 820.2 | 820.4 |
| 27.5° | 802.9 | 801.7 | 800.4 | 799.2 | 797.9 | 796.2 | 793.9 | 791.7 | 789.4 | 787.2 | 786.8 |
| 30° | 780.5 | 779.1 | 777.7 | 776.3 | 775.0 | 773.1 | 770.9 | 768.6 | 766.4 | 764.2 | 763.5 |
| 32.5° | 756.8 | 755.6 | 754.3 | 753.1 | 751.9 | 750.0 | 747.7 | 745.3 | 742.9 | 740.5 | 739.7 |
| 35° | 719.8 | 718.6 | 717.4 | 716.2 | 715.0 | 713.1 | 710.7 | 708.3 | 705.9 | 703.5 | 702.2 |
| 37.5° | 680.7 | 679.6 | 678.5 | 677.4 | 676.3 | 674.5 | 671.9 | 669.3 | 666.7 | 664.1 | 662.8 |
| 40° | 655.2 | 653.8 | 652.4 | 651.1 | 649.7 | 647.7 | 645.1 | 642.5 | 639.9 | 637.3 | 635.6 |
| 42.5° | 627.8 | 627.0 | 626.2 | 625.3 | 624.5 | 622.6 | 619.8 | 616.9 | 614.0 | 611.2 | 609.2 |
| 45° | 587.5 | 586.3 | 585.1 | 583.9 | 582.7 | 580.7 | 577.9 | 575.1 | 572.4 | 569.6 | 567.7 |
| 47.5° | 545.3 | 544.5 | 543.7 | 542.8 | 542.0 | 540.3 | 537.8 | 535.2 | 532.6 | 530.1 | 527.9 |
| 50° | 516.7 | 516.0 | 515.3 | 514.6 | 513.9 | 512.4 | 510.0 | 507.5 | 505.1 | 502.7 | 500.3 |
| 52.5° | 488.7 | 487.9 | 487.0 | 486.2 | 485.4 | 483.7 | 481.1 | 478.6 | 476.0 | 473.4 | 471.3 |
| 55° | 444.3 | 443.8 | 443.3 | 442.8 | 442.3 | 440.8 | 438.4 | 435.9 | 433.5 | 431.1 | 429.0 |
| 57.5° | 402.0 | 401.4 | 400.8 | 400.2 | 399.6 | 398.2 | 395.8 | 393.4 | 391.0 | 388.6 | 386.6 |
| 60° | 372.7 | 371.9 | 371.0 | 370.1 | 369.3 | 367.7 | 365.5 | 363.2 | 361.0 | 358.7 | 357.2 |
| 62.5° | 344.1 | 343.4 | 342.6 | 341.9 | 341.2 | 339.6 | 337.3 | 334.9 | 332.5 | 330.1 | 328.7 |
| 65° | 301.1 | 300.3 | 299.4 | 298.6 | 297.7 | 296.4 | 294.7 | 292.9 | 291.2 | 289.5 | 287.7 |
| 67.5° | 257.9 | 257.1 | 256.3 | 255.5 | 254.7 | 253.5 | 251.8 | 250.2 | 248.5 | 246.8 | 245.2 |
| 70° | 231.1 | 229.9 | 228.7 | 227.5 | 226.3 | 225.0 | 223.6 | 222.2 | 220.8 | 219.4 | 218.1 |
| 72.5° | 202.5 | 201.3 | 200.1 | 198.8 | 197.6 | 196.5 | 195.4 | 194.3 | 193.2 | 192.0 | 190.9 |
| 75° | 160.3 | 159.4 | 158.6 | 157.7 | 156.8 | 156.0 | 155.1 | 154.2 | 153.4 | 152.5 | 151.8 |
| 77.5° | 120.0 | 119.6 | 119.2 | 118.9 | 118.5 | 117.9 | 117.1 | 116.4 | 115.6 | 114.9 | 114.6 |
| 80° | 95.7 | 95.2 | 94.7 | 94.2 | 93.6 | 93.2 | 92.9 | 92.5 | 92.2 | 91.8 | 91.5 |
| 82.5° | 72.1 | 71.8 | 71.6 | 71.3 | 71.1 | 70.9 | 70.9 | 70.8 | 70.7 | 70.7 | 70.4 |
| 85° | 42.0 | 42.0 | 42.0 | 42.0 | 42.0 | 41.8 | 41.5 | 41.2 | 40.8 | 40.5 | 40.5 |
| 87.5° | 16.7 | 16.9 | 17.1 | 17.4 | 17.6 | 17.8 | 18.0 | 18.1 | 18.2 | 18.4 | 18.6 |
| 90° | 2.3 | 4.3 | 6.2 | 8.1 | 10.0 | 11.6 | 13.0 | 14.4 | 15.8 | 17.2 | 18.2 |
| 92.5° | 16.7 | 18.9 | 21.1 | 23.3 | 25.5 | 27.1 | 28.0 | 29.0 | 30.0 | 31.0 | 31.6 |
| 95° | 46.9 | 48.5 | 50.0 | 51.6 | 53.2 | 54.6 | 55.8 | 57.0 | 58.2 | 59.4 | 59.9 |
| 97.5° | 81.9 | 83.2 | 84.4 | 85.7 | 86.9 | 88.3 | 89.7 | 91.1 | 92.5 | 94.0 | 94.6 |
| 100° | 109.5 | 110.1 | 110.8 | 111.5 | 112.2 | 113.4 | 114.9 | 116.5 | 118.0 | 119.6 | 120.0 |
| 102.5° | 138.2 | 138.5 | 138.8 | 139.1 | 139.3 | 140.2 | 141.6 | 143.0 | 144.5 | 145.9 | 146.4 |
| 105° | 182.2 | 182.3 | 182.5 | 182.7 | 182.9 | 183.3 | 184.0 | 184.7 | 185.4 | 186.1 | 186.6 |
| 107.5° | 228.3 | 228.5 | 228.7 | 228.9 | 229.1 | 229.3 | 229.4 | 229.5 | 229.6 | 229.7 | 230.2 |
| 110° | 259.6 | 259.9 | 260.2 | 260.6 | 260.9 | 261.0 | 260.9 | 260.7 | 260.5 | 260.3 | 260.0 |



TEST NUMBER: P332560

CATALOG NUMBER: SA4XXDIP-C575D810U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 292.1 | 292.1 | 292.2 | 292.3 | 292.4 | 292.2 | 291.9 | 291.6 | 291.3 | 291.0 | 290.9 |
| 115° | 340.9 | 340.9 | 340.9 | 340.9 | 340.9 | 340.7 | 340.3 | 340.0 | 339.6 | 339.3 | 339.1 |
| 117.5° | 386.8 | 387.0 | 387.1 | 387.2 | 387.4 | 387.3 | 387.1 | 386.8 | 386.6 | 386.4 | 385.8 |
| 120° | 417.5 | 418.2 | 418.9 | 419.6 | 420.3 | 420.3 | 419.8 | 419.3 | 418.8 | 418.3 | 417.4 |
| 122.5° | 449.4 | 449.6 | 449.9 | 450.2 | 450.5 | 450.5 | 450.3 | 450.0 | 449.8 | 449.5 | 448.9 |
| 125° | 496.4 | 496.4 | 496.4 | 496.4 | 496.4 | 496.3 | 496.2 | 496.0 | 495.8 | 495.7 | 495.3 |
| 127.5° | 539.1 | 539.6 | 540.2 | 540.7 | 541.2 | 541.3 | 541.0 | 540.8 | 540.5 | 540.2 | 539.9 |
| 130° | 569.1 | 569.7 | 570.2 | 570.7 | 571.2 | 571.5 | 571.5 | 571.5 | 571.5 | 571.5 | 571.1 |
| 132.5° | 599.8 | 600.2 | 600.6 | 600.9 | 601.3 | 601.4 | 601.3 | 601.2 | 601.0 | 600.9 | 600.5 |
| 135° | 640.3 | 641.3 | 642.4 | 643.4 | 644.5 | 645.0 | 645.0 | 645.0 | 645.0 | 645.0 | 644.6 |
| 137.5° | 684.4 | 684.9 | 685.3 | 685.8 | 686.3 | 686.7 | 687.0 | 687.3 | 687.5 | 687.8 | 687.4 |
| 140° | 713.8 | 714.1 | 714.5 | 714.8 | 715.2 | 715.3 | 715.3 | 715.3 | 715.3 | 715.3 | 715.2 |
| 142.5° | 740.7 | 741.0 | 741.4 | 741.7 | 742.1 | 742.2 | 742.0 | 741.9 | 741.7 | 741.6 | 741.6 |
| 145° | 777.9 | 778.6 | 779.3 | 780.0 | 780.7 | 781.1 | 781.3 | 781.4 | 781.6 | 781.8 | 781.6 |
| 147.5° | 814.8 | 815.6 | 816.4 | 817.3 | 818.1 | 818.5 | 818.3 | 818.2 | 818.0 | 817.9 | 817.8 |
| 150° | 837.3 | 838.0 | 838.7 | 839.4 | 840.1 | 840.4 | 840.4 | 840.4 | 840.4 | 840.4 | 840.4 |
| 152.5° | 858.6 | 859.0 | 859.4 | 859.8 | 860.2 | 860.5 | 860.6 | 860.8 | 860.9 | 861.1 | 861.5 |
| 155° | 891.2 | 891.2 | 891.2 | 891.2 | 891.2 | 891.1 | 891.0 | 890.8 | 890.6 | 890.5 | 891.1 |
| 157.5° | 918.8 | 918.4 | 918.1 | 917.8 | 917.5 | 917.3 | 917.3 | 917.3 | 917.2 | 917.2 | 917.7 |
| 160° | 935.0 | 934.8 | 934.7 | 934.5 | 934.3 | 934.1 | 934.0 | 933.8 | 933.6 | 933.5 | 934.0 |
| 162.5° | 950.0 | 949.6 | 949.1 | 948.7 | 948.2 | 947.9 | 947.7 | 947.6 | 947.4 | 947.2 | 948.2 |
| 165° | 970.2 | 969.7 | 969.2 | 968.6 | 968.1 | 967.7 | 967.3 | 967.0 | 966.6 | 966.3 | 967.3 |
| 167.5° | 985.7 | 984.9 | 984.2 | 983.5 | 982.8 | 982.4 | 982.4 | 982.5 | 982.5 | 982.5 | 983.6 |
| 170° | 994.4 | 993.6 | 992.7 | 991.8 | 991.0 | 990.6 | 990.8 | 991.0 | 991.1 | 991.3 | 992.3 |
| 172.5° | 1000.7 | 1000.0 | 999.2 | 998.5 | 997.8 | 997.4 | 997.5 | 997.5 | 997.5 | 997.6 | 998.7 |
| 175° | 1009.3 | 1008.4 | 1007.5 | 1006.7 | 1005.8 | 1005.3 | 1005.1 | 1004.9 | 1004.8 | 1004.6 | 1005.8 |
| 177.5° | 1012.1 | 1011.4 | 1010.7 | 1010.0 | 1009.3 | 1009.0 | 1009.0 | 1009.0 | 1009.0 | 1009.0 | 1009.9 |
| 180° | 1010.8 | 1010.8 | 1010.8 | 1010.8 | 1010.8 | 1010.8 | 1010.8 | 1010.8 | 1010.8 | 1010.8 | 1010.8 |



TEST NUMBER: P332560

CATALOG NUMBER: SA4XXDIP-C575D810U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 971.1 | 971.1 | 971.1 | 971.1 | 971.1 | 971.1 | 971.1 | 971.1 |
| 2.5° | 967.7 | 969.1 | 970.5 | 971.1 | 970.9 | 970.8 | 970.7 | 970.5 |
| 5° | 962.5 | 964.4 | 966.3 | 967.1 | 966.7 | 966.4 | 966.0 | 965.7 |
| 7.5° | 951.8 | 953.3 | 954.8 | 955.5 | 955.3 | 955.1 | 954.9 | 954.6 |
| 10° | 942.8 | 944.2 | 945.6 | 946.1 | 945.7 | 945.4 | 945.0 | 944.7 |
| 12.5° | 931.9 | 933.4 | 934.9 | 935.4 | 934.9 | 934.4 | 934.0 | 933.5 |
| 15° | 911.0 | 912.0 | 913.0 | 913.3 | 912.8 | 912.3 | 911.7 | 911.2 |
| 17.5° | 887.2 | 887.8 | 888.5 | 888.6 | 888.3 | 887.9 | 887.6 | 887.3 |
| 20° | 869.5 | 870.0 | 870.5 | 870.6 | 870.2 | 869.9 | 869.6 | 869.2 |
| 22.5° | 851.0 | 851.9 | 852.9 | 853.0 | 852.4 | 851.8 | 851.2 | 850.5 |
| 25° | 820.5 | 820.7 | 820.9 | 820.6 | 819.9 | 819.2 | 818.5 | 817.8 |
| 27.5° | 786.4 | 785.9 | 785.5 | 784.9 | 784.0 | 783.2 | 782.3 | 781.4 |
| 30° | 762.8 | 762.1 | 761.4 | 760.6 | 759.7 | 758.9 | 758.0 | 757.1 |
| 32.5° | 738.8 | 738.0 | 737.2 | 736.3 | 735.5 | 734.6 | 733.7 | 732.9 |
| 35° | 701.0 | 699.8 | 698.6 | 697.6 | 696.7 | 695.8 | 695.0 | 694.1 |
| 37.5° | 661.5 | 660.1 | 658.8 | 657.6 | 656.5 | 655.3 | 654.2 | 653.0 |
| 40° | 633.9 | 632.1 | 630.4 | 629.1 | 628.2 | 627.4 | 626.5 | 625.6 |
| 42.5° | 607.2 | 605.1 | 603.1 | 601.8 | 601.3 | 600.7 | 600.1 | 599.5 |
| 45° | 565.8 | 563.9 | 562.0 | 560.8 | 560.3 | 559.8 | 559.2 | 558.7 |
| 47.5° | 525.8 | 523.6 | 521.5 | 519.8 | 518.5 | 517.1 | 515.8 | 514.5 |
| 50° | 497.8 | 495.4 | 493.0 | 491.3 | 490.2 | 489.2 | 488.2 | 487.1 |
| 52.5° | 469.1 | 467.0 | 464.9 | 463.1 | 461.8 | 460.5 | 459.2 | 457.9 |
| 55° | 427.0 | 424.9 | 422.8 | 421.2 | 420.2 | 419.2 | 418.1 | 417.1 |
| 57.5° | 384.7 | 382.7 | 380.7 | 379.2 | 378.2 | 377.2 | 376.2 | 375.2 |
| 60° | 355.6 | 354.1 | 352.5 | 351.3 | 350.4 | 349.6 | 348.7 | 347.8 |
| 62.5° | 327.3 | 325.8 | 324.4 | 323.3 | 322.4 | 321.6 | 320.7 | 319.8 |
| 65° | 286.0 | 284.3 | 282.6 | 281.3 | 280.4 | 279.5 | 278.7 | 277.8 |
| 67.5° | 243.5 | 241.9 | 240.2 | 239.2 | 239.0 | 238.8 | 238.5 | 238.3 |
| 70° | 216.7 | 215.3 | 213.9 | 213.0 | 212.4 | 211.9 | 211.4 | 210.9 |
| 72.5° | 189.8 | 188.7 | 187.6 | 186.8 | 186.3 | 185.8 | 185.3 | 184.7 |
| 75° | 151.1 | 150.4 | 149.8 | 149.3 | 149.1 | 149.0 | 148.8 | 148.6 |
| 77.5° | 114.4 | 114.2 | 114.0 | 113.7 | 113.2 | 112.8 | 112.3 | 111.9 |
| 80° | 91.1 | 90.8 | 90.4 | 90.2 | 90.0 | 89.8 | 89.7 | 89.5 |
| 82.5° | 70.2 | 70.0 | 69.8 | 69.6 | 69.5 | 69.3 | 69.1 | 68.9 |
| 85° | 40.5 | 40.5 | 40.5 | 40.4 | 40.2 | 40.0 | 39.9 | 39.7 |
| 87.5° | 18.8 | 19.0 | 19.2 | 19.4 | 19.4 | 19.5 | 19.6 | 19.6 |
| 90° | 19.3 | 20.3 | 21.4 | 22.1 | 22.4 | 22.8 | 23.1 | 23.5 |
| 92.5° | 32.2 | 32.8 | 33.5 | 33.9 | 34.1 | 34.3 | 34.5 | 34.7 |
| 95° | 60.5 | 61.0 | 61.5 | 61.8 | 61.8 | 61.8 | 61.8 | 61.8 |
| 97.5° | 95.2 | 95.8 | 96.5 | 96.8 | 96.8 | 96.8 | 96.8 | 96.8 |
| 100° | 120.3 | 120.7 | 121.0 | 121.2 | 121.2 | 121.2 | 121.2 | 121.2 |
| 102.5° | 146.9 | 147.3 | 147.8 | 148.1 | 148.3 | 148.4 | 148.6 | 148.7 |
| 105° | 187.1 | 187.6 | 188.1 | 188.7 | 189.2 | 189.7 | 190.2 | 190.8 |
| 107.5° | 230.7 | 231.1 | 231.6 | 231.9 | 231.8 | 231.8 | 231.8 | 231.7 |
| 110° | 259.6 | 259.3 | 258.9 | 259.0 | 259.6 | 260.1 | 260.6 | 261.1 |



TEST NUMBER: P332560

CATALOG NUMBER: SA4XXDIP-C575D810U835-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 290.8 | 290.8 | 290.7 | 290.7 | 290.8 | 290.9 | 291.0 | 291.1 |
| 115° | 338.9 | 338.8 | 338.6 | 338.4 | 338.3 | 338.1 | 337.9 | 337.7 |
| 117.5° | 385.2 | 384.6 | 384.0 | 383.5 | 383.2 | 382.8 | 382.5 | 382.1 |
| 120° | 416.5 | 415.6 | 414.8 | 414.5 | 414.9 | 415.2 | 415.6 | 415.9 |
| 122.5° | 448.3 | 447.8 | 447.2 | 446.6 | 445.9 | 445.3 | 444.7 | 444.1 |
| 125° | 495.0 | 494.6 | 494.3 | 493.9 | 493.6 | 493.2 | 492.9 | 492.5 |
| 127.5° | 539.5 | 539.2 | 538.8 | 538.5 | 538.2 | 538.0 | 537.7 | 537.4 |
| 130° | 570.8 | 570.4 | 570.1 | 569.6 | 568.9 | 568.2 | 567.5 | 566.8 |
| 132.5° | 600.2 | 599.8 | 599.5 | 599.2 | 598.9 | 598.6 | 598.3 | 598.1 |
| 135° | 644.3 | 643.9 | 643.6 | 643.1 | 642.6 | 642.1 | 641.6 | 641.1 |
| 137.5° | 686.9 | 686.5 | 686.0 | 685.8 | 685.9 | 686.0 | 686.1 | 686.3 |
| 140° | 715.0 | 714.8 | 714.6 | 714.5 | 714.3 | 714.1 | 713.9 | 713.8 |
| 142.5° | 741.5 | 741.5 | 741.5 | 741.4 | 741.4 | 741.4 | 741.3 | 741.3 |
| 145° | 781.4 | 781.3 | 781.1 | 780.7 | 780.2 | 779.7 | 779.2 | 778.7 |
| 147.5° | 817.6 | 817.5 | 817.3 | 817.2 | 817.0 | 816.8 | 816.7 | 816.5 |
| 150° | 840.4 | 840.4 | 840.4 | 840.3 | 840.2 | 840.0 | 839.8 | 839.6 |
| 152.5° | 861.9 | 862.3 | 862.7 | 862.7 | 862.3 | 861.8 | 861.4 | 860.9 |
| 155° | 891.8 | 892.5 | 893.2 | 893.2 | 892.5 | 891.8 | 891.1 | 890.5 |
| 157.5° | 918.2 | 918.8 | 919.3 | 919.2 | 918.7 | 918.1 | 917.5 | 916.9 |
| 160° | 934.5 | 935.0 | 935.5 | 935.4 | 934.5 | 933.6 | 932.8 | 931.9 |
| 162.5° | 949.1 | 950.0 | 951.0 | 951.0 | 950.1 | 949.3 | 948.4 | 947.5 |
| 165° | 968.4 | 969.4 | 970.5 | 970.6 | 969.9 | 969.2 | 968.5 | 967.9 |
| 167.5° | 984.6 | 985.7 | 986.7 | 986.7 | 985.6 | 984.5 | 983.5 | 982.4 |
| 170° | 993.4 | 994.4 | 995.5 | 995.4 | 994.2 | 993.0 | 991.7 | 990.5 |
| 172.5° | 999.9 | 1001.1 | 1002.3 | 1002.3 | 1001.1 | 999.8 | 998.6 | 997.4 |
| 175° | 1007.0 | 1008.2 | 1009.5 | 1009.5 | 1008.2 | 1007.0 | 1005.8 | 1004.6 |
| 177.5° | 1010.9 | 1011.9 | 1012.9 | 1012.8 | 1011.7 | 1010.6 | 1009.5 | 1008.3 |
| 180° | 1010.8 | 1010.8 | 1010.8 | 1010.8 | 1010.8 | 1010.8 | 1010.8 | 1010.8 |

(END OF REPORT)