

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: P331337-927

Luminaire Tested: **SA2XXDIP-C675D330U927-4F0-1E-UDD-F1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331337-927
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-C675D330U927-4F0-1E-UDD-F1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 675 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
UPLIGHT 330 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3068.4 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.3
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

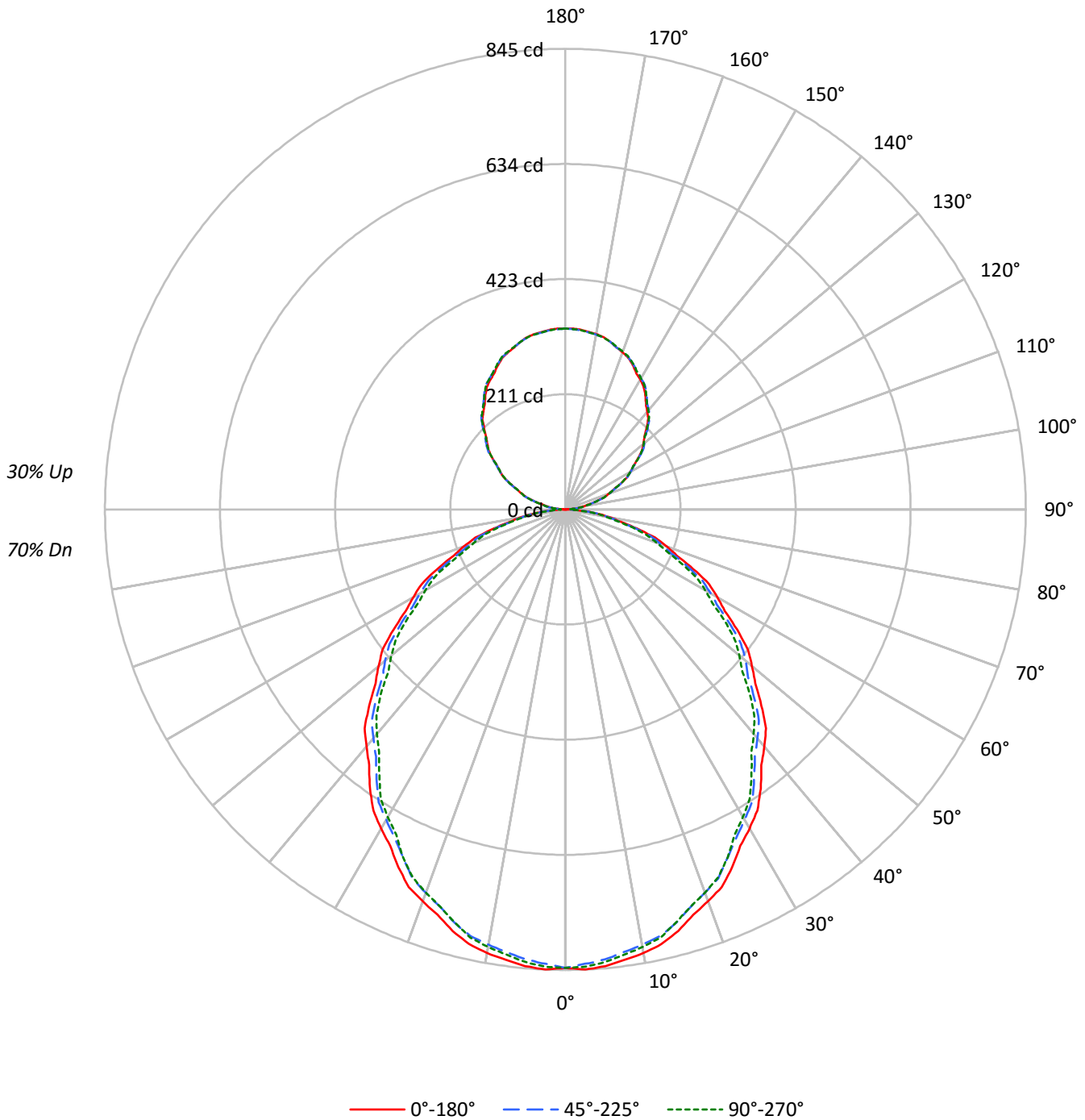
Input Watts (W): 35
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331337-927

CATALOG NUMBER: SA2XXDIP-C675D330U927-4F0-1E-UDD-F1

Luminous Intensity Polar Plot





TEST NUMBER: P331337-927

CATALOG NUMBER: SA2XXDIP-C675D330U927-4F0-1E-UDD-F1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|----|
| RF | 20 | | | | | | | | | 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 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | | | | | | | | | | | | | | | |
| RCR | 0 | 112 | 112 | 112 | 112 | 106 | 106 | 106 | 106 | 94 | 94 | 94 | 84 | 84 | 84 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 70 | | | | | | | | | | | | | | | | |
| | 1 | 102 | 98 | 94 | 90 | 96 | 93 | 89 | 86 | 83 | 80 | 78 | 74 | 72 | 70 | 66 | 64 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 63 | 59 | | | | | | | | | | | | | | | | |
| | 2 | 93 | 85 | 79 | 74 | 88 | 81 | 75 | 70 | 73 | 68 | 64 | 65 | 61 | 58 | 58 | 55 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 49 | | | | | | | | | | | | | | | | |
| | 3 | 85 | 75 | 68 | 61 | 80 | 71 | 64 | 59 | 64 | 59 | 54 | 57 | 53 | 50 | 51 | 48 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 42 | | | | | | | | | | | | | | | | |
| | 4 | 78 | 67 | 58 | 52 | 73 | 63 | 56 | 50 | 57 | 51 | 46 | 51 | 46 | 43 | 46 | 42 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 36 | | | | | | | | | | | | | | | | |
| | 5 | 72 | 59 | 51 | 45 | 67 | 57 | 49 | 43 | 51 | 45 | 40 | 46 | 41 | 37 | 41 | 37 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 31 | | | | | | | | | | | | | | | | |
| | 6 | 66 | 53 | 45 | 39 | 62 | 51 | 43 | 38 | 46 | 40 | 35 | 42 | 36 | 32 | 38 | 33 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 27 | | | | | | | | | | | | | | | | |
| | 7 | 61 | 48 | 40 | 34 | 58 | 46 | 39 | 33 | 42 | 36 | 31 | 38 | 33 | 29 | 34 | 30 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 24 | | | | | | | | | | | | | | | | |
| | 8 | 57 | 44 | 36 | 31 | 54 | 42 | 35 | 30 | 38 | 32 | 28 | 35 | 30 | 26 | 32 | 27 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 22 | | | | | | | | | | | | | | | | |
| | 9 | 53 | 40 | 33 | 27 | 50 | 39 | 31 | 27 | 35 | 29 | 25 | 32 | 27 | 23 | 29 | 25 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 20 | | | | | | | | | | | | | | | | |
| | 10 | 50 | 37 | 30 | 25 | 47 | 36 | 29 | 24 | 33 | 27 | 23 | 30 | 25 | 21 | 27 | 23 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 18 | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 13580 | 13580 | 13580 |
| 5° | 13632 | 13434 | 13514 |
| 10° | 13550 | 13298 | 13365 |
| 15° | 13382 | 13125 | 13112 |
| 20° | 13144 | 12866 | 12854 |
| 25° | 12909 | 12549 | 12549 |
| 30° | 12603 | 12258 | 12152 |
| 35° | 12321 | 11907 | 11732 |
| 40° | 11965 | 11556 | 11335 |
| 45° | 11615 | 11209 | 10930 |
| 50° | 11233 | 10846 | 10462 |
| 55° | 10835 | 10427 | 10038 |
| 60° | 10395 | 9923 | 9558 |
| 65° | 9918 | 9425 | 8993 |
| 70° | 9314 | 8818 | 8398 |
| 75° | 8478 | 8122 | 7923 |
| 80° | 7522 | 7290 | 6918 |
| 85° | 6150 | 5835 | 5243 |



TEST NUMBER: P331337-927

CATALOG NUMBER: SA2XXDIP-C675D330U927-4F0-1E-UDD-F1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 79.1 | 2.6 |
| 10°-20° | 222.5 | 7.3 |
| 20°-30° | 327.1 | 10.7 |
| 30°-40° | 379.9 | 12.4 |
| 40°-50° | 379.5 | 12.4 |
| 50°-60° | 331.0 | 10.8 |
| 60°-70° | 244.7 | 8.0 |
| 70°-80° | 138.6 | 4.5 |
| 80°-90° | 38.6 | 1.3 |
| 90°-100° | 21.0 | 0.7 |
| 100°-110° | 65.3 | 2.1 |
| 110°-120° | 111.6 | 3.6 |
| 120°-130° | 146.7 | 4.8 |
| 130°-140° | 164.7 | 5.4 |
| 140°-150° | 161.5 | 5.3 |
| 150°-160° | 135.4 | 4.4 |
| 160°-170° | 89.8 | 2.9 |
| 170°-180° | 31.4 | 1.0 |
| 0°-30° | 628.7 | 20.5 |
| 0°-40° | 1008.6 | 32.9 |
| 0°-60° | 1719.1 | 56.0 |
| 0°-90° | 2141.1 | 69.8 |
| 90°-120° | 197.9 | 6.4 |
| 90°-150° | 670.7 | 21.9 |
| 90°-180° | 927.0 | 30.2 |
| 0°-180° | 3068.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 841 | 841 | 841 | 841 | 841 | |
| 5° | 841 | 838 | 829 | 835 | 834 | 80 |
| 15° | 801 | 795 | 785 | 788 | 784 | 225 |
| 25° | 725 | 718 | 704 | 706 | 704 | 333 |
| 35° | 625 | 617 | 604 | 599 | 595 | 390 |
| 45° | 509 | 503 | 491 | 482 | 479 | 392 |
| 55° | 385 | 380 | 370 | 361 | 357 | 344 |
| 65° | 260 | 254 | 247 | 240 | 235 | 257 |
| 75° | 136 | 134 | 130 | 126 | 127 | 145 |
| 85° | 33 | 32 | 32 | 29 | 28 | 38 |
| 90° | 0 | 4 | 10 | 9 | 10 | 2 |
| 95° | 15 | 17 | 18 | 18 | 17 | 17 |
| 105° | 60 | 61 | 62 | 62 | 62 | 64 |
| 115° | 112 | 114 | 113 | 113 | 112 | 111 |
| 125° | 163 | 165 | 164 | 164 | 163 | 146 |
| 135° | 211 | 214 | 214 | 214 | 213 | 163 |
| 145° | 256 | 258 | 259 | 260 | 259 | 160 |
| 155° | 292 | 293 | 294 | 295 | 295 | 135 |
| 165° | 318 | 318 | 318 | 320 | 318 | 90 |
| 175° | 331 | 330 | 330 | 331 | 330 | 31 |
| 180° | 332 | 332 | 332 | 332 | 332 | |



TEST NUMBER: P331337-927

CATALOG NUMBER: SA2XXDIP-C675D330U927-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 841.1 | 841.1 | 841.1 | 841.1 | 841.1 | 841.1 | 841.1 | 841.1 | 841.1 | 841.1 | 841.1 |
| 2.5° | 844.9 | 844.2 | 843.5 | 842.8 | 842.1 | 840.9 | 839.3 | 837.7 | 836.1 | 834.6 | 836.0 |
| 5° | 841.1 | 840.3 | 839.6 | 838.9 | 838.2 | 836.9 | 834.9 | 832.9 | 830.9 | 828.9 | 830.4 |
| 7.5° | 833.6 | 832.5 | 831.4 | 830.3 | 829.2 | 827.6 | 825.6 | 823.6 | 821.6 | 819.5 | 820.9 |
| 10° | 826.5 | 825.2 | 823.9 | 822.7 | 821.5 | 819.8 | 817.6 | 815.5 | 813.3 | 811.1 | 812.5 |
| 12.5° | 816.8 | 815.7 | 814.5 | 813.4 | 812.3 | 810.7 | 808.5 | 806.4 | 804.2 | 802.1 | 803.1 |
| 15° | 800.6 | 799.5 | 798.4 | 797.4 | 796.3 | 794.6 | 792.3 | 789.9 | 787.6 | 785.2 | 786.0 |
| 17.5° | 779.9 | 778.8 | 777.8 | 776.7 | 775.6 | 773.9 | 771.5 | 769.1 | 766.8 | 764.4 | 765.2 |
| 20° | 765.0 | 764.0 | 762.9 | 761.8 | 760.7 | 758.9 | 756.4 | 753.9 | 751.4 | 748.8 | 749.4 |
| 22.5° | 750.1 | 748.6 | 747.1 | 745.6 | 744.1 | 742.2 | 739.8 | 737.4 | 735.1 | 732.7 | 732.8 |
| 25° | 724.6 | 723.2 | 721.8 | 720.3 | 718.8 | 716.6 | 713.5 | 710.5 | 707.4 | 704.4 | 704.7 |
| 27.5° | 695.5 | 694.2 | 692.9 | 691.6 | 690.3 | 688.5 | 686.0 | 683.7 | 681.2 | 678.8 | 678.3 |
| 30° | 676.0 | 674.6 | 673.2 | 671.8 | 670.3 | 668.3 | 665.6 | 662.9 | 660.2 | 657.5 | 657.0 |
| 32.5° | 655.4 | 654.2 | 653.1 | 651.9 | 650.8 | 648.8 | 645.9 | 643.1 | 640.2 | 637.4 | 636.4 |
| 35° | 625.1 | 623.4 | 621.5 | 619.7 | 617.9 | 615.6 | 612.8 | 609.8 | 607.0 | 604.1 | 603.0 |
| 37.5° | 591.0 | 589.4 | 587.8 | 586.2 | 584.7 | 582.4 | 579.6 | 576.7 | 573.9 | 570.9 | 569.6 |
| 40° | 567.7 | 566.3 | 564.8 | 563.4 | 562.0 | 559.8 | 556.9 | 554.1 | 551.2 | 548.3 | 546.7 |
| 42.5° | 545.1 | 543.6 | 542.2 | 540.7 | 539.3 | 537.2 | 534.2 | 531.4 | 528.5 | 525.7 | 523.9 |
| 45° | 508.7 | 507.4 | 506.1 | 504.9 | 503.7 | 501.7 | 499.0 | 496.3 | 493.6 | 490.9 | 488.9 |
| 47.5° | 472.5 | 471.3 | 470.1 | 468.9 | 467.7 | 465.7 | 462.9 | 460.1 | 457.3 | 454.5 | 452.4 |
| 50° | 447.2 | 446.3 | 445.4 | 444.5 | 443.6 | 441.9 | 439.4 | 436.9 | 434.4 | 431.8 | 429.4 |
| 52.5° | 422.6 | 421.4 | 420.3 | 419.1 | 417.9 | 416.1 | 413.8 | 411.4 | 409.0 | 406.6 | 404.6 |
| 55° | 384.9 | 383.9 | 382.8 | 381.7 | 380.6 | 379.0 | 376.8 | 374.7 | 372.6 | 370.4 | 368.2 |
| 57.5° | 347.1 | 346.3 | 345.4 | 344.5 | 343.6 | 342.1 | 339.7 | 337.3 | 334.9 | 332.6 | 330.4 |
| 60° | 321.9 | 321.2 | 320.4 | 319.7 | 319.0 | 317.3 | 314.9 | 312.4 | 309.8 | 307.3 | 305.3 |
| 62.5° | 297.3 | 296.1 | 295.0 | 293.8 | 292.7 | 291.1 | 289.2 | 287.2 | 285.3 | 283.4 | 281.5 |
| 65° | 259.6 | 258.5 | 257.5 | 256.4 | 255.2 | 253.8 | 252.1 | 250.3 | 248.4 | 246.7 | 245.0 |
| 67.5° | 221.3 | 220.4 | 219.5 | 218.6 | 217.8 | 216.6 | 214.9 | 213.3 | 211.8 | 210.1 | 208.8 |
| 70° | 197.3 | 196.6 | 195.9 | 195.2 | 194.5 | 193.3 | 191.6 | 190.0 | 188.5 | 186.8 | 185.5 |
| 72.5° | 172.8 | 172.0 | 171.3 | 170.6 | 169.8 | 169.0 | 167.9 | 166.9 | 165.9 | 164.8 | 163.6 |
| 75° | 135.9 | 135.5 | 135.1 | 134.8 | 134.4 | 133.8 | 132.9 | 132.0 | 131.1 | 130.2 | 129.1 |
| 77.5° | 102.9 | 102.3 | 101.6 | 101.0 | 100.4 | 100.0 | 99.6 | 99.2 | 98.9 | 98.5 | 98.0 |
| 80° | 80.9 | 80.7 | 80.5 | 80.3 | 80.2 | 79.9 | 79.5 | 79.1 | 78.8 | 78.4 | 77.9 |
| 82.5° | 60.2 | 60.1 | 60.1 | 60.0 | 60.0 | 59.9 | 59.7 | 59.5 | 59.3 | 59.0 | 58.4 |
| 85° | 33.2 | 33.0 | 32.8 | 32.6 | 32.4 | 32.2 | 32.1 | 31.9 | 31.7 | 31.5 | 31.0 |
| 87.5° | 11.7 | 11.6 | 11.4 | 11.2 | 11.2 | 11.1 | 11.1 | 11.0 | 11.0 | 11.0 | 10.5 |
| 90° | 0.3 | 1.0 | 1.7 | 2.5 | 3.2 | 4.4 | 5.7 | 7.1 | 8.4 | 9.8 | 9.7 |
| 92.5° | 5.0 | 5.5 | 6.1 | 6.7 | 7.2 | 7.6 | 7.9 | 8.2 | 8.6 | 8.9 | 9.0 |
| 95° | 14.6 | 15.2 | 15.8 | 16.4 | 17.0 | 17.4 | 17.5 | 17.7 | 17.8 | 17.9 | 17.9 |
| 97.5° | 26.6 | 27.2 | 27.6 | 28.2 | 28.8 | 29.2 | 29.4 | 29.6 | 29.9 | 30.1 | 30.1 |
| 100° | 35.6 | 36.0 | 36.5 | 37.1 | 37.5 | 37.9 | 38.0 | 38.3 | 38.4 | 38.7 | 38.7 |
| 102.5° | 44.9 | 45.3 | 45.7 | 46.1 | 46.5 | 46.9 | 47.1 | 47.3 | 47.5 | 47.8 | 47.8 |
| 105° | 60.2 | 60.4 | 60.5 | 60.8 | 60.9 | 61.1 | 61.2 | 61.3 | 61.5 | 61.6 | 61.7 |
| 107.5° | 75.5 | 75.8 | 76.0 | 76.4 | 76.6 | 76.8 | 76.8 | 76.8 | 76.8 | 76.8 | 76.8 |
| 110° | 85.4 | 85.7 | 86.1 | 86.5 | 86.8 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 | 87.1 |



TEST NUMBER: P331337-927

CATALOG NUMBER: SA2XXDIP-C675D330U927-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 96.1 | 96.5 | 96.9 | 97.2 | 97.6 | 97.8 | 97.7 | 97.7 | 97.6 | 97.6 | 97.4 |
| 115° | 111.9 | 112.3 | 112.7 | 113.0 | 113.4 | 113.6 | 113.4 | 113.3 | 113.2 | 113.0 | 113.0 |
| 117.5° | 127.7 | 128.3 | 128.7 | 129.2 | 129.8 | 129.8 | 129.4 | 129.1 | 128.7 | 128.4 | 128.3 |
| 120° | 138.2 | 138.8 | 139.3 | 139.7 | 140.2 | 140.2 | 139.7 | 139.3 | 138.8 | 138.2 | 138.2 |
| 122.5° | 147.9 | 148.5 | 149.1 | 149.6 | 150.3 | 150.4 | 150.0 | 149.7 | 149.3 | 149.0 | 148.9 |
| 125° | 162.9 | 163.4 | 164.0 | 164.5 | 165.1 | 165.3 | 165.1 | 164.9 | 164.8 | 164.5 | 164.4 |
| 127.5° | 177.5 | 178.2 | 179.0 | 179.6 | 180.3 | 180.5 | 180.4 | 180.1 | 179.9 | 179.7 | 179.4 |
| 130° | 186.7 | 187.5 | 188.3 | 189.1 | 189.9 | 190.3 | 190.1 | 190.0 | 189.9 | 189.7 | 189.6 |
| 132.5° | 197.0 | 197.6 | 198.3 | 198.9 | 199.6 | 199.9 | 199.9 | 200.0 | 200.0 | 200.0 | 199.8 |
| 135° | 210.7 | 211.4 | 212.1 | 212.8 | 213.5 | 213.9 | 214.0 | 214.1 | 214.3 | 214.4 | 214.3 |
| 137.5° | 225.2 | 225.8 | 226.3 | 227.0 | 227.5 | 227.8 | 228.0 | 228.1 | 228.3 | 228.5 | 228.5 |
| 140° | 234.0 | 234.6 | 235.1 | 235.7 | 236.2 | 236.6 | 236.9 | 237.3 | 237.6 | 237.9 | 237.9 |
| 142.5° | 243.0 | 243.5 | 244.1 | 244.6 | 245.2 | 245.6 | 245.7 | 246.0 | 246.2 | 246.4 | 246.4 |
| 145° | 255.8 | 256.3 | 256.7 | 257.1 | 257.5 | 257.9 | 258.3 | 258.7 | 259.0 | 259.4 | 259.5 |
| 147.5° | 267.3 | 267.8 | 268.3 | 268.9 | 269.3 | 269.7 | 270.0 | 270.3 | 270.5 | 270.8 | 270.9 |
| 150° | 275.1 | 275.5 | 275.8 | 276.2 | 276.6 | 276.9 | 277.2 | 277.4 | 277.7 | 277.9 | 278.1 |
| 152.5° | 282.1 | 282.4 | 282.8 | 283.2 | 283.5 | 283.9 | 284.2 | 284.5 | 284.8 | 285.1 | 285.3 |
| 155° | 292.5 | 292.6 | 292.9 | 293.0 | 293.2 | 293.4 | 293.6 | 293.7 | 294.0 | 294.1 | 294.5 |
| 157.5° | 301.3 | 301.5 | 301.6 | 301.7 | 301.9 | 302.0 | 302.1 | 302.2 | 302.3 | 302.5 | 302.9 |
| 160° | 306.7 | 306.9 | 307.0 | 307.1 | 307.2 | 307.4 | 307.4 | 307.4 | 307.5 | 307.6 | 307.9 |
| 162.5° | 311.6 | 311.7 | 311.7 | 311.7 | 311.8 | 311.8 | 311.9 | 312.0 | 312.0 | 312.0 | 312.5 |
| 165° | 318.2 | 318.1 | 318.1 | 318.1 | 318.0 | 317.9 | 317.9 | 317.9 | 317.9 | 317.9 | 318.4 |
| 167.5° | 323.7 | 323.5 | 323.4 | 323.1 | 323.0 | 322.9 | 322.8 | 322.8 | 322.8 | 322.8 | 323.2 |
| 170° | 326.6 | 326.5 | 326.2 | 326.1 | 325.9 | 325.7 | 325.7 | 325.6 | 325.6 | 325.5 | 325.9 |
| 172.5° | 328.6 | 328.4 | 328.3 | 328.0 | 327.9 | 327.7 | 327.7 | 327.6 | 327.6 | 327.5 | 328.0 |
| 175° | 331.1 | 330.9 | 330.7 | 330.5 | 330.3 | 330.2 | 330.1 | 329.9 | 329.8 | 329.7 | 330.1 |
| 177.5° | 332.1 | 331.9 | 331.8 | 331.7 | 331.5 | 331.4 | 331.3 | 331.2 | 331.1 | 331.0 | 331.3 |
| 180° | 331.7 | 331.7 | 331.7 | 331.7 | 331.7 | 331.7 | 331.7 | 331.7 | 331.7 | 331.7 | 331.7 |



TEST NUMBER: P331337-927

CATALOG NUMBER: SA2XXDIP-C675D330U927-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 841.1 | 841.1 | 841.1 | 841.1 | 841.1 | 841.1 | 841.1 | 841.1 |
| 2.5° | 837.4 | 838.9 | 840.3 | 840.9 | 840.6 | 840.3 | 840.0 | 839.8 |
| 5° | 831.8 | 833.2 | 834.6 | 835.2 | 834.9 | 834.5 | 834.2 | 833.8 |
| 7.5° | 822.4 | 823.9 | 825.3 | 825.8 | 825.4 | 825.1 | 824.7 | 824.3 |
| 10° | 814.0 | 815.5 | 816.9 | 817.3 | 816.8 | 816.3 | 815.7 | 815.2 |
| 12.5° | 804.1 | 805.1 | 806.1 | 806.4 | 806.0 | 805.6 | 805.3 | 804.9 |
| 15° | 786.7 | 787.4 | 788.1 | 788.1 | 787.1 | 786.2 | 785.4 | 784.4 |
| 17.5° | 766.0 | 766.8 | 767.7 | 767.7 | 766.8 | 766.0 | 765.1 | 764.2 |
| 20° | 750.0 | 750.5 | 751.0 | 750.9 | 750.2 | 749.5 | 748.8 | 748.1 |
| 22.5° | 732.9 | 733.0 | 733.1 | 732.9 | 732.5 | 732.1 | 731.7 | 731.3 |
| 25° | 705.1 | 705.4 | 705.8 | 705.8 | 705.4 | 705.1 | 704.7 | 704.4 |
| 27.5° | 677.7 | 677.2 | 676.7 | 676.0 | 675.1 | 674.2 | 673.4 | 672.5 |
| 30° | 656.4 | 655.8 | 655.3 | 654.7 | 653.9 | 653.2 | 652.5 | 651.8 |
| 32.5° | 635.5 | 634.5 | 633.5 | 632.7 | 632.0 | 631.3 | 630.5 | 629.8 |
| 35° | 602.0 | 600.9 | 599.8 | 598.8 | 597.9 | 597.0 | 596.1 | 595.2 |
| 37.5° | 568.3 | 567.0 | 565.6 | 564.5 | 563.6 | 562.8 | 562.0 | 561.1 |
| 40° | 545.1 | 543.4 | 541.9 | 540.7 | 540.0 | 539.2 | 538.5 | 537.8 |
| 42.5° | 522.1 | 520.4 | 518.6 | 517.2 | 516.2 | 515.2 | 514.2 | 513.2 |
| 45° | 487.0 | 485.0 | 483.0 | 481.6 | 480.9 | 480.2 | 479.5 | 478.7 |
| 47.5° | 450.4 | 448.2 | 446.2 | 444.6 | 443.5 | 442.5 | 441.5 | 440.5 |
| 50° | 426.8 | 424.3 | 421.8 | 420.1 | 419.1 | 418.3 | 417.4 | 416.5 |
| 52.5° | 402.4 | 400.4 | 398.3 | 396.6 | 395.5 | 394.3 | 393.1 | 391.9 |
| 55° | 366.1 | 363.9 | 361.8 | 360.2 | 359.3 | 358.5 | 357.5 | 356.6 |
| 57.5° | 328.3 | 326.1 | 324.1 | 322.7 | 321.9 | 321.3 | 320.6 | 319.9 |
| 60° | 303.3 | 301.3 | 299.4 | 298.2 | 297.6 | 297.1 | 296.5 | 296.0 |
| 62.5° | 279.7 | 277.9 | 276.1 | 274.8 | 274.1 | 273.4 | 272.7 | 272.0 |
| 65° | 243.4 | 241.8 | 240.2 | 238.9 | 238.1 | 237.1 | 236.2 | 235.4 |
| 67.5° | 207.6 | 206.4 | 205.1 | 204.1 | 203.4 | 202.6 | 201.9 | 201.2 |
| 70° | 184.3 | 183.1 | 181.8 | 180.8 | 180.1 | 179.4 | 178.6 | 177.9 |
| 72.5° | 162.3 | 161.1 | 159.8 | 158.8 | 158.3 | 157.7 | 157.2 | 156.5 |
| 75° | 128.0 | 127.0 | 125.9 | 125.6 | 125.9 | 126.3 | 126.6 | 127.0 |
| 77.5° | 97.4 | 96.9 | 96.3 | 95.9 | 95.3 | 94.8 | 94.3 | 93.8 |
| 80° | 77.4 | 76.8 | 76.3 | 75.8 | 75.5 | 75.1 | 74.8 | 74.4 |
| 82.5° | 57.7 | 57.0 | 56.3 | 55.9 | 55.8 | 55.8 | 55.7 | 55.6 |
| 85° | 30.5 | 29.9 | 29.4 | 29.0 | 28.8 | 28.7 | 28.5 | 28.3 |
| 87.5° | 10.1 | 9.7 | 9.2 | 8.9 | 8.8 | 8.6 | 8.5 | 8.4 |
| 90° | 9.6 | 9.4 | 9.3 | 9.3 | 9.3 | 9.4 | 9.4 | 9.5 |
| 92.5° | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 |
| 95° | 17.9 | 17.9 | 17.9 | 17.8 | 17.7 | 17.6 | 17.5 | 17.3 |
| 97.5° | 30.1 | 30.1 | 30.1 | 30.1 | 30.1 | 30.1 | 30.1 | 30.0 |
| 100° | 38.7 | 38.7 | 38.7 | 38.6 | 38.5 | 38.5 | 38.4 | 38.3 |
| 102.5° | 47.9 | 47.9 | 48.0 | 48.0 | 47.9 | 47.8 | 47.8 | 47.8 |
| 105° | 61.8 | 61.9 | 62.1 | 62.1 | 62.1 | 62.1 | 62.1 | 62.1 |
| 107.5° | 76.8 | 76.9 | 76.9 | 76.8 | 76.5 | 76.3 | 76.0 | 75.7 |
| 110° | 87.1 | 87.1 | 87.1 | 87.0 | 86.7 | 86.6 | 86.4 | 86.2 |



TEST NUMBER: P331337-927

CATALOG NUMBER: SA2XXDIP-C675D330U927-4F0-1E-UDD-F1

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 97.3 | 97.1 | 97.0 | 96.8 | 96.7 | 96.6 | 96.4 | 96.3 |
| 115° | 113.0 | 112.9 | 112.8 | 112.7 | 112.5 | 112.3 | 112.2 | 111.9 |
| 117.5° | 128.1 | 127.9 | 127.8 | 127.6 | 127.5 | 127.3 | 127.1 | 126.9 |
| 120° | 138.2 | 138.2 | 138.2 | 138.2 | 138.0 | 137.8 | 137.6 | 137.4 |
| 122.5° | 148.7 | 148.5 | 148.4 | 148.3 | 148.1 | 148.0 | 147.8 | 147.7 |
| 125° | 164.2 | 164.0 | 163.8 | 163.7 | 163.7 | 163.6 | 163.5 | 163.4 |
| 127.5° | 179.3 | 179.0 | 178.8 | 178.6 | 178.4 | 178.2 | 178.0 | 177.8 |
| 130° | 189.5 | 189.4 | 189.3 | 189.1 | 188.9 | 188.5 | 188.3 | 188.1 |
| 132.5° | 199.5 | 199.2 | 199.0 | 198.8 | 198.5 | 198.4 | 198.1 | 198.0 |
| 135° | 214.3 | 214.2 | 214.1 | 214.0 | 213.8 | 213.7 | 213.5 | 213.3 |
| 137.5° | 228.4 | 228.3 | 228.3 | 228.1 | 227.9 | 227.7 | 227.4 | 227.1 |
| 140° | 237.9 | 237.9 | 237.9 | 237.7 | 237.5 | 237.3 | 237.0 | 236.8 |
| 142.5° | 246.5 | 246.5 | 246.6 | 246.5 | 246.3 | 246.0 | 245.7 | 245.5 |
| 145° | 259.6 | 259.6 | 259.7 | 259.6 | 259.4 | 259.1 | 258.9 | 258.6 |
| 147.5° | 271.0 | 271.2 | 271.3 | 271.2 | 271.0 | 270.8 | 270.5 | 270.3 |
| 150° | 278.3 | 278.5 | 278.7 | 278.7 | 278.5 | 278.3 | 278.1 | 277.9 |
| 152.5° | 285.6 | 285.8 | 286.1 | 286.1 | 285.8 | 285.6 | 285.3 | 285.1 |
| 155° | 294.8 | 295.1 | 295.4 | 295.5 | 295.2 | 295.1 | 294.9 | 294.7 |
| 157.5° | 303.2 | 303.7 | 304.1 | 304.2 | 303.9 | 303.6 | 303.3 | 303.0 |
| 160° | 308.3 | 308.7 | 309.1 | 309.1 | 308.9 | 308.6 | 308.4 | 308.2 |
| 162.5° | 312.9 | 313.3 | 313.8 | 313.8 | 313.5 | 313.2 | 312.9 | 312.6 |
| 165° | 318.8 | 319.2 | 319.6 | 319.7 | 319.4 | 319.1 | 318.8 | 318.5 |
| 167.5° | 323.7 | 324.1 | 324.6 | 324.6 | 324.3 | 323.9 | 323.6 | 323.3 |
| 170° | 326.4 | 326.8 | 327.3 | 327.3 | 326.9 | 326.5 | 326.1 | 325.7 |
| 172.5° | 328.4 | 328.8 | 329.2 | 329.3 | 328.9 | 328.5 | 328.2 | 327.8 |
| 175° | 330.6 | 331.0 | 331.4 | 331.4 | 331.1 | 330.7 | 330.3 | 329.9 |
| 177.5° | 331.6 | 331.8 | 332.2 | 332.2 | 331.8 | 331.6 | 331.3 | 331.0 |
| 180° | 331.7 | 331.7 | 331.7 | 331.7 | 331.7 | 331.7 | 331.7 | 331.7 |

(END OF REPORT)