

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: P331423-930

Luminaire Tested: **SA2XXDIP-C1005D330U930-4F0-1E-UDD-D**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331423-930  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA2XXDIP-C1005D330U930-4F0-1E-UDD-D  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1005 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 330 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

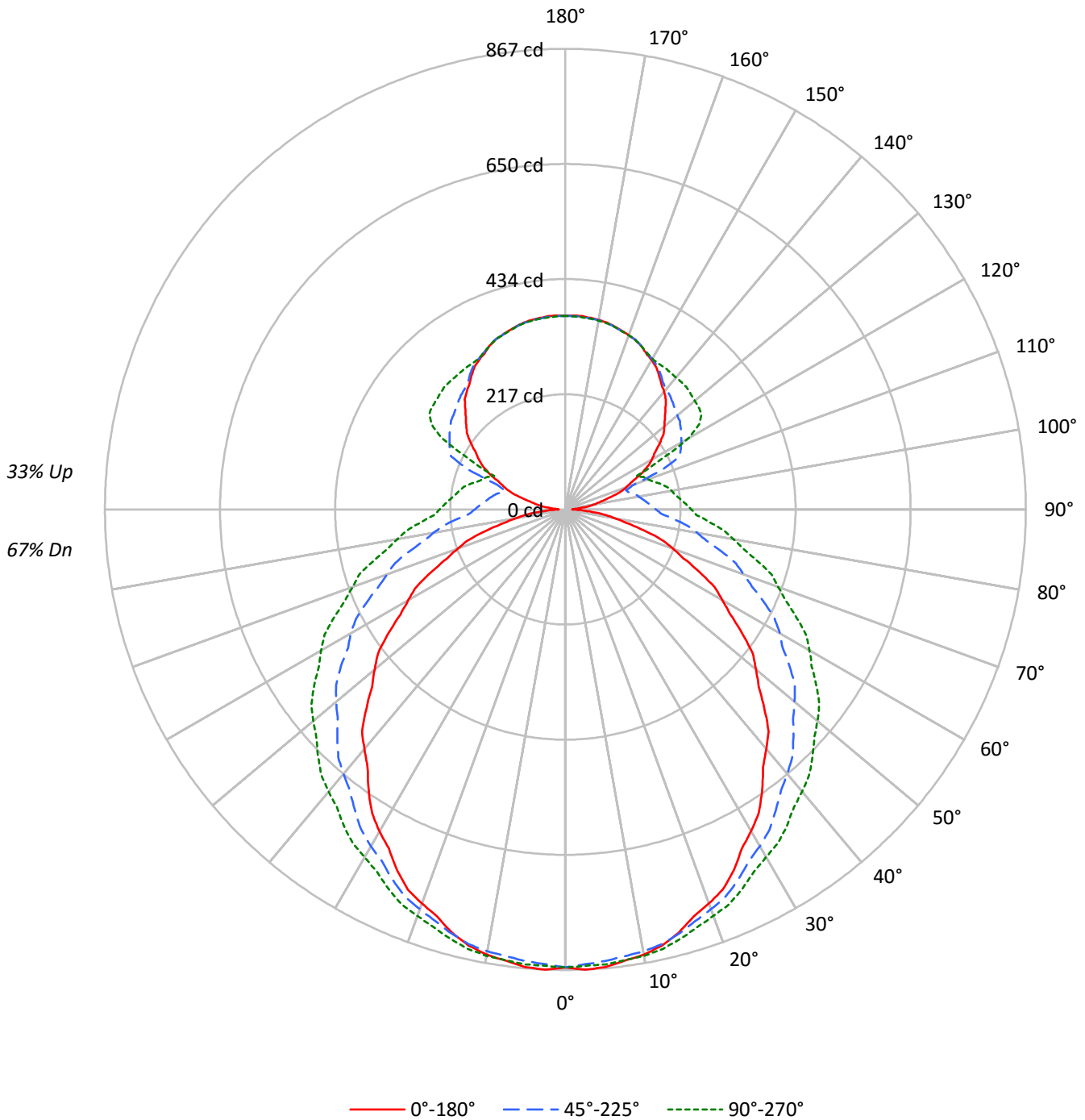
Lumens per Lamp: N/A  
Luminaire Lumens: 4357.6 lumens  
Efficiency: N/A  
Efficacy: 87.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.42  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.08')  
CIE Type: Semi-Direct

Input Watts (W): 49.8  
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: P331423-930  
CATALOG NUMBER: SA2XXDIP-C1005D330U930-4F0-1E-UDD-D

### Luminous Intensity Polar Plot





TEST NUMBER: P331423-930

CATALOG NUMBER: SA2XXDIP-C1005D330U930-4F0-1E-UDD-D

**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   | 111 | 111 | 111 | 111 | 105 | 105 | 105 | 105 | 93 | 93 | 93 | 82 | 82 | 82 | 72 | 72 | 72 | 67 |
| 1   | 100 | 94  | 90  | 85  | 93  | 89  | 85  | 81  | 78 | 75 | 72 | 69 | 67 | 64 | 60 | 58 | 57 | 52 |
| 2   | 90  | 81  | 74  | 68  | 84  | 77  | 70  | 65  | 68 | 63 | 58 | 59 | 56 | 52 | 52 | 49 | 46 | 42 |
| 3   | 82  | 71  | 62  | 56  | 76  | 67  | 59  | 53  | 59 | 53 | 48 | 52 | 47 | 43 | 45 | 42 | 38 | 35 |
| 4   | 74  | 62  | 53  | 47  | 70  | 59  | 51  | 45  | 52 | 46 | 40 | 46 | 41 | 36 | 40 | 36 | 33 | 29 |
| 5   | 68  | 55  | 46  | 40  | 64  | 52  | 44  | 38  | 46 | 40 | 35 | 41 | 36 | 31 | 36 | 32 | 28 | 25 |
| 6   | 63  | 50  | 41  | 34  | 59  | 47  | 39  | 33  | 42 | 35 | 30 | 37 | 31 | 27 | 33 | 28 | 25 | 22 |
| 7   | 58  | 45  | 36  | 30  | 54  | 42  | 34  | 29  | 38 | 31 | 26 | 34 | 28 | 24 | 30 | 25 | 22 | 19 |
| 8   | 54  | 41  | 32  | 26  | 50  | 38  | 31  | 25  | 34 | 28 | 23 | 31 | 25 | 21 | 27 | 23 | 19 | 17 |
| 9   | 50  | 37  | 29  | 24  | 47  | 35  | 28  | 23  | 32 | 25 | 21 | 28 | 23 | 19 | 25 | 21 | 17 | 15 |
| 10  | 47  | 34  | 26  | 21  | 44  | 32  | 25  | 20  | 29 | 23 | 19 | 26 | 21 | 17 | 23 | 19 | 16 | 14 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 13919 | 13919 | 13919 |
| 5°  | 13988 | 13400 | 13350 |
| 10° | 13899 | 13004 | 12858 |
| 15° | 13709 | 12584 | 12339 |
| 20° | 13467 | 12136 | 11842 |
| 25° | 13227 | 11701 | 11390 |
| 30° | 12890 | 11257 | 10936 |
| 35° | 12550 | 10828 | 10617 |
| 40° | 12191 | 10461 | 10297 |
| 45° | 11850 | 10133 | 10022 |
| 50° | 11485 | 9837  | 9754  |
| 55° | 11101 | 9519  | 9479  |
| 60° | 10631 | 9187  | 9189  |
| 65° | 10145 | 8801  | 8846  |
| 70° | 9596  | 8384  | 8474  |
| 75° | 8897  | 7976  | 8132  |
| 80° | 7792  | 7559  | 7784  |
| 85° | 6733  | 7197  | 7515  |



TEST NUMBER: P331423-930

CATALOG NUMBER: SA2XXDIP-C1005D330U930-4F0-1E-UDD-D

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 81.7   | 1.9       |
| 10°-20°   | 234.3  | 5.4       |
| 20°-30°   | 355.0  | 8.1       |
| 30°-40°   | 432.4  | 9.9       |
| 40°-50°   | 465.2  | 10.7      |
| 50°-60°   | 451.7  | 10.4      |
| 60°-70°   | 394.4  | 9.1       |
| 70°-80°   | 303.7  | 7.0       |
| 80°-90°   | 204.7  | 4.7       |
| 90°-100°  | 152.5  | 3.5       |
| 100°-110° | 147.1  | 3.4       |
| 110°-120° | 186.8  | 4.3       |
| 120°-130° | 234.4  | 5.4       |
| 130°-140° | 225.0  | 5.2       |
| 140°-150° | 197.1  | 4.5       |
| 150°-160° | 156.3  | 3.6       |
| 160°-170° | 100.7  | 2.3       |
| 170°-180° | 34.7   | 0.8       |
| 0°-30°    | 670.9  | 15.4      |
| 0°-40°    | 1103.3 | 25.3      |
| 0°-60°    | 2020.2 | 46.4      |
| 0°-90°    | 2923.0 | 67.1      |
| 90°-120°  | 486.5  | 11.2      |
| 90°-150°  | 1143.0 | 26.2      |
| 90°-180°  | 1435.0 | 32.9      |
| 0°-180°   | 4357.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 862 | 862   | 862 | 862   | 862 |      |
| 5°   | 865 | 861   | 853 | 860   | 860 | 82   |
| 15°  | 825 | 827   | 827 | 838   | 837 | 232  |
| 25°  | 750 | 759   | 770 | 784   | 788 | 345  |
| 35°  | 646 | 667   | 691 | 717   | 727 | 404  |
| 45°  | 530 | 564   | 607 | 644   | 658 | 409  |
| 55°  | 406 | 452   | 516 | 559   | 577 | 363  |
| 65°  | 277 | 339   | 412 | 462   | 480 | 275  |
| 75°  | 154 | 224   | 304 | 355   | 374 | 163  |
| 85°  | 45  | 123   | 202 | 253   | 272 | 48   |
| 90°  | 13  | 88    | 170 | 220   | 237 | 9    |
| 95°  | 27  | 79    | 154 | 201   | 218 | 29   |
| 105° | 86  | 128   | 124 | 168   | 185 | 93   |
| 115° | 156 | 177   | 238 | 157   | 148 | 154  |
| 125° | 217 | 223   | 265 | 300   | 313 | 194  |
| 135° | 266 | 271   | 286 | 313   | 324 | 206  |
| 145° | 308 | 308   | 312 | 321   | 326 | 193  |
| 155° | 339 | 337   | 340 | 341   | 339 | 156  |
| 165° | 357 | 356   | 356 | 358   | 356 | 101  |
| 175° | 365 | 363   | 364 | 365   | 363 | 35   |
| 180° | 364 | 364   | 364 | 364   | 364 |      |



TEST NUMBER: P331423-930

CATALOG NUMBER: SA2XXDIP-C1005D330U930-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 862.1 | 862.1 | 862.1 | 862.1 | 862.1 | 862.1 | 862.1 | 862.1 | 862.1 | 862.1 | 862.1 |
| 2.5°   | 867.2 | 866.5 | 865.8 | 865.1 | 864.5 | 863.3 | 861.8 | 860.2 | 858.7 | 857.1 | 858.3 |
| 5°     | 864.6 | 863.8 | 863.0 | 862.1 | 861.3 | 860.1 | 858.4 | 856.7 | 855.1 | 853.4 | 855.1 |
| 7.5°   | 856.9 | 856.3 | 855.7 | 855.2 | 854.7 | 853.8 | 852.5 | 851.2 | 849.9 | 848.6 | 850.6 |
| 10°    | 850.9 | 850.4 | 849.8 | 849.2 | 848.6 | 848.0 | 847.2 | 846.3 | 845.5 | 844.7 | 846.9 |
| 12.5°  | 840.9 | 841.0 | 841.1 | 841.2 | 841.3 | 841.1 | 840.5 | 839.8 | 839.3 | 838.6 | 840.9 |
| 15°    | 824.7 | 825.2 | 825.7 | 826.3 | 826.9 | 827.1 | 827.1 | 827.1 | 827.1 | 827.1 | 829.6 |
| 17.5°  | 803.6 | 804.9 | 806.0 | 807.1 | 808.3 | 809.3 | 810.2 | 811.1 | 812.0 | 812.9 | 815.5 |
| 20°    | 789.7 | 791.1 | 792.5 | 793.9 | 795.2 | 796.5 | 797.6 | 798.7 | 799.8 | 801.0 | 804.0 |
| 22.5°  | 774.7 | 776.2 | 777.9 | 779.5 | 781.1 | 782.7 | 784.2 | 785.8 | 787.3 | 788.9 | 792.0 |
| 25°    | 749.7 | 751.6 | 753.6 | 755.5 | 757.5 | 759.7 | 762.1 | 764.7 | 767.2 | 769.6 | 773.0 |
| 27.5°  | 719.7 | 722.8 | 726.0 | 729.2 | 732.4 | 735.4 | 738.3 | 741.3 | 744.2 | 747.2 | 751.4 |
| 30°    | 699.7 | 703.3 | 706.9 | 710.5 | 714.1 | 717.8 | 721.4 | 725.0 | 728.6 | 732.2 | 736.6 |
| 32.5°  | 677.7 | 681.8 | 685.8 | 689.9 | 693.9 | 698.1 | 702.4 | 706.6 | 710.9 | 715.2 | 720.3 |
| 35°    | 646.0 | 650.7 | 655.4 | 660.1 | 664.9 | 669.8 | 675.1 | 680.4 | 685.7 | 691.0 | 697.1 |
| 37.5°  | 611.5 | 616.9 | 622.4 | 627.8 | 633.2 | 639.4 | 646.2 | 653.1 | 659.9 | 666.8 | 673.5 |
| 40°    | 588.5 | 594.6 | 600.7 | 606.8 | 612.9 | 619.7 | 627.2 | 634.7 | 642.2 | 649.7 | 657.0 |
| 42.5°  | 566.6 | 572.6 | 578.7 | 584.8 | 590.9 | 598.3 | 606.9 | 615.6 | 624.1 | 632.8 | 640.6 |
| 45°    | 529.8 | 537.3 | 544.8 | 552.3 | 559.8 | 568.3 | 578.1 | 587.8 | 597.5 | 607.2 | 615.9 |
| 47.5°  | 493.6 | 501.7 | 509.9 | 518.0 | 526.2 | 536.0 | 547.4 | 558.7 | 570.1 | 581.5 | 590.5 |
| 50°    | 468.6 | 477.2 | 485.8 | 494.4 | 503.0 | 513.6 | 526.0 | 538.5 | 551.0 | 563.5 | 573.0 |
| 52.5°  | 444.6 | 453.6 | 462.7 | 471.7 | 480.8 | 491.9 | 505.0 | 518.2 | 531.3 | 544.5 | 554.2 |
| 55°    | 406.1 | 416.0 | 426.1 | 436.1 | 446.1 | 458.3 | 472.7 | 487.1 | 501.6 | 516.0 | 526.0 |
| 57.5°  | 368.1 | 379.4 | 390.6 | 401.9 | 413.2 | 426.2 | 440.9 | 455.6 | 470.3 | 485.0 | 495.8 |
| 60°    | 341.1 | 353.0 | 365.0 | 376.9 | 388.9 | 402.8 | 418.6 | 434.4 | 450.2 | 466.0 | 476.6 |
| 62.5°  | 317.2 | 329.5 | 341.9 | 354.2 | 366.6 | 380.7 | 396.6 | 412.4 | 428.3 | 444.1 | 455.3 |
| 65°    | 277.4 | 291.0 | 304.6 | 318.2 | 331.8 | 346.8 | 363.2 | 379.5 | 395.9 | 412.3 | 423.7 |
| 67.5°  | 240.9 | 255.1 | 269.3 | 283.6 | 297.7 | 313.2 | 330.0 | 346.8 | 363.5 | 380.3 | 391.8 |
| 70°    | 214.9 | 229.3 | 243.8 | 258.2 | 272.6 | 288.5 | 305.7 | 322.9 | 340.1 | 357.3 | 369.2 |
| 72.5°  | 190.9 | 205.8 | 220.7 | 235.5 | 250.5 | 266.6 | 284.1 | 301.5 | 318.9 | 336.4 | 348.1 |
| 75°    | 153.7 | 169.3 | 184.7 | 200.3 | 215.9 | 232.5 | 250.3 | 268.1 | 285.8 | 303.6 | 315.5 |
| 77.5°  | 117.7 | 134.0 | 150.3 | 166.5 | 182.8 | 199.9 | 218.0 | 236.0 | 254.0 | 272.1 | 284.1 |
| 80°    | 93.7  | 110.6 | 127.6 | 144.6 | 161.4 | 179.0 | 197.0 | 215.1 | 233.1 | 251.1 | 262.8 |
| 82.5°  | 73.7  | 90.4  | 107.1 | 123.8 | 140.6 | 158.1 | 176.3 | 194.6 | 212.9 | 231.1 | 242.8 |
| 85°    | 45.0  | 62.2  | 79.4  | 96.6  | 113.8 | 131.3 | 149.1 | 166.9 | 184.7 | 202.4 | 214.1 |
| 87.5°  | 24.5  | 41.3  | 57.9  | 74.6  | 91.2  | 108.5 | 126.4 | 144.2 | 162.1 | 180.0 | 191.4 |
| 90°    | 12.7  | 29.5  | 46.2  | 63.0  | 79.7  | 97.3  | 115.4 | 133.7 | 152.0 | 170.2 | 181.6 |
| 92.5°  | 16.8  | 31.7  | 46.7  | 61.6  | 76.6  | 92.7  | 110.1 | 127.3 | 144.7 | 162.1 | 173.1 |
| 95°    | 27.1  | 38.2  | 49.3  | 60.5  | 71.6  | 85.7  | 102.7 | 119.8 | 136.9 | 154.0 | 164.9 |
| 97.5°  | 42.7  | 48.9  | 55.0  | 61.2  | 67.4  | 78.9  | 95.9  | 112.8 | 129.8 | 146.7 | 157.2 |
| 100°   | 55.4  | 57.6  | 59.9  | 62.1  | 64.4  | 73.8  | 90.3  | 106.9 | 123.4 | 140.0 | 150.7 |
| 102.5° | 68.3  | 76.0  | 83.7  | 91.4  | 99.1  | 106.3 | 113.1 | 119.8 | 126.6 | 133.4 | 144.1 |
| 105°   | 86.4  | 96.2  | 106.0 | 115.9 | 125.6 | 129.7 | 128.2 | 126.6 | 125.1 | 123.5 | 133.9 |
| 107.5° | 108.4 | 116.3 | 124.2 | 132.0 | 139.9 | 141.1 | 135.7 | 130.4 | 125.1 | 119.7 | 128.4 |
| 110°   | 121.8 | 128.6 | 135.3 | 142.1 | 148.9 | 150.7 | 147.3 | 144.0 | 140.6 | 137.4 | 140.4 |



TEST NUMBER: P331423-930

CATALOG NUMBER: SA2XXDIP-C1005D330U930-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 135.3 | 141.0 | 146.8 | 152.5 | 158.3 | 165.5 | 174.3 | 183.0 | 191.8 | 200.6 | 188.1 |
| 115°   | 156.5 | 160.6 | 164.7 | 168.7 | 172.8 | 181.8 | 195.8 | 209.7 | 223.6 | 237.6 | 218.8 |
| 117.5° | 174.4 | 177.5 | 180.6 | 183.7 | 186.8 | 194.6 | 207.2 | 219.7 | 232.3 | 244.8 | 246.5 |
| 120°   | 188.3 | 190.3 | 192.2 | 194.2 | 196.2 | 203.3 | 215.5 | 227.6 | 239.8 | 251.9 | 260.4 |
| 122.5° | 200.1 | 201.5 | 202.8 | 204.2 | 205.5 | 212.1 | 223.6 | 235.2 | 246.8 | 258.4 | 266.4 |
| 125°   | 216.8 | 217.6 | 218.3 | 219.1 | 219.9 | 225.3 | 235.2 | 245.2 | 255.3 | 265.2 | 273.1 |
| 127.5° | 233.1 | 233.7 | 234.2 | 234.8 | 235.4 | 239.6 | 247.6 | 255.7 | 263.7 | 271.7 | 279.1 |
| 130°   | 243.4 | 244.1 | 244.8 | 245.4 | 246.1 | 249.6 | 256.1 | 262.6 | 269.0 | 275.6 | 282.8 |
| 132.5° | 254.0 | 254.5 | 255.0 | 255.5 | 256.1 | 258.9 | 264.0 | 269.2 | 274.3 | 279.5 | 286.4 |
| 135°   | 266.4 | 267.4 | 268.3 | 269.3 | 270.2 | 272.3 | 275.7 | 278.9 | 282.3 | 285.5 | 292.0 |
| 137.5° | 280.3 | 280.9 | 281.5 | 282.1 | 282.7 | 283.9 | 285.8 | 287.6 | 289.3 | 291.2 | 296.9 |
| 140°   | 289.3 | 289.6 | 289.8 | 289.9 | 290.2 | 290.8 | 292.0 | 293.3 | 294.4 | 295.6 | 300.6 |
| 142.5° | 296.9 | 297.1 | 297.3 | 297.4 | 297.6 | 298.1 | 298.9 | 299.7 | 300.6 | 301.4 | 305.5 |
| 145°   | 307.6 | 307.6 | 307.5 | 307.4 | 307.4 | 307.9 | 308.8 | 309.9 | 310.9 | 311.9 | 313.9 |
| 147.5° | 318.0 | 317.8 | 317.6 | 317.3 | 317.2 | 317.5 | 318.5 | 319.5 | 320.5 | 321.5 | 322.0 |
| 150°   | 324.7 | 324.3 | 323.9 | 323.5 | 323.1 | 323.4 | 324.3 | 325.3 | 326.2 | 327.2 | 327.5 |
| 152.5° | 330.4 | 330.0 | 329.5 | 329.1 | 328.6 | 328.8 | 329.7 | 330.6 | 331.5 | 332.4 | 332.7 |
| 155°   | 338.8 | 338.2 | 337.7 | 337.1 | 336.6 | 336.7 | 337.5 | 338.1 | 338.8 | 339.5 | 339.9 |
| 157.5° | 345.2 | 344.8 | 344.3 | 343.9 | 343.4 | 343.5 | 344.0 | 344.5 | 345.0 | 345.4 | 345.8 |
| 160°   | 349.0 | 348.7 | 348.3 | 348.0 | 347.6 | 347.6 | 348.0 | 348.3 | 348.7 | 349.0 | 349.4 |
| 162.5° | 352.4 | 352.0 | 351.7 | 351.3 | 351.0 | 351.0 | 351.2 | 351.6 | 351.9 | 352.2 | 352.6 |
| 165°   | 356.9 | 356.6 | 356.2 | 355.9 | 355.6 | 355.5 | 355.6 | 355.8 | 356.0 | 356.1 | 356.5 |
| 167.5° | 360.3 | 360.0 | 359.6 | 359.2 | 358.9 | 358.8 | 359.0 | 359.1 | 359.3 | 359.5 | 359.9 |
| 170°   | 362.2 | 361.8 | 361.5 | 361.2 | 360.8 | 360.7 | 360.8 | 360.9 | 361.0 | 361.2 | 361.6 |
| 172.5° | 363.5 | 363.1 | 362.7 | 362.4 | 362.1 | 361.9 | 362.1 | 362.2 | 362.3 | 362.4 | 362.8 |
| 175°   | 365.1 | 364.7 | 364.3 | 363.9 | 363.5 | 363.3 | 363.5 | 363.5 | 363.7 | 363.8 | 364.2 |
| 177.5° | 365.3 | 365.0 | 364.7 | 364.4 | 364.0 | 363.9 | 363.9 | 364.0 | 364.0 | 364.1 | 364.4 |
| 180°   | 364.3 | 364.3 | 364.3 | 364.3 | 364.3 | 364.3 | 364.3 | 364.3 | 364.3 | 364.3 | 364.3 |



TEST NUMBER: P331423-930

CATALOG NUMBER: SA2XXDIP-C1005D330U930-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 862.1 | 862.1 | 862.1 | 862.1 | 862.1 | 862.1 | 862.1 | 862.1 |
| 2.5°   | 859.3 | 860.5 | 861.6 | 861.9 | 861.4 | 861.0 | 860.5 | 860.1 |
| 5°     | 856.7 | 858.4 | 860.1 | 860.7 | 860.5 | 860.2 | 859.9 | 859.7 |
| 7.5°   | 852.6 | 854.7 | 856.6 | 857.5 | 857.2 | 857.0 | 856.6 | 856.4 |
| 10°    | 849.1 | 851.3 | 853.5 | 854.5 | 854.2 | 853.9 | 853.7 | 853.4 |
| 12.5°  | 843.1 | 845.3 | 847.5 | 848.5 | 848.2 | 847.9 | 847.7 | 847.4 |
| 15°    | 832.2 | 834.6 | 837.1 | 838.3 | 838.0 | 837.7 | 837.4 | 837.1 |
| 17.5°  | 818.2 | 820.8 | 823.4 | 824.7 | 824.7 | 824.7 | 824.7 | 824.7 |
| 20°    | 807.0 | 810.1 | 813.1 | 814.6 | 814.6 | 814.6 | 814.6 | 814.6 |
| 22.5°  | 795.0 | 798.1 | 801.1 | 802.9 | 803.3 | 803.8 | 804.2 | 804.7 |
| 25°    | 776.3 | 779.7 | 783.0 | 785.1 | 785.9 | 786.8 | 787.6 | 788.4 |
| 27.5°  | 755.6 | 759.9 | 764.1 | 766.5 | 767.1 | 767.7 | 768.3 | 768.9 |
| 30°    | 741.1 | 745.5 | 750.0 | 752.6 | 753.4 | 754.2 | 755.1 | 755.9 |
| 32.5°  | 725.5 | 730.5 | 735.6 | 738.9 | 740.5 | 741.9 | 743.5 | 744.9 |
| 35°    | 703.2 | 709.3 | 715.4 | 719.4 | 721.4 | 723.3 | 725.3 | 727.2 |
| 37.5°  | 680.3 | 687.1 | 693.8 | 698.2 | 700.3 | 702.4 | 704.4 | 706.5 |
| 40°    | 664.1 | 671.4 | 678.6 | 683.5 | 686.0 | 688.4 | 691.0 | 693.5 |
| 42.5°  | 648.5 | 656.4 | 664.3 | 669.4 | 672.0 | 674.5 | 676.9 | 679.5 |
| 45°    | 624.4 | 633.1 | 641.6 | 647.3 | 650.1 | 652.9 | 655.7 | 658.4 |
| 47.5°  | 599.5 | 608.5 | 617.5 | 623.5 | 626.6 | 629.7 | 632.7 | 635.8 |
| 50°    | 582.4 | 591.8 | 601.3 | 607.6 | 610.6 | 613.6 | 616.7 | 619.7 |
| 52.5°  | 563.9 | 573.5 | 583.2 | 589.6 | 592.9 | 596.2 | 599.5 | 602.8 |
| 55°    | 536.1 | 546.0 | 556.0 | 562.8 | 566.4 | 570.1 | 573.6 | 577.2 |
| 57.5°  | 506.6 | 517.4 | 528.2 | 535.3 | 539.0 | 542.7 | 546.3 | 550.0 |
| 60°    | 487.1 | 497.7 | 508.3 | 515.5 | 519.3 | 523.3 | 527.2 | 531.0 |
| 62.5°  | 466.5 | 477.7 | 488.9 | 496.4 | 500.0 | 503.7 | 507.4 | 511.0 |
| 65°    | 435.1 | 446.5 | 457.9 | 465.4 | 469.0 | 472.5 | 476.2 | 479.8 |
| 67.5°  | 403.3 | 414.8 | 426.3 | 434.0 | 437.7 | 441.5 | 445.3 | 449.1 |
| 70°    | 381.2 | 393.1 | 405.1 | 412.7 | 416.0 | 419.4 | 422.7 | 426.1 |
| 72.5°  | 359.8 | 371.5 | 383.2 | 391.1 | 395.1 | 399.1 | 403.1 | 407.1 |
| 75°    | 327.5 | 339.4 | 351.4 | 359.1 | 362.7 | 366.4 | 370.0 | 373.6 |
| 77.5°  | 295.9 | 307.8 | 319.7 | 327.6 | 331.4 | 335.3 | 339.2 | 343.1 |
| 80°    | 274.4 | 286.2 | 297.8 | 305.6 | 309.5 | 313.3 | 317.2 | 321.1 |
| 82.5°  | 254.5 | 266.1 | 277.8 | 285.4 | 289.1 | 292.8 | 296.4 | 300.1 |
| 85°    | 225.8 | 237.4 | 249.1 | 256.8 | 260.7 | 264.6 | 268.5 | 272.4 |
| 87.5°  | 202.8 | 214.2 | 225.5 | 233.0 | 236.6 | 240.2 | 243.8 | 247.3 |
| 90°    | 193.0 | 204.4 | 215.8 | 223.2 | 226.7 | 230.2 | 233.6 | 237.0 |
| 92.5°  | 184.1 | 195.2 | 206.2 | 213.4 | 216.8 | 220.2 | 223.6 | 227.1 |
| 95°    | 175.7 | 186.5 | 197.4 | 204.4 | 207.7 | 210.9 | 214.3 | 217.5 |
| 97.5°  | 167.7 | 178.2 | 188.7 | 195.7 | 199.0 | 202.4 | 205.7 | 209.0 |
| 100°   | 161.4 | 172.2 | 183.0 | 189.9 | 193.1 | 196.2 | 199.4 | 202.6 |
| 102.5° | 154.7 | 165.3 | 176.0 | 183.0 | 186.2 | 189.4 | 192.7 | 195.8 |
| 105°   | 144.2 | 154.7 | 165.0 | 171.8 | 175.1 | 178.4 | 181.6 | 185.0 |
| 107.5° | 137.1 | 145.8 | 154.4 | 160.4 | 163.7 | 167.0 | 170.2 | 173.6 |
| 110°   | 143.4 | 146.4 | 149.4 | 152.6 | 155.9 | 159.1 | 162.5 | 165.8 |





TEST NUMBER: P331423-930

CATALOG NUMBER: SA2XXDIP-C1005D330U930-4F0-1E-UDD-D

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 175.6 | 163.1 | 150.7 | 146.0 | 149.3 | 152.5 | 155.7 | 159.0 |
| 115°   | 200.0 | 181.2 | 162.4 | 152.5 | 151.3 | 150.2 | 149.0 | 147.8 |
| 117.5° | 248.2 | 249.8 | 251.5 | 246.8 | 235.8 | 224.8 | 213.8 | 202.7 |
| 120°   | 268.9 | 277.4 | 285.8 | 287.6 | 282.8 | 277.9 | 273.1 | 268.2 |
| 122.5° | 274.3 | 282.3 | 290.3 | 294.8 | 295.9 | 296.9 | 298.1 | 299.1 |
| 125°   | 281.0 | 288.9 | 296.9 | 302.1 | 304.8 | 307.5 | 310.1 | 312.8 |
| 127.5° | 286.6 | 294.1 | 301.6 | 306.6 | 309.0 | 311.5 | 314.0 | 316.5 |
| 130°   | 290.2 | 297.5 | 304.8 | 309.5 | 311.7 | 313.8 | 316.0 | 318.1 |
| 132.5° | 293.4 | 300.4 | 307.4 | 312.0 | 314.1 | 316.3 | 318.5 | 320.7 |
| 135°   | 298.4 | 304.8 | 311.2 | 315.4 | 317.6 | 319.7 | 321.8 | 323.8 |
| 137.5° | 302.6 | 308.3 | 313.9 | 317.6 | 319.3 | 321.0 | 322.7 | 324.4 |
| 140°   | 305.6 | 310.5 | 315.5 | 318.7 | 320.1 | 321.4 | 322.8 | 324.2 |
| 142.5° | 309.5 | 313.6 | 317.6 | 320.2 | 321.3 | 322.5 | 323.6 | 324.7 |
| 145°   | 316.0 | 318.0 | 320.2 | 321.7 | 322.9 | 323.9 | 325.1 | 326.1 |
| 147.5° | 322.5 | 323.0 | 323.6 | 324.0 | 324.4 | 324.9 | 325.3 | 325.7 |
| 150°   | 327.8 | 328.2 | 328.6 | 328.6 | 328.3 | 328.0 | 327.7 | 327.4 |
| 152.5° | 333.1 | 333.5 | 333.8 | 333.8 | 333.4 | 333.0 | 332.6 | 332.2 |
| 155°   | 340.2 | 340.6 | 341.0 | 340.9 | 340.4 | 340.0 | 339.5 | 339.0 |
| 157.5° | 346.3 | 346.7 | 347.0 | 347.0 | 346.5 | 346.1 | 345.6 | 345.2 |
| 160°   | 349.8 | 350.1 | 350.4 | 350.4 | 350.0 | 349.6 | 349.2 | 348.8 |
| 162.5° | 352.9 | 353.4 | 353.8 | 353.8 | 353.2 | 352.7 | 352.2 | 351.7 |
| 165°   | 356.9 | 357.3 | 357.8 | 357.8 | 357.3 | 356.9 | 356.5 | 356.1 |
| 167.5° | 360.3 | 360.7 | 361.1 | 361.0 | 360.5 | 360.0 | 359.5 | 358.9 |
| 170°   | 362.0 | 362.4 | 362.8 | 362.7 | 362.2 | 361.7 | 361.2 | 360.6 |
| 172.5° | 363.2 | 363.6 | 364.0 | 364.0 | 363.5 | 363.0 | 362.4 | 361.9 |
| 175°   | 364.6 | 365.0 | 365.4 | 365.3 | 364.8 | 364.2 | 363.5 | 363.0 |
| 177.5° | 364.8 | 365.1 | 365.4 | 365.3 | 364.9 | 364.5 | 364.1 | 363.7 |
| 180°   | 364.3 | 364.3 | 364.3 | 364.3 | 364.3 | 364.3 | 364.3 | 364.3 |

(END OF REPORT)