

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: P331674-927

Luminaire Tested: **SA2XXRDIP-C485D1080U927-4F0-1E-UDD-F4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331674-927  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA2XXRDIP-C485D1080U927-4F0-1E-UDD-F4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 485 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED  
HOUSING  
UPLIGHT 1080 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4678.8 lumens  
Efficiency: N/A  
Efficacy: 94.7 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

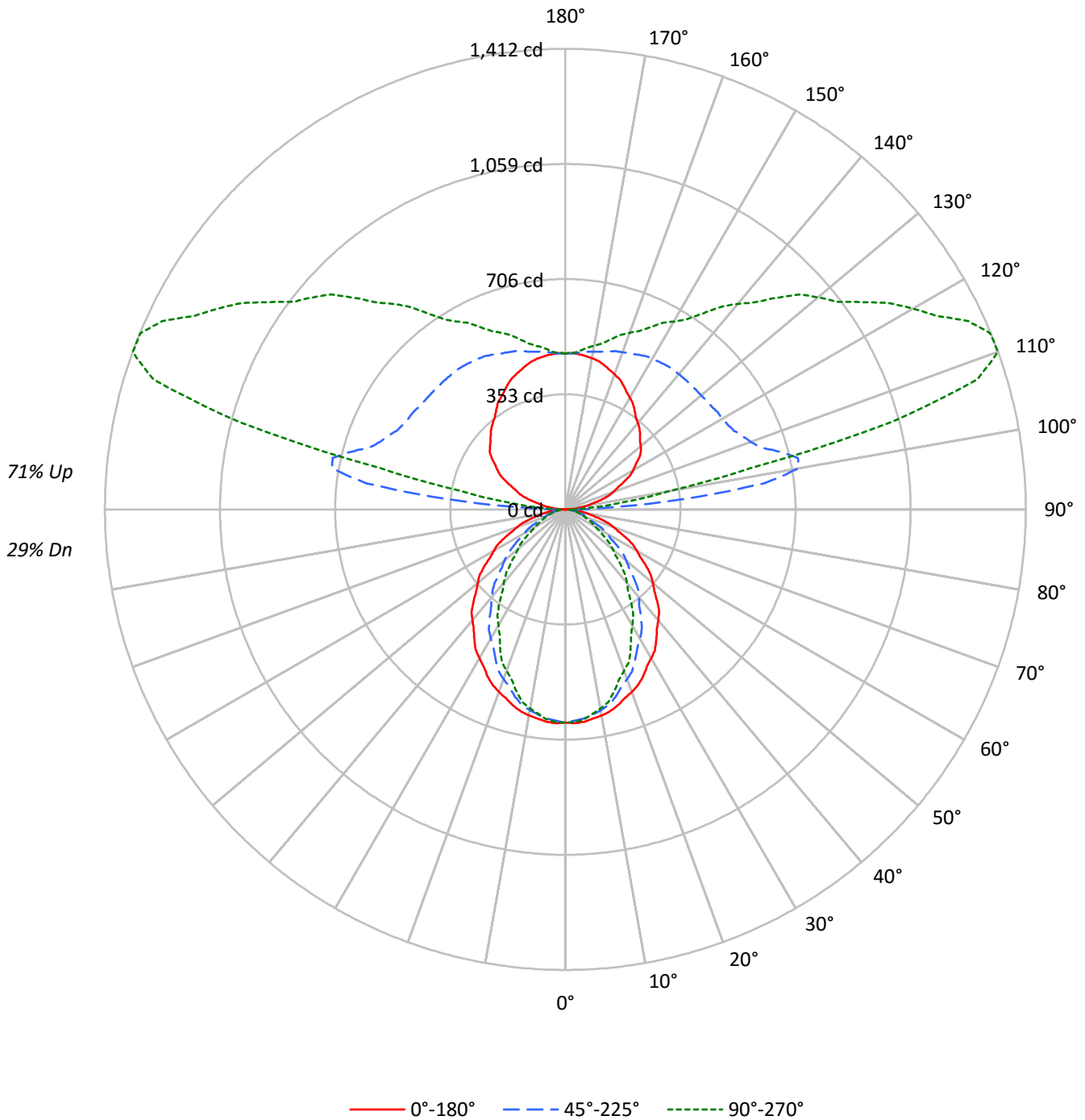
Input Watts (W): 49.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331674-927

CATALOG NUMBER: SA2XXRDIP-C485D1080U927-4F0-1E-UDD-F4

### Luminous Intensity Polar Plot





TEST NUMBER: P331674-927

CATALOG NUMBER: SA2XXRDIP-C485D1080U927-4F0-1E-UDD-F4

**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   | 102 | 102 | 102 | 102 | 91 | 91 | 91 | 91 | 72 | 72 | 72 | 53 | 53 | 53 | 37 | 37 | 37 | 29 |
| 1   | 93  | 89  | 86  | 82  | 83 | 80 | 77 | 74 | 63 | 61 | 59 | 47 | 46 | 45 | 33 | 32 | 31 | 25 |
| 2   | 85  | 78  | 72  | 68  | 76 | 70 | 65 | 61 | 55 | 52 | 49 | 42 | 40 | 38 | 29 | 28 | 27 | 21 |
| 3   | 78  | 69  | 62  | 56  | 69 | 62 | 56 | 51 | 49 | 45 | 42 | 37 | 34 | 32 | 26 | 24 | 23 | 18 |
| 4   | 71  | 61  | 54  | 48  | 64 | 55 | 49 | 44 | 44 | 39 | 36 | 33 | 30 | 28 | 23 | 22 | 20 | 16 |
| 5   | 65  | 54  | 47  | 41  | 58 | 49 | 43 | 38 | 39 | 34 | 31 | 30 | 27 | 24 | 21 | 19 | 18 | 14 |
| 6   | 60  | 49  | 41  | 36  | 54 | 44 | 37 | 33 | 35 | 30 | 27 | 27 | 24 | 21 | 19 | 17 | 16 | 12 |
| 7   | 56  | 44  | 36  | 31  | 50 | 40 | 33 | 29 | 32 | 27 | 24 | 25 | 21 | 19 | 18 | 16 | 14 | 11 |
| 8   | 52  | 40  | 32  | 27  | 46 | 36 | 30 | 25 | 29 | 24 | 21 | 23 | 19 | 17 | 16 | 14 | 13 | 10 |
| 9   | 48  | 36  | 29  | 24  | 43 | 33 | 27 | 22 | 27 | 22 | 19 | 21 | 17 | 15 | 15 | 13 | 11 | 9  |
| 10  | 45  | 33  | 26  | 22  | 40 | 30 | 24 | 20 | 24 | 20 | 17 | 19 | 16 | 14 | 14 | 12 | 10 | 8  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 10555 | 10555 | 10555 |
| 5°  | 10595 | 10423 | 10481 |
| 10° | 10516 | 10252 | 10165 |
| 15° | 10394 | 9949  | 9663  |
| 20° | 10227 | 9514  | 9036  |
| 25° | 10055 | 9021  | 8432  |
| 30° | 9818  | 8516  | 7655  |
| 35° | 9585  | 7965  | 6974  |
| 40° | 9352  | 7396  | 6184  |
| 45° | 9079  | 6754  | 5471  |
| 50° | 8796  | 6106  | 4770  |
| 55° | 8510  | 5413  | 4096  |
| 60° | 8176  | 4682  | 3400  |
| 65° | 7798  | 3931  | 3095  |
| 70° | 7345  | 3238  | 2851  |
| 75° | 6787  | 2951  | 2658  |
| 80° | 5997  | 2641  | 2427  |
| 85° | 4705  | 2075  | 2075  |



TEST NUMBER: P331674-927

CATALOG NUMBER: SA2XXRDIP-C485D1080U927-4F0-1E-UDD-F4

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 61.2   | 1.3       |
| 10°-20°   | 168.0  | 3.6       |
| 20°-30°   | 235.9  | 5.0       |
| 30°-40°   | 257.3  | 5.5       |
| 40°-50°   | 236.6  | 5.1       |
| 50°-60°   | 185.8  | 4.0       |
| 60°-70°   | 121.1  | 2.6       |
| 70°-80°   | 62.5   | 1.3       |
| 80°-90°   | 20.5   | 0.4       |
| 90°-100°  | 191.3  | 4.1       |
| 100°-110° | 649.3  | 13.9      |
| 110°-120° | 689.8  | 14.7      |
| 120°-130° | 567.8  | 12.1      |
| 130°-140° | 456.0  | 9.7       |
| 140°-150° | 344.6  | 7.4       |
| 150°-160° | 242.2  | 5.2       |
| 160°-170° | 142.6  | 3.0       |
| 170°-180° | 46.4   | 1.0       |
| 0°-30°    | 465.2  | 9.9       |
| 0°-40°    | 722.4  | 15.4      |
| 0°-60°    | 1144.8 | 24.5      |
| 0°-90°    | 1348.9 | 28.8      |
| 90°-120°  | 1530.4 | 32.7      |
| 90°-150°  | 2898.8 | 62.0      |
| 90°-180°  | 3330.0 | 71.2      |
| 0°-180°   | 4678.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90°  | Flux |
|------|-----|-------|-----|-------|------|------|
| 0°   | 654 | 654   | 654 | 654   | 654  |      |
| 5°   | 654 | 650   | 643 | 648   | 647  | 62   |
| 15°  | 622 | 615   | 595 | 584   | 578  | 175  |
| 25°  | 564 | 544   | 506 | 483   | 473  | 259  |
| 35°  | 486 | 455   | 404 | 368   | 354  | 304  |
| 45°  | 398 | 357   | 296 | 255   | 240  | 307  |
| 55°  | 302 | 255   | 192 | 158   | 146  | 270  |
| 65°  | 204 | 156   | 103 | 84    | 81   | 202  |
| 75°  | 109 | 69    | 47  | 43    | 43   | 115  |
| 85°  | 25  | 14    | 11  | 11    | 11   | 30   |
| 90°  | 1   | 12    | 31  | 30    | 30   | 3    |
| 95°  | 32  | 79    | 361 | 136   | 105  | 34   |
| 105° | 112 | 169   | 682 | 1219  | 1037 | 119  |
| 115° | 198 | 250   | 570 | 1177  | 1365 | 196  |
| 125° | 276 | 327   | 548 | 954   | 1107 | 245  |
| 135° | 324 | 386   | 542 | 802   | 918  | 250  |
| 145° | 370 | 425   | 539 | 670   | 732  | 232  |
| 155° | 421 | 454   | 524 | 592   | 616  | 193  |
| 165° | 458 | 472   | 502 | 532   | 540  | 129  |
| 175° | 478 | 478   | 482 | 488   | 487  | 45   |
| 180° | 479 | 479   | 479 | 479   | 479  |      |



TEST NUMBER: P331674-927

CATALOG NUMBER: SA2XXRDIP-C485D1080U927-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 653.7 | 653.7 | 653.7 | 653.7 | 653.7 | 653.7 | 653.7 | 653.7 | 653.7 | 653.7 | 653.7 |
| 2.5°   | 656.1 | 655.6 | 655.1 | 654.5 | 654.0 | 653.2 | 652.0 | 650.9 | 649.7 | 648.6 | 649.6 |
| 5°     | 653.7 | 653.1 | 652.4 | 651.8 | 651.1 | 649.9 | 648.2 | 646.5 | 644.8 | 643.1 | 644.3 |
| 7.5°   | 647.0 | 646.2 | 645.4 | 644.5 | 643.7 | 642.3 | 640.3 | 638.3 | 636.4 | 634.4 | 634.7 |
| 10°    | 641.4 | 640.4 | 639.4 | 638.6 | 637.6 | 635.9 | 633.3 | 630.6 | 628.0 | 625.3 | 625.0 |
| 12.5°  | 634.2 | 633.1 | 631.9 | 630.8 | 629.7 | 627.5 | 624.1 | 620.8 | 617.3 | 614.0 | 613.3 |
| 15°    | 621.8 | 620.4 | 618.9 | 617.4 | 616.0 | 613.1 | 608.6 | 604.1 | 599.7 | 595.2 | 592.7 |
| 17.5°  | 606.6 | 604.4 | 602.1 | 599.9 | 597.7 | 593.7 | 588.0 | 582.3 | 576.6 | 570.8 | 567.8 |
| 20°    | 595.2 | 592.6 | 589.9 | 587.3 | 584.6 | 580.0 | 573.5 | 566.9 | 560.3 | 553.7 | 550.5 |
| 22.5°  | 582.9 | 580.0 | 576.9 | 574.0 | 571.1 | 565.9 | 558.5 | 551.0 | 543.7 | 536.2 | 532.0 |
| 25°    | 564.4 | 560.2 | 556.0 | 551.8 | 547.6 | 541.1 | 532.4 | 523.8 | 515.1 | 506.4 | 501.1 |
| 27.5°  | 542.2 | 537.6 | 533.0 | 528.5 | 523.9 | 516.7 | 506.9 | 497.1 | 487.4 | 477.5 | 471.3 |
| 30°    | 526.6 | 521.6 | 516.6 | 511.6 | 506.6 | 498.8 | 488.3 | 477.8 | 467.2 | 456.8 | 450.0 |
| 32.5°  | 511.4 | 505.6 | 499.7 | 493.9 | 488.1 | 479.7 | 469.1 | 458.3 | 447.6 | 436.9 | 429.2 |
| 35°    | 486.3 | 479.6 | 472.9 | 466.2 | 459.5 | 450.4 | 438.8 | 427.2 | 415.7 | 404.1 | 395.8 |
| 37.5°  | 461.2 | 453.8 | 446.5 | 439.1 | 431.8 | 421.9 | 409.6 | 397.3 | 384.9 | 372.6 | 363.5 |
| 40°    | 443.7 | 435.9 | 427.9 | 420.1 | 412.2 | 401.9 | 389.1 | 376.4 | 363.6 | 350.9 | 341.5 |
| 42.5°  | 425.7 | 417.4 | 409.1 | 400.8 | 392.5 | 381.8 | 368.6 | 355.4 | 342.2 | 329.1 | 319.4 |
| 45°    | 397.6 | 388.8 | 379.9 | 371.1 | 362.3 | 351.0 | 337.2 | 323.4 | 309.6 | 295.8 | 286.5 |
| 47.5°  | 370.1 | 360.8 | 351.5 | 342.1 | 332.8 | 321.0 | 306.7 | 292.5 | 278.2 | 264.0 | 254.7 |
| 50°    | 350.2 | 340.9 | 331.6 | 322.3 | 312.9 | 301.0 | 286.5 | 272.1 | 257.6 | 243.1 | 234.1 |
| 52.5°  | 330.8 | 321.1 | 311.3 | 301.6 | 291.8 | 279.9 | 265.7 | 251.6 | 237.4 | 223.3 | 214.5 |
| 55°    | 302.3 | 292.1 | 281.8 | 271.6 | 261.3 | 249.1 | 234.9 | 220.7 | 206.4 | 192.3 | 184.4 |
| 57.5°  | 273.1 | 262.6 | 252.1 | 241.5 | 231.0 | 219.0 | 205.3 | 191.6 | 178.0 | 164.4 | 157.1 |
| 60°    | 253.2 | 242.7 | 232.2 | 221.7 | 211.1 | 199.2 | 185.6 | 172.1 | 158.5 | 145.0 | 138.2 |
| 62.5°  | 233.8 | 223.3 | 212.8 | 202.2 | 191.7 | 180.1 | 167.2 | 154.2 | 141.3 | 128.4 | 122.0 |
| 65°    | 204.1 | 193.5 | 182.8 | 172.1 | 161.5 | 150.3 | 138.5 | 126.6 | 114.8 | 102.9 | 98.5  |
| 67.5°  | 175.5 | 164.9 | 154.3 | 143.8 | 133.2 | 122.6 | 111.9 | 101.3 | 90.6  | 80.0  | 78.0  |
| 70°    | 155.6 | 145.4 | 135.1 | 124.8 | 114.5 | 104.9 | 95.9  | 86.7  | 77.7  | 68.6  | 67.3  |
| 72.5°  | 136.7 | 126.8 | 117.0 | 107.2 | 97.4  | 88.8  | 81.5  | 74.2  | 66.9  | 59.7  | 58.5  |
| 75°    | 108.8 | 99.7  | 90.5  | 81.3  | 72.0  | 65.2  | 60.8  | 56.2  | 51.8  | 47.3  | 46.4  |
| 77.5°  | 81.5  | 73.4  | 65.4  | 57.3  | 49.3  | 44.1  | 42.0  | 39.8  | 37.6  | 35.5  | 34.9  |
| 80°    | 64.5  | 57.8  | 51.1  | 44.4  | 37.6  | 33.7  | 32.3  | 31.1  | 29.7  | 28.4  | 27.9  |
| 82.5°  | 48.9  | 43.6  | 38.4  | 33.2  | 28.0  | 24.9  | 24.0  | 23.1  | 22.2  | 21.3  | 21.0  |
| 85°    | 25.4  | 22.7  | 19.9  | 17.2  | 14.4  | 12.8  | 12.4  | 12.0  | 11.6  | 11.2  | 11.2  |
| 87.5°  | 7.8   | 7.4   | 7.4   | 6.9   | 6.4   | 6.6   | 7.4   | 8.8   | 9.8   | 10.1  | 9.7   |
| 90°    | 1.0   | 3.6   | 7.4   | 9.2   | 11.0  | 13.8  | 18.4  | 24.9  | 30.3  | 31.3  | 30.3  |
| 92.5°  | 11.2  | 16.2  | 22.8  | 26.9  | 33.1  | 41.7  | 62.6  | 91.8  | 118.0 | 119.6 | 101.1 |
| 95°    | 32.2  | 35.9  | 45.1  | 53.4  | 68.1  | 90.2  | 132.5 | 212.5 | 319.3 | 360.8 | 315.7 |
| 97.5°  | 52.4  | 57.4  | 67.2  | 79.7  | 96.6  | 121.7 | 174.8 | 286.4 | 463.8 | 615.8 | 646.0 |
| 100°   | 70.8  | 73.6  | 81.9  | 96.6  | 115.0 | 140.8 | 189.6 | 301.8 | 500.6 | 727.0 | 859.5 |
| 102.5° | 87.8  | 89.8  | 98.1  | 112.8 | 132.0 | 157.7 | 202.8 | 302.6 | 486.6 | 730.7 | 939.1 |
| 105°   | 112.3 | 116.0 | 122.4 | 136.2 | 156.5 | 182.2 | 225.5 | 307.4 | 459.2 | 681.9 | 926.7 |
| 107.5° | 138.8 | 141.7 | 148.0 | 160.7 | 180.8 | 206.7 | 248.7 | 320.0 | 445.6 | 629.6 | 845.9 |
| 110°   | 156.5 | 160.1 | 165.6 | 177.6 | 196.9 | 223.6 | 264.1 | 330.3 | 442.7 | 604.6 | 795.1 |



TEST NUMBER: P331674-927

CATALOG NUMBER: SA2XXRDIP-C485D1080U927-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 172.6 | 176.3 | 182.6 | 193.8 | 212.4 | 239.8 | 278.8 | 341.4 | 443.4 | 588.4 | 759.8 |
| 115°   | 197.9 | 202.5 | 207.9 | 219.0 | 237.4 | 262.3 | 301.8 | 358.0 | 447.3 | 570.5 | 716.0 |
| 117.5° | 224.0 | 227.7 | 233.2 | 243.0 | 260.6 | 286.4 | 323.0 | 375.7 | 453.8 | 561.9 | 688.3 |
| 120°   | 240.2 | 243.8 | 249.4 | 257.7 | 276.1 | 301.8 | 337.7 | 387.5 | 458.3 | 556.7 | 673.6 |
| 122.5° | 255.6 | 258.6 | 264.1 | 273.1 | 291.5 | 318.1 | 351.7 | 397.8 | 463.4 | 553.8 | 661.1 |
| 125°   | 276.1 | 278.8 | 284.4 | 295.4 | 313.8 | 339.6 | 372.7 | 414.2 | 471.2 | 548.5 | 643.3 |
| 127.5° | 292.2 | 296.0 | 303.7 | 315.8 | 333.5 | 360.0 | 392.2 | 429.4 | 479.1 | 545.3 | 626.7 |
| 130°   | 301.8 | 305.5 | 314.7 | 327.6 | 346.0 | 371.8 | 404.0 | 438.9 | 485.0 | 543.8 | 615.7 |
| 132.5° | 310.7 | 315.1 | 325.0 | 338.7 | 357.8 | 383.6 | 414.3 | 448.5 | 490.8 | 543.1 | 606.8 |
| 135°   | 323.9 | 327.6 | 338.7 | 352.4 | 373.6 | 399.4 | 428.8 | 461.1 | 497.9 | 542.0 | 594.5 |
| 137.5° | 336.4 | 340.9 | 351.9 | 366.6 | 387.6 | 411.5 | 440.6 | 470.6 | 504.1 | 541.9 | 585.8 |
| 140°   | 346.0 | 349.7 | 360.8 | 375.5 | 395.7 | 419.6 | 447.3 | 475.8 | 507.1 | 541.1 | 580.7 |
| 142.5° | 355.6 | 358.5 | 368.8 | 383.6 | 403.1 | 425.6 | 452.4 | 480.2 | 509.3 | 541.1 | 575.5 |
| 145°   | 369.9 | 373.6 | 382.9 | 396.6 | 415.0 | 435.3 | 460.1 | 485.9 | 511.7 | 539.2 | 568.7 |
| 147.5° | 385.4 | 388.2 | 397.0 | 409.7 | 425.0 | 443.0 | 466.4 | 489.0 | 512.4 | 536.0 | 561.7 |
| 150°   | 395.7 | 398.5 | 405.8 | 417.8 | 431.6 | 448.1 | 469.4 | 490.5 | 511.7 | 533.8 | 555.8 |
| 152.5° | 406.0 | 407.3 | 414.6 | 425.2 | 438.2 | 453.3 | 472.3 | 491.2 | 510.2 | 530.0 | 550.6 |
| 155°   | 420.6 | 421.4 | 427.0 | 437.1 | 447.3 | 461.1 | 476.7 | 492.3 | 507.9 | 523.6 | 541.1 |
| 157.5° | 432.7 | 433.6 | 438.1 | 446.9 | 455.0 | 466.6 | 479.8 | 492.3 | 503.7 | 517.0 | 532.1 |
| 160°   | 440.8 | 441.7 | 445.4 | 452.7 | 460.1 | 470.2 | 481.3 | 492.3 | 501.5 | 512.6 | 525.5 |
| 162.5° | 448.9 | 448.4 | 452.0 | 457.9 | 464.5 | 472.5 | 482.0 | 491.6 | 499.3 | 508.9 | 519.6 |
| 165°   | 458.3 | 457.4 | 459.2 | 464.7 | 469.4 | 474.8 | 483.2 | 489.6 | 495.1 | 501.5 | 509.8 |
| 167.5° | 466.0 | 464.9 | 466.6 | 470.1 | 473.4 | 476.9 | 482.9 | 488.3 | 490.8 | 495.1 | 500.3 |
| 170°   | 471.2 | 469.4 | 470.2 | 473.0 | 474.8 | 477.6 | 482.2 | 486.8 | 488.6 | 491.4 | 495.1 |
| 172.5° | 474.1 | 473.0 | 472.5 | 475.2 | 476.3 | 478.3 | 481.5 | 484.6 | 485.7 | 487.0 | 490.0 |
| 175°   | 477.6 | 476.7 | 475.8 | 477.6 | 477.6 | 478.6 | 480.4 | 482.2 | 481.3 | 482.2 | 483.2 |
| 177.5° | 479.3 | 477.8 | 477.1 | 478.6 | 478.6 | 478.6 | 479.3 | 480.8 | 479.3 | 478.6 | 479.3 |
| 180°   | 478.6 | 478.6 | 478.6 | 478.6 | 478.6 | 478.6 | 478.6 | 478.6 | 478.6 | 478.6 | 478.6 |



TEST NUMBER: P331674-927

CATALOG NUMBER: SA2XXRDIP-C485D1080U927-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 653.7  | 653.7  | 653.7  | 653.7  | 653.7  | 653.7  | 653.7  | 653.7  |
| 2.5°   | 650.6  | 651.7  | 652.8  | 653.2  | 653.0  | 652.8  | 652.5  | 652.4  |
| 5°     | 645.5  | 646.7  | 647.8  | 648.2  | 647.8  | 647.5  | 647.1  | 646.7  |
| 7.5°   | 635.0  | 635.3  | 635.7  | 635.6  | 634.9  | 634.1  | 633.5  | 632.8  |
| 10°    | 624.6  | 624.2  | 623.8  | 623.2  | 622.4  | 621.6  | 620.8  | 620.0  |
| 12.5°  | 612.6  | 611.9  | 611.2  | 610.1  | 608.8  | 607.5  | 606.2  | 604.9  |
| 15°    | 590.2  | 587.7  | 585.2  | 583.3  | 581.9  | 580.7  | 579.3  | 578.1  |
| 17.5°  | 564.8  | 561.9  | 558.9  | 556.3  | 554.1  | 551.8  | 549.5  | 547.2  |
| 20°    | 547.2  | 543.9  | 540.6  | 537.5  | 534.6  | 531.7  | 528.9  | 525.9  |
| 22.5°  | 527.8  | 523.6  | 519.4  | 516.1  | 514.0  | 511.8  | 509.7  | 507.5  |
| 25°    | 495.7  | 490.3  | 484.9  | 481.2  | 479.2  | 477.2  | 475.3  | 473.3  |
| 27.5°  | 465.0  | 458.7  | 452.4  | 447.7  | 444.6  | 441.5  | 438.3  | 435.2  |
| 30°    | 443.3  | 436.7  | 429.9  | 424.8  | 421.2  | 417.7  | 414.2  | 410.6  |
| 32.5°  | 421.5  | 413.9  | 406.2  | 400.8  | 397.4  | 394.1  | 390.7  | 387.4  |
| 35°    | 387.5  | 379.2  | 371.0  | 365.4  | 362.5  | 359.6  | 356.7  | 353.8  |
| 37.5°  | 354.3  | 345.2  | 336.1  | 329.9  | 326.6  | 323.3  | 320.0  | 316.6  |
| 40°    | 332.2  | 322.8  | 313.5  | 307.1  | 303.7  | 300.3  | 296.8  | 293.4  |
| 42.5°  | 309.7  | 300.1  | 290.5  | 284.0  | 280.7  | 277.3  | 274.0  | 270.7  |
| 45°    | 277.1  | 267.8  | 258.5  | 252.2  | 249.1  | 245.9  | 242.7  | 239.6  |
| 47.5°  | 245.4  | 236.1  | 226.9  | 220.8  | 217.9  | 215.1  | 212.1  | 209.3  |
| 50°    | 225.0  | 215.9  | 206.8  | 201.0  | 198.2  | 195.4  | 192.7  | 189.9  |
| 52.5°  | 205.7  | 197.0  | 188.2  | 182.6  | 180.1  | 177.5  | 174.9  | 172.4  |
| 55°    | 176.5  | 168.6  | 160.7  | 155.5  | 153.0  | 150.5  | 148.1  | 145.5  |
| 57.5°  | 149.9  | 142.7  | 135.5  | 130.8  | 128.7  | 126.6  | 124.5  | 122.3  |
| 60°    | 131.5  | 124.8  | 118.1  | 113.8  | 111.6  | 109.5  | 107.4  | 105.3  |
| 62.5°  | 115.6  | 109.2  | 102.8  | 99.0   | 97.8   | 96.5   | 95.2   | 94.0   |
| 65°    | 94.0   | 89.5   | 85.1   | 82.6   | 82.2   | 81.8   | 81.4   | 81.0   |
| 67.5°  | 75.9   | 73.8   | 71.8   | 70.6   | 70.1   | 69.7   | 69.3   | 68.8   |
| 70°    | 66.0   | 64.7   | 63.4   | 62.4   | 61.9   | 61.4   | 60.8   | 60.4   |
| 72.5°  | 57.4   | 56.3   | 55.2   | 54.5   | 54.2   | 53.9   | 53.6   | 53.2   |
| 75°    | 45.5   | 44.6   | 43.6   | 43.1   | 43.0   | 42.9   | 42.7   | 42.6   |
| 77.5°  | 34.5   | 33.9   | 33.4   | 33.0   | 32.8   | 32.6   | 32.4   | 32.2   |
| 80°    | 27.3   | 26.9   | 26.3   | 26.1   | 26.1   | 26.1   | 26.1   | 26.1   |
| 82.5°  | 20.7   | 20.4   | 20.0   | 19.9   | 19.9   | 19.9   | 19.9   | 19.9   |
| 85°    | 11.2   | 11.2   | 11.2   | 11.2   | 11.2   | 11.2   | 11.2   | 11.2   |
| 87.5°  | 9.4    | 9.0    | 9.3    | 9.3    | 9.3    | 9.3    | 9.3    | 9.3    |
| 90°    | 29.5   | 27.6   | 29.5   | 30.3   | 30.3   | 30.3   | 30.3   | 30.3   |
| 92.5°  | 80.2   | 68.8   | 61.1   | 55.4   | 54.7   | 51.7   | 52.4   | 51.0   |
| 95°    | 241.1  | 185.0  | 146.3  | 126.0  | 114.1  | 106.8  | 104.0  | 104.9  |
| 97.5°  | 562.6  | 460.3  | 360.8  | 294.3  | 250.3  | 227.7  | 214.2  | 206.5  |
| 100°   | 840.2  | 726.1  | 600.0  | 488.6  | 412.3  | 372.7  | 346.0  | 329.5  |
| 102.5° | 1022.1 | 996.2  | 904.0  | 786.1  | 703.1  | 635.6  | 602.2  | 579.8  |
| 105°   | 1118.1 | 1222.1 | 1234.1 | 1203.7 | 1146.6 | 1089.6 | 1050.0 | 1037.1 |
| 107.5° | 1048.9 | 1205.5 | 1301.2 | 1345.8 | 1353.0 | 1349.8 | 1341.9 | 1324.8 |
| 110°   | 989.3  | 1154.0 | 1271.8 | 1347.3 | 1386.8 | 1404.3 | 1412.6 | 1411.7 |





TEST NUMBER: P331674-927

CATALOG NUMBER: SA2XXRDIP-C485D1080U927-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 934.8 | 1092.9 | 1218.8 | 1305.3 | 1360.3 | 1389.6 | 1405.3 | 1410.2 |
| 115°   | 867.8 | 1009.6 | 1130.0 | 1224.9 | 1290.2 | 1332.5 | 1356.5 | 1364.8 |
| 117.5° | 817.4 | 941.8  | 1051.1 | 1140.0 | 1206.7 | 1251.3 | 1276.6 | 1283.6 |
| 120°   | 792.3 | 906.4  | 1004.0 | 1087.7 | 1152.1 | 1195.4 | 1222.1 | 1231.3 |
| 122.5° | 772.5 | 877.0  | 969.4  | 1045.0 | 1102.8 | 1145.3 | 1169.1 | 1176.8 |
| 125°   | 743.5 | 838.4  | 919.3  | 988.3  | 1041.7 | 1076.7 | 1099.7 | 1107.1 |
| 127.5° | 715.0 | 800.8  | 877.2  | 940.9  | 987.5  | 1020.2 | 1040.1 | 1046.0 |
| 130°   | 696.6 | 775.8  | 848.5  | 909.2  | 954.3  | 985.6  | 1004.0 | 1011.4 |
| 132.5° | 679.0 | 752.3  | 819.0  | 876.1  | 920.4  | 951.7  | 968.7  | 975.3  |
| 135°   | 654.3 | 715.0  | 775.8  | 827.3  | 866.9  | 897.2  | 913.8  | 917.5  |
| 137.5° | 634.6 | 685.4  | 733.6  | 778.6  | 814.6  | 840.7  | 855.3  | 860.8  |
| 140°   | 622.1 | 666.3  | 708.6  | 749.1  | 778.6  | 802.5  | 816.3  | 821.8  |
| 142.5° | 611.8 | 649.4  | 685.8  | 719.6  | 747.6  | 769.4  | 781.6  | 782.8  |
| 145°   | 597.2 | 627.6  | 656.2  | 682.9  | 704.9  | 720.6  | 729.8  | 732.5  |
| 147.5° | 586.1 | 610.0  | 632.2  | 651.7  | 669.9  | 682.5  | 688.7  | 690.4  |
| 150°   | 577.9 | 598.2  | 617.5  | 634.1  | 647.8  | 658.9  | 664.4  | 665.4  |
| 152.5° | 569.8 | 588.6  | 605.0  | 619.3  | 630.2  | 639.8  | 643.8  | 644.0  |
| 155°   | 558.6 | 573.3  | 587.1  | 597.2  | 607.4  | 613.8  | 617.5  | 615.7  |
| 157.5° | 545.5 | 557.9  | 569.4  | 577.3  | 584.6  | 589.9  | 591.5  | 591.5  |
| 160°   | 537.4 | 547.6  | 557.7  | 564.1  | 570.5  | 575.1  | 576.1  | 576.1  |
| 162.5° | 529.3 | 538.0  | 546.6  | 551.6  | 558.0  | 561.2  | 562.1  | 561.3  |
| 165°   | 517.2 | 523.6  | 530.0  | 533.8  | 537.4  | 541.1  | 541.1  | 540.2  |
| 167.5° | 505.6 | 510.6  | 515.0  | 518.3  | 519.9  | 522.0  | 521.8  | 520.7  |
| 170°   | 499.7 | 502.5  | 506.1  | 507.9  | 508.9  | 511.7  | 510.7  | 508.9  |
| 172.5° | 493.1 | 495.1  | 498.0  | 499.2  | 500.1  | 501.4  | 500.4  | 499.3  |
| 175°   | 485.9 | 486.8  | 487.7  | 488.6  | 488.6  | 489.6  | 488.6  | 486.8  |
| 177.5° | 480.8 | 480.8  | 481.5  | 481.5  | 481.5  | 481.5  | 480.8  | 479.3  |
| 180°   | 478.6 | 478.6  | 478.6  | 478.6  | 478.6  | 478.6  | 478.6  | 478.6  |

(END OF REPORT)