

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: P331656-935

Luminaire Tested: **SA2XXRDIP-C485D530U935-4F0-1E-UDD-F4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331656-935  
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-C485D530U935-4F0-1E-UDD-F4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 485 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER, REGRESSED  
HOUSING  
UPLIGHT 530 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

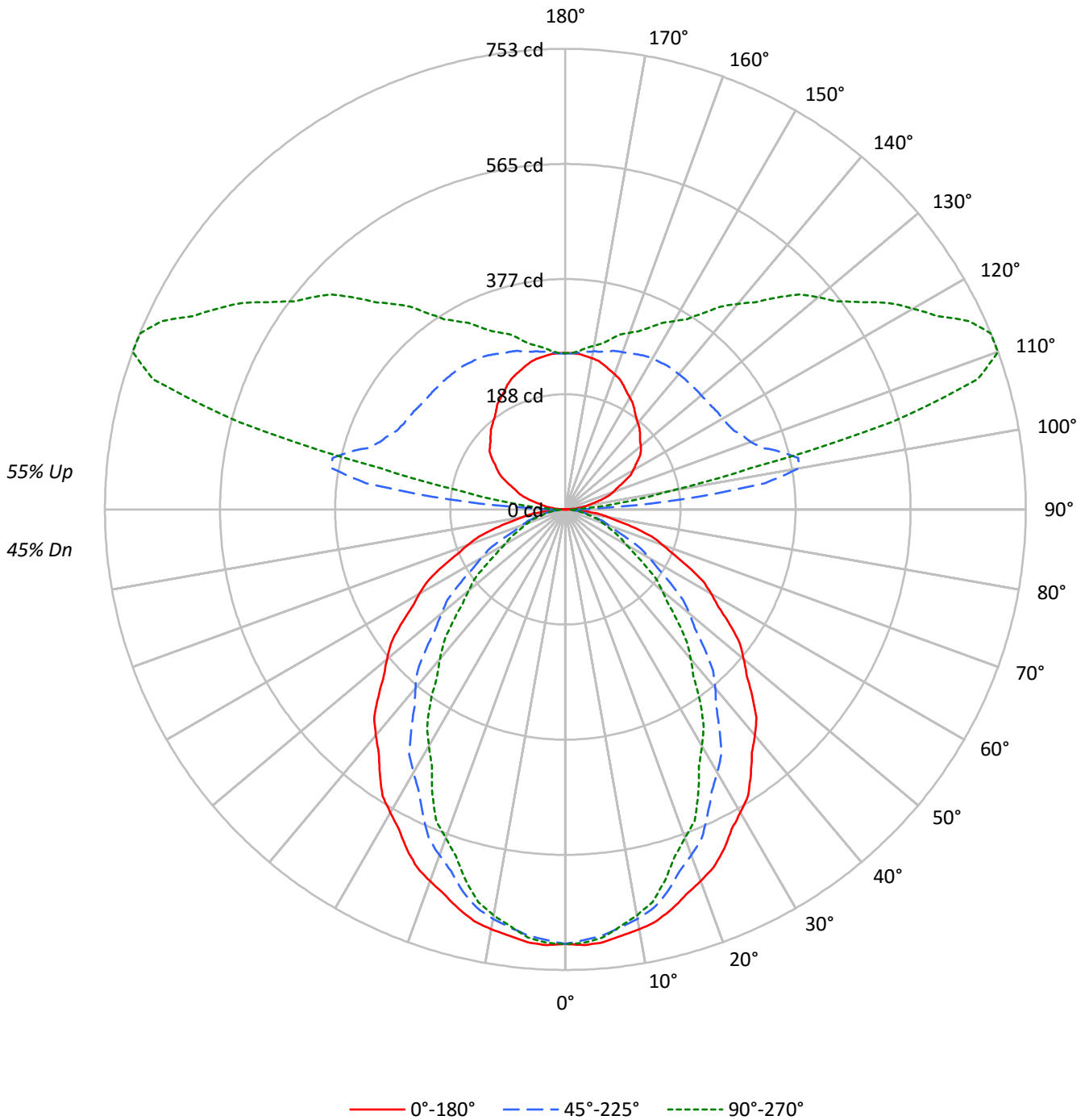
Lumens per Lamp: N/A  
Luminaire Lumens: 3240.5 lumens  
Efficiency: N/A  
Efficacy: 98.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 32.8  
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: P331656-935  
CATALOG NUMBER: SA2XXRDIP-C485D530U935-4F0-1E-UDD-F4

### Luminous Intensity Polar Plot





TEST NUMBER: P331656-935

CATALOG NUMBER: SA2XXRDIP-C485D530U935-4F0-1E-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 | 50 | 30 | 10 | 0  |   |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |
| 0   | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 81 | 81 | 81 | 66 | 66 | 66 | 52 | 52 | 52 | 45 |    |    |    |   |
| 1   | 97  | 93  | 89  | 86  | 89 | 85 | 82 | 79 | 71 | 69 | 67 | 58 | 57 | 55 | 46 | 45 | 44 | 39 |    |    |    |   |
| 2   | 89  | 82  | 76  | 71  | 81 | 75 | 70 | 66 | 63 | 59 | 56 | 52 | 49 | 47 | 41 | 40 | 38 | 33 |    |    |    |   |
| 3   | 81  | 72  | 65  | 60  | 74 | 67 | 60 | 56 | 56 | 51 | 48 | 46 | 43 | 40 | 37 | 35 | 33 | 29 |    |    |    |   |
| 4   | 75  | 64  | 57  | 51  | 68 | 59 | 53 | 47 | 50 | 45 | 41 | 41 | 38 | 35 | 33 | 31 | 29 | 25 |    |    |    |   |
| 5   | 69  | 57  | 49  | 44  | 63 | 53 | 46 | 41 | 45 | 40 | 36 | 37 | 33 | 30 | 30 | 27 | 25 | 22 |    |    |    |   |
| 6   | 63  | 52  | 44  | 38  | 58 | 48 | 41 | 36 | 41 | 35 | 31 | 34 | 30 | 27 | 28 | 25 | 22 | 20 |    |    |    |   |
| 7   | 59  | 47  | 39  | 34  | 54 | 43 | 36 | 32 | 37 | 32 | 28 | 31 | 27 | 24 | 25 | 22 | 20 | 17 |    |    |    |   |
| 8   | 54  | 42  | 35  | 30  | 50 | 39 | 33 | 28 | 34 | 28 | 25 | 28 | 24 | 21 | 23 | 20 | 18 | 16 |    |    |    |   |
| 9   | 51  | 39  | 32  | 27  | 47 | 36 | 30 | 25 | 31 | 26 | 22 | 26 | 22 | 19 | 22 | 19 | 17 | 14 |    |    |    |   |
| 10  | 47  | 36  | 29  | 24  | 44 | 33 | 27 | 23 | 29 | 24 | 20 | 24 | 20 | 18 | 20 | 17 | 15 | 13 |    |    |    |   |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 11472 | 11472 | 11472 |
| 5°  | 11515 | 11329 | 11391 |
| 10° | 11429 | 11144 | 11049 |
| 15° | 11296 | 10813 | 10502 |
| 20° | 11115 | 10340 | 9821  |
| 25° | 10929 | 9805  | 9164  |
| 30° | 10670 | 9257  | 8321  |
| 35° | 10419 | 8657  | 7579  |
| 40° | 10163 | 8037  | 6721  |
| 45° | 9866  | 7341  | 5948  |
| 50° | 9560  | 6636  | 5184  |
| 55° | 9250  | 5883  | 4453  |
| 60° | 8887  | 5089  | 3694  |
| 65° | 8478  | 4271  | 3366  |
| 70° | 7983  | 3522  | 3097  |
| 75° | 7380  | 3206  | 2888  |
| 80° | 6518  | 2864  | 2631  |
| 85° | 5113  | 2260  | 2260  |



TEST NUMBER: P331656-935

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 66.5   | 2.1       |
| 10°-20°   | 182.6  | 5.6       |
| 20°-30°   | 256.4  | 7.9       |
| 30°-40°   | 279.6  | 8.6       |
| 40°-50°   | 257.1  | 7.9       |
| 50°-60°   | 201.9  | 6.2       |
| 60°-70°   | 131.7  | 4.1       |
| 70°-80°   | 67.9   | 2.1       |
| 80°-90°   | 19.9   | 0.6       |
| 90°-100°  | 102.1  | 3.2       |
| 100°-110° | 346.4  | 10.7      |
| 110°-120° | 368.0  | 11.4      |
| 120°-130° | 303.0  | 9.3       |
| 130°-140° | 243.3  | 7.5       |
| 140°-150° | 183.9  | 5.7       |
| 150°-160° | 129.2  | 4.0       |
| 160°-170° | 76.1   | 2.3       |
| 170°-180° | 24.8   | 0.8       |
| 0°-30°    | 505.6  | 15.6      |
| 0°-40°    | 785.2  | 24.2      |
| 0°-60°    | 1244.3 | 38.4      |
| 0°-90°    | 1463.7 | 45.2      |
| 90°-120°  | 816.6  | 25.2      |
| 90°-150°  | 1546.7 | 47.7      |
| 90°-180°  | 1777.0 | 54.8      |
| 0°-180°   | 3240.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 710 | 710   | 710 | 710   | 710 |      |
| 5°   | 710 | 707   | 699 | 704   | 703 | 67   |
| 15°  | 676 | 668   | 647 | 635   | 628 | 190  |
| 25°  | 614 | 592   | 550 | 525   | 514 | 282  |
| 35°  | 529 | 494   | 439 | 400   | 384 | 331  |
| 45°  | 432 | 388   | 322 | 278   | 260 | 334  |
| 55°  | 329 | 277   | 209 | 172   | 158 | 293  |
| 65°  | 222 | 169   | 112 | 91    | 88  | 220  |
| 75°  | 118 | 75    | 51  | 47    | 46  | 125  |
| 85°  | 28  | 15    | 12  | 12    | 12  | 33   |
| 90°  | 0   | 7     | 17  | 16    | 16  | 2    |
| 95°  | 17  | 42    | 192 | 73    | 56  | 18   |
| 105° | 60  | 90    | 364 | 650   | 553 | 64   |
| 115° | 106 | 133   | 304 | 628   | 728 | 105  |
| 125° | 147 | 174   | 293 | 509   | 591 | 131  |
| 135° | 173 | 206   | 289 | 428   | 490 | 133  |
| 145° | 197 | 227   | 288 | 357   | 391 | 124  |
| 155° | 224 | 242   | 279 | 316   | 328 | 103  |
| 165° | 244 | 252   | 268 | 284   | 288 | 69   |
| 175° | 255 | 255   | 257 | 260   | 260 | 24   |
| 180° | 255 | 255   | 255 | 255   | 255 |      |



TEST NUMBER: P331656-935

CATALOG NUMBER: SA2XXRDIP-C485D530U935-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 710.5 | 710.5 | 710.5 | 710.5 | 710.5 | 710.5 | 710.5 | 710.5 | 710.5 | 710.5 | 710.5 |
| 2.5°   | 713.1 | 712.6 | 712.0 | 711.4 | 710.8 | 709.9 | 708.7 | 707.4 | 706.1 | 704.9 | 706.0 |
| 5°     | 710.5 | 709.8 | 709.1 | 708.4 | 707.7 | 706.4 | 704.6 | 702.7 | 700.9 | 699.0 | 700.3 |
| 7.5°   | 703.2 | 702.3 | 701.5 | 700.5 | 699.6 | 698.1 | 695.9 | 693.8 | 691.6 | 689.5 | 689.8 |
| 10°    | 697.1 | 696.0 | 695.0 | 694.1 | 693.0 | 691.1 | 688.3 | 685.4 | 682.5 | 679.7 | 679.2 |
| 12.5°  | 689.3 | 688.1 | 686.8 | 685.6 | 684.4 | 682.0 | 678.3 | 674.7 | 671.0 | 667.4 | 666.6 |
| 15°    | 675.8 | 674.2 | 672.7 | 671.1 | 669.5 | 666.3 | 661.4 | 656.6 | 651.8 | 646.9 | 644.2 |
| 17.5°  | 659.3 | 656.9 | 654.4 | 652.0 | 649.6 | 645.3 | 639.1 | 632.8 | 626.6 | 620.4 | 617.2 |
| 20°    | 646.9 | 644.0 | 641.2 | 638.3 | 635.4 | 630.4 | 623.3 | 616.1 | 609.0 | 601.8 | 598.3 |
| 22.5°  | 633.5 | 630.3 | 627.1 | 623.9 | 620.7 | 615.1 | 607.0 | 598.9 | 590.9 | 582.8 | 578.2 |
| 25°    | 613.5 | 608.9 | 604.3 | 599.7 | 595.1 | 588.1 | 578.7 | 569.3 | 559.8 | 550.4 | 544.6 |
| 27.5°  | 589.3 | 584.3 | 579.3 | 574.4 | 569.4 | 561.5 | 551.0 | 540.3 | 529.7 | 519.0 | 512.2 |
| 30°    | 572.3 | 566.9 | 561.5 | 556.0 | 550.6 | 542.2 | 530.7 | 519.3 | 507.8 | 496.5 | 489.1 |
| 32.5°  | 555.9 | 549.5 | 543.1 | 536.8 | 530.5 | 521.4 | 509.8 | 498.1 | 486.5 | 474.8 | 466.5 |
| 35°    | 528.6 | 521.2 | 514.0 | 506.7 | 499.4 | 489.5 | 476.9 | 464.3 | 451.8 | 439.2 | 430.2 |
| 37.5°  | 501.3 | 493.3 | 485.3 | 477.3 | 469.3 | 458.6 | 445.2 | 431.8 | 418.4 | 405.0 | 395.0 |
| 40°    | 482.2 | 473.7 | 465.1 | 456.6 | 448.0 | 436.8 | 422.9 | 409.1 | 395.2 | 381.3 | 371.2 |
| 42.5°  | 462.7 | 453.7 | 444.6 | 435.7 | 426.6 | 414.9 | 400.6 | 386.2 | 372.0 | 357.7 | 347.2 |
| 45°    | 432.1 | 422.6 | 412.9 | 403.4 | 393.8 | 381.5 | 366.5 | 351.5 | 336.5 | 321.5 | 311.3 |
| 47.5°  | 402.3 | 392.1 | 382.0 | 371.9 | 361.7 | 348.9 | 333.4 | 317.9 | 302.4 | 286.9 | 276.8 |
| 50°    | 380.6 | 370.5 | 360.4 | 350.3 | 340.1 | 327.2 | 311.4 | 295.8 | 280.0 | 264.2 | 254.4 |
| 52.5°  | 359.6 | 349.0 | 338.4 | 327.8 | 317.2 | 304.2 | 288.8 | 273.5 | 258.0 | 242.7 | 233.2 |
| 55°    | 328.6 | 317.5 | 306.3 | 295.2 | 284.0 | 270.7 | 255.3 | 239.9 | 224.4 | 209.0 | 200.4 |
| 57.5°  | 296.8 | 285.4 | 274.0 | 262.5 | 251.1 | 238.0 | 223.2 | 208.3 | 193.5 | 178.7 | 170.7 |
| 60°    | 275.2 | 263.8 | 252.4 | 240.9 | 229.5 | 216.5 | 201.7 | 187.0 | 172.3 | 157.6 | 150.2 |
| 62.5°  | 254.1 | 242.7 | 231.3 | 219.8 | 208.4 | 195.7 | 181.7 | 167.6 | 153.6 | 139.6 | 132.6 |
| 65°    | 221.9 | 210.3 | 198.7 | 187.1 | 175.6 | 163.3 | 150.5 | 137.6 | 124.8 | 111.8 | 107.0 |
| 67.5°  | 190.7 | 179.3 | 167.7 | 156.3 | 144.7 | 133.2 | 121.7 | 110.1 | 98.5  | 87.0  | 84.7  |
| 70°    | 169.1 | 158.0 | 146.8 | 135.7 | 124.5 | 114.0 | 104.2 | 94.3  | 84.5  | 74.6  | 73.2  |
| 72.5°  | 148.5 | 137.8 | 127.2 | 116.5 | 105.8 | 96.5  | 88.6  | 80.7  | 72.8  | 64.8  | 63.6  |
| 75°    | 118.3 | 108.3 | 98.3  | 88.3  | 78.3  | 70.9  | 66.0  | 61.1  | 56.3  | 51.4  | 50.5  |
| 77.5°  | 88.6  | 79.8  | 71.0  | 62.3  | 53.6  | 48.0  | 45.6  | 43.3  | 40.9  | 38.6  | 38.0  |
| 80°    | 70.1  | 62.8  | 55.5  | 48.2  | 40.9  | 36.6  | 35.1  | 33.8  | 32.3  | 30.8  | 30.3  |
| 82.5°  | 53.1  | 47.4  | 41.8  | 36.1  | 30.4  | 27.0  | 26.1  | 25.1  | 24.1  | 23.2  | 22.8  |
| 85°    | 27.6  | 24.6  | 21.6  | 18.7  | 15.7  | 13.9  | 13.5  | 13.1  | 12.7  | 12.2  | 12.2  |
| 87.5°  | 8.4   | 7.7   | 7.1   | 6.5   | 5.8   | 5.6   | 6.1   | 6.8   | 7.3   | 7.5   | 7.2   |
| 90°    | 0.5   | 2.0   | 4.0   | 4.9   | 5.9   | 7.4   | 9.8   | 13.3  | 16.2  | 16.7  | 16.2  |
| 92.5°  | 6.0   | 8.6   | 12.1  | 14.4  | 17.7  | 22.3  | 33.4  | 49.0  | 62.9  | 63.8  | 53.9  |
| 95°    | 17.2  | 19.1  | 24.0  | 28.5  | 36.3  | 48.1  | 70.7  | 113.4 | 170.4 | 192.5 | 168.4 |
| 97.5°  | 28.0  | 30.7  | 35.8  | 42.5  | 51.6  | 64.9  | 93.3  | 152.8 | 247.5 | 328.6 | 344.7 |
| 100°   | 37.8  | 39.3  | 43.7  | 51.6  | 61.4  | 75.2  | 101.2 | 161.1 | 267.1 | 387.9 | 458.6 |
| 102.5° | 46.8  | 48.0  | 52.3  | 60.2  | 70.4  | 84.1  | 108.2 | 161.4 | 259.7 | 389.9 | 501.0 |
| 105°   | 59.9  | 61.9  | 65.3  | 72.7  | 83.4  | 97.2  | 120.3 | 164.0 | 245.0 | 363.9 | 494.5 |
| 107.5° | 74.0  | 75.6  | 79.0  | 85.8  | 96.4  | 110.3 | 132.7 | 170.7 | 237.7 | 336.0 | 451.3 |
| 110°   | 83.4  | 85.4  | 88.4  | 94.8  | 105.0 | 119.3 | 140.9 | 176.2 | 236.2 | 322.6 | 424.2 |



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CATALOG NUMBER: SA2XXRDIP-C485D530U935-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 92.1  | 94.1  | 97.4  | 103.4 | 113.3 | 127.9 | 148.8 | 182.2 | 236.6 | 313.9 | 405.4 |
| 115°   | 105.6 | 108.1 | 111.0 | 116.8 | 126.7 | 139.9 | 161.1 | 191.0 | 238.7 | 304.4 | 382.0 |
| 117.5° | 119.5 | 121.5 | 124.4 | 129.7 | 139.1 | 152.8 | 172.4 | 200.4 | 242.2 | 299.8 | 367.3 |
| 120°   | 128.1 | 130.1 | 133.0 | 137.5 | 147.3 | 161.1 | 180.2 | 206.7 | 244.5 | 297.0 | 359.5 |
| 122.5° | 136.4 | 138.0 | 140.9 | 145.8 | 155.6 | 169.7 | 187.7 | 212.2 | 247.3 | 295.5 | 352.8 |
| 125°   | 147.3 | 148.8 | 151.7 | 157.6 | 167.5 | 181.2 | 198.9 | 220.9 | 251.4 | 292.7 | 343.2 |
| 127.5° | 155.9 | 157.9 | 162.0 | 168.5 | 178.0 | 192.1 | 209.3 | 229.1 | 255.6 | 291.0 | 334.4 |
| 130°   | 161.1 | 163.0 | 167.9 | 174.8 | 184.6 | 198.4 | 215.6 | 234.2 | 258.7 | 290.2 | 328.5 |
| 132.5° | 165.7 | 168.2 | 173.4 | 180.7 | 190.9 | 204.7 | 221.0 | 239.4 | 261.9 | 289.8 | 323.7 |
| 135°   | 172.8 | 174.8 | 180.7 | 188.0 | 199.3 | 213.1 | 228.9 | 246.0 | 265.6 | 289.2 | 317.2 |
| 137.5° | 179.5 | 181.8 | 187.8 | 195.6 | 206.8 | 219.6 | 235.1 | 251.1 | 269.0 | 289.1 | 312.5 |
| 140°   | 184.6 | 186.6 | 192.5 | 200.4 | 211.1 | 223.9 | 238.7 | 253.8 | 270.5 | 288.7 | 309.9 |
| 142.5° | 189.8 | 191.3 | 196.8 | 204.7 | 215.1 | 227.0 | 241.4 | 256.2 | 271.7 | 288.7 | 307.1 |
| 145°   | 197.4 | 199.3 | 204.2 | 211.6 | 221.4 | 232.2 | 245.5 | 259.2 | 273.0 | 287.7 | 303.4 |
| 147.5° | 205.6 | 207.1 | 211.8 | 218.6 | 226.8 | 236.3 | 248.8 | 261.0 | 273.4 | 285.9 | 299.7 |
| 150°   | 211.1 | 212.6 | 216.5 | 222.9 | 230.3 | 239.1 | 250.4 | 261.7 | 273.0 | 284.8 | 296.6 |
| 152.5° | 216.6 | 217.3 | 221.3 | 226.9 | 233.8 | 241.9 | 252.0 | 262.1 | 272.2 | 282.8 | 293.9 |
| 155°   | 224.4 | 224.9 | 227.8 | 233.2 | 238.7 | 246.0 | 254.3 | 262.7 | 271.0 | 279.4 | 288.7 |
| 157.5° | 230.8 | 231.4 | 233.8 | 238.4 | 242.8 | 248.9 | 256.0 | 262.7 | 268.8 | 275.9 | 283.9 |
| 160°   | 235.2 | 235.7 | 237.6 | 241.6 | 245.5 | 250.9 | 256.8 | 262.7 | 267.6 | 273.5 | 280.3 |
| 162.5° | 239.5 | 239.2 | 241.2 | 244.4 | 247.9 | 252.1 | 257.2 | 262.3 | 266.4 | 271.6 | 277.2 |
| 165°   | 244.5 | 244.0 | 245.0 | 248.0 | 250.4 | 253.4 | 257.8 | 261.2 | 264.2 | 267.6 | 272.0 |
| 167.5° | 248.7 | 248.1 | 248.9 | 250.8 | 252.6 | 254.4 | 257.7 | 260.5 | 261.9 | 264.2 | 266.9 |
| 170°   | 251.4 | 250.4 | 250.9 | 252.4 | 253.4 | 254.9 | 257.3 | 259.8 | 260.7 | 262.2 | 264.2 |
| 172.5° | 253.0 | 252.4 | 252.1 | 253.6 | 254.2 | 255.2 | 256.9 | 258.6 | 259.2 | 259.8 | 261.4 |
| 175°   | 254.9 | 254.3 | 253.8 | 254.9 | 254.9 | 255.3 | 256.3 | 257.3 | 256.8 | 257.3 | 257.8 |
| 177.5° | 255.7 | 254.9 | 254.5 | 255.3 | 255.3 | 255.3 | 255.7 | 256.5 | 255.7 | 255.3 | 255.7 |
| 180°   | 255.3 | 255.3 | 255.3 | 255.3 | 255.3 | 255.3 | 255.3 | 255.3 | 255.3 | 255.3 | 255.3 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 710.5 | 710.5 | 710.5 | 710.5 | 710.5 | 710.5 | 710.5 | 710.5 |
| 2.5°   | 707.1 | 708.3 | 709.5 | 709.9 | 709.7 | 709.5 | 709.2 | 709.0 |
| 5°     | 701.5 | 702.8 | 704.1 | 704.6 | 704.1 | 703.7 | 703.3 | 702.8 |
| 7.5°   | 690.2 | 690.5 | 691.0 | 690.8 | 690.0 | 689.2 | 688.5 | 687.8 |
| 10°    | 678.8 | 678.4 | 678.0 | 677.3 | 676.5 | 675.6 | 674.8 | 673.9 |
| 12.5°  | 665.8 | 665.0 | 664.3 | 663.1 | 661.7 | 660.3 | 658.8 | 657.5 |
| 15°    | 641.4 | 638.8 | 636.0 | 634.0 | 632.5 | 631.1 | 629.6 | 628.3 |
| 17.5°  | 613.9 | 610.7 | 607.4 | 604.6 | 602.2 | 599.7 | 597.3 | 594.8 |
| 20°    | 594.7 | 591.2 | 587.5 | 584.2 | 581.1 | 577.9 | 574.8 | 571.6 |
| 22.5°  | 573.6 | 569.0 | 564.5 | 560.9 | 558.6 | 556.3 | 554.0 | 551.6 |
| 25°    | 538.7 | 532.9 | 527.0 | 523.0 | 520.8 | 518.7 | 516.6 | 514.4 |
| 27.5°  | 505.4 | 498.5 | 491.7 | 486.6 | 483.2 | 479.8 | 476.4 | 473.0 |
| 30°    | 481.8 | 474.6 | 467.3 | 461.7 | 457.8 | 454.0 | 450.1 | 446.3 |
| 32.5°  | 458.1 | 449.9 | 441.5 | 435.6 | 432.0 | 428.3 | 424.6 | 421.0 |
| 35°    | 421.2 | 412.2 | 403.2 | 397.1 | 394.0 | 390.8 | 387.7 | 384.5 |
| 37.5°  | 385.1 | 375.2 | 365.3 | 358.5 | 355.0 | 351.4 | 347.8 | 344.1 |
| 40°    | 361.0 | 350.9 | 340.7 | 333.8 | 330.1 | 326.4 | 322.6 | 318.9 |
| 42.5°  | 336.7 | 326.1 | 315.7 | 308.7 | 305.1 | 301.4 | 297.8 | 294.2 |
| 45°    | 301.2 | 291.1 | 280.9 | 274.1 | 270.7 | 267.3 | 263.8 | 260.5 |
| 47.5°  | 266.7 | 256.7 | 246.6 | 240.0 | 236.9 | 233.8 | 230.6 | 227.5 |
| 50°    | 244.5 | 234.7 | 224.8 | 218.4 | 215.4 | 212.4 | 209.4 | 206.4 |
| 52.5°  | 223.6 | 214.1 | 204.6 | 198.5 | 195.7 | 193.0 | 190.1 | 187.4 |
| 55°    | 191.8 | 183.2 | 174.7 | 169.0 | 166.3 | 163.6 | 160.9 | 158.2 |
| 57.5°  | 162.9 | 155.1 | 147.2 | 142.2 | 139.8 | 137.6 | 135.3 | 132.9 |
| 60°    | 142.9 | 135.7 | 128.4 | 123.6 | 121.3 | 119.0 | 116.8 | 114.4 |
| 62.5°  | 125.6 | 118.7 | 111.8 | 107.6 | 106.2 | 104.9 | 103.5 | 102.1 |
| 65°    | 102.2 | 97.3  | 92.5  | 89.8  | 89.4  | 88.9  | 88.5  | 88.1  |
| 67.5°  | 82.5  | 80.2  | 78.0  | 76.7  | 76.2  | 75.8  | 75.3  | 74.8  |
| 70°    | 71.7  | 70.3  | 68.9  | 67.8  | 67.3  | 66.7  | 66.1  | 65.6  |
| 72.5°  | 62.4  | 61.2  | 60.0  | 59.2  | 58.9  | 58.5  | 58.2  | 57.9  |
| 75°    | 49.4  | 48.5  | 47.4  | 46.8  | 46.8  | 46.6  | 46.4  | 46.3  |
| 77.5°  | 37.5  | 36.9  | 36.3  | 35.9  | 35.6  | 35.5  | 35.2  | 35.0  |
| 80°    | 29.7  | 29.2  | 28.6  | 28.3  | 28.3  | 28.3  | 28.3  | 28.3  |
| 82.5°  | 22.5  | 22.1  | 21.8  | 21.6  | 21.6  | 21.6  | 21.6  | 21.6  |
| 85°    | 12.2  | 12.2  | 12.2  | 12.2  | 12.2  | 12.2  | 12.2  | 12.2  |
| 87.5°  | 7.1   | 6.7   | 6.8   | 6.8   | 6.8   | 6.8   | 6.8   | 6.8   |
| 90°    | 15.7  | 14.7  | 15.7  | 16.2  | 16.2  | 16.2  | 16.2  | 16.2  |
| 92.5°  | 42.8  | 36.8  | 32.6  | 29.5  | 29.2  | 27.6  | 28.0  | 27.2  |
| 95°    | 128.6 | 98.7  | 78.1  | 67.2  | 60.9  | 57.0  | 55.4  | 56.0  |
| 97.5°  | 300.2 | 245.6 | 192.5 | 157.0 | 133.5 | 121.5 | 114.3 | 110.2 |
| 100°   | 448.3 | 387.4 | 320.1 | 260.7 | 220.0 | 198.9 | 184.6 | 175.8 |
| 102.5° | 545.4 | 531.6 | 482.4 | 419.4 | 375.1 | 339.1 | 321.3 | 309.4 |
| 105°   | 596.6 | 652.0 | 658.5 | 642.2 | 611.8 | 581.3 | 560.3 | 553.4 |
| 107.5° | 559.6 | 643.3 | 694.3 | 718.1 | 721.9 | 720.2 | 716.0 | 706.9 |
| 110°   | 527.9 | 615.7 | 678.6 | 718.8 | 739.9 | 749.3 | 753.7 | 753.2 |





TEST NUMBER: P331656-935

CATALOG NUMBER: SA2XXRDIP-C485D530U935-4F0-1E-UDD-F4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 498.8 | 583.2 | 650.3 | 696.5 | 725.8 | 741.4 | 749.8 | 752.4 |
| 115°   | 463.0 | 538.6 | 603.0 | 653.6 | 688.4 | 711.0 | 723.8 | 728.1 |
| 117.5° | 436.1 | 502.5 | 560.9 | 608.3 | 643.9 | 667.7 | 681.1 | 684.8 |
| 120°   | 422.8 | 483.6 | 535.7 | 580.4 | 614.8 | 637.8 | 652.0 | 656.9 |
| 122.5° | 412.2 | 468.0 | 517.2 | 557.6 | 588.4 | 611.1 | 623.8 | 627.9 |
| 125°   | 396.7 | 447.3 | 490.5 | 527.4 | 555.9 | 574.5 | 586.8 | 590.7 |
| 127.5° | 381.5 | 427.3 | 468.0 | 502.0 | 526.8 | 544.3 | 554.9 | 558.1 |
| 130°   | 371.7 | 414.0 | 452.7 | 485.1 | 509.2 | 525.9 | 535.7 | 539.6 |
| 132.5° | 362.3 | 401.4 | 437.0 | 467.4 | 491.1 | 507.8 | 516.9 | 520.4 |
| 135°   | 349.1 | 381.5 | 414.0 | 441.4 | 462.5 | 478.7 | 487.6 | 489.6 |
| 137.5° | 338.6 | 365.8 | 391.4 | 415.4 | 434.6 | 448.6 | 456.3 | 459.3 |
| 140°   | 331.9 | 355.5 | 378.1 | 399.7 | 415.4 | 428.2 | 435.5 | 438.5 |
| 142.5° | 326.4 | 346.5 | 365.9 | 384.0 | 398.9 | 410.5 | 417.1 | 417.7 |
| 145°   | 318.7 | 334.8 | 350.1 | 364.4 | 376.1 | 384.4 | 389.3 | 390.8 |
| 147.5° | 312.7 | 325.5 | 337.3 | 347.8 | 357.5 | 364.1 | 367.5 | 368.3 |
| 150°   | 308.3 | 319.2 | 329.5 | 338.3 | 345.7 | 351.5 | 354.5 | 355.0 |
| 152.5° | 304.0 | 314.1 | 322.8 | 330.5 | 336.2 | 341.4 | 343.5 | 343.6 |
| 155°   | 298.1 | 305.9 | 313.2 | 318.7 | 324.1 | 327.5 | 329.5 | 328.5 |
| 157.5° | 291.1 | 297.6 | 303.8 | 308.1 | 311.9 | 314.8 | 315.6 | 315.6 |
| 160°   | 286.7 | 292.1 | 297.6 | 301.0 | 304.4 | 306.9 | 307.4 | 307.4 |
| 162.5° | 282.4 | 287.1 | 291.7 | 294.3 | 297.7 | 299.5 | 299.9 | 299.5 |
| 165°   | 276.0 | 279.4 | 282.8 | 284.8 | 286.7 | 288.7 | 288.7 | 288.3 |
| 167.5° | 269.8 | 272.4 | 274.7 | 276.6 | 277.4 | 278.5 | 278.4 | 277.8 |
| 170°   | 266.7 | 268.1 | 270.1 | 271.0 | 271.6 | 273.0 | 272.5 | 271.6 |
| 172.5° | 263.1 | 264.2 | 265.7 | 266.3 | 266.8 | 267.5 | 267.0 | 266.4 |
| 175°   | 259.2 | 259.8 | 260.3 | 260.7 | 260.7 | 261.2 | 260.7 | 259.8 |
| 177.5° | 256.5 | 256.5 | 256.9 | 256.9 | 256.9 | 256.9 | 256.5 | 255.7 |
| 180°   | 255.3 | 255.3 | 255.3 | 255.3 | 255.3 | 255.3 | 255.3 | 255.3 |

(END OF REPORT)