

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: P331334-935

Luminaire Tested: **SA2XXDIP-C675D330U935-4F0-1E-UDD-D1**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331334-935  
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-C675D330U935-4F0-1E-UDD-D1  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 675 LUMENS PER FOOT, DROP 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: 3323.1 lumens  
Efficiency: N/A  
Efficacy: 94.9 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

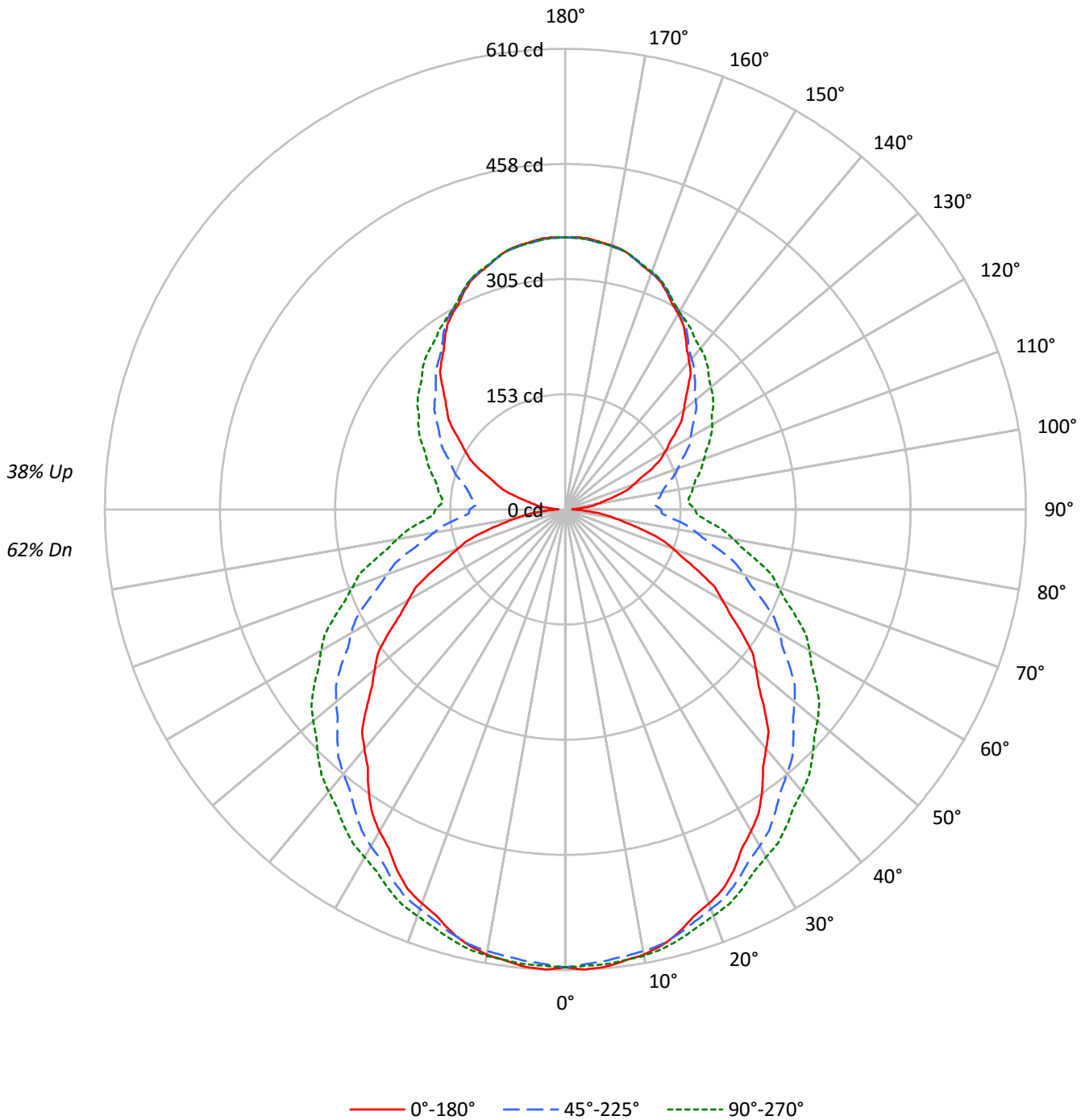
Input Watts (W): 35  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331334-935

CATALOG NUMBER: SA2XXDIP-C675D330U935-4F0-1E-UDD-D1

### Luminous Intensity Polar Plot





TEST NUMBER: P331334-935

CATALOG NUMBER: SA2XXDIP-C675D330U935-4F0-1E-UDD-D1

**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   | 110 | 110 | 110 | 110 | 103 | 103 | 103 | 103 | 90 | 90 | 90 | 78 | 78 | 78 | 67 | 67 | 67 | 62 |
| 1   | 99  | 93  | 89  | 84  | 92  | 87  | 83  | 80  | 76 | 73 | 70 | 66 | 63 | 61 | 56 | 55 | 53 | 48 |
| 2   | 89  | 81  | 73  | 68  | 83  | 75  | 69  | 64  | 66 | 61 | 57 | 57 | 53 | 50 | 49 | 46 | 43 | 39 |
| 3   | 81  | 70  | 62  | 55  | 75  | 66  | 58  | 52  | 57 | 52 | 47 | 50 | 45 | 41 | 42 | 39 | 36 | 32 |
| 4   | 74  | 62  | 53  | 46  | 68  | 58  | 50  | 44  | 51 | 44 | 39 | 44 | 39 | 35 | 38 | 34 | 30 | 27 |
| 5   | 67  | 55  | 46  | 39  | 63  | 51  | 44  | 38  | 45 | 39 | 34 | 39 | 34 | 30 | 34 | 30 | 26 | 23 |
| 6   | 62  | 49  | 40  | 34  | 58  | 46  | 38  | 32  | 41 | 34 | 29 | 35 | 30 | 26 | 30 | 26 | 23 | 20 |
| 7   | 57  | 44  | 36  | 30  | 53  | 42  | 34  | 28  | 37 | 30 | 26 | 32 | 27 | 23 | 28 | 23 | 20 | 18 |
| 8   | 53  | 40  | 32  | 26  | 50  | 38  | 30  | 25  | 33 | 27 | 23 | 29 | 24 | 20 | 25 | 21 | 18 | 16 |
| 9   | 50  | 37  | 29  | 23  | 46  | 35  | 27  | 22  | 31 | 25 | 20 | 27 | 22 | 18 | 23 | 19 | 16 | 14 |
| 10  | 46  | 34  | 26  | 21  | 43  | 32  | 25  | 20  | 28 | 22 | 18 | 25 | 20 | 16 | 22 | 18 | 15 | 13 |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 9792 | 9792 | 9792 |
| 5°  | 9839 | 9426 | 9390 |
| 10° | 9778 | 9148 | 9044 |
| 15° | 9643 | 8853 | 8681 |
| 20° | 9473 | 8536 | 8331 |
| 25° | 9305 | 8231 | 8014 |
| 30° | 9067 | 7919 | 7694 |
| 35° | 8828 | 7615 | 7468 |
| 40° | 8576 | 7358 | 7243 |
| 45° | 8334 | 7127 | 7051 |
| 50° | 8078 | 6920 | 6861 |
| 55° | 7810 | 6696 | 6668 |
| 60° | 7480 | 6465 | 6465 |
| 65° | 7135 | 6192 | 6222 |
| 70° | 6751 | 5899 | 5960 |
| 75° | 6257 | 5612 | 5720 |
| 80° | 5488 | 5319 | 5476 |
| 85° | 4743 | 5064 | 5286 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 57.5   | 1.7       |
| 10°-20°   | 164.8  | 5.0       |
| 20°-30°   | 249.7  | 7.5       |
| 30°-40°   | 304.2  | 9.2       |
| 40°-50°   | 327.2  | 9.8       |
| 50°-60°   | 317.8  | 9.6       |
| 60°-70°   | 277.5  | 8.3       |
| 70°-80°   | 213.6  | 6.4       |
| 80°-90°   | 144.8  | 4.4       |
| 90°-100°  | 121.6  | 3.7       |
| 100°-110° | 143.1  | 4.3       |
| 110°-120° | 168.9  | 5.1       |
| 120°-130° | 186.1  | 5.6       |
| 130°-140° | 190.1  | 5.7       |
| 140°-150° | 177.4  | 5.3       |
| 150°-160° | 147.2  | 4.4       |
| 160°-170° | 97.6   | 2.9       |
| 170°-180° | 34.1   | 1.0       |
| 0°-30°    | 472.0  | 14.2      |
| 0°-40°    | 776.1  | 23.4      |
| 0°-60°    | 1421.1 | 42.8      |
| 0°-90°    | 2057.0 | 61.9      |
| 90°-120°  | 433.6  | 13.0      |
| 90°-150°  | 987.2  | 29.7      |
| 90°-180°  | 1266.0 | 38.1      |
| 0°-180°   | 3323.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 606 | 606   | 606 | 606   | 606 |      |
| 5°   | 608 | 605   | 600 | 605   | 605 | 58   |
| 15°  | 580 | 582   | 582 | 589   | 589 | 163  |
| 25°  | 527 | 534   | 541 | 552   | 555 | 242  |
| 35°  | 454 | 469   | 486 | 505   | 512 | 284  |
| 45°  | 373 | 397   | 427 | 453   | 463 | 288  |
| 55°  | 286 | 318   | 363 | 394   | 406 | 255  |
| 65°  | 195 | 239   | 290 | 325   | 338 | 194  |
| 75°  | 108 | 158   | 214 | 250   | 263 | 114  |
| 85°  | 32  | 86    | 142 | 178   | 192 | 34   |
| 90°  | 9   | 64    | 127 | 160   | 172 | 7    |
| 95°  | 23  | 68    | 120 | 153   | 164 | 24   |
| 105° | 70  | 97    | 142 | 173   | 184 | 74   |
| 115° | 125 | 138   | 176 | 201   | 210 | 124  |
| 125° | 179 | 183   | 209 | 231   | 239 | 160  |
| 135° | 230 | 234   | 243 | 260   | 267 | 178  |
| 145° | 278 | 280   | 282 | 287   | 291 | 174  |
| 155° | 318 | 319   | 320 | 321   | 320 | 146  |
| 165° | 346 | 346   | 346 | 347   | 346 | 98   |
| 175° | 360 | 359   | 358 | 360   | 359 | 34   |
| 180° | 360 | 360   | 360 | 360   | 360 |      |



TEST NUMBER: P331334-935

CATALOG NUMBER: SA2XXDIP-C675D330U935-4F0-1E-UDD-D1

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 606.5 | 606.5 | 606.5 | 606.5 | 606.5 | 606.5 | 606.5 | 606.5 | 606.5 | 606.5 | 606.5 |
| 2.5°   | 610.0 | 609.5 | 609.1 | 608.6 | 608.1 | 607.3 | 606.2 | 605.1 | 604.1 | 603.0 | 603.7 |
| 5°     | 608.2 | 607.6 | 607.1 | 606.5 | 605.9 | 605.0 | 603.8 | 602.7 | 601.5 | 600.3 | 601.5 |
| 7.5°   | 602.8 | 602.4 | 602.0 | 601.6 | 601.2 | 600.5 | 599.7 | 598.7 | 597.9 | 597.0 | 598.4 |
| 10°    | 598.6 | 598.1 | 597.8 | 597.4 | 597.0 | 596.5 | 595.9 | 595.4 | 594.8 | 594.2 | 595.7 |
| 12.5°  | 591.5 | 591.6 | 591.7 | 591.8 | 591.9 | 591.7 | 591.2 | 590.8 | 590.4 | 590.0 | 591.5 |
| 15°    | 580.1 | 580.5 | 580.9 | 581.3 | 581.7 | 581.9 | 581.9 | 581.9 | 581.9 | 581.9 | 583.6 |
| 17.5°  | 565.3 | 566.2 | 567.0 | 567.8 | 568.6 | 569.4 | 570.0 | 570.6 | 571.2 | 571.9 | 573.7 |
| 20°    | 555.5 | 556.5 | 557.4 | 558.4 | 559.4 | 560.3 | 561.0 | 561.9 | 562.7 | 563.4 | 565.6 |
| 22.5°  | 544.9 | 546.0 | 547.3 | 548.4 | 549.5 | 550.6 | 551.7 | 552.8 | 553.9 | 555.0 | 557.2 |
| 25°    | 527.4 | 528.7 | 530.1 | 531.5 | 532.9 | 534.4 | 536.1 | 538.0 | 539.7 | 541.4 | 543.8 |
| 27.5°  | 506.3 | 508.5 | 510.7 | 513.0 | 515.2 | 517.4 | 519.4 | 521.5 | 523.6 | 525.6 | 528.6 |
| 30°    | 492.2 | 494.7 | 497.3 | 499.8 | 502.4 | 504.9 | 507.5 | 510.0 | 512.6 | 515.1 | 518.1 |
| 32.5°  | 476.7 | 479.6 | 482.4 | 485.3 | 488.2 | 491.1 | 494.1 | 497.1 | 500.1 | 503.1 | 506.7 |
| 35°    | 454.4 | 457.7 | 461.1 | 464.3 | 467.7 | 471.2 | 474.9 | 478.6 | 482.3 | 486.0 | 490.3 |
| 37.5°  | 430.2 | 434.0 | 437.8 | 441.6 | 445.5 | 449.8 | 454.6 | 459.4 | 464.2 | 469.0 | 473.8 |
| 40°    | 414.0 | 418.3 | 422.6 | 426.9 | 431.2 | 435.9 | 441.3 | 446.5 | 451.8 | 457.0 | 462.1 |
| 42.5°  | 398.6 | 402.8 | 407.1 | 411.4 | 415.7 | 420.9 | 427.0 | 433.0 | 439.0 | 445.1 | 450.6 |
| 45°    | 372.6 | 378.0 | 383.2 | 388.5 | 393.7 | 399.8 | 406.7 | 413.5 | 420.3 | 427.1 | 433.3 |
| 47.5°  | 347.2 | 352.9 | 358.7 | 364.4 | 370.1 | 377.0 | 385.0 | 393.0 | 401.1 | 409.1 | 415.4 |
| 50°    | 329.6 | 335.7 | 341.7 | 347.8 | 353.8 | 361.3 | 370.1 | 378.8 | 387.6 | 396.4 | 403.0 |
| 52.5°  | 312.7 | 319.1 | 325.5 | 331.8 | 338.2 | 346.0 | 355.2 | 364.5 | 373.8 | 383.1 | 389.9 |
| 55°    | 285.7 | 292.7 | 299.7 | 306.8 | 313.7 | 322.4 | 332.5 | 342.7 | 352.8 | 363.0 | 370.1 |
| 57.5°  | 258.9 | 266.9 | 274.8 | 282.8 | 290.7 | 299.8 | 310.1 | 320.5 | 330.9 | 341.2 | 348.8 |
| 60°    | 240.0 | 248.3 | 256.8 | 265.2 | 273.5 | 283.4 | 294.5 | 305.6 | 316.7 | 327.9 | 335.3 |
| 62.5°  | 223.1 | 231.8 | 240.5 | 249.2 | 258.0 | 267.9 | 279.0 | 290.1 | 301.3 | 312.4 | 320.3 |
| 65°    | 195.1 | 204.7 | 214.3 | 223.9 | 233.4 | 243.9 | 255.5 | 267.0 | 278.5 | 290.1 | 298.1 |
| 67.5°  | 169.4 | 179.4 | 189.5 | 199.5 | 209.5 | 220.3 | 232.1 | 243.9 | 255.7 | 267.5 | 275.6 |
| 70°    | 151.2 | 161.4 | 171.5 | 181.7 | 191.8 | 202.9 | 215.1 | 227.1 | 239.3 | 251.4 | 259.8 |
| 72.5°  | 134.3 | 144.7 | 155.2 | 165.7 | 176.2 | 187.5 | 199.8 | 212.1 | 224.4 | 236.6 | 244.9 |
| 75°    | 108.1 | 119.1 | 130.0 | 140.9 | 151.9 | 163.6 | 176.1 | 188.6 | 201.0 | 213.6 | 222.0 |
| 77.5°  | 82.8  | 94.3  | 105.7 | 117.1 | 128.5 | 140.7 | 153.3 | 166.1 | 178.7 | 191.4 | 199.8 |
| 80°    | 66.0  | 77.8  | 89.7  | 101.7 | 113.6 | 125.9 | 138.6 | 151.3 | 163.9 | 176.7 | 184.9 |
| 82.5°  | 51.8  | 63.6  | 75.3  | 87.1  | 98.9  | 111.2 | 124.1 | 136.9 | 149.7 | 162.6 | 170.8 |
| 85°    | 31.7  | 43.7  | 55.9  | 67.9  | 80.1  | 92.4  | 104.9 | 117.4 | 129.9 | 142.4 | 150.6 |
| 87.5°  | 17.3  | 29.1  | 40.9  | 52.7  | 64.5  | 76.8  | 89.6  | 102.4 | 115.2 | 128.0 | 136.0 |
| 90°    | 9.1   | 21.3  | 33.4  | 45.5  | 57.7  | 70.7  | 84.7  | 98.7  | 112.7 | 126.7 | 134.3 |
| 92.5°  | 13.5  | 24.6  | 35.8  | 46.9  | 58.0  | 69.8  | 82.2  | 94.6  | 107.0 | 119.3 | 127.1 |
| 95°    | 22.8  | 32.7  | 42.5  | 52.4  | 62.3  | 73.1  | 85.0  | 96.9  | 108.7 | 120.5 | 127.9 |
| 97.5°  | 35.0  | 43.8  | 52.6  | 61.3  | 70.1  | 80.2  | 91.7  | 103.2 | 114.8 | 126.2 | 133.5 |
| 100°   | 44.8  | 52.5  | 60.4  | 68.1  | 75.9  | 85.3  | 96.4  | 107.6 | 118.7 | 129.8 | 137.1 |
| 102.5° | 54.3  | 61.3  | 68.4  | 75.4  | 82.5  | 91.4  | 102.3 | 113.1 | 124.1 | 134.9 | 142.1 |
| 105°   | 69.8  | 75.7  | 81.5  | 87.4  | 93.2  | 101.3 | 111.7 | 121.9 | 132.2 | 142.5 | 149.5 |
| 107.5° | 86.3  | 91.1  | 95.9  | 100.7 | 105.6 | 112.9 | 122.6 | 132.3 | 142.1 | 151.8 | 158.4 |
| 110°   | 96.3  | 100.6 | 105.0 | 109.3 | 113.6 | 120.5 | 130.1 | 139.7 | 149.2 | 158.8 | 165.1 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 108.0 | 111.7 | 115.4 | 119.1 | 122.7 | 129.1 | 138.1 | 147.1 | 156.3 | 165.3 | 171.3 |
| 115°   | 125.2 | 127.8 | 130.3 | 132.9 | 135.4 | 141.0 | 149.6 | 158.3 | 166.9 | 175.6 | 181.4 |
| 117.5° | 141.5 | 143.4 | 145.3 | 147.3 | 149.3 | 154.1 | 161.9 | 169.6 | 177.4 | 185.1 | 190.7 |
| 120°   | 152.9 | 154.2 | 155.6 | 156.9 | 158.2 | 162.5 | 169.8 | 177.0 | 184.3 | 191.6 | 197.1 |
| 122.5° | 163.3 | 164.4 | 165.3 | 166.3 | 167.2 | 171.2 | 178.1 | 185.1 | 192.1 | 199.1 | 204.2 |
| 125°   | 178.8 | 179.4 | 180.0 | 180.6 | 181.2 | 184.6 | 190.6 | 196.7 | 202.7 | 208.7 | 213.8 |
| 127.5° | 194.7 | 195.3 | 195.8 | 196.4 | 197.0 | 199.7 | 204.5 | 209.2 | 214.0 | 218.9 | 223.4 |
| 130°   | 204.7 | 205.3 | 206.0 | 206.7 | 207.4 | 209.7 | 213.7 | 217.7 | 221.6 | 225.6 | 230.1 |
| 132.5° | 215.9 | 216.4 | 216.9 | 217.4 | 217.9 | 219.8 | 223.0 | 226.2 | 229.4 | 232.6 | 236.8 |
| 135°   | 230.0 | 230.7 | 231.4 | 232.1 | 232.9 | 234.4 | 236.4 | 238.5 | 240.6 | 242.7 | 246.7 |
| 137.5° | 245.7 | 246.2 | 246.8 | 247.4 | 248.0 | 248.7 | 249.8 | 250.8 | 251.8 | 252.9 | 256.5 |
| 140°   | 255.2 | 255.6 | 256.0 | 256.4 | 256.8 | 257.4 | 258.1 | 258.9 | 259.6 | 260.3 | 263.5 |
| 142.5° | 264.9 | 265.4 | 265.7 | 266.1 | 266.6 | 266.9 | 267.3 | 267.5 | 267.9 | 268.2 | 270.7 |
| 145°   | 278.0 | 278.5 | 279.0 | 279.5 | 279.9 | 280.3 | 280.8 | 281.2 | 281.5 | 282.0 | 283.2 |
| 147.5° | 290.5 | 291.1 | 291.6 | 292.2 | 292.7 | 293.2 | 293.4 | 293.8 | 294.0 | 294.3 | 294.5 |
| 150°   | 299.0 | 299.5 | 299.8 | 300.2 | 300.7 | 301.0 | 301.3 | 301.5 | 301.8 | 302.0 | 302.3 |
| 152.5° | 306.6 | 306.9 | 307.4 | 307.8 | 308.2 | 308.6 | 308.8 | 309.2 | 309.5 | 309.9 | 310.1 |
| 155°   | 317.9 | 318.1 | 318.3 | 318.5 | 318.7 | 318.9 | 319.1 | 319.3 | 319.5 | 319.7 | 320.0 |
| 157.5° | 327.5 | 327.7 | 327.8 | 328.0 | 328.1 | 328.2 | 328.4 | 328.5 | 328.6 | 328.7 | 329.2 |
| 160°   | 333.4 | 333.6 | 333.6 | 333.8 | 333.9 | 334.1 | 334.1 | 334.2 | 334.2 | 334.3 | 334.7 |
| 162.5° | 338.7 | 338.8 | 338.8 | 338.8 | 338.9 | 338.9 | 339.0 | 339.1 | 339.1 | 339.1 | 339.7 |
| 165°   | 345.9 | 345.8 | 345.7 | 345.7 | 345.6 | 345.5 | 345.5 | 345.5 | 345.5 | 345.5 | 346.0 |
| 167.5° | 351.8 | 351.6 | 351.5 | 351.2 | 351.0 | 350.9 | 350.9 | 350.9 | 350.9 | 350.9 | 351.3 |
| 170°   | 355.0 | 354.8 | 354.6 | 354.4 | 354.2 | 354.0 | 354.0 | 353.9 | 353.9 | 353.8 | 354.2 |
| 172.5° | 357.1 | 357.0 | 356.8 | 356.5 | 356.4 | 356.2 | 356.2 | 356.1 | 356.0 | 355.9 | 356.5 |
| 175°   | 359.9 | 359.6 | 359.5 | 359.2 | 359.0 | 358.9 | 358.8 | 358.6 | 358.4 | 358.3 | 358.8 |
| 177.5° | 360.9 | 360.8 | 360.6 | 360.5 | 360.3 | 360.2 | 360.1 | 360.0 | 359.8 | 359.7 | 360.1 |
| 180°   | 360.5 | 360.5 | 360.5 | 360.5 | 360.5 | 360.5 | 360.5 | 360.5 | 360.5 | 360.5 | 360.5 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 606.5 | 606.5 | 606.5 | 606.5 | 606.5 | 606.5 | 606.5 | 606.5 |
| 2.5°   | 604.5 | 605.3 | 606.1 | 606.3 | 606.0 | 605.7 | 605.4 | 605.1 |
| 5°     | 602.7 | 603.8 | 605.0 | 605.5 | 605.3 | 605.1 | 604.9 | 604.7 |
| 7.5°   | 599.8 | 601.2 | 602.6 | 603.2 | 603.0 | 602.8 | 602.6 | 602.4 |
| 10°    | 597.3 | 598.8 | 600.5 | 601.1 | 600.9 | 600.7 | 600.5 | 600.3 |
| 12.5°  | 593.1 | 594.6 | 596.2 | 596.8 | 596.7 | 596.5 | 596.3 | 596.1 |
| 15°    | 585.4 | 587.1 | 588.9 | 589.7 | 589.5 | 589.3 | 589.1 | 588.9 |
| 17.5°  | 575.5 | 577.4 | 579.2 | 580.1 | 580.1 | 580.1 | 580.1 | 580.1 |
| 20°    | 567.7 | 569.9 | 572.0 | 573.1 | 573.1 | 573.1 | 573.1 | 573.1 |
| 22.5°  | 559.3 | 561.5 | 563.5 | 564.8 | 565.1 | 565.4 | 565.8 | 566.0 |
| 25°    | 546.1 | 548.5 | 550.8 | 552.2 | 552.8 | 553.5 | 554.1 | 554.7 |
| 27.5°  | 531.6 | 534.5 | 537.5 | 539.2 | 539.6 | 540.0 | 540.4 | 540.9 |
| 30°    | 521.3 | 524.4 | 527.5 | 529.4 | 530.0 | 530.6 | 531.2 | 531.8 |
| 32.5°  | 510.3 | 513.9 | 517.5 | 519.8 | 520.9 | 521.9 | 523.0 | 524.0 |
| 35°    | 494.6 | 498.9 | 503.3 | 506.1 | 507.5 | 508.9 | 510.1 | 511.5 |
| 37.5°  | 478.5 | 483.3 | 488.1 | 491.2 | 492.7 | 494.0 | 495.5 | 497.0 |
| 40°    | 467.2 | 472.3 | 477.3 | 480.8 | 482.5 | 484.3 | 486.0 | 487.8 |
| 42.5°  | 456.2 | 461.8 | 467.3 | 471.0 | 472.7 | 474.5 | 476.2 | 477.9 |
| 45°    | 439.3 | 445.3 | 451.4 | 455.4 | 457.4 | 459.3 | 461.2 | 463.2 |
| 47.5°  | 421.7 | 428.1 | 434.4 | 438.6 | 440.7 | 442.9 | 445.1 | 447.2 |
| 50°    | 409.7 | 416.3 | 423.0 | 427.4 | 429.6 | 431.7 | 433.8 | 435.9 |
| 52.5°  | 396.7 | 403.5 | 410.3 | 414.8 | 417.1 | 419.4 | 421.7 | 424.0 |
| 55°    | 377.0 | 384.1 | 391.2 | 395.9 | 398.5 | 401.0 | 403.6 | 406.0 |
| 57.5°  | 356.4 | 363.9 | 371.5 | 376.6 | 379.2 | 381.8 | 384.4 | 386.9 |
| 60°    | 342.7 | 350.1 | 357.6 | 362.7 | 365.3 | 368.1 | 370.8 | 373.6 |
| 62.5°  | 328.1 | 336.0 | 344.0 | 349.2 | 351.7 | 354.3 | 356.9 | 359.5 |
| 65°    | 306.1 | 314.1 | 322.1 | 327.4 | 329.9 | 332.4 | 335.0 | 337.5 |
| 67.5°  | 283.7 | 291.8 | 299.9 | 305.3 | 307.9 | 310.6 | 313.2 | 315.9 |
| 70°    | 268.2 | 276.6 | 285.0 | 290.3 | 292.7 | 295.1 | 297.4 | 299.7 |
| 72.5°  | 253.1 | 261.3 | 269.6 | 275.1 | 277.9 | 280.8 | 283.5 | 286.4 |
| 75°    | 230.4 | 238.8 | 247.2 | 252.6 | 255.2 | 257.7 | 260.3 | 262.8 |
| 77.5°  | 208.2 | 216.5 | 224.9 | 230.4 | 233.2 | 235.9 | 238.6 | 241.3 |
| 80°    | 193.0 | 201.3 | 209.5 | 215.0 | 217.7 | 220.4 | 223.2 | 225.9 |
| 82.5°  | 179.0 | 187.2 | 195.4 | 200.8 | 203.4 | 206.0 | 208.5 | 211.1 |
| 85°    | 158.8 | 167.0 | 175.2 | 180.6 | 183.4 | 186.1 | 188.9 | 191.6 |
| 87.5°  | 143.9 | 151.8 | 159.8 | 165.0 | 167.5 | 170.0 | 172.5 | 175.0 |
| 90°    | 142.1 | 149.7 | 157.4 | 162.4 | 164.8 | 167.2 | 169.6 | 172.0 |
| 92.5°  | 134.7 | 142.4 | 150.1 | 155.2 | 157.5 | 159.8 | 162.2 | 164.5 |
| 95°    | 135.4 | 142.8 | 150.2 | 155.1 | 157.2 | 159.5 | 161.7 | 163.8 |
| 97.5°  | 140.7 | 147.9 | 155.2 | 159.9 | 162.2 | 164.5 | 166.8 | 169.1 |
| 100°   | 144.3 | 151.5 | 158.8 | 163.4 | 165.5 | 167.6 | 169.7 | 171.8 |
| 102.5° | 149.2 | 156.3 | 163.4 | 168.1 | 170.1 | 172.2 | 174.3 | 176.3 |
| 105°   | 156.4 | 163.4 | 170.4 | 175.0 | 177.1 | 179.3 | 181.4 | 183.6 |
| 107.5° | 165.1 | 171.7 | 178.2 | 182.4 | 184.3 | 186.1 | 188.0 | 189.9 |
| 110°   | 171.3 | 177.5 | 183.7 | 187.9 | 189.9 | 191.7 | 193.7 | 195.6 |





TEST NUMBER: P331334-935

CATALOG NUMBER: SA2XXDIP-C675D330U935-4F0-1E-UDD-D1

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 177.5 | 183.6 | 189.6 | 193.6 | 195.7 | 197.7 | 199.7 | 201.6 |
| 115°   | 187.2 | 193.0 | 198.8 | 202.7 | 204.6 | 206.6 | 208.5 | 210.4 |
| 117.5° | 196.3 | 202.0 | 207.6 | 211.3 | 213.1 | 214.8 | 216.6 | 218.4 |
| 120°   | 202.5 | 208.0 | 213.4 | 217.1 | 219.1 | 221.0 | 223.0 | 225.0 |
| 122.5° | 209.3 | 214.5 | 219.6 | 223.1 | 224.7 | 226.4 | 228.2 | 229.8 |
| 125°   | 218.9 | 223.9 | 229.0 | 232.4 | 234.1 | 235.8 | 237.5 | 239.2 |
| 127.5° | 228.1 | 232.6 | 237.3 | 240.3 | 241.8 | 243.3 | 244.8 | 246.3 |
| 130°   | 234.7 | 239.3 | 243.7 | 246.7 | 248.0 | 249.3 | 250.6 | 251.8 |
| 132.5° | 241.0 | 245.3 | 249.5 | 252.3 | 253.7 | 254.9 | 256.3 | 257.7 |
| 135°   | 250.7 | 254.8 | 258.8 | 261.5 | 262.9 | 264.2 | 265.6 | 266.9 |
| 137.5° | 260.0 | 263.6 | 267.1 | 269.4 | 270.4 | 271.5 | 272.5 | 273.6 |
| 140°   | 266.6 | 269.7 | 272.9 | 274.8 | 275.8 | 276.6 | 277.5 | 278.4 |
| 142.5° | 273.3 | 275.9 | 278.4 | 280.0 | 280.8 | 281.5 | 282.2 | 283.0 |
| 145°   | 284.5 | 285.7 | 287.0 | 287.9 | 288.6 | 289.3 | 290.1 | 290.8 |
| 147.5° | 294.9 | 295.2 | 295.5 | 295.8 | 295.9 | 296.2 | 296.4 | 296.6 |
| 150°   | 302.5 | 302.6 | 302.9 | 302.9 | 302.6 | 302.5 | 302.3 | 302.0 |
| 152.5° | 310.4 | 310.6 | 310.9 | 310.9 | 310.6 | 310.4 | 310.1 | 309.9 |
| 155°   | 320.4 | 320.7 | 321.1 | 321.2 | 320.9 | 320.7 | 320.6 | 320.3 |
| 157.5° | 329.6 | 330.1 | 330.5 | 330.6 | 330.3 | 329.9 | 329.7 | 329.3 |
| 160°   | 335.1 | 335.5 | 336.0 | 336.0 | 335.7 | 335.4 | 335.2 | 334.9 |
| 162.5° | 340.1 | 340.5 | 341.0 | 341.0 | 340.8 | 340.4 | 340.1 | 339.8 |
| 165°   | 346.5 | 347.0 | 347.4 | 347.5 | 347.2 | 346.8 | 346.5 | 346.2 |
| 167.5° | 351.8 | 352.2 | 352.8 | 352.8 | 352.5 | 352.1 | 351.7 | 351.4 |
| 170°   | 354.7 | 355.2 | 355.7 | 355.7 | 355.3 | 354.9 | 354.5 | 354.0 |
| 172.5° | 356.9 | 357.4 | 357.8 | 357.9 | 357.5 | 357.1 | 356.7 | 356.3 |
| 175°   | 359.3 | 359.7 | 360.2 | 360.2 | 359.9 | 359.5 | 359.0 | 358.6 |
| 177.5° | 360.4 | 360.7 | 361.0 | 361.0 | 360.7 | 360.4 | 360.1 | 359.7 |
| 180°   | 360.5 | 360.5 | 360.5 | 360.5 | 360.5 | 360.5 | 360.5 | 360.5 |

(END OF REPORT)