

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: P331308-935

Luminaire Tested: **SA2XXDIP-C485D725U935-4F0-1E-UDD-D4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331308-935  
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: SA2XXDIP-C485D725U935-4F0-1E-UDD-D4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 485 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 725 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4131.3 lumens  
Efficiency: N/A  
Efficacy: 107.6 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-Indirect

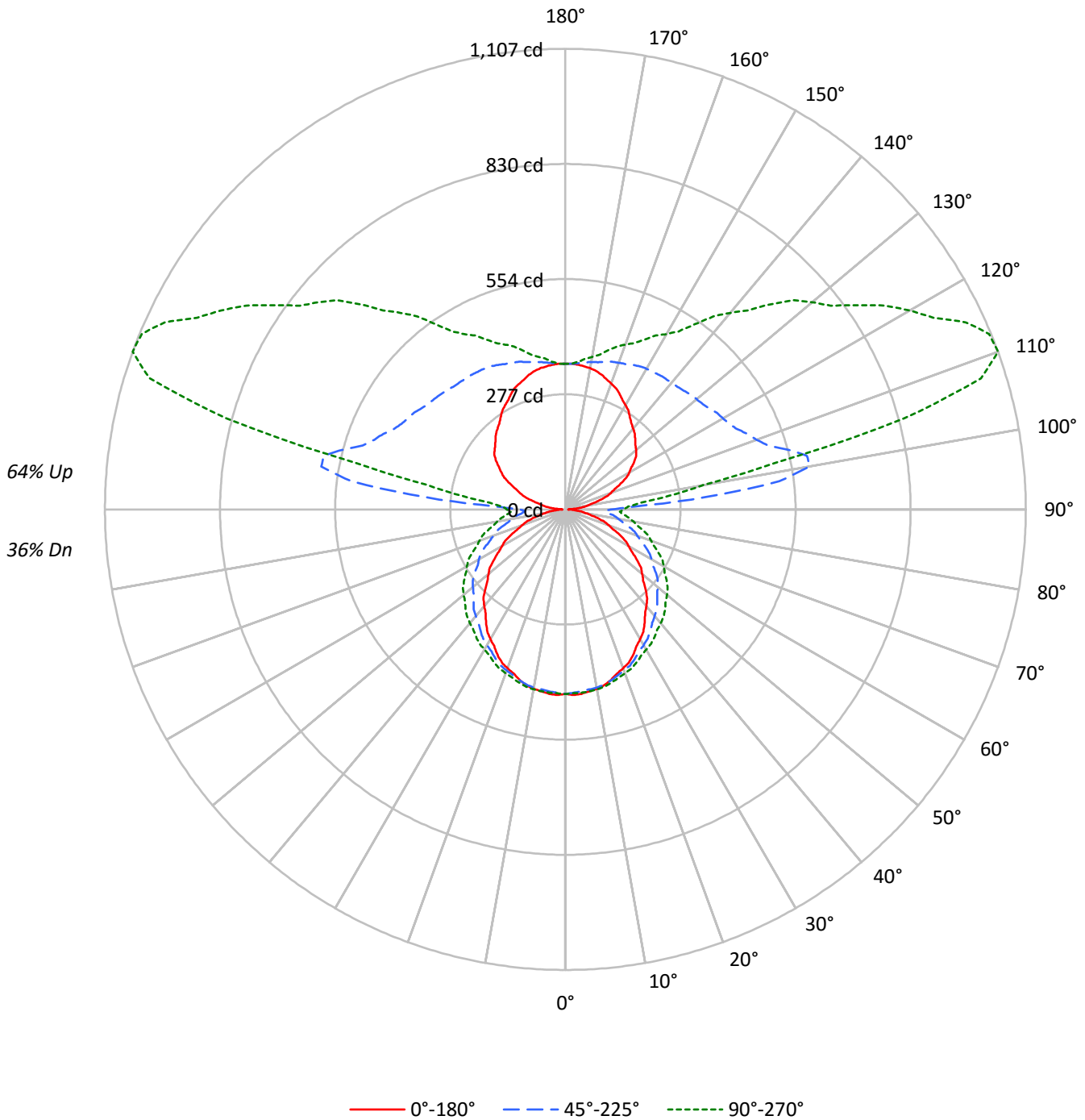
Input Watts (W): 38.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331308-935

CATALOG NUMBER: SA2XXDIP-C485D725U935-4F0-1E-UDD-D4

### Luminous Intensity Polar Plot





TEST NUMBER: P331308-935

CATALOG NUMBER: SA2XXDIP-C485D725U935-4F0-1E-UDD-D4

**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   | 104 | 104 | 104 | 104 | 94 | 94 | 94 | 94 | 76 | 76 | 76 | 59 | 59 | 59 | 44 | 44 | 44 | 36 |
| 1   | 94  | 89  | 85  | 81  | 84 | 80 | 77 | 74 | 65 | 62 | 60 | 50 | 48 | 47 | 37 | 36 | 35 | 28 |
| 2   | 85  | 77  | 71  | 65  | 76 | 70 | 64 | 59 | 56 | 52 | 49 | 43 | 41 | 38 | 32 | 30 | 28 | 23 |
| 3   | 77  | 67  | 60  | 54  | 69 | 61 | 54 | 49 | 49 | 44 | 40 | 38 | 35 | 32 | 28 | 26 | 24 | 19 |
| 4   | 70  | 59  | 51  | 45  | 63 | 54 | 47 | 41 | 43 | 38 | 34 | 34 | 30 | 27 | 25 | 22 | 20 | 16 |
| 5   | 64  | 53  | 44  | 38  | 58 | 48 | 40 | 35 | 39 | 33 | 29 | 30 | 26 | 23 | 22 | 19 | 17 | 14 |
| 6   | 59  | 47  | 39  | 33  | 53 | 43 | 35 | 30 | 35 | 29 | 25 | 27 | 23 | 20 | 20 | 17 | 15 | 12 |
| 7   | 55  | 42  | 34  | 29  | 49 | 38 | 31 | 26 | 31 | 26 | 22 | 24 | 20 | 18 | 18 | 15 | 13 | 10 |
| 8   | 50  | 38  | 30  | 25  | 45 | 35 | 28 | 23 | 28 | 23 | 19 | 22 | 18 | 15 | 17 | 14 | 12 | 9  |
| 9   | 47  | 35  | 27  | 22  | 42 | 32 | 25 | 20 | 26 | 21 | 17 | 20 | 17 | 14 | 15 | 13 | 11 | 8  |
| 10  | 44  | 32  | 24  | 20  | 39 | 29 | 23 | 18 | 24 | 19 | 15 | 19 | 15 | 12 | 14 | 11 | 10 | 7  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7164 | 7164 | 7164 |
| 5°  | 7199 | 6896 | 6870 |
| 10° | 7153 | 6692 | 6617 |
| 15° | 7055 | 6477 | 6350 |
| 20° | 6930 | 6245 | 6094 |
| 25° | 6807 | 6022 | 5862 |
| 30° | 6634 | 5793 | 5628 |
| 35° | 6458 | 5572 | 5464 |
| 40° | 6275 | 5384 | 5299 |
| 45° | 6100 | 5215 | 5159 |
| 50° | 5912 | 5062 | 5019 |
| 55° | 5713 | 4898 | 4878 |
| 60° | 5473 | 4730 | 4729 |
| 65° | 5222 | 4530 | 4552 |
| 70° | 4938 | 4315 | 4361 |
| 75° | 4578 | 4106 | 4186 |
| 80° | 4008 | 3889 | 4005 |
| 85° | 3471 | 3705 | 3868 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 42.0   | 1.0       |
| 10°-20°   | 120.6  | 2.9       |
| 20°-30°   | 182.7  | 4.4       |
| 30°-40°   | 222.5  | 5.4       |
| 40°-50°   | 239.4  | 5.8       |
| 50°-60°   | 232.5  | 5.6       |
| 60°-70°   | 203.0  | 4.9       |
| 70°-80°   | 156.3  | 3.8       |
| 80°-90°   | 108.0  | 2.6       |
| 90°-100°  | 212.2  | 5.1       |
| 100°-110° | 527.6  | 12.8      |
| 110°-120° | 539.3  | 13.1      |
| 120°-130° | 434.7  | 10.5      |
| 130°-140° | 341.7  | 8.3       |
| 140°-150° | 253.4  | 6.1       |
| 150°-160° | 177.1  | 4.3       |
| 160°-170° | 104.3  | 2.5       |
| 170°-180° | 33.9   | 0.8       |
| 0°-30°    | 345.3  | 8.4       |
| 0°-40°    | 567.8  | 13.7      |
| 0°-60°    | 1039.7 | 25.2      |
| 0°-90°    | 1507.0 | 36.5      |
| 90°-120°  | 1279.2 | 31.0      |
| 90°-150°  | 2309.0 | 55.9      |
| 90°-180°  | 2624.0 | 63.5      |
| 0°-180°   | 4131.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90°  | Flux |
|------|-----|-------|-----|-------|------|------|
| 0°   | 444 | 444   | 444 | 444   | 444  |      |
| 5°   | 445 | 443   | 439 | 443   | 442  | 42   |
| 15°  | 424 | 426   | 426 | 431   | 431  | 119  |
| 25°  | 386 | 390   | 396 | 404   | 406  | 177  |
| 35°  | 332 | 343   | 356 | 369   | 374  | 208  |
| 45°  | 273 | 290   | 312 | 332   | 339  | 210  |
| 55°  | 209 | 233   | 266 | 288   | 297  | 187  |
| 65°  | 143 | 175   | 212 | 238   | 247  | 142  |
| 75°  | 79  | 115   | 156 | 183   | 192  | 84   |
| 85°  | 23  | 63    | 104 | 130   | 140  | 25   |
| 90°  | 7   | 53    | 108 | 131   | 140  | 6    |
| 95°  | 29  | 94    | 338 | 197   | 183  | 29   |
| 105° | 85  | 147   | 554 | 968   | 843  | 91   |
| 115° | 147 | 194   | 456 | 918   | 1063 | 146  |
| 125° | 203 | 241   | 423 | 736   | 855  | 181  |
| 135° | 238 | 284   | 404 | 606   | 697  | 184  |
| 145° | 270 | 311   | 394 | 493   | 543  | 170  |
| 155° | 308 | 332   | 383 | 433   | 450  | 141  |
| 165° | 335 | 345   | 367 | 389   | 395  | 94   |
| 175° | 349 | 350   | 353 | 357   | 356  | 33   |
| 180° | 350 | 350   | 350 | 350   | 350  |      |



TEST NUMBER: P331308-935

CATALOG NUMBER: SA2XXDIP-C485D725U935-4F0-1E-UDD-D4

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 443.7 | 443.7 | 443.7 | 443.7 | 443.7 | 443.7 | 443.7 | 443.7 | 443.7 | 443.7 | 443.7 |
| 2.5°   | 446.3 | 445.9 | 445.6 | 445.2 | 444.9 | 444.3 | 443.5 | 442.7 | 442.0 | 441.1 | 441.7 |
| 5°     | 445.0 | 444.5 | 444.1 | 443.7 | 443.2 | 442.6 | 441.8 | 440.9 | 440.1 | 439.2 | 440.1 |
| 7.5°   | 441.0 | 440.7 | 440.4 | 440.1 | 439.9 | 439.4 | 438.7 | 438.1 | 437.4 | 436.7 | 437.7 |
| 10°    | 437.9 | 437.6 | 437.3 | 437.0 | 436.8 | 436.4 | 436.0 | 435.6 | 435.1 | 434.7 | 435.8 |
| 12.5°  | 432.7 | 432.8 | 432.9 | 432.9 | 433.0 | 432.8 | 432.6 | 432.2 | 431.9 | 431.6 | 432.7 |
| 15°    | 424.4 | 424.6 | 425.0 | 425.2 | 425.5 | 425.7 | 425.7 | 425.7 | 425.7 | 425.7 | 427.0 |
| 17.5°  | 413.6 | 414.2 | 414.8 | 415.4 | 416.0 | 416.6 | 417.0 | 417.4 | 417.9 | 418.4 | 419.7 |
| 20°    | 406.4 | 407.1 | 407.9 | 408.5 | 409.2 | 409.9 | 410.4 | 411.0 | 411.6 | 412.2 | 413.7 |
| 22.5°  | 398.6 | 399.5 | 400.4 | 401.1 | 402.0 | 402.8 | 403.6 | 404.4 | 405.2 | 406.0 | 407.6 |
| 25°    | 385.8 | 386.8 | 387.8 | 388.8 | 389.8 | 391.0 | 392.3 | 393.6 | 394.9 | 396.1 | 397.8 |
| 27.5°  | 370.4 | 372.0 | 373.7 | 375.3 | 376.9 | 378.5 | 380.0 | 381.5 | 383.0 | 384.5 | 386.7 |
| 30°    | 360.1 | 362.0 | 363.8 | 365.7 | 367.6 | 369.4 | 371.3 | 373.1 | 375.0 | 376.8 | 379.1 |
| 32.5°  | 348.8 | 350.9 | 352.9 | 355.1 | 357.1 | 359.3 | 361.4 | 363.7 | 365.8 | 368.1 | 370.7 |
| 35°    | 332.4 | 334.8 | 337.3 | 339.8 | 342.2 | 344.7 | 347.4 | 350.2 | 352.8 | 355.6 | 358.7 |
| 37.5°  | 314.7 | 317.5 | 320.3 | 323.1 | 325.9 | 329.1 | 332.6 | 336.0 | 339.6 | 343.1 | 346.6 |
| 40°    | 302.9 | 306.0 | 309.2 | 312.3 | 315.5 | 318.9 | 322.8 | 326.7 | 330.5 | 334.4 | 338.1 |
| 42.5°  | 291.5 | 294.7 | 297.8 | 301.0 | 304.1 | 307.9 | 312.4 | 316.8 | 321.2 | 325.6 | 329.7 |
| 45°    | 272.7 | 276.5 | 280.3 | 284.2 | 288.1 | 292.5 | 297.5 | 302.5 | 307.5 | 312.5 | 316.9 |
| 47.5°  | 254.0 | 258.2 | 262.4 | 266.6 | 270.8 | 275.9 | 281.7 | 287.6 | 293.4 | 299.3 | 303.9 |
| 50°    | 241.2 | 245.6 | 250.0 | 254.4 | 258.8 | 264.2 | 270.7 | 277.2 | 283.6 | 290.0 | 294.9 |
| 52.5°  | 228.8 | 233.4 | 238.1 | 242.8 | 247.5 | 253.1 | 259.9 | 266.7 | 273.5 | 280.3 | 285.2 |
| 55°    | 209.0 | 214.1 | 219.3 | 224.4 | 229.5 | 235.8 | 243.3 | 250.7 | 258.1 | 265.5 | 270.7 |
| 57.5°  | 189.4 | 195.3 | 201.0 | 206.8 | 212.7 | 219.3 | 226.9 | 234.5 | 242.0 | 249.6 | 255.2 |
| 60°    | 175.6 | 181.7 | 187.9 | 194.0 | 200.1 | 207.2 | 215.4 | 223.5 | 231.7 | 239.9 | 245.3 |
| 62.5°  | 163.2 | 169.5 | 176.0 | 182.4 | 188.7 | 196.0 | 204.1 | 212.2 | 220.4 | 228.5 | 234.3 |
| 65°    | 142.8 | 149.7 | 156.8 | 163.8 | 170.7 | 178.5 | 186.9 | 195.4 | 203.8 | 212.2 | 218.1 |
| 67.5°  | 124.0 | 131.3 | 138.6 | 145.9 | 153.3 | 161.2 | 169.9 | 178.5 | 187.1 | 195.7 | 201.6 |
| 70°    | 110.6 | 118.0 | 125.4 | 132.9 | 140.3 | 148.4 | 157.3 | 166.2 | 175.0 | 183.9 | 190.0 |
| 72.5°  | 98.2  | 105.9 | 113.6 | 121.2 | 128.9 | 137.2 | 146.2 | 155.2 | 164.1 | 173.1 | 179.2 |
| 75°    | 79.1  | 87.1  | 95.1  | 103.1 | 111.1 | 119.7 | 128.8 | 137.9 | 147.1 | 156.3 | 162.4 |
| 77.5°  | 60.6  | 69.0  | 77.3  | 85.7  | 94.1  | 102.9 | 112.2 | 121.5 | 130.8 | 140.1 | 146.2 |
| 80°    | 48.2  | 56.9  | 65.7  | 74.4  | 83.1  | 92.1  | 101.4 | 110.6 | 119.9 | 129.2 | 135.3 |
| 82.5°  | 38.0  | 46.6  | 55.1  | 63.7  | 72.3  | 81.4  | 90.7  | 100.1 | 109.5 | 119.0 | 124.9 |
| 85°    | 23.2  | 32.0  | 40.9  | 49.8  | 58.5  | 67.6  | 76.7  | 85.8  | 95.1  | 104.2 | 110.2 |
| 87.5°  | 12.7  | 21.7  | 30.7  | 39.5  | 48.3  | 57.5  | 67.3  | 77.4  | 87.4  | 96.7  | 102.4 |
| 90°    | 7.1   | 17.4  | 28.4  | 38.1  | 47.7  | 58.4  | 70.9  | 84.7  | 98.0  | 107.8 | 112.8 |
| 92.5°  | 14.1  | 25.5  | 38.1  | 48.7  | 61.0  | 75.6  | 99.6  | 129.8 | 157.7 | 167.7 | 159.7 |
| 95°    | 28.7  | 38.1  | 51.6  | 64.3  | 81.8  | 105.6 | 145.2 | 212.2 | 298.9 | 337.8 | 310.2 |
| 97.5°  | 42.9  | 52.4  | 65.6  | 80.7  | 99.1  | 124.5 | 171.6 | 261.4 | 399.4 | 518.8 | 546.2 |
| 100°   | 56.3  | 63.6  | 75.0  | 91.0  | 109.8 | 135.3 | 178.9 | 269.1 | 422.4 | 596.0 | 698.2 |
| 102.5° | 68.2  | 74.5  | 85.4  | 101.0 | 119.9 | 145.0 | 185.7 | 266.5 | 408.8 | 595.1 | 752.7 |
| 105°   | 85.3  | 92.1  | 101.0 | 115.3 | 134.2 | 158.9 | 197.9 | 265.3 | 383.7 | 554.1 | 738.0 |
| 107.5° | 104.6 | 110.0 | 118.0 | 130.5 | 148.5 | 172.7 | 210.5 | 269.8 | 368.8 | 510.5 | 673.5 |
| 110°   | 117.0 | 122.5 | 129.4 | 141.0 | 158.0 | 182.4 | 219.1 | 274.6 | 363.7 | 489.1 | 633.0 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 128.8 | 133.9 | 140.9 | 151.5 | 167.6 | 192.1 | 227.3 | 279.7 | 360.9 | 473.7 | 603.6 |
| 115°   | 147.3 | 152.2 | 157.8 | 167.5 | 182.5 | 204.7 | 240.0 | 287.6 | 359.2 | 455.9 | 566.5 |
| 117.5° | 165.7 | 169.4 | 174.5 | 182.7 | 196.7 | 219.0 | 251.8 | 296.2 | 359.3 | 444.3 | 541.0 |
| 120°   | 177.6 | 180.9 | 185.5 | 192.1 | 206.1 | 228.1 | 260.1 | 302.1 | 359.6 | 437.4 | 526.9 |
| 122.5° | 188.9 | 191.3 | 195.5 | 202.3 | 216.0 | 238.2 | 268.3 | 307.3 | 360.7 | 432.1 | 514.5 |
| 125°   | 203.2 | 205.2 | 209.2 | 217.3 | 230.8 | 251.9 | 280.7 | 315.6 | 361.9 | 423.0 | 496.2 |
| 127.5° | 215.1 | 217.6 | 223.1 | 231.9 | 244.6 | 265.8 | 293.0 | 323.9 | 363.9 | 416.1 | 479.1 |
| 130°   | 222.1 | 224.6 | 231.2 | 240.5 | 253.7 | 274.1 | 300.6 | 329.2 | 365.8 | 411.9 | 467.9 |
| 132.5° | 228.5 | 231.6 | 238.8 | 248.6 | 262.4 | 282.3 | 307.1 | 334.5 | 367.7 | 408.3 | 458.1 |
| 135°   | 237.5 | 240.2 | 248.3 | 258.4 | 273.9 | 293.4 | 316.4 | 341.4 | 369.8 | 403.5 | 444.9 |
| 137.5° | 246.7 | 249.9 | 258.0 | 268.7 | 284.0 | 301.8 | 323.7 | 346.3 | 371.4 | 399.6 | 434.5 |
| 140°   | 253.7 | 256.2 | 264.2 | 274.8 | 289.5 | 307.0 | 327.5 | 348.7 | 371.9 | 397.0 | 428.3 |
| 142.5° | 260.7 | 262.7 | 270.1 | 280.8 | 294.9 | 311.3 | 331.0 | 351.4 | 372.6 | 396.0 | 423.0 |
| 145°   | 270.5 | 273.3 | 280.0 | 290.1 | 303.5 | 318.3 | 336.6 | 355.3 | 374.2 | 394.4 | 416.8 |
| 147.5° | 281.9 | 283.9 | 290.3 | 299.6 | 310.8 | 324.0 | 341.1 | 357.7 | 374.8 | 392.0 | 411.0 |
| 150°   | 289.4 | 291.4 | 296.8 | 305.6 | 315.6 | 327.8 | 343.3 | 358.7 | 374.2 | 390.4 | 406.5 |
| 152.5° | 297.0 | 297.9 | 303.2 | 310.9 | 320.5 | 331.6 | 345.4 | 359.3 | 373.2 | 387.7 | 402.8 |
| 155°   | 307.5 | 308.2 | 312.3 | 319.7 | 327.1 | 337.2 | 348.6 | 360.1 | 371.5 | 383.0 | 395.7 |
| 157.5° | 316.5 | 317.1 | 320.4 | 326.8 | 332.8 | 341.2 | 350.9 | 360.1 | 368.4 | 378.2 | 389.2 |
| 160°   | 322.4 | 323.0 | 325.7 | 331.1 | 336.6 | 343.9 | 352.0 | 360.1 | 366.8 | 374.9 | 384.4 |
| 162.5° | 328.3 | 327.9 | 330.6 | 334.9 | 339.8 | 345.5 | 352.6 | 359.6 | 365.2 | 372.2 | 380.0 |
| 165°   | 335.2 | 334.5 | 335.9 | 339.9 | 343.3 | 347.3 | 353.4 | 358.1 | 362.1 | 366.8 | 372.9 |
| 167.5° | 340.9 | 340.0 | 341.2 | 343.8 | 346.2 | 348.8 | 353.2 | 357.1 | 359.0 | 362.1 | 365.8 |
| 170°   | 344.6 | 343.3 | 343.9 | 345.9 | 347.3 | 349.3 | 352.7 | 356.0 | 357.4 | 359.4 | 362.1 |
| 172.5° | 346.7 | 345.9 | 345.5 | 347.6 | 348.4 | 349.8 | 352.1 | 354.4 | 355.2 | 356.2 | 358.3 |
| 175°   | 349.3 | 348.6 | 347.9 | 349.3 | 349.3 | 350.0 | 351.3 | 352.7 | 352.0 | 352.7 | 353.4 |
| 177.5° | 350.5 | 349.5 | 348.9 | 350.0 | 350.0 | 350.0 | 350.5 | 351.6 | 350.5 | 350.0 | 350.5 |
| 180°   | 350.0 | 350.0 | 350.0 | 350.0 | 350.0 | 350.0 | 350.0 | 350.0 | 350.0 | 350.0 | 350.0 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|-------|-------|--------|--------|--------|--------|--------|--------|
| 0°     | 443.7 | 443.7 | 443.7  | 443.7  | 443.7  | 443.7  | 443.7  | 443.7  |
| 2.5°   | 442.3 | 442.8 | 443.4  | 443.6  | 443.3  | 443.2  | 442.9  | 442.6  |
| 5°     | 440.9 | 441.8 | 442.6  | 443.0  | 442.8  | 442.7  | 442.6  | 442.4  |
| 7.5°   | 438.8 | 439.8 | 440.8  | 441.3  | 441.2  | 441.0  | 440.8  | 440.7  |
| 10°    | 437.0 | 438.1 | 439.3  | 439.8  | 439.6  | 439.5  | 439.4  | 439.2  |
| 12.5°  | 433.9 | 435.1 | 436.2  | 436.7  | 436.5  | 436.4  | 436.3  | 436.1  |
| 15°    | 428.3 | 429.6 | 430.8  | 431.4  | 431.3  | 431.1  | 430.9  | 430.8  |
| 17.5°  | 421.0 | 422.4 | 423.7  | 424.4  | 424.4  | 424.4  | 424.4  | 424.4  |
| 20°    | 415.3 | 416.9 | 418.4  | 419.2  | 419.2  | 419.2  | 419.2  | 419.2  |
| 22.5°  | 409.1 | 410.7 | 412.3  | 413.2  | 413.5  | 413.6  | 413.9  | 414.1  |
| 25°    | 399.5 | 401.2 | 402.9  | 404.1  | 404.5  | 404.9  | 405.4  | 405.8  |
| 27.5°  | 388.9 | 391.1 | 393.2  | 394.4  | 394.8  | 395.1  | 395.4  | 395.7  |
| 30°    | 381.4 | 383.7 | 386.0  | 387.3  | 387.7  | 388.1  | 388.6  | 389.0  |
| 32.5°  | 373.3 | 375.9 | 378.6  | 380.3  | 381.1  | 381.9  | 382.6  | 383.4  |
| 35°    | 361.9 | 365.1 | 368.2  | 370.2  | 371.3  | 372.2  | 373.2  | 374.3  |
| 37.5°  | 350.1 | 353.6 | 357.1  | 359.3  | 360.4  | 361.4  | 362.5  | 363.6  |
| 40°    | 341.8 | 345.5 | 349.2  | 351.7  | 353.0  | 354.3  | 355.6  | 356.9  |
| 42.5°  | 333.7 | 337.8 | 341.8  | 344.6  | 345.8  | 347.1  | 348.4  | 349.7  |
| 45°    | 321.4 | 325.8 | 330.2  | 333.1  | 334.6  | 336.0  | 337.4  | 338.9  |
| 47.5°  | 308.5 | 313.1 | 317.8  | 320.9  | 322.4  | 324.0  | 325.6  | 327.2  |
| 50°    | 299.7 | 304.5 | 309.4  | 312.6  | 314.3  | 315.8  | 317.4  | 318.9  |
| 52.5°  | 290.2 | 295.2 | 300.1  | 303.4  | 305.1  | 306.9  | 308.5  | 310.2  |
| 55°    | 275.9 | 281.0 | 286.1  | 289.6  | 291.5  | 293.3  | 295.2  | 297.0  |
| 57.5°  | 260.7 | 266.2 | 271.8  | 275.5  | 277.4  | 279.3  | 281.2  | 283.1  |
| 60°    | 250.7 | 256.1 | 261.6  | 265.3  | 267.3  | 269.3  | 271.3  | 273.3  |
| 62.5°  | 240.0 | 245.8 | 251.6  | 255.5  | 257.4  | 259.2  | 261.1  | 263.0  |
| 65°    | 223.9 | 229.8 | 235.7  | 239.5  | 241.3  | 243.2  | 245.0  | 246.9  |
| 67.5°  | 207.6 | 213.4 | 219.4  | 223.3  | 225.2  | 227.2  | 229.2  | 231.1  |
| 70°    | 196.2 | 202.3 | 208.4  | 212.4  | 214.1  | 215.9  | 217.6  | 219.3  |
| 72.5°  | 185.2 | 191.2 | 197.3  | 201.3  | 203.3  | 205.3  | 207.4  | 209.5  |
| 75°    | 168.6 | 174.7 | 180.8  | 184.9  | 186.7  | 188.6  | 190.4  | 192.3  |
| 77.5°  | 152.3 | 158.4 | 164.5  | 168.6  | 170.6  | 172.5  | 174.6  | 176.6  |
| 80°    | 141.3 | 147.2 | 153.3  | 157.2  | 159.3  | 161.3  | 163.2  | 165.2  |
| 82.5°  | 131.0 | 137.0 | 142.9  | 146.9  | 148.8  | 150.7  | 152.6  | 154.5  |
| 85°    | 116.1 | 122.2 | 128.2  | 132.2  | 134.1  | 136.2  | 138.2  | 140.2  |
| 87.5°  | 108.1 | 113.7 | 119.7  | 123.6  | 125.5  | 127.3  | 129.2  | 131.0  |
| 90°    | 117.9 | 122.2 | 129.3  | 133.6  | 135.3  | 137.1  | 138.8  | 140.5  |
| 92.5°  | 150.2 | 147.4 | 147.3  | 146.8  | 148.0  | 147.6  | 149.8  | 150.4  |
| 95°    | 261.1 | 225.5 | 202.7  | 191.5  | 184.4  | 180.7  | 180.5  | 182.8  |
| 97.5°  | 490.5 | 420.9 | 353.4  | 308.3  | 277.8  | 262.9  | 254.8  | 250.8  |
| 100°   | 689.4 | 611.2 | 524.3  | 446.3  | 392.0  | 364.6  | 346.6  | 336.1  |
| 102.5° | 818.6 | 804.9 | 742.6  | 659.7  | 600.5  | 552.7  | 529.9  | 515.1  |
| 105°   | 883.0 | 964.1 | 977.8  | 958.9  | 918.8  | 878.7  | 851.3  | 843.4  |
| 107.5° | 826.7 | 946.2 | 1020.9 | 1056.7 | 1063.5 | 1062.8 | 1058.6 | 1047.6 |
| 110°   | 779.6 | 904.7 | 995.4  | 1053.6 | 1084.2 | 1098.5 | 1106.1 | 1107.1 |





TEST NUMBER: P331308-935

CATALOG NUMBER: SA2XXDIP-C485D725U935-4F0-1E-UDD-D4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|-------|-------|-------|--------|--------|--------|--------|--------|
| 112.5° | 736.2 | 856.4 | 953.0 | 1019.3 | 1061.2 | 1084.2 | 1097.2 | 1102.3 |
| 115°   | 681.8 | 789.8 | 882.3 | 954.5  | 1003.8 | 1036.4 | 1055.4 | 1063.1 |
| 117.5° | 639.6 | 734.8 | 819.0 | 886.8  | 937.0  | 971.2  | 991.1  | 997.6  |
| 120°   | 617.7 | 705.2 | 780.5 | 844.6  | 893.2  | 926.4  | 947.5  | 955.8  |
| 122.5° | 599.9 | 680.2 | 751.7 | 809.6  | 853.3  | 885.6  | 904.4  | 911.4  |
| 125°   | 573.4 | 646.6 | 709.6 | 762.8  | 803.1  | 829.9  | 848.0  | 854.7  |
| 127.5° | 547.3 | 613.5 | 673.0 | 721.9  | 757.2  | 782.5  | 798.2  | 803.8  |
| 130°   | 530.5 | 591.9 | 648.4 | 695.1  | 729.3  | 753.3  | 767.8  | 774.4  |
| 132.5° | 514.3 | 571.2 | 623.4 | 667.3  | 700.9  | 724.9  | 738.4  | 744.4  |
| 135°   | 491.6 | 539.1 | 586.4 | 626.2  | 656.3  | 679.7  | 692.9  | 696.7  |
| 137.5° | 472.8 | 512.6 | 550.4 | 585.0  | 612.4  | 632.5  | 644.1  | 649.1  |
| 140°   | 460.8 | 495.4 | 528.7 | 559.8  | 582.3  | 600.6  | 611.6  | 616.5  |
| 142.5° | 451.3 | 480.6 | 509.1 | 535.2  | 556.4  | 573.0  | 582.8  | 584.4  |
| 145°   | 438.5 | 461.6 | 483.3 | 503.6  | 520.5  | 532.6  | 540.1  | 542.8  |
| 147.5° | 428.9 | 446.4 | 462.9 | 477.3  | 491.0  | 500.5  | 505.4  | 507.0  |
| 150°   | 422.7 | 437.5 | 451.6 | 463.7  | 473.8  | 481.9  | 485.9  | 486.6  |
| 152.5° | 416.7 | 430.5 | 442.5 | 453.0  | 460.9  | 467.9  | 470.9  | 471.0  |
| 155°   | 408.5 | 419.3 | 429.4 | 436.8  | 444.2  | 448.9  | 451.6  | 450.3  |
| 157.5° | 399.0 | 408.0 | 416.5 | 422.2  | 427.5  | 431.4  | 432.7  | 432.7  |
| 160°   | 393.0 | 400.5 | 407.9 | 412.6  | 417.3  | 420.7  | 421.3  | 421.3  |
| 162.5° | 387.1 | 393.5 | 399.8 | 403.5  | 408.1  | 410.4  | 411.1  | 410.5  |
| 165°   | 378.2 | 383.0 | 387.7 | 390.4  | 393.0  | 395.7  | 395.7  | 395.1  |
| 167.5° | 369.8 | 373.4 | 376.6 | 379.1  | 380.3  | 381.8  | 381.6  | 380.8  |
| 170°   | 365.5 | 367.5 | 370.1 | 371.5  | 372.2  | 374.2  | 373.5  | 372.2  |
| 172.5° | 360.6 | 362.1 | 364.3 | 365.1  | 365.8  | 366.7  | 366.0  | 365.2  |
| 175°   | 355.3 | 356.0 | 356.7 | 357.4  | 357.4  | 358.1  | 357.4  | 356.0  |
| 177.5° | 351.6 | 351.6 | 352.1 | 352.1  | 352.1  | 352.1  | 351.6  | 350.5  |
| 180°   | 350.0 | 350.0 | 350.0 | 350.0  | 350.0  | 350.0  | 350.0  | 350.0  |

(END OF REPORT)