

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

Luminaire Tested: **SA2XXDIP-C485D725U835-4F0-1E-UDD-D4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331308  
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-C485D725U835-4F0-1E-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**

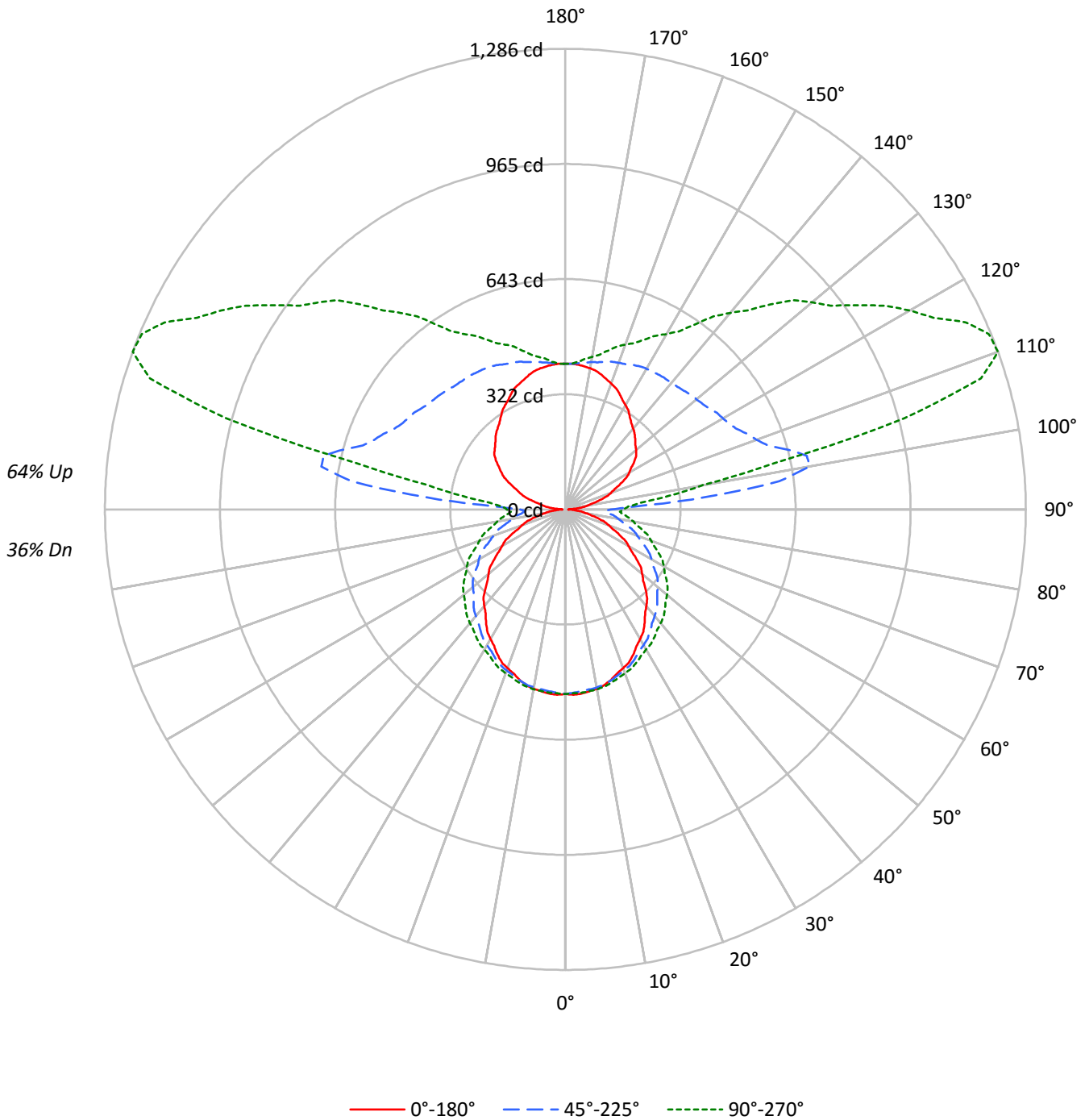
Lumens per Lamp: N/A  
Luminaire Lumens: 4798.2 lumens  
Efficiency: N/A  
Efficacy: 125.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.42  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.08')  
CIE Type: Semi-Indirect

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  
CATALOG NUMBER: SA2XXDIP-C485D725U835-4F0-1E-UDD-D4

### Luminous Intensity Polar Plot





TEST NUMBER: P331308

CATALOG NUMBER: SA2XXDIP-C485D725U835-4F0-1E-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°  | 8320 | 8320 | 8320 |
| 5°  | 8361 | 8009 | 7978 |
| 10° | 8308 | 7773 | 7685 |
| 15° | 8193 | 7522 | 7376 |
| 20° | 8049 | 7253 | 7078 |
| 25° | 7906 | 6994 | 6809 |
| 30° | 7704 | 6728 | 6536 |
| 35° | 7501 | 6472 | 6346 |
| 40° | 7287 | 6254 | 6154 |
| 45° | 7084 | 6058 | 5992 |
| 50° | 6865 | 5879 | 5830 |
| 55° | 6634 | 5689 | 5666 |
| 60° | 6355 | 5493 | 5493 |
| 65° | 6063 | 5262 | 5287 |
| 70° | 5738 | 5012 | 5065 |
| 75° | 5319 | 4768 | 4860 |
| 80° | 4657 | 4519 | 4652 |
| 85° | 4025 | 4303 | 4491 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 48.8   | 1.0       |
| 10°-20°   | 140.0  | 2.9       |
| 20°-30°   | 212.2  | 4.4       |
| 30°-40°   | 258.4  | 5.4       |
| 40°-50°   | 278.0  | 5.8       |
| 50°-60°   | 270.0  | 5.6       |
| 60°-70°   | 235.8  | 4.9       |
| 70°-80°   | 181.5  | 3.8       |
| 80°-90°   | 125.5  | 2.6       |
| 90°-100°  | 246.5  | 5.1       |
| 100°-110° | 612.8  | 12.8      |
| 110°-120° | 626.4  | 13.1      |
| 120°-130° | 504.9  | 10.5      |
| 130°-140° | 396.8  | 8.3       |
| 140°-150° | 294.4  | 6.1       |
| 150°-160° | 205.7  | 4.3       |
| 160°-170° | 121.1  | 2.5       |
| 170°-180° | 39.4   | 0.8       |
| 0°-30°    | 401.0  | 8.4       |
| 0°-40°    | 659.5  | 13.7      |
| 0°-60°    | 1207.5 | 25.2      |
| 0°-90°    | 1750.3 | 36.5      |
| 90°-120°  | 1485.7 | 31.0      |
| 90°-150°  | 2681.8 | 55.9      |
| 90°-180°  | 3048.0 | 63.5      |
| 0°-180°   | 4798.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90°  | Flux |
|------|-----|-------|-----|-------|------|------|
| 0°   | 515 | 515   | 515 | 515   | 515  |      |
| 5°   | 517 | 514   | 510 | 514   | 514  | 49   |
| 15°  | 493 | 494   | 494 | 501   | 500  | 139  |
| 25°  | 448 | 453   | 460 | 469   | 471  | 206  |
| 35°  | 386 | 399   | 413 | 429   | 435  | 241  |
| 45°  | 317 | 337   | 363 | 385   | 394  | 244  |
| 55°  | 243 | 270   | 308 | 334   | 345  | 217  |
| 65°  | 166 | 203   | 246 | 276   | 287  | 165  |
| 75°  | 92  | 134   | 182 | 212   | 223  | 97   |
| 85°  | 27  | 73    | 121 | 151   | 163  | 29   |
| 90°  | 8   | 62    | 125 | 153   | 163  | 7    |
| 95°  | 33  | 109   | 392 | 229   | 212  | 34   |
| 105° | 99  | 170   | 644 | 1125  | 980  | 106  |
| 115° | 171 | 225   | 530 | 1067  | 1235 | 169  |
| 125° | 236 | 280   | 491 | 855   | 993  | 210  |
| 135° | 276 | 329   | 469 | 704   | 809  | 213  |
| 145° | 314 | 361   | 458 | 573   | 630  | 197  |
| 155° | 357 | 386   | 445 | 503   | 523  | 164  |
| 165° | 389 | 401   | 426 | 452   | 459  | 110  |
| 175° | 406 | 406   | 410 | 415   | 414  | 39   |
| 180° | 406 | 406   | 406 | 406   | 406  |      |



TEST NUMBER: P331308

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 515.3 | 515.3 | 515.3 | 515.3 | 515.3 | 515.3 | 515.3 | 515.3 | 515.3 | 515.3 | 515.3 |
| 2.5°   | 518.3 | 517.9 | 517.5 | 517.1 | 516.7 | 516.0 | 515.1 | 514.2 | 513.3 | 512.3 | 513.0 |
| 5°     | 516.8 | 516.3 | 515.8 | 515.3 | 514.8 | 514.1 | 513.1 | 512.1 | 511.1 | 510.1 | 511.1 |
| 7.5°   | 512.2 | 511.8 | 511.5 | 511.2 | 510.9 | 510.3 | 509.5 | 508.8 | 508.0 | 507.2 | 508.4 |
| 10°    | 508.6 | 508.3 | 507.9 | 507.6 | 507.3 | 506.9 | 506.4 | 505.9 | 505.4 | 504.9 | 506.2 |
| 12.5°  | 502.6 | 502.7 | 502.8 | 502.8 | 502.9 | 502.7 | 502.4 | 502.0 | 501.6 | 501.3 | 502.6 |
| 15°    | 492.9 | 493.2 | 493.6 | 493.9 | 494.2 | 494.4 | 494.4 | 494.4 | 494.4 | 494.4 | 495.9 |
| 17.5°  | 480.4 | 481.1 | 481.8 | 482.5 | 483.2 | 483.8 | 484.3 | 484.8 | 485.4 | 485.9 | 487.4 |
| 20°    | 472.0 | 472.8 | 473.7 | 474.5 | 475.3 | 476.1 | 476.7 | 477.4 | 478.1 | 478.7 | 480.5 |
| 22.5°  | 463.0 | 464.0 | 465.0 | 465.9 | 466.9 | 467.8 | 468.8 | 469.7 | 470.6 | 471.6 | 473.4 |
| 25°    | 448.1 | 449.3 | 450.4 | 451.6 | 452.7 | 454.1 | 455.6 | 457.1 | 458.6 | 460.0 | 462.0 |
| 27.5°  | 430.2 | 432.1 | 434.0 | 435.9 | 437.7 | 439.6 | 441.3 | 443.1 | 444.8 | 446.6 | 449.1 |
| 30°    | 418.2 | 420.4 | 422.5 | 424.7 | 426.9 | 429.0 | 431.2 | 433.3 | 435.5 | 437.6 | 440.3 |
| 32.5°  | 405.1 | 407.5 | 409.9 | 412.4 | 414.8 | 417.3 | 419.8 | 422.4 | 424.9 | 427.5 | 430.5 |
| 35°    | 386.1 | 388.9 | 391.8 | 394.6 | 397.4 | 400.4 | 403.5 | 406.7 | 409.8 | 413.0 | 416.6 |
| 37.5°  | 365.5 | 368.8 | 372.0 | 375.3 | 378.5 | 382.2 | 386.3 | 390.3 | 394.4 | 398.5 | 402.6 |
| 40°    | 351.8 | 355.4 | 359.1 | 362.7 | 366.4 | 370.4 | 374.9 | 379.4 | 383.9 | 388.4 | 392.7 |
| 42.5°  | 338.6 | 342.3 | 345.9 | 349.6 | 353.2 | 357.6 | 362.8 | 367.9 | 373.1 | 378.2 | 382.9 |
| 45°    | 316.7 | 321.1 | 325.6 | 330.1 | 334.6 | 339.7 | 345.5 | 351.3 | 357.2 | 363.0 | 368.1 |
| 47.5°  | 295.0 | 299.9 | 304.8 | 309.6 | 314.5 | 320.4 | 327.2 | 334.0 | 340.8 | 347.6 | 353.0 |
| 50°    | 280.1 | 285.2 | 290.4 | 295.5 | 300.6 | 306.9 | 314.4 | 321.9 | 329.4 | 336.8 | 342.5 |
| 52.5°  | 265.7 | 271.1 | 276.5 | 282.0 | 287.4 | 294.0 | 301.9 | 309.7 | 317.6 | 325.5 | 331.2 |
| 55°    | 242.7 | 248.7 | 254.7 | 260.6 | 266.6 | 273.9 | 282.6 | 291.2 | 299.8 | 308.4 | 314.4 |
| 57.5°  | 220.0 | 226.8 | 233.5 | 240.2 | 247.0 | 254.7 | 263.5 | 272.3 | 281.1 | 289.9 | 296.4 |
| 60°    | 203.9 | 211.0 | 218.2 | 225.3 | 232.4 | 240.7 | 250.2 | 259.6 | 269.1 | 278.6 | 284.9 |
| 62.5°  | 189.5 | 196.9 | 204.4 | 211.8 | 219.2 | 227.6 | 237.0 | 246.5 | 256.0 | 265.4 | 272.1 |
| 65°    | 165.8 | 173.9 | 182.1 | 190.2 | 198.3 | 207.3 | 217.1 | 226.9 | 236.7 | 246.5 | 253.3 |
| 67.5°  | 144.0 | 152.5 | 161.0 | 169.5 | 178.0 | 187.2 | 197.3 | 207.3 | 217.3 | 227.3 | 234.2 |
| 70°    | 128.5 | 137.1 | 145.7 | 154.3 | 163.0 | 172.4 | 182.7 | 193.0 | 203.3 | 213.6 | 220.7 |
| 72.5°  | 114.1 | 123.0 | 131.9 | 140.8 | 149.7 | 159.4 | 169.8 | 180.2 | 190.6 | 201.0 | 208.1 |
| 75°    | 91.9  | 101.2 | 110.4 | 119.7 | 129.0 | 139.0 | 149.6 | 160.2 | 170.9 | 181.5 | 188.6 |
| 77.5°  | 70.4  | 80.1  | 89.8  | 99.5  | 109.3 | 119.5 | 130.3 | 141.1 | 151.9 | 162.7 | 169.8 |
| 80°    | 56.0  | 66.1  | 76.3  | 86.4  | 96.5  | 107.0 | 117.8 | 128.5 | 139.3 | 150.1 | 157.1 |
| 82.5°  | 44.1  | 54.1  | 64.0  | 74.0  | 84.0  | 94.5  | 105.4 | 116.3 | 127.2 | 138.2 | 145.1 |
| 85°    | 26.9  | 37.2  | 47.5  | 57.8  | 68.0  | 78.5  | 89.1  | 99.7  | 110.4 | 121.0 | 128.0 |
| 87.5°  | 14.8  | 25.2  | 35.7  | 45.9  | 56.1  | 66.8  | 78.2  | 89.9  | 101.5 | 112.3 | 118.9 |
| 90°    | 8.3   | 20.2  | 33.0  | 44.2  | 55.4  | 67.8  | 82.4  | 98.4  | 113.8 | 125.2 | 131.0 |
| 92.5°  | 16.4  | 29.6  | 44.2  | 56.6  | 70.9  | 87.8  | 115.7 | 150.8 | 183.2 | 194.8 | 185.5 |
| 95°    | 33.3  | 44.3  | 59.9  | 74.7  | 95.0  | 122.7 | 168.6 | 246.5 | 347.2 | 392.3 | 360.3 |
| 97.5°  | 49.8  | 60.9  | 76.2  | 93.7  | 115.1 | 144.6 | 199.3 | 303.6 | 463.9 | 602.6 | 634.4 |
| 100°   | 65.4  | 73.9  | 87.1  | 105.7 | 127.5 | 157.1 | 207.8 | 312.5 | 490.6 | 692.2 | 810.9 |
| 102.5° | 79.2  | 86.5  | 99.2  | 117.3 | 139.2 | 168.4 | 215.7 | 309.5 | 474.8 | 691.2 | 874.2 |
| 105°   | 99.1  | 107.0 | 117.3 | 133.9 | 155.9 | 184.5 | 229.9 | 308.1 | 445.7 | 643.5 | 857.2 |
| 107.5° | 121.5 | 127.8 | 137.0 | 151.6 | 172.5 | 200.6 | 244.5 | 313.4 | 428.3 | 592.9 | 782.2 |
| 110°   | 135.9 | 142.3 | 150.3 | 163.8 | 183.5 | 211.9 | 254.5 | 318.9 | 422.4 | 568.1 | 735.2 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 149.6 | 155.5 | 163.7 | 176.0 | 194.6 | 223.1 | 264.0 | 324.9 | 419.2 | 550.2 | 701.0 |
| 115°   | 171.1 | 176.8 | 183.3 | 194.5 | 212.0 | 237.7 | 278.8 | 334.0 | 417.2 | 529.5 | 658.0 |
| 117.5° | 192.5 | 196.8 | 202.7 | 212.2 | 228.4 | 254.3 | 292.4 | 344.0 | 417.3 | 516.0 | 628.3 |
| 120°   | 206.3 | 210.1 | 215.4 | 223.1 | 239.4 | 264.9 | 302.1 | 350.9 | 417.7 | 508.0 | 612.0 |
| 122.5° | 219.4 | 222.2 | 227.1 | 235.0 | 250.9 | 276.7 | 311.6 | 356.9 | 418.9 | 501.9 | 597.6 |
| 125°   | 236.0 | 238.3 | 243.0 | 252.4 | 268.1 | 292.6 | 326.0 | 366.5 | 420.3 | 491.3 | 576.3 |
| 127.5° | 249.8 | 252.7 | 259.1 | 269.3 | 284.1 | 308.7 | 340.3 | 376.2 | 422.7 | 483.3 | 556.5 |
| 130°   | 257.9 | 260.9 | 268.5 | 279.3 | 294.7 | 318.3 | 349.1 | 382.3 | 424.9 | 478.4 | 543.4 |
| 132.5° | 265.4 | 269.0 | 277.3 | 288.7 | 304.8 | 327.9 | 356.7 | 388.5 | 427.1 | 474.2 | 532.1 |
| 135°   | 275.9 | 279.0 | 288.4 | 300.1 | 318.1 | 340.8 | 367.5 | 396.5 | 429.5 | 468.6 | 516.7 |
| 137.5° | 286.5 | 290.3 | 299.6 | 312.1 | 329.9 | 350.5 | 376.0 | 402.2 | 431.4 | 464.1 | 504.6 |
| 140°   | 294.7 | 297.6 | 306.8 | 319.2 | 336.2 | 356.6 | 380.4 | 405.0 | 431.9 | 461.1 | 497.4 |
| 142.5° | 302.8 | 305.1 | 313.7 | 326.1 | 342.5 | 361.5 | 384.4 | 408.1 | 432.8 | 459.9 | 491.3 |
| 145°   | 314.2 | 317.4 | 325.2 | 336.9 | 352.5 | 369.7 | 390.9 | 412.7 | 434.6 | 458.1 | 484.1 |
| 147.5° | 327.4 | 329.7 | 337.2 | 348.0 | 361.0 | 376.3 | 396.2 | 415.4 | 435.3 | 455.3 | 477.3 |
| 150°   | 336.1 | 338.5 | 344.7 | 354.9 | 366.6 | 380.7 | 398.7 | 416.6 | 434.6 | 453.4 | 472.1 |
| 152.5° | 344.9 | 346.0 | 352.2 | 361.1 | 372.2 | 385.1 | 401.2 | 417.3 | 433.4 | 450.3 | 467.8 |
| 155°   | 357.2 | 358.0 | 362.7 | 371.3 | 379.9 | 391.6 | 404.9 | 418.2 | 431.5 | 444.8 | 459.6 |
| 157.5° | 367.6 | 368.3 | 372.1 | 379.6 | 386.5 | 396.3 | 407.6 | 418.2 | 427.9 | 439.2 | 452.0 |
| 160°   | 374.4 | 375.2 | 378.3 | 384.6 | 390.9 | 399.4 | 408.8 | 418.2 | 426.0 | 435.4 | 446.4 |
| 162.5° | 381.3 | 380.8 | 384.0 | 389.0 | 394.6 | 401.3 | 409.5 | 417.6 | 424.2 | 432.3 | 441.3 |
| 165°   | 389.3 | 388.5 | 390.1 | 394.8 | 398.7 | 403.4 | 410.4 | 415.9 | 420.6 | 426.0 | 433.1 |
| 167.5° | 395.9 | 394.9 | 396.3 | 399.3 | 402.1 | 405.1 | 410.2 | 414.8 | 417.0 | 420.6 | 424.9 |
| 170°   | 400.2 | 398.7 | 399.4 | 401.8 | 403.4 | 405.7 | 409.6 | 413.5 | 415.1 | 417.4 | 420.6 |
| 172.5° | 402.7 | 401.8 | 401.3 | 403.7 | 404.6 | 406.3 | 409.0 | 411.6 | 412.6 | 413.7 | 416.2 |
| 175°   | 405.7 | 404.9 | 404.1 | 405.7 | 405.7 | 406.5 | 408.0 | 409.6 | 408.8 | 409.6 | 410.4 |
| 177.5° | 407.1 | 405.9 | 405.2 | 406.5 | 406.5 | 406.5 | 407.1 | 408.4 | 407.1 | 406.5 | 407.1 |
| 180°   | 406.5 | 406.5 | 406.5 | 406.5 | 406.5 | 406.5 | 406.5 | 406.5 | 406.5 | 406.5 | 406.5 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 515.3  | 515.3  | 515.3  | 515.3  | 515.3  | 515.3  | 515.3  | 515.3  |
| 2.5°   | 513.7  | 514.3  | 515.0  | 515.2  | 514.9  | 514.7  | 514.4  | 514.1  |
| 5°     | 512.1  | 513.1  | 514.1  | 514.5  | 514.3  | 514.2  | 514.0  | 513.8  |
| 7.5°   | 509.6  | 510.8  | 512.0  | 512.5  | 512.4  | 512.2  | 512.0  | 511.9  |
| 10°    | 507.5  | 508.8  | 510.2  | 510.8  | 510.6  | 510.4  | 510.3  | 510.1  |
| 12.5°  | 503.9  | 505.3  | 506.6  | 507.2  | 507.0  | 506.8  | 506.7  | 506.5  |
| 15°    | 497.4  | 498.9  | 500.4  | 501.0  | 500.9  | 500.7  | 500.5  | 500.4  |
| 17.5°  | 489.0  | 490.6  | 492.1  | 492.9  | 492.9  | 492.9  | 492.9  | 492.9  |
| 20°    | 482.4  | 484.2  | 486.0  | 486.9  | 486.9  | 486.9  | 486.9  | 486.9  |
| 22.5°  | 475.2  | 477.0  | 478.9  | 479.9  | 480.2  | 480.4  | 480.7  | 481.0  |
| 25°    | 464.0  | 466.0  | 468.0  | 469.3  | 469.8  | 470.3  | 470.8  | 471.3  |
| 27.5°  | 451.7  | 454.2  | 456.7  | 458.1  | 458.5  | 458.9  | 459.2  | 459.6  |
| 30°    | 443.0  | 445.6  | 448.3  | 449.8  | 450.3  | 450.8  | 451.3  | 451.8  |
| 32.5°  | 433.6  | 436.6  | 439.7  | 441.7  | 442.6  | 443.5  | 444.4  | 445.3  |
| 35°    | 420.3  | 424.0  | 427.6  | 430.0  | 431.2  | 432.3  | 433.5  | 434.7  |
| 37.5°  | 406.6  | 410.7  | 414.7  | 417.3  | 418.6  | 419.8  | 421.0  | 422.3  |
| 40°    | 397.0  | 401.3  | 405.6  | 408.5  | 410.0  | 411.5  | 413.0  | 414.5  |
| 42.5°  | 387.6  | 392.3  | 397.0  | 400.2  | 401.6  | 403.1  | 404.6  | 406.1  |
| 45°    | 373.3  | 378.4  | 383.5  | 386.9  | 388.6  | 390.3  | 391.9  | 393.6  |
| 47.5°  | 358.3  | 363.7  | 369.1  | 372.7  | 374.5  | 376.3  | 378.2  | 380.0  |
| 50°    | 348.1  | 353.7  | 359.4  | 363.1  | 365.0  | 366.8  | 368.6  | 370.4  |
| 52.5°  | 337.0  | 342.8  | 348.6  | 352.4  | 354.4  | 356.4  | 358.3  | 360.3  |
| 55°    | 320.4  | 326.4  | 332.3  | 336.4  | 338.6  | 340.7  | 342.9  | 345.0  |
| 57.5°  | 302.8  | 309.2  | 315.7  | 320.0  | 322.2  | 324.4  | 326.6  | 328.8  |
| 60°    | 291.2  | 297.5  | 303.8  | 308.1  | 310.4  | 312.8  | 315.1  | 317.4  |
| 62.5°  | 278.8  | 285.5  | 292.2  | 296.7  | 298.9  | 301.1  | 303.3  | 305.5  |
| 65°    | 260.1  | 266.9  | 273.7  | 278.2  | 280.3  | 282.5  | 284.6  | 286.8  |
| 67.5°  | 241.1  | 247.9  | 254.8  | 259.4  | 261.6  | 263.9  | 266.2  | 268.4  |
| 70°    | 227.9  | 235.0  | 242.1  | 246.7  | 248.7  | 250.7  | 252.7  | 254.7  |
| 72.5°  | 215.1  | 222.1  | 229.1  | 233.8  | 236.1  | 238.5  | 240.9  | 243.3  |
| 75°    | 195.8  | 202.9  | 210.0  | 214.7  | 216.8  | 219.0  | 221.1  | 223.3  |
| 77.5°  | 176.9  | 184.0  | 191.1  | 195.8  | 198.1  | 200.4  | 202.8  | 205.1  |
| 80°    | 164.1  | 171.0  | 178.0  | 182.6  | 185.0  | 187.3  | 189.6  | 191.9  |
| 82.5°  | 152.1  | 159.1  | 166.0  | 170.6  | 172.8  | 175.0  | 177.2  | 179.4  |
| 85°    | 134.9  | 141.9  | 148.9  | 153.5  | 155.8  | 158.2  | 160.5  | 162.8  |
| 87.5°  | 125.5  | 132.0  | 139.0  | 143.6  | 145.8  | 147.9  | 150.0  | 152.1  |
| 90°    | 136.9  | 141.9  | 150.2  | 155.2  | 157.2  | 159.2  | 161.2  | 163.2  |
| 92.5°  | 174.4  | 171.2  | 171.1  | 170.5  | 171.9  | 171.4  | 174.0  | 174.7  |
| 95°    | 303.3  | 261.9  | 235.4  | 222.4  | 214.2  | 209.9  | 209.6  | 212.3  |
| 97.5°  | 569.7  | 488.9  | 410.5  | 358.1  | 322.7  | 305.4  | 295.9  | 291.3  |
| 100°   | 800.7  | 709.9  | 608.9  | 518.3  | 455.3  | 423.5  | 402.6  | 390.4  |
| 102.5° | 950.7  | 934.8  | 862.5  | 766.2  | 697.5  | 641.9  | 615.5  | 598.2  |
| 105°   | 1025.6 | 1119.8 | 1135.7 | 1113.7 | 1067.1 | 1020.5 | 988.7  | 979.6  |
| 107.5° | 960.2  | 1098.9 | 1185.7 | 1227.3 | 1235.2 | 1234.4 | 1229.5 | 1216.7 |
| 110°   | 905.5  | 1050.7 | 1156.1 | 1223.7 | 1259.2 | 1275.9 | 1284.7 | 1285.8 |





TEST NUMBER: P331308

CATALOG NUMBER: SA2XXDIP-C485D725U835-4F0-1E-UDD-D4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|-------|-------|--------|--------|--------|--------|--------|--------|
| 112.5° | 855.0 | 994.6 | 1106.9 | 1183.9 | 1232.5 | 1259.2 | 1274.3 | 1280.3 |
| 115°   | 791.9 | 917.3 | 1024.7 | 1108.6 | 1165.9 | 1203.7 | 1225.8 | 1234.7 |
| 117.5° | 742.8 | 853.4 | 951.2  | 1030.0 | 1088.3 | 1128.0 | 1151.1 | 1158.7 |
| 120°   | 717.4 | 819.0 | 906.5  | 980.9  | 1037.4 | 1076.0 | 1100.5 | 1110.1 |
| 122.5° | 696.7 | 790.0 | 873.0  | 940.3  | 991.0  | 1028.6 | 1050.4 | 1058.5 |
| 125°   | 666.0 | 751.0 | 824.2  | 885.9  | 932.7  | 963.9  | 984.9  | 992.7  |
| 127.5° | 635.6 | 712.6 | 781.6  | 838.5  | 879.5  | 908.8  | 927.1  | 933.6  |
| 130°   | 616.1 | 687.4 | 753.1  | 807.3  | 847.0  | 874.9  | 891.8  | 899.4  |
| 132.5° | 597.3 | 663.4 | 724.0  | 775.0  | 814.0  | 841.9  | 857.6  | 864.6  |
| 135°   | 571.0 | 626.1 | 681.1  | 727.3  | 762.3  | 789.4  | 804.8  | 809.2  |
| 137.5° | 549.1 | 595.3 | 639.3  | 679.5  | 711.3  | 734.6  | 748.1  | 753.9  |
| 140°   | 535.2 | 575.4 | 614.0  | 650.2  | 676.3  | 697.6  | 710.3  | 716.0  |
| 142.5° | 524.2 | 558.2 | 591.3  | 621.6  | 646.2  | 665.5  | 676.9  | 678.7  |
| 145°   | 509.3 | 536.1 | 561.3  | 584.9  | 604.5  | 618.6  | 627.3  | 630.4  |
| 147.5° | 498.1 | 518.5 | 537.6  | 554.4  | 570.3  | 581.3  | 587.0  | 588.8  |
| 150°   | 490.9 | 508.1 | 524.5  | 538.6  | 550.3  | 559.7  | 564.4  | 565.2  |
| 152.5° | 484.0 | 500.0 | 513.9  | 526.1  | 535.3  | 543.4  | 546.9  | 547.0  |
| 155°   | 474.5 | 487.0 | 498.7  | 507.3  | 515.9  | 521.4  | 524.5  | 523.0  |
| 157.5° | 463.4 | 473.9 | 483.7  | 490.4  | 496.5  | 501.1  | 502.5  | 502.5  |
| 160°   | 456.5 | 465.1 | 473.7  | 479.2  | 484.7  | 488.6  | 489.3  | 489.3  |
| 162.5° | 449.6 | 457.0 | 464.3  | 468.6  | 474.0  | 476.7  | 477.5  | 476.8  |
| 165°   | 439.3 | 444.8 | 450.3  | 453.4  | 456.5  | 459.6  | 459.6  | 458.9  |
| 167.5° | 429.5 | 433.7 | 437.4  | 440.3  | 441.7  | 443.4  | 443.2  | 442.3  |
| 170°   | 424.5 | 426.8 | 429.9  | 431.5  | 432.3  | 434.6  | 433.8  | 432.3  |
| 172.5° | 418.8 | 420.6 | 423.1  | 424.0  | 424.8  | 425.9  | 425.1  | 424.2  |
| 175°   | 412.7 | 413.5 | 414.3  | 415.1  | 415.1  | 415.9  | 415.1  | 413.5  |
| 177.5° | 408.4 | 408.4 | 409.0  | 409.0  | 409.0  | 409.0  | 408.4  | 407.1  |
| 180°   | 406.5 | 406.5 | 406.5  | 406.5  | 406.5  | 406.5  | 406.5  | 406.5  |

(END OF REPORT)