

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: P331263

Luminaire Tested: **SA2XXDIP-C290D725U835-4F0-1E-UDD-D4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331263  
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-C290D725U835-4F0-1E-UDD-D4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 290 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 725 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

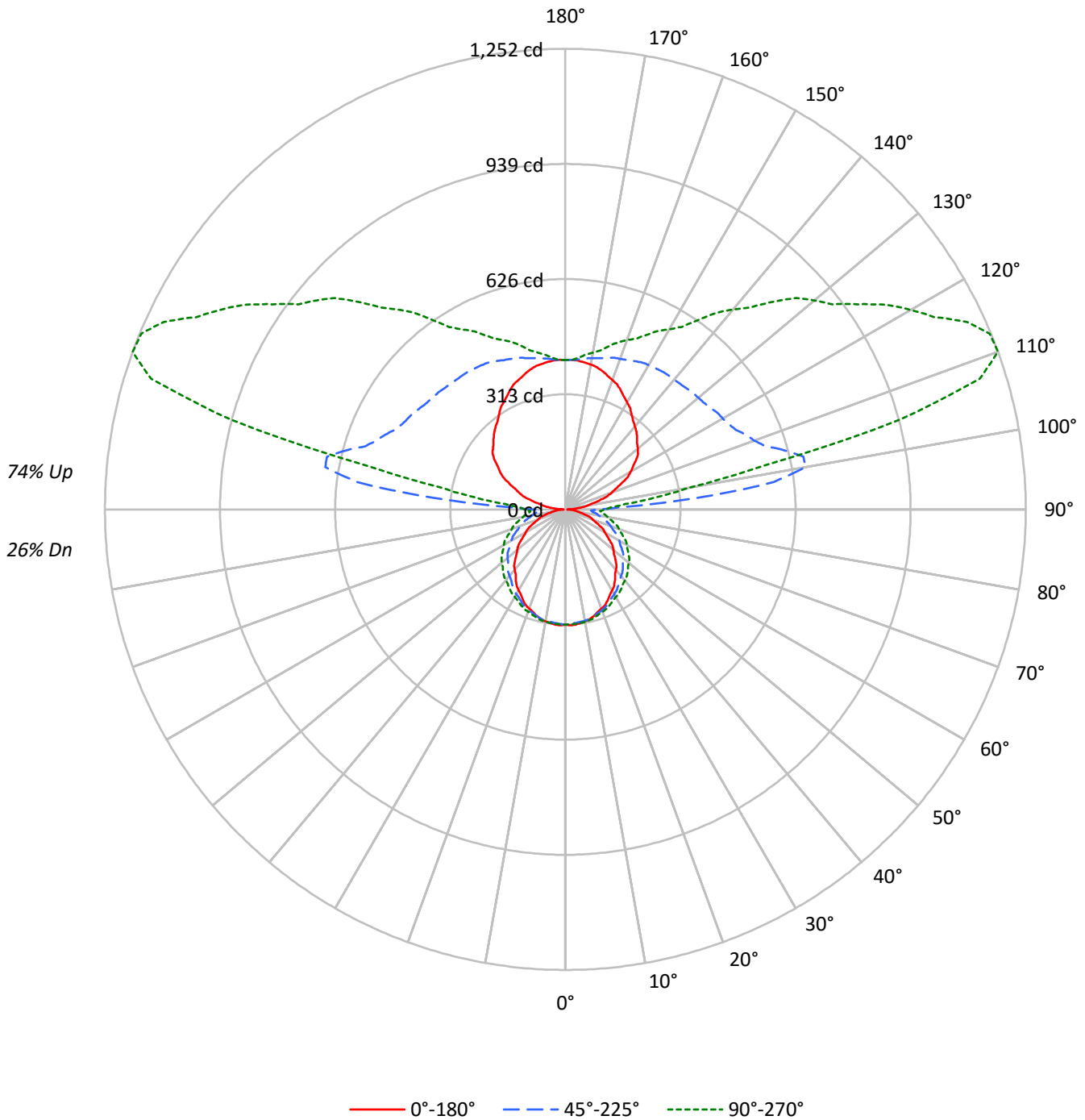
Lumens per Lamp: N/A  
Luminaire Lumens: 4028.1 lumens  
Efficiency: N/A  
Efficacy: 129.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.08')  
CIE Type: Semi-Indirect

Input Watts (W): 31.2  
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: P331263  
CATALOG NUMBER: SA2XXDIP-C290D725U835-4F0-1E-UDD-D4

### Luminous Intensity Polar Plot





TEST NUMBER: P331263

CATALOG NUMBER: SA2XXDIP-C290D725U835-4F0-1E-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   | 102 | 102 | 102 | 102 | 91 | 91 | 91 | 91 | 70 | 70 | 70 | 52 | 52 | 52 | 35 | 35 | 35 | 26 |
| 1   | 92  | 87  | 83  | 79  | 82 | 78 | 74 | 71 | 60 | 58 | 56 | 44 | 43 | 41 | 29 | 28 | 27 | 21 |
| 2   | 83  | 76  | 69  | 64  | 74 | 67 | 62 | 58 | 52 | 49 | 45 | 38 | 36 | 34 | 25 | 24 | 22 | 17 |
| 3   | 76  | 66  | 59  | 53  | 67 | 59 | 53 | 48 | 46 | 41 | 38 | 33 | 31 | 28 | 22 | 20 | 19 | 14 |
| 4   | 69  | 58  | 50  | 44  | 61 | 52 | 45 | 40 | 40 | 36 | 32 | 30 | 26 | 24 | 20 | 18 | 16 | 12 |
| 5   | 63  | 52  | 44  | 38  | 56 | 46 | 39 | 34 | 36 | 31 | 27 | 26 | 23 | 20 | 17 | 15 | 14 | 10 |
| 6   | 58  | 46  | 38  | 32  | 51 | 41 | 34 | 29 | 32 | 27 | 23 | 24 | 20 | 18 | 16 | 14 | 12 | 9  |
| 7   | 53  | 41  | 34  | 28  | 47 | 37 | 30 | 26 | 29 | 24 | 20 | 21 | 18 | 15 | 14 | 12 | 10 | 8  |
| 8   | 49  | 37  | 30  | 25  | 44 | 34 | 27 | 22 | 26 | 21 | 18 | 19 | 16 | 14 | 13 | 11 | 9  | 7  |
| 9   | 46  | 34  | 27  | 22  | 41 | 30 | 24 | 20 | 24 | 19 | 16 | 18 | 14 | 12 | 12 | 10 | 8  | 6  |
| 10  | 43  | 31  | 24  | 19  | 38 | 28 | 22 | 18 | 22 | 17 | 14 | 16 | 13 | 11 | 11 | 9  | 8  | 5  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 5062 | 5062 | 5062 |
| 5°  | 5086 | 4872 | 4853 |
| 10° | 5054 | 4728 | 4675 |
| 15° | 4983 | 4575 | 4487 |
| 20° | 4896 | 4412 | 4306 |
| 25° | 4810 | 4254 | 4140 |
| 30° | 4687 | 4093 | 3976 |
| 35° | 4563 | 3936 | 3860 |
| 40° | 4433 | 3803 | 3743 |
| 45° | 4308 | 3685 | 3644 |
| 50° | 4176 | 3577 | 3546 |
| 55° | 4035 | 3461 | 3447 |
| 60° | 3865 | 3340 | 3342 |
| 65° | 3686 | 3200 | 3215 |
| 70° | 3487 | 3048 | 3081 |
| 75° | 3236 | 2900 | 2956 |
| 80° | 2836 | 2748 | 2829 |
| 85° | 2454 | 2617 | 2731 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 29.7   | 0.7       |
| 10°-20°   | 85.2   | 2.1       |
| 20°-30°   | 129.1  | 3.2       |
| 30°-40°   | 157.2  | 3.9       |
| 40°-50°   | 169.1  | 4.2       |
| 50°-60°   | 164.2  | 4.1       |
| 60°-70°   | 143.4  | 3.6       |
| 70°-80°   | 110.4  | 2.7       |
| 80°-90°   | 77.8   | 1.9       |
| 90°-100°  | 213.6  | 5.3       |
| 100°-110° | 588.8  | 14.6      |
| 110°-120° | 610.5  | 15.2      |
| 120°-130° | 496.1  | 12.3      |
| 130°-140° | 393.1  | 9.8       |
| 140°-150° | 293.7  | 7.3       |
| 150°-160° | 205.7  | 5.1       |
| 160°-170° | 121.1  | 3.0       |
| 170°-180° | 39.4   | 1.0       |
| 0°-30°    | 243.9  | 6.1       |
| 0°-40°    | 401.1  | 10.0      |
| 0°-60°    | 734.5  | 18.2      |
| 0°-90°    | 1066.0 | 26.5      |
| 90°-120°  | 1412.9 | 35.1      |
| 90°-150°  | 2595.8 | 64.4      |
| 90°-180°  | 2962.0 | 73.5      |
| 0°-180°   | 4028.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90°  | Flux |
|------|-----|-------|-----|-------|------|------|
| 0°   | 314 | 314   | 314 | 314   | 314  |      |
| 5°   | 314 | 313   | 310 | 313   | 312  | 30   |
| 15°  | 300 | 301   | 301 | 305   | 304  | 84   |
| 25°  | 273 | 276   | 280 | 285   | 287  | 125  |
| 35°  | 235 | 243   | 251 | 261   | 264  | 147  |
| 45°  | 193 | 205   | 221 | 234   | 239  | 149  |
| 55°  | 148 | 164   | 188 | 203   | 210  | 132  |
| 65°  | 101 | 123   | 150 | 168   | 174  | 100  |
| 75°  | 56  | 82    | 110 | 129   | 136  | 59   |
| 85°  | 16  | 45    | 74  | 92    | 99   | 18   |
| 90°  | 5   | 42    | 86  | 103   | 109  | 5    |
| 95°  | 31  | 93    | 359 | 185   | 164  | 32   |
| 105° | 98  | 160   | 618 | 1090  | 941  | 104  |
| 115° | 170 | 220   | 512 | 1041  | 1205 | 168  |
| 125° | 235 | 279   | 481 | 838   | 972  | 209  |
| 135° | 276 | 329   | 465 | 695   | 798  | 213  |
| 145° | 314 | 361   | 458 | 571   | 627  | 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: P331263

CATALOG NUMBER: SA2XXDIP-C290D725U835-4F0-1E-UDD-D4

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 313.5 | 313.5 | 313.5 | 313.5 | 313.5 | 313.5 | 313.5 | 313.5 | 313.5 | 313.5 | 313.5 |
| 2.5°   | 315.3 | 315.0 | 314.8 | 314.5 | 314.3 | 313.9 | 313.3 | 312.8 | 312.2 | 311.6 | 312.0 |
| 5°     | 314.4 | 314.1 | 313.8 | 313.5 | 313.1 | 312.7 | 312.1 | 311.5 | 310.9 | 310.3 | 310.9 |
| 7.5°   | 311.5 | 311.3 | 311.1 | 310.9 | 310.7 | 310.4 | 309.9 | 309.5 | 309.0 | 308.5 | 309.3 |
| 10°    | 309.4 | 309.2 | 309.0 | 308.8 | 308.6 | 308.3 | 308.0 | 307.7 | 307.4 | 307.1 | 307.9 |
| 12.5°  | 305.7 | 305.8 | 305.8 | 305.9 | 305.9 | 305.8 | 305.6 | 305.4 | 305.1 | 304.9 | 305.7 |
| 15°    | 299.8 | 300.0 | 300.2 | 300.4 | 300.6 | 300.7 | 300.7 | 300.7 | 300.7 | 300.7 | 301.6 |
| 17.5°  | 292.2 | 292.6 | 293.0 | 293.5 | 293.9 | 294.3 | 294.6 | 294.9 | 295.2 | 295.6 | 296.5 |
| 20°    | 287.1 | 287.6 | 288.1 | 288.6 | 289.1 | 289.6 | 290.0 | 290.4 | 290.8 | 291.2 | 292.3 |
| 22.5°  | 281.7 | 282.2 | 282.8 | 283.4 | 284.0 | 284.6 | 285.1 | 285.7 | 286.3 | 286.8 | 287.9 |
| 25°    | 272.6 | 273.3 | 274.0 | 274.7 | 275.4 | 276.2 | 277.1 | 278.0 | 278.9 | 279.8 | 281.0 |
| 27.5°  | 261.7 | 262.8 | 264.0 | 265.1 | 266.3 | 267.4 | 268.4 | 269.5 | 270.6 | 271.7 | 273.2 |
| 30°    | 254.4 | 255.7 | 257.0 | 258.3 | 259.6 | 261.0 | 262.3 | 263.6 | 264.9 | 266.2 | 267.8 |
| 32.5°  | 246.4 | 247.9 | 249.3 | 250.8 | 252.3 | 253.8 | 255.4 | 256.9 | 258.5 | 260.0 | 261.9 |
| 35°    | 234.9 | 236.6 | 238.3 | 240.0 | 241.7 | 243.5 | 245.5 | 247.4 | 249.3 | 251.2 | 253.4 |
| 37.5°  | 222.3 | 224.3 | 226.3 | 228.3 | 230.2 | 232.5 | 235.0 | 237.4 | 239.9 | 242.4 | 244.9 |
| 40°    | 214.0 | 216.2 | 218.4 | 220.6 | 222.8 | 225.3 | 228.0 | 230.8 | 233.5 | 236.2 | 238.8 |
| 42.5°  | 206.0 | 208.2 | 210.4 | 212.6 | 214.9 | 217.5 | 220.7 | 223.8 | 226.9 | 230.0 | 232.9 |
| 45°    | 192.6 | 195.3 | 198.1 | 200.8 | 203.5 | 206.6 | 210.2 | 213.7 | 217.2 | 220.8 | 223.9 |
| 47.5°  | 179.4 | 182.4 | 185.4 | 188.3 | 191.3 | 194.9 | 199.0 | 203.1 | 207.3 | 211.4 | 214.7 |
| 50°    | 170.4 | 173.5 | 176.6 | 179.7 | 182.9 | 186.7 | 191.3 | 195.8 | 200.3 | 204.9 | 208.3 |
| 52.5°  | 161.6 | 164.9 | 168.2 | 171.5 | 174.8 | 178.8 | 183.6 | 188.4 | 193.2 | 198.0 | 201.5 |
| 55°    | 147.6 | 151.3 | 154.9 | 158.5 | 162.2 | 166.6 | 171.9 | 177.1 | 182.4 | 187.6 | 191.3 |
| 57.5°  | 133.8 | 137.9 | 142.0 | 146.1 | 150.2 | 154.9 | 160.3 | 165.6 | 171.0 | 176.4 | 180.3 |
| 60°    | 124.0 | 128.4 | 132.7 | 137.0 | 141.4 | 146.4 | 152.2 | 157.9 | 163.7 | 169.4 | 173.3 |
| 62.5°  | 115.3 | 119.8 | 124.3 | 128.8 | 133.3 | 138.4 | 144.2 | 149.9 | 155.7 | 161.5 | 165.5 |
| 65°    | 100.8 | 105.8 | 110.7 | 115.7 | 120.6 | 126.1 | 132.0 | 138.0 | 144.0 | 149.9 | 154.1 |
| 67.5°  | 87.6  | 92.8  | 97.9  | 103.1 | 108.3 | 113.9 | 120.0 | 126.1 | 132.2 | 138.3 | 142.5 |
| 70°    | 78.1  | 83.4  | 88.6  | 93.9  | 99.1  | 104.9 | 111.1 | 117.4 | 123.7 | 129.9 | 134.3 |
| 72.5°  | 69.4  | 74.8  | 80.2  | 85.6  | 91.1  | 96.9  | 103.3 | 109.6 | 116.0 | 122.3 | 126.6 |
| 75°    | 55.9  | 61.5  | 67.2  | 72.8  | 78.5  | 84.5  | 91.0  | 97.5  | 103.9 | 110.4 | 114.7 |
| 77.5°  | 42.8  | 48.7  | 54.6  | 60.5  | 66.5  | 72.7  | 79.3  | 85.8  | 92.4  | 98.9  | 103.3 |
| 80°    | 34.1  | 40.2  | 46.4  | 52.5  | 58.7  | 65.1  | 71.6  | 78.2  | 84.7  | 91.3  | 95.5  |
| 82.5°  | 26.8  | 32.9  | 39.0  | 45.0  | 51.1  | 57.5  | 64.1  | 70.8  | 77.4  | 84.0  | 88.3  |
| 85°    | 16.4  | 22.6  | 28.9  | 35.1  | 41.4  | 47.7  | 54.2  | 60.7  | 67.1  | 73.6  | 77.8  |
| 87.5°  | 9.1   | 15.5  | 22.2  | 28.5  | 34.8  | 41.6  | 48.8  | 56.4  | 63.8  | 70.4  | 74.3  |
| 90°    | 5.3   | 13.5  | 22.5  | 29.9  | 37.3  | 45.8  | 56.2  | 68.1  | 79.3  | 86.5  | 89.8  |
| 92.5°  | 13.7  | 23.4  | 34.5  | 43.4  | 54.1  | 67.3  | 91.2  | 122.3 | 150.7 | 158.3 | 146.5 |
| 95°    | 31.0  | 38.9  | 51.4  | 63.2  | 80.5  | 104.6 | 146.6 | 220.7 | 317.4 | 358.7 | 324.2 |
| 97.5°  | 47.7  | 56.2  | 68.7  | 83.5  | 102.1 | 128.4 | 179.4 | 280.0 | 436.5 | 571.4 | 600.8 |
| 100°   | 63.4  | 69.5  | 80.2  | 96.5  | 115.8 | 142.4 | 189.5 | 290.5 | 465.0 | 663.0 | 779.3 |
| 102.5° | 77.4  | 82.5  | 93.0  | 108.9 | 128.6 | 154.9 | 198.7 | 288.9 | 450.8 | 663.6 | 844.2 |
| 105°   | 97.6  | 103.7 | 112.1 | 126.7 | 146.9 | 172.8 | 214.8 | 289.7 | 423.9 | 618.3 | 829.8 |
| 107.5° | 120.1 | 124.9 | 132.6 | 145.7 | 165.1 | 190.8 | 231.5 | 297.2 | 408.8 | 570.2 | 757.3 |
| 110°   | 134.7 | 139.9 | 146.6 | 158.7 | 177.2 | 203.3 | 242.7 | 303.9 | 404.2 | 546.7 | 711.8 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 148.5 | 153.3 | 160.3 | 171.5 | 189.0 | 215.5 | 253.4 | 311.2 | 402.5 | 530.4 | 679.2 |
| 115°   | 169.9 | 174.9 | 180.7 | 191.2 | 207.9 | 231.9 | 270.0 | 322.3 | 402.6 | 511.9 | 638.4 |
| 117.5° | 191.6 | 195.5 | 200.9 | 209.9 | 225.6 | 250.0 | 285.3 | 334.2 | 404.9 | 500.8 | 611.2 |
| 120°   | 205.4 | 208.9 | 214.0 | 221.5 | 237.5 | 261.6 | 296.1 | 342.4 | 406.6 | 494.3 | 596.4 |
| 122.5° | 218.5 | 221.2 | 226.0 | 233.9 | 249.7 | 274.1 | 306.5 | 349.4 | 409.0 | 489.6 | 583.5 |
| 125°   | 235.4 | 237.8 | 242.5 | 251.8 | 267.5 | 291.0 | 322.3 | 360.8 | 412.4 | 481.3 | 564.6 |
| 127.5° | 249.2 | 252.2 | 258.7 | 268.9 | 283.8 | 307.6 | 337.5 | 371.7 | 416.5 | 475.4 | 547.0 |
| 130°   | 257.3 | 260.3 | 268.0 | 278.9 | 294.4 | 317.3 | 346.8 | 378.6 | 419.8 | 472.0 | 535.4 |
| 132.5° | 264.8 | 268.5 | 276.8 | 288.3 | 304.4 | 327.1 | 354.8 | 385.5 | 423.1 | 469.2 | 525.6 |
| 135°   | 275.6 | 278.7 | 288.1 | 299.8 | 317.8 | 340.2 | 366.2 | 394.6 | 426.9 | 465.4 | 512.1 |
| 137.5° | 286.2 | 290.0 | 299.3 | 311.8 | 329.6 | 350.2 | 375.3 | 401.2 | 430.1 | 462.6 | 501.9 |
| 140°   | 294.4 | 297.4 | 306.7 | 319.1 | 336.2 | 356.6 | 380.2 | 404.6 | 431.4 | 460.5 | 495.8 |
| 142.5° | 302.5 | 304.9 | 313.6 | 326.0 | 342.4 | 361.5 | 384.3 | 408.0 | 432.7 | 459.8 | 490.3 |
| 145°   | 314.2 | 317.4 | 325.2 | 336.9 | 352.5 | 369.7 | 390.9 | 412.7 | 434.6 | 458.1 | 483.7 |
| 147.5° | 327.4 | 329.7 | 337.2 | 348.0 | 361.0 | 376.3 | 396.2 | 415.4 | 435.3 | 455.3 | 477.2 |
| 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 |



TEST NUMBER: P331263

CATALOG NUMBER: SA2XXDIP-C290D725U835-4F0-1E-UDD-D4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 313.5 | 313.5  | 313.5  | 313.5  | 313.5  | 313.5  | 313.5  | 313.5  |
| 2.5°   | 312.4 | 312.8  | 313.2  | 313.4  | 313.2  | 313.0  | 312.9  | 312.7  |
| 5°     | 311.5 | 312.1  | 312.7  | 312.9  | 312.8  | 312.7  | 312.6  | 312.5  |
| 7.5°   | 310.0 | 310.7  | 311.5  | 311.8  | 311.7  | 311.6  | 311.5  | 311.4  |
| 10°    | 308.7 | 309.5  | 310.3  | 310.7  | 310.6  | 310.5  | 310.4  | 310.3  |
| 12.5°  | 306.5 | 307.3  | 308.1  | 308.5  | 308.4  | 308.3  | 308.2  | 308.1  |
| 15°    | 302.5 | 303.5  | 304.4  | 304.8  | 304.7  | 304.6  | 304.5  | 304.4  |
| 17.5°  | 297.5 | 298.4  | 299.3  | 299.8  | 299.8  | 299.8  | 299.8  | 299.8  |
| 20°    | 293.4 | 294.5  | 295.6  | 296.2  | 296.2  | 296.2  | 296.2  | 296.2  |
| 22.5°  | 289.1 | 290.2  | 291.3  | 291.9  | 292.1  | 292.2  | 292.4  | 292.6  |
| 25°    | 282.3 | 283.5  | 284.7  | 285.4  | 285.7  | 286.0  | 286.3  | 286.6  |
| 27.5°  | 274.7 | 276.3  | 277.8  | 278.7  | 278.9  | 279.1  | 279.3  | 279.6  |
| 30°    | 269.4 | 271.1  | 272.7  | 273.6  | 273.9  | 274.2  | 274.5  | 274.8  |
| 32.5°  | 263.7 | 265.6  | 267.5  | 268.7  | 269.2  | 269.8  | 270.3  | 270.8  |
| 35°    | 255.7 | 257.9  | 260.1  | 261.6  | 262.3  | 263.0  | 263.7  | 264.4  |
| 37.5°  | 247.3 | 249.8  | 252.3  | 253.9  | 254.6  | 255.4  | 256.1  | 256.8  |
| 40°    | 241.5 | 244.1  | 246.7  | 248.5  | 249.4  | 250.3  | 251.2  | 252.1  |
| 42.5°  | 235.8 | 238.6  | 241.5  | 243.4  | 244.3  | 245.2  | 246.1  | 247.0  |
| 45°    | 227.0 | 230.2  | 233.3  | 235.4  | 236.4  | 237.4  | 238.4  | 239.4  |
| 47.5°  | 218.0 | 221.2  | 224.5  | 226.7  | 227.8  | 228.9  | 230.0  | 231.1  |
| 50°    | 211.7 | 215.2  | 218.6  | 220.9  | 222.0  | 223.1  | 224.2  | 225.3  |
| 52.5°  | 205.0 | 208.5  | 212.0  | 214.4  | 215.6  | 216.8  | 218.0  | 219.1  |
| 55°    | 194.9 | 198.5  | 202.2  | 204.6  | 205.9  | 207.3  | 208.6  | 209.9  |
| 57.5°  | 184.2 | 188.1  | 192.0  | 194.6  | 196.0  | 197.3  | 198.6  | 200.0  |
| 60°    | 177.1 | 181.0  | 184.8  | 187.4  | 188.8  | 190.2  | 191.7  | 193.1  |
| 62.5°  | 169.6 | 173.7  | 177.8  | 180.5  | 181.8  | 183.1  | 184.5  | 185.8  |
| 65°    | 158.2 | 162.3  | 166.5  | 169.2  | 170.5  | 171.8  | 173.1  | 174.4  |
| 67.5°  | 146.6 | 150.8  | 155.0  | 157.8  | 159.1  | 160.5  | 161.9  | 163.3  |
| 70°    | 138.6 | 142.9  | 147.3  | 150.1  | 151.3  | 152.5  | 153.7  | 154.9  |
| 72.5°  | 130.8 | 135.1  | 139.3  | 142.2  | 143.6  | 145.1  | 146.6  | 148.0  |
| 75°    | 119.1 | 123.4  | 127.8  | 130.6  | 131.9  | 133.2  | 134.5  | 135.8  |
| 77.5°  | 107.6 | 111.9  | 116.2  | 119.1  | 120.5  | 121.9  | 123.3  | 124.7  |
| 80°    | 99.8  | 104.0  | 108.3  | 111.1  | 112.5  | 113.9  | 115.3  | 116.7  |
| 82.5°  | 92.5  | 96.8   | 101.0  | 103.8  | 105.1  | 106.5  | 107.8  | 109.1  |
| 85°    | 82.1  | 86.3   | 90.6   | 93.4   | 94.8   | 96.2   | 97.6   | 99.0   |
| 87.5°  | 78.3  | 82.1   | 86.5   | 89.4   | 90.7   | 92.0   | 93.3   | 94.6   |
| 90°    | 93.1  | 95.5   | 101.1  | 104.5  | 105.7  | 107.0  | 108.2  | 109.4  |
| 92.5°  | 132.8 | 127.0  | 124.4  | 122.2  | 122.8  | 121.5  | 123.3  | 123.3  |
| 95°    | 264.7 | 220.9  | 191.9  | 177.2  | 168.3  | 163.2  | 162.1  | 164.1  |
| 97.5°  | 533.7 | 450.5  | 369.7  | 315.7  | 279.6  | 261.5  | 251.3  | 245.9  |
| 100°   | 766.6 | 673.4  | 570.0  | 477.9  | 414.1  | 381.6  | 360.0  | 347.1  |
| 102.5° | 918.4 | 900.1  | 825.4  | 727.6  | 658.2  | 601.9  | 574.8  | 556.8  |
| 105°   | 995.9 | 1087.8 | 1101.5 | 1078.0 | 1030.6 | 983.3  | 950.8  | 940.9  |
| 107.5° | 933.1 | 1069.5 | 1154.2 | 1194.3 | 1201.5 | 1200.0 | 1194.4 | 1180.9 |
| 110°   | 880.0 | 1023.1 | 1126.4 | 1192.7 | 1227.4 | 1243.4 | 1251.5 | 1251.8 |





TEST NUMBER: P331263

CATALOG NUMBER: SA2XXDIP-C290D725U835-4F0-1E-UDD-D4

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|-------|-------|--------|--------|--------|--------|--------|--------|
| 112.5° | 831.1 | 968.7 | 1078.8 | 1154.5 | 1202.3 | 1228.3 | 1242.7 | 1248.0 |
| 115°   | 770.5 | 893.9 | 999.3  | 1081.9 | 1138.5 | 1175.6 | 1197.0 | 1205.1 |
| 117.5° | 723.8 | 832.5 | 928.3  | 1005.9 | 1063.5 | 1102.5 | 1125.0 | 1131.9 |
| 120°   | 700.0 | 799.8 | 885.5  | 958.6  | 1014.4 | 1052.3 | 1076.1 | 1085.0 |
| 122.5° | 680.8 | 772.4 | 853.6  | 919.7  | 969.7  | 1006.8 | 1027.9 | 1035.4 |
| 125°   | 652.5 | 735.8 | 807.3  | 867.7  | 914.0  | 944.6  | 965.0  | 972.2  |
| 127.5° | 624.6 | 699.9 | 767.3  | 823.1  | 863.5  | 892.3  | 910.0  | 915.9  |
| 130°   | 606.6 | 676.2 | 740.4  | 793.6  | 832.7  | 860.1  | 876.6  | 883.6  |
| 132.5° | 589.2 | 653.8 | 712.9  | 762.9  | 801.4  | 828.8  | 844.0  | 850.4  |
| 135°   | 565.0 | 618.7 | 672.5  | 717.7  | 752.1  | 778.7  | 793.6  | 797.5  |
| 137.5° | 545.1 | 590.1 | 633.0  | 672.4  | 703.7  | 726.6  | 739.6  | 745.0  |
| 140°   | 532.6 | 571.7 | 609.3  | 644.8  | 670.4  | 691.3  | 703.7  | 709.0  |
| 142.5° | 522.4 | 555.6 | 587.9  | 617.5  | 641.8  | 660.8  | 671.8  | 673.3  |
| 145°   | 508.5 | 534.9 | 559.8  | 583.0  | 602.3  | 616.1  | 624.4  | 627.2  |
| 147.5° | 497.9 | 518.4 | 537.4  | 554.1  | 569.8  | 580.7  | 586.2  | 587.9  |
| 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)