

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: P331271-927

Luminaire Tested: **SA2XXDIP-C290D925U927-4F0-1E-UDD-D1**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331271-927  
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-C290D925U927-4F0-1E-UDD-D1  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 290 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 925 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3570.6 lumens  
Efficiency: N/A  
Efficacy: 95.7 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

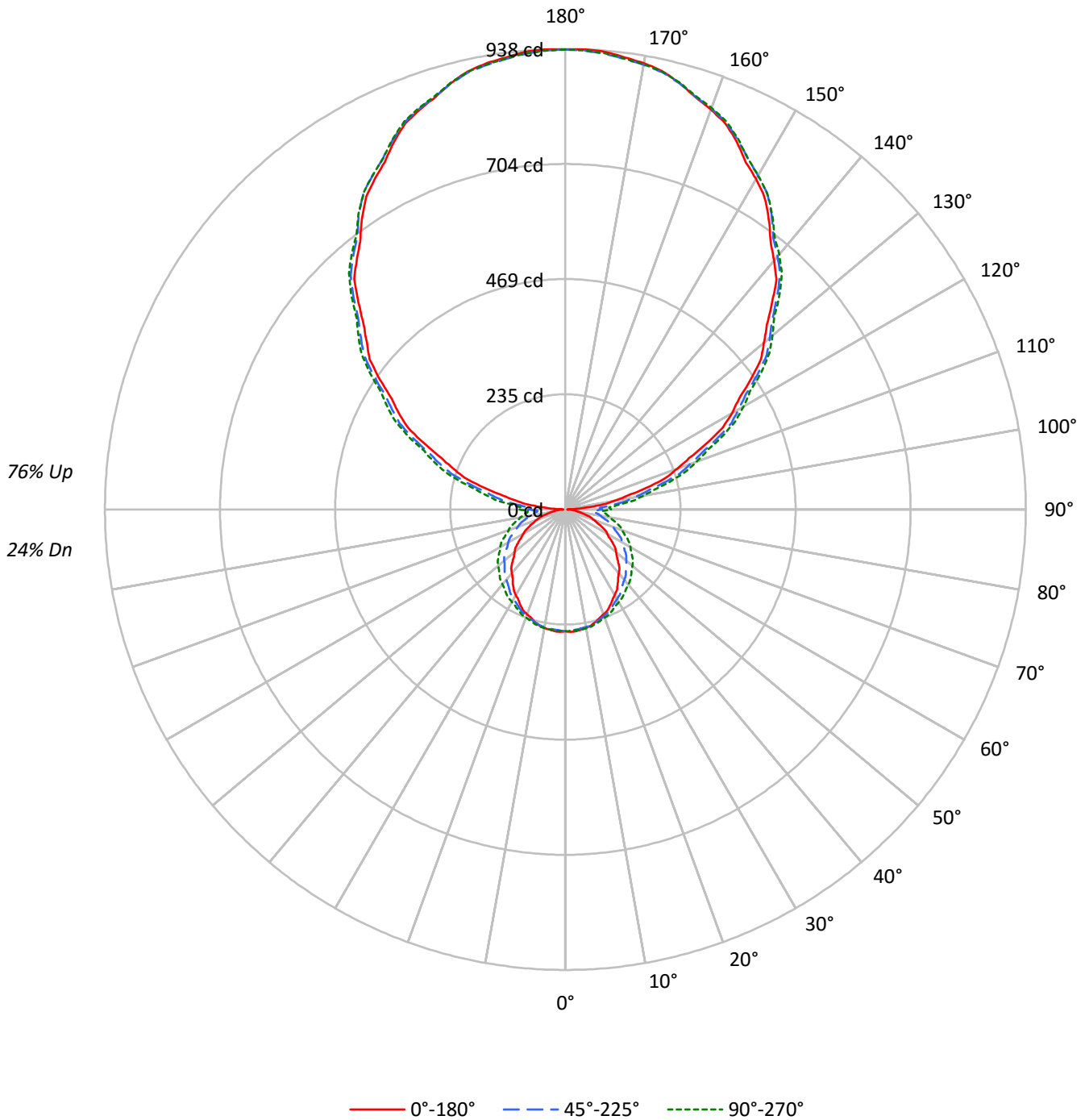
Input Watts (W): 37.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331271-927

CATALOG NUMBER: SA2XXDIP-C290D925U927-4F0-1E-UDD-D1

### Luminous Intensity Polar Plot





TEST NUMBER: P331271-927

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**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   | 101 | 101 | 101 | 101 | 90 | 90 | 90 | 90 | 69 | 69 | 69 | 50 | 50 | 50 | 32 | 32 | 32 | 24 |    |    |    | 24 |
| 1   | 91  | 87  | 83  | 79  | 81 | 77 | 74 | 71 | 59 | 57 | 55 | 42 | 41 | 40 | 27 | 26 | 25 | 18 |    |    |    | 18 |
| 2   | 83  | 75  | 69  | 64  | 73 | 67 | 62 | 57 | 51 | 48 | 45 | 37 | 34 | 32 | 23 | 22 | 21 | 15 |    |    |    | 15 |
| 3   | 75  | 66  | 59  | 53  | 66 | 59 | 52 | 47 | 45 | 41 | 37 | 32 | 29 | 27 | 20 | 19 | 17 | 12 |    |    |    | 12 |
| 4   | 69  | 58  | 50  | 44  | 60 | 52 | 45 | 40 | 40 | 35 | 31 | 28 | 25 | 23 | 18 | 16 | 15 | 10 |    |    |    | 10 |
| 5   | 63  | 51  | 43  | 38  | 55 | 46 | 39 | 34 | 35 | 30 | 27 | 25 | 22 | 20 | 16 | 14 | 13 | 9  |    |    |    | 9  |
| 6   | 58  | 46  | 38  | 32  | 51 | 41 | 34 | 29 | 32 | 27 | 23 | 23 | 19 | 17 | 15 | 13 | 11 | 8  |    |    |    | 8  |
| 7   | 53  | 41  | 33  | 28  | 47 | 37 | 30 | 25 | 28 | 24 | 20 | 21 | 17 | 15 | 13 | 11 | 10 | 7  |    |    |    | 7  |
| 8   | 49  | 37  | 30  | 24  | 43 | 33 | 27 | 22 | 26 | 21 | 18 | 19 | 15 | 13 | 12 | 10 | 9  | 6  |    |    |    | 6  |
| 9   | 46  | 34  | 26  | 22  | 40 | 30 | 24 | 20 | 23 | 19 | 16 | 17 | 14 | 12 | 11 | 9  | 8  | 5  |    |    |    | 5  |
| 10  | 42  | 31  | 24  | 19  | 38 | 28 | 21 | 17 | 21 | 17 | 14 | 16 | 13 | 10 | 10 | 8  | 7  | 5  |    |    |    | 5  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4009 | 4009 | 4009 |
| 5°  | 4030 | 3859 | 3845 |
| 10° | 4004 | 3746 | 3703 |
| 15° | 3948 | 3624 | 3554 |
| 20° | 3878 | 3495 | 3410 |
| 25° | 3809 | 3371 | 3279 |
| 30° | 3712 | 3242 | 3150 |
| 35° | 3615 | 3118 | 3059 |
| 40° | 3511 | 3013 | 2965 |
| 45° | 3413 | 2919 | 2886 |
| 50° | 3309 | 2833 | 2810 |
| 55° | 3196 | 2741 | 2731 |
| 60° | 3061 | 2646 | 2648 |
| 65° | 2922 | 2534 | 2548 |
| 70° | 2764 | 2415 | 2440 |
| 75° | 2564 | 2299 | 2342 |
| 80° | 2245 | 2177 | 2240 |
| 85° | 1945 | 2073 | 2163 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 23.5   | 0.7       |
| 10°-20°   | 67.5   | 1.9       |
| 20°-30°   | 102.2  | 2.9       |
| 30°-40°   | 124.5  | 3.5       |
| 40°-50°   | 134.0  | 3.8       |
| 50°-60°   | 130.1  | 3.6       |
| 60°-70°   | 113.6  | 3.2       |
| 70°-80°   | 87.5   | 2.4       |
| 80°-90°   | 62.4   | 1.7       |
| 90°-100°  | 99.8   | 2.8       |
| 100°-110° | 213.9  | 6.0       |
| 110°-120° | 334.6  | 9.4       |
| 120°-130° | 425.3  | 11.9      |
| 130°-140° | 469.7  | 13.2      |
| 140°-150° | 456.9  | 12.8      |
| 150°-160° | 382.5  | 10.7      |
| 160°-170° | 253.7  | 7.1       |
| 170°-180° | 88.7   | 2.5       |
| 0°-30°    | 193.2  | 5.4       |
| 0°-40°    | 317.8  | 8.9       |
| 0°-60°    | 581.9  | 16.3      |
| 0°-90°    | 845.4  | 23.7      |
| 90°-120°  | 648.3  | 18.2      |
| 90°-150°  | 2000.3 | 56.0      |
| 90°-180°  | 2725.0 | 76.3      |
| 0°-180°   | 3570.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 248 | 248   | 248 | 248   | 248 |      |
| 5°   | 249 | 248   | 246 | 248   | 248 | 24   |
| 15°  | 238 | 238   | 238 | 241   | 241 | 67   |
| 25°  | 216 | 218   | 222 | 226   | 227 | 99   |
| 35°  | 186 | 192   | 199 | 207   | 210 | 116  |
| 45°  | 153 | 162   | 175 | 186   | 190 | 118  |
| 55°  | 117 | 130   | 149 | 161   | 166 | 105  |
| 65°  | 80  | 98    | 119 | 133   | 138 | 79   |
| 75°  | 44  | 65    | 88  | 102   | 108 | 47   |
| 85°  | 13  | 35    | 58  | 73    | 78  | 14   |
| 90°  | 4   | 35    | 75  | 88    | 93  | 5    |
| 95°  | 44  | 69    | 92  | 105   | 108 | 49   |
| 105° | 172 | 185   | 205 | 218   | 223 | 182  |
| 115° | 318 | 327   | 341 | 351   | 353 | 314  |
| 125° | 461 | 468   | 477 | 484   | 487 | 412  |
| 135° | 596 | 604   | 610 | 616   | 617 | 460  |
| 145° | 722 | 728   | 733 | 736   | 734 | 451  |
| 155° | 826 | 828   | 831 | 834   | 832 | 380  |
| 165° | 899 | 898   | 898 | 903   | 900 | 253  |
| 175° | 935 | 933   | 931 | 936   | 932 | 89   |
| 180° | 937 | 937   | 937 | 937   | 937 |      |



TEST NUMBER: P331271-927

CATALOG NUMBER: SA2XXDIP-C290D925U927-4F0-1E-UDD-D1

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 248.3 | 248.3 | 248.3 | 248.3 | 248.3 | 248.3 | 248.3 | 248.3 | 248.3 | 248.3 | 248.3 |
| 2.5°   | 249.8 | 249.5 | 249.4 | 249.1 | 249.0 | 248.7 | 248.2 | 247.8 | 247.3 | 246.8 | 247.2 |
| 5°     | 249.1 | 248.8 | 248.6 | 248.3 | 248.0 | 247.7 | 247.2 | 246.8 | 246.3 | 245.8 | 246.3 |
| 7.5°   | 246.8 | 246.6 | 246.4 | 246.3 | 246.1 | 245.9 | 245.5 | 245.2 | 244.8 | 244.4 | 245.0 |
| 10°    | 245.1 | 244.9 | 244.8 | 244.6 | 244.5 | 244.2 | 244.0 | 243.8 | 243.5 | 243.3 | 243.9 |
| 12.5°  | 242.2 | 242.2 | 242.2 | 242.3 | 242.3 | 242.2 | 242.1 | 241.9 | 241.7 | 241.5 | 242.2 |
| 15°    | 237.5 | 237.7 | 237.8 | 238.0 | 238.1 | 238.2 | 238.2 | 238.2 | 238.2 | 238.2 | 238.9 |
| 17.5°  | 231.5 | 231.8 | 232.1 | 232.5 | 232.8 | 233.1 | 233.4 | 233.6 | 233.9 | 234.2 | 234.9 |
| 20°    | 227.4 | 227.8 | 228.2 | 228.6 | 229.0 | 229.4 | 229.7 | 230.0 | 230.4 | 230.7 | 231.6 |
| 22.5°  | 223.2 | 223.6 | 224.0 | 224.5 | 225.0 | 225.5 | 225.9 | 226.3 | 226.8 | 227.2 | 228.1 |
| 25°    | 215.9 | 216.5 | 217.1 | 217.6 | 218.2 | 218.8 | 219.5 | 220.2 | 220.9 | 221.7 | 222.6 |
| 27.5°  | 207.3 | 208.2 | 209.1 | 210.0 | 211.0 | 211.8 | 212.6 | 213.5 | 214.4 | 215.2 | 216.4 |
| 30°    | 201.5 | 202.6 | 203.6 | 204.6 | 205.7 | 206.8 | 207.8 | 208.8 | 209.8 | 210.9 | 212.1 |
| 32.5°  | 195.2 | 196.4 | 197.5 | 198.7 | 199.9 | 201.1 | 202.3 | 203.5 | 204.8 | 206.0 | 207.5 |
| 35°    | 186.1 | 187.4 | 188.8 | 190.1 | 191.5 | 192.9 | 194.5 | 196.0 | 197.5 | 199.0 | 200.7 |
| 37.5°  | 176.1 | 177.7 | 179.3 | 180.9 | 182.4 | 184.2 | 186.2 | 188.1 | 190.0 | 192.0 | 194.0 |
| 40°    | 169.5 | 171.3 | 173.0 | 174.8 | 176.5 | 178.5 | 180.6 | 182.8 | 185.0 | 187.1 | 189.2 |
| 42.5°  | 163.2 | 164.9 | 166.7 | 168.4 | 170.2 | 172.3 | 174.8 | 177.3 | 179.7 | 182.2 | 184.5 |
| 45°    | 152.6 | 154.7 | 156.9 | 159.1 | 161.2 | 163.7 | 166.5 | 169.3 | 172.1 | 174.9 | 177.4 |
| 47.5°  | 142.1 | 144.5 | 146.9 | 149.2 | 151.5 | 154.4 | 157.6 | 160.9 | 164.2 | 167.5 | 170.1 |
| 50°    | 135.0 | 137.4 | 139.9 | 142.4 | 144.9 | 147.9 | 151.5 | 155.1 | 158.7 | 162.3 | 165.0 |
| 52.5°  | 128.0 | 130.6 | 133.2 | 135.9 | 138.5 | 141.6 | 145.4 | 149.2 | 153.0 | 156.9 | 159.6 |
| 55°    | 116.9 | 119.9 | 122.7 | 125.6 | 128.5 | 132.0 | 136.2 | 140.3 | 144.5 | 148.6 | 151.5 |
| 57.5°  | 106.0 | 109.2 | 112.5 | 115.7 | 119.0 | 122.7 | 127.0 | 131.2 | 135.5 | 139.7 | 142.8 |
| 60°    | 98.2  | 101.7 | 105.1 | 108.5 | 112.0 | 116.0 | 120.6 | 125.1 | 129.7 | 134.2 | 137.3 |
| 62.5°  | 91.3  | 94.9  | 98.5  | 102.0 | 105.6 | 109.6 | 114.2 | 118.7 | 123.3 | 127.9 | 131.1 |
| 65°    | 79.9  | 83.8  | 87.7  | 91.7  | 95.5  | 99.9  | 104.6 | 109.3 | 114.1 | 118.7 | 122.1 |
| 67.5°  | 69.4  | 73.5  | 77.6  | 81.7  | 85.8  | 90.2  | 95.1  | 99.9  | 104.7 | 109.6 | 112.9 |
| 70°    | 61.9  | 66.1  | 70.2  | 74.4  | 78.5  | 83.1  | 88.0  | 93.0  | 98.0  | 102.9 | 106.4 |
| 72.5°  | 55.0  | 59.3  | 63.5  | 67.8  | 72.2  | 76.8  | 81.8  | 86.8  | 91.9  | 96.9  | 100.3 |
| 75°    | 44.3  | 48.7  | 53.2  | 57.7  | 62.2  | 66.9  | 72.1  | 77.2  | 82.3  | 87.5  | 90.9  |
| 77.5°  | 33.9  | 38.6  | 43.3  | 47.9  | 52.7  | 57.6  | 62.8  | 68.0  | 73.2  | 78.3  | 81.8  |
| 80°    | 27.0  | 31.8  | 36.8  | 41.6  | 46.5  | 51.6  | 56.7  | 61.9  | 67.1  | 72.3  | 75.7  |
| 82.5°  | 21.2  | 26.1  | 30.9  | 35.6  | 40.5  | 45.6  | 50.8  | 56.1  | 61.3  | 66.5  | 69.9  |
| 85°    | 13.0  | 17.9  | 22.9  | 27.8  | 32.8  | 37.8  | 42.9  | 48.1  | 53.2  | 58.3  | 61.6  |
| 87.5°  | 7.2   | 12.4  | 17.6  | 22.8  | 28.0  | 33.5  | 39.4  | 45.3  | 51.2  | 57.0  | 60.3  |
| 90°    | 4.4   | 11.2  | 17.9  | 24.6  | 31.4  | 39.2  | 48.2  | 57.2  | 66.2  | 75.2  | 78.0  |
| 92.5°  | 17.3  | 23.2  | 29.1  | 35.0  | 40.9  | 46.7  | 52.5  | 58.4  | 64.2  | 70.0  | 73.3  |
| 95°    | 44.0  | 49.5  | 55.1  | 60.5  | 66.1  | 71.4  | 76.5  | 81.7  | 86.8  | 92.0  | 95.0  |
| 97.5°  | 77.6  | 82.5  | 87.4  | 92.3  | 97.2  | 102.3 | 107.5 | 112.8 | 118.1 | 123.3 | 126.4 |
| 100°   | 102.9 | 107.3 | 111.6 | 116.0 | 120.4 | 125.1 | 130.1 | 135.1 | 140.1 | 145.0 | 148.1 |
| 102.5° | 129.2 | 133.0 | 136.9 | 140.7 | 144.5 | 148.9 | 153.9 | 159.0 | 164.0 | 169.0 | 172.1 |
| 105°   | 171.7 | 174.6 | 177.4 | 180.3 | 183.2 | 186.8 | 191.3 | 195.8 | 200.3 | 204.9 | 208.0 |
| 107.5° | 215.0 | 217.6 | 220.3 | 222.9 | 225.5 | 228.9 | 232.8 | 236.8 | 240.8 | 244.8 | 247.6 |
| 110°   | 242.6 | 245.2 | 247.9 | 250.5 | 253.2 | 256.4 | 260.4 | 264.3 | 268.2 | 272.1 | 274.7 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 272.9 | 275.3 | 277.7 | 280.1 | 282.5 | 285.5 | 289.1 | 292.7 | 296.3 | 299.8 | 302.0 |
| 115°   | 317.7 | 319.6 | 321.5 | 323.4 | 325.4 | 328.0 | 331.2 | 334.5 | 337.7 | 341.0 | 343.2 |
| 117.5° | 361.9 | 363.8 | 365.8 | 367.8 | 369.8 | 372.0 | 374.3 | 376.7 | 379.0 | 381.4 | 383.3 |
| 120°   | 391.7 | 393.3 | 395.1 | 396.8 | 398.5 | 400.3 | 402.0 | 403.9 | 405.7 | 407.4 | 409.7 |
| 122.5° | 418.8 | 420.6 | 422.5 | 424.3 | 426.0 | 428.0 | 430.0 | 432.1 | 434.0 | 436.1 | 437.8 |
| 125°   | 460.8 | 462.4 | 464.0 | 465.6 | 467.1 | 469.0 | 471.0 | 473.0 | 475.1 | 477.1 | 478.7 |
| 127.5° | 502.1 | 504.0 | 506.0 | 507.9 | 509.8 | 511.4 | 512.9 | 514.3 | 515.8 | 517.2 | 518.6 |
| 130°   | 528.0 | 530.2 | 532.4 | 534.6 | 536.9 | 538.6 | 540.0 | 541.3 | 542.6 | 543.9 | 545.5 |
| 132.5° | 557.1 | 558.9 | 560.7 | 562.4 | 564.3 | 565.9 | 567.2 | 568.5 | 569.9 | 571.2 | 572.4 |
| 135°   | 595.6 | 597.6 | 599.5 | 601.4 | 603.4 | 604.9 | 606.1 | 607.2 | 608.4 | 609.5 | 611.0 |
| 137.5° | 636.6 | 638.2 | 639.8 | 641.3 | 642.9 | 644.0 | 644.8 | 645.6 | 646.5 | 647.3 | 648.6 |
| 140°   | 661.2 | 662.7 | 664.2 | 665.7 | 667.3 | 668.5 | 669.6 | 670.6 | 671.7 | 672.7 | 674.0 |
| 142.5° | 686.6 | 688.1 | 689.6 | 691.1 | 692.6 | 693.6 | 694.3 | 694.9 | 695.5 | 696.2 | 697.3 |
| 145°   | 722.5 | 723.8 | 725.0 | 726.3 | 727.5 | 728.6 | 729.7 | 730.7 | 731.8 | 732.8 | 733.5 |
| 147.5° | 754.9 | 756.5 | 758.0 | 759.4 | 760.9 | 762.0 | 762.7 | 763.3 | 764.1 | 764.8 | 765.2 |
| 150°   | 777.1 | 778.2 | 779.2 | 780.3 | 781.3 | 782.2 | 782.9 | 783.6 | 784.3 | 785.1 | 785.5 |
| 152.5° | 796.7 | 797.8 | 798.8 | 799.9 | 801.0 | 801.9 | 802.7 | 803.6 | 804.4 | 805.3 | 806.0 |
| 155°   | 826.2 | 826.6 | 827.2 | 827.8 | 828.2 | 828.8 | 829.3 | 829.8 | 830.4 | 830.8 | 831.8 |
| 157.5° | 851.3 | 851.6 | 852.0 | 852.3 | 852.7 | 853.0 | 853.3 | 853.7 | 854.0 | 854.3 | 855.5 |
| 160°   | 866.5 | 866.8 | 867.1 | 867.5 | 867.8 | 868.2 | 868.3 | 868.5 | 868.6 | 868.8 | 869.9 |
| 162.5° | 880.4 | 880.4 | 880.5 | 880.6 | 880.7 | 880.7 | 881.0 | 881.1 | 881.3 | 881.5 | 882.6 |
| 165°   | 898.9 | 898.7 | 898.5 | 898.3 | 898.2 | 898.1 | 898.1 | 898.1 | 898.1 | 898.1 | 899.3 |
| 167.5° | 914.3 | 913.9 | 913.3 | 912.8 | 912.3 | 912.0 | 912.0 | 911.9 | 911.9 | 911.8 | 913.1 |
| 170°   | 922.6 | 922.0 | 921.5 | 921.0 | 920.4 | 920.1 | 920.0 | 919.8 | 919.6 | 919.4 | 920.7 |
| 172.5° | 928.3 | 927.7 | 927.2 | 926.7 | 926.1 | 925.8 | 925.7 | 925.4 | 925.3 | 925.1 | 926.4 |
| 175°   | 935.3 | 934.7 | 934.1 | 933.7 | 933.1 | 932.7 | 932.3 | 932.0 | 931.6 | 931.3 | 932.5 |
| 177.5° | 938.1 | 937.6 | 937.2 | 936.8 | 936.4 | 936.0 | 935.7 | 935.5 | 935.2 | 934.9 | 935.7 |
| 180°   | 936.8 | 936.8 | 936.8 | 936.8 | 936.8 | 936.8 | 936.8 | 936.8 | 936.8 | 936.8 | 936.8 |



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**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 248.3 | 248.3 | 248.3 | 248.3 | 248.3 | 248.3 | 248.3 | 248.3 |
| 2.5°   | 247.5 | 247.8 | 248.1 | 248.3 | 248.1 | 248.0 | 247.9 | 247.7 |
| 5°     | 246.8 | 247.2 | 247.7 | 247.9 | 247.8 | 247.7 | 247.6 | 247.6 |
| 7.5°   | 245.6 | 246.1 | 246.8 | 247.0 | 246.9 | 246.8 | 246.8 | 246.7 |
| 10°    | 244.5 | 245.2 | 245.8 | 246.1 | 246.1 | 246.0 | 245.9 | 245.8 |
| 12.5°  | 242.8 | 243.4 | 244.1 | 244.4 | 244.3 | 244.2 | 244.2 | 244.1 |
| 15°    | 239.6 | 240.4 | 241.1 | 241.5 | 241.4 | 241.3 | 241.2 | 241.1 |
| 17.5°  | 235.7 | 236.4 | 237.1 | 237.5 | 237.5 | 237.5 | 237.5 | 237.5 |
| 20°    | 232.4 | 233.3 | 234.2 | 234.6 | 234.6 | 234.6 | 234.6 | 234.6 |
| 22.5°  | 229.0 | 229.9 | 230.8 | 231.2 | 231.4 | 231.5 | 231.6 | 231.8 |
| 25°    | 223.6 | 224.6 | 225.5 | 226.1 | 226.3 | 226.6 | 226.8 | 227.0 |
| 27.5°  | 217.6 | 218.9 | 220.1 | 220.8 | 220.9 | 221.1 | 221.3 | 221.5 |
| 30°    | 213.4 | 214.8 | 216.0 | 216.7 | 217.0 | 217.2 | 217.5 | 217.7 |
| 32.5°  | 208.9 | 210.4 | 211.9 | 212.9 | 213.3 | 213.7 | 214.1 | 214.5 |
| 35°    | 202.6 | 204.3 | 206.0 | 207.2 | 207.8 | 208.3 | 208.9 | 209.5 |
| 37.5°  | 195.9 | 197.9 | 199.9 | 201.1 | 201.7 | 202.3 | 202.9 | 203.4 |
| 40°    | 191.3 | 193.4 | 195.4 | 196.9 | 197.6 | 198.3 | 199.0 | 199.7 |
| 42.5°  | 186.8 | 189.0 | 191.3 | 192.8 | 193.5 | 194.2 | 195.0 | 195.7 |
| 45°    | 179.8 | 182.4 | 184.8 | 186.5 | 187.3 | 188.1 | 188.9 | 189.6 |
| 47.5°  | 172.7 | 175.2 | 177.8 | 179.6 | 180.5 | 181.3 | 182.2 | 183.1 |
| 50°    | 167.7 | 170.5 | 173.2 | 175.0 | 175.9 | 176.7 | 177.6 | 178.5 |
| 52.5°  | 162.4 | 165.2 | 167.9 | 169.8 | 170.8 | 171.7 | 172.7 | 173.6 |
| 55°    | 154.4 | 157.2 | 160.2 | 162.1 | 163.1 | 164.2 | 165.2 | 166.3 |
| 57.5°  | 145.9 | 149.0 | 152.1 | 154.2 | 155.3 | 156.3 | 157.3 | 158.4 |
| 60°    | 140.3 | 143.4 | 146.4 | 148.5 | 149.6 | 150.7 | 151.9 | 153.0 |
| 62.5°  | 134.4 | 137.6 | 140.9 | 143.0 | 144.0 | 145.0 | 146.2 | 147.2 |
| 65°    | 125.3 | 128.6 | 131.9 | 134.0 | 135.1 | 136.1 | 137.1 | 138.2 |
| 67.5°  | 116.1 | 119.5 | 122.8 | 125.0 | 126.0 | 127.1 | 128.3 | 129.4 |
| 70°    | 109.8 | 113.2 | 116.7 | 118.9 | 119.9 | 120.8 | 121.8 | 122.7 |
| 72.5°  | 103.6 | 107.0 | 110.4 | 112.6 | 113.8 | 114.9 | 116.1 | 117.2 |
| 75°    | 94.3  | 97.8  | 101.2 | 103.5 | 104.5 | 105.5 | 106.5 | 107.6 |
| 77.5°  | 85.2  | 88.6  | 92.1  | 94.3  | 95.5  | 96.6  | 97.7  | 98.8  |
| 80°    | 79.1  | 82.4  | 85.8  | 88.0  | 89.1  | 90.2  | 91.3  | 92.4  |
| 82.5°  | 73.3  | 76.7  | 80.0  | 82.2  | 83.3  | 84.4  | 85.4  | 86.4  |
| 85°    | 65.0  | 68.4  | 71.8  | 74.0  | 75.1  | 76.2  | 77.3  | 78.4  |
| 87.5°  | 63.5  | 66.6  | 69.9  | 71.9  | 73.0  | 74.1  | 75.2  | 76.2  |
| 90°    | 80.9  | 83.7  | 86.6  | 88.6  | 89.7  | 90.9  | 92.0  | 93.1  |
| 92.5°  | 76.4  | 79.7  | 82.9  | 85.0  | 86.0  | 87.0  | 87.9  | 89.0  |
| 95°    | 98.1  | 101.1 | 104.2 | 106.0 | 106.5 | 107.2 | 107.8 | 108.4 |
| 97.5°  | 129.3 | 132.2 | 135.2 | 137.1 | 138.0 | 138.9 | 139.8 | 140.8 |
| 100°   | 151.0 | 154.0 | 156.9 | 158.8 | 159.5 | 160.2 | 160.9 | 161.6 |
| 102.5° | 175.1 | 178.1 | 181.2 | 183.0 | 183.7 | 184.4 | 185.1 | 185.8 |
| 105°   | 211.2 | 214.3 | 217.5 | 219.5 | 220.4 | 221.3 | 222.1 | 223.0 |
| 107.5° | 250.4 | 253.3 | 256.1 | 257.5 | 257.6 | 257.7 | 257.8 | 257.8 |
| 110°   | 277.3 | 279.8 | 282.3 | 283.8 | 284.2 | 284.6 | 284.9 | 285.3 |





TEST NUMBER: P331271-927

CATALOG NUMBER: SA2XXDIP-C290D925U927-4F0-1E-UDD-D1

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 304.1 | 306.3 | 308.4 | 309.7 | 310.2 | 310.7 | 311.2 | 311.6 |
| 115°   | 345.4 | 347.6 | 349.9 | 351.2 | 351.5 | 351.9 | 352.2 | 352.6 |
| 117.5° | 385.2 | 387.2 | 389.1 | 390.2 | 390.5 | 390.9 | 391.1 | 391.4 |
| 120°   | 411.9 | 414.2 | 416.4 | 417.7 | 418.0 | 418.4 | 418.7 | 419.1 |
| 122.5° | 439.6 | 441.3 | 443.1 | 444.2 | 444.5 | 444.9 | 445.3 | 445.6 |
| 125°   | 480.4 | 482.0 | 483.6 | 484.7 | 485.2 | 485.8 | 486.3 | 486.9 |
| 127.5° | 519.9 | 521.3 | 522.6 | 523.3 | 523.5 | 523.6 | 523.8 | 523.9 |
| 130°   | 547.1 | 548.6 | 550.2 | 551.0 | 550.9 | 550.8 | 550.7 | 550.7 |
| 132.5° | 573.5 | 574.5 | 575.6 | 576.2 | 576.2 | 576.3 | 576.4 | 576.5 |
| 135°   | 612.5 | 614.0 | 615.5 | 616.3 | 616.5 | 616.6 | 616.7 | 616.8 |
| 137.5° | 650.0 | 651.3 | 652.6 | 653.2 | 653.1 | 652.8 | 652.7 | 652.5 |
| 140°   | 675.3 | 676.5 | 677.8 | 678.3 | 678.1 | 677.9 | 677.7 | 677.5 |
| 142.5° | 698.5 | 699.7 | 700.8 | 701.2 | 700.9 | 700.7 | 700.4 | 700.1 |
| 145°   | 734.2 | 734.8 | 735.5 | 735.6 | 735.4 | 735.1 | 734.7 | 734.4 |
| 147.5° | 765.7 | 766.1 | 766.6 | 766.6 | 766.1 | 765.6 | 765.2 | 764.7 |
| 150°   | 786.1 | 786.6 | 787.1 | 787.1 | 786.6 | 786.1 | 785.5 | 785.1 |
| 152.5° | 806.6 | 807.2 | 807.9 | 807.9 | 807.2 | 806.6 | 806.0 | 805.3 |
| 155°   | 832.7 | 833.5 | 834.4 | 834.6 | 834.0 | 833.5 | 833.0 | 832.4 |
| 157.5° | 856.7 | 857.9 | 859.0 | 859.2 | 858.4 | 857.5 | 856.7 | 855.9 |
| 160°   | 870.9 | 872.0 | 873.1 | 873.2 | 872.5 | 871.8 | 871.1 | 870.4 |
| 162.5° | 883.8 | 885.0 | 886.2 | 886.5 | 885.6 | 884.7 | 883.9 | 883.0 |
| 165°   | 900.6 | 901.7 | 903.0 | 903.2 | 902.3 | 901.4 | 900.6 | 899.7 |
| 167.5° | 914.3 | 915.5 | 916.7 | 916.9 | 916.0 | 915.0 | 914.2 | 913.2 |
| 170°   | 921.9 | 923.1 | 924.3 | 924.4 | 923.4 | 922.3 | 921.2 | 920.2 |
| 172.5° | 927.6 | 928.8 | 930.0 | 930.1 | 929.1 | 928.0 | 926.9 | 925.9 |
| 175°   | 933.7 | 934.9 | 936.2 | 936.3 | 935.3 | 934.1 | 933.1 | 932.1 |
| 177.5° | 936.6 | 937.5 | 938.3 | 938.3 | 937.5 | 936.6 | 935.7 | 934.9 |
| 180°   | 936.8 | 936.8 | 936.8 | 936.8 | 936.8 | 936.8 | 936.8 | 936.8 |

(END OF REPORT)