

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: P331262-927

Luminaire Tested: **SA2XXDIP-C290D725U927-4F0-1E-UDD-D1**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331262-927  
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-C290D725U927-4F0-1E-UDD-D1  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 290 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER  
UPLIGHT 725 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

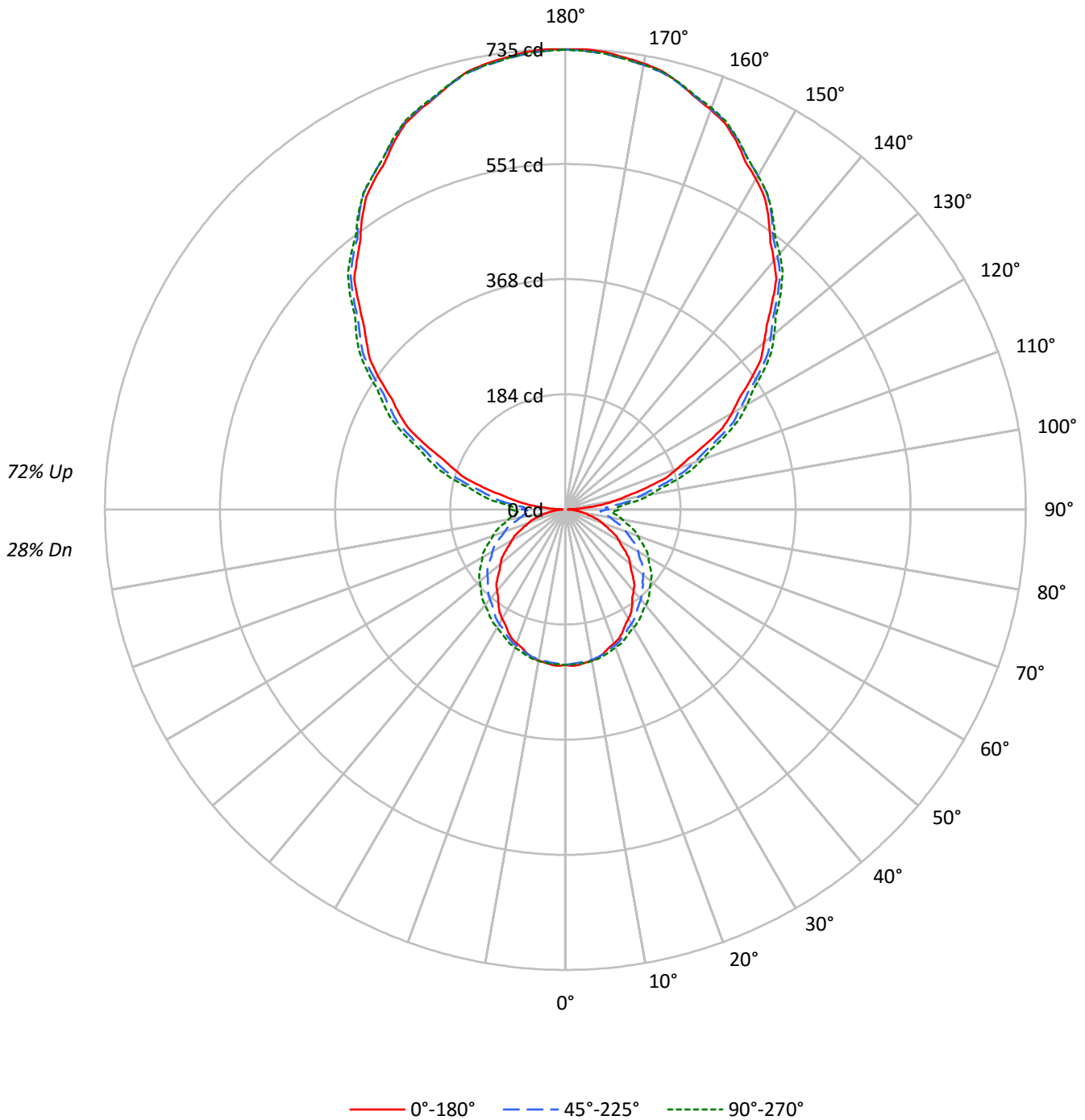
Lumens per Lamp: N/A  
Luminaire Lumens: 3002.0 lumens  
Efficiency: N/A  
Efficacy: 96.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.42  
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.08')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 31.2  
Input Voltage (V): 120  
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: P331262-927

CATALOG NUMBER: SA2XXDIP-C290D725U927-4F0-1E-UDD-D1

### Luminous Intensity Polar Plot





TEST NUMBER: P331262-927

CATALOG NUMBER: SA2XXDIP-C290D725U927-4F0-1E-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 | 50 | 30 | 10 | 0  |   |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |
| 0   | 102 | 102 | 102 | 102 | 91 | 91 | 91 | 91 | 71 | 71 | 71 | 53 | 53 | 53 | 36 | 36 | 36 | 28 |    |    |    |   |
| 1   | 92  | 87  | 83  | 80  | 82 | 78 | 75 | 72 | 61 | 59 | 56 | 45 | 44 | 42 | 30 | 30 | 29 | 22 |    |    |    |   |
| 2   | 83  | 76  | 70  | 64  | 74 | 68 | 63 | 58 | 53 | 49 | 46 | 39 | 37 | 34 | 26 | 25 | 23 | 18 |    |    |    |   |
| 3   | 76  | 66  | 59  | 53  | 67 | 59 | 53 | 48 | 46 | 42 | 38 | 34 | 31 | 29 | 23 | 21 | 20 | 15 |    |    |    |   |
| 4   | 69  | 58  | 51  | 44  | 61 | 52 | 46 | 40 | 41 | 36 | 32 | 30 | 27 | 24 | 20 | 18 | 17 | 12 |    |    |    |   |
| 5   | 63  | 52  | 44  | 38  | 56 | 46 | 39 | 34 | 36 | 31 | 27 | 27 | 24 | 21 | 18 | 16 | 14 | 11 |    |    |    |   |
| 6   | 58  | 46  | 38  | 32  | 52 | 41 | 35 | 29 | 33 | 27 | 24 | 24 | 21 | 18 | 16 | 14 | 12 | 9  |    |    |    |   |
| 7   | 54  | 41  | 34  | 28  | 48 | 37 | 30 | 26 | 29 | 24 | 21 | 22 | 18 | 16 | 15 | 13 | 11 | 8  |    |    |    |   |
| 8   | 50  | 37  | 30  | 25  | 44 | 34 | 27 | 22 | 27 | 22 | 18 | 20 | 16 | 14 | 14 | 11 | 10 | 7  |    |    |    |   |
| 9   | 46  | 34  | 27  | 22  | 41 | 31 | 24 | 20 | 24 | 19 | 16 | 18 | 15 | 12 | 13 | 10 | 9  | 6  |    |    |    |   |
| 10  | 43  | 31  | 24  | 19  | 38 | 28 | 22 | 18 | 22 | 18 | 14 | 17 | 13 | 11 | 12 | 9  | 8  | 6  |    |    |    |   |

**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   | 0.8       |
| 10°-20°   | 67.5   | 2.2       |
| 20°-30°   | 102.2  | 3.4       |
| 30°-40°   | 124.5  | 4.1       |
| 40°-50°   | 134.0  | 4.5       |
| 50°-60°   | 130.1  | 4.3       |
| 60°-70°   | 113.6  | 3.8       |
| 70°-80°   | 87.5   | 2.9       |
| 80°-90°   | 61.6   | 2.1       |
| 90°-100°  | 86.9   | 2.9       |
| 100°-110° | 173.9  | 5.8       |
| 110°-120° | 266.3  | 8.9       |
| 120°-130° | 335.5  | 11.2      |
| 130°-140° | 368.9  | 12.3      |
| 140°-150° | 358.0  | 11.9      |
| 150°-160° | 299.6  | 10.0      |
| 160°-170° | 198.7  | 6.6       |
| 170°-180° | 69.5   | 2.3       |
| 0°-30°    | 193.2  | 6.4       |
| 0°-40°    | 317.8  | 10.6      |
| 0°-60°    | 581.9  | 19.4      |
| 0°-90°    | 844.5  | 28.1      |
| 90°-120°  | 527.2  | 17.6      |
| 90°-150°  | 1589.6 | 53.0      |
| 90°-180°  | 2157.0 | 71.9      |
| 0°-180°   | 3002.0 | 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   | 33    | 69  | 82    | 87  | 4    |
| 95°  | 35  | 58    | 81  | 94    | 98  | 39   |
| 105° | 135 | 148   | 167 | 180   | 185 | 143  |
| 115° | 249 | 257   | 272 | 282   | 284 | 246  |
| 125° | 361 | 367   | 376 | 384   | 387 | 323  |
| 135° | 467 | 473   | 478 | 485   | 486 | 360  |
| 145° | 566 | 570   | 574 | 577   | 576 | 353  |
| 155° | 647 | 649   | 651 | 654   | 652 | 298  |
| 165° | 704 | 703   | 703 | 707   | 705 | 198  |
| 175° | 732 | 731   | 729 | 733   | 730 | 70   |
| 180° | 734 | 734   | 734 | 734   | 734 |      |



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CATALOG NUMBER: SA2XXDIP-C290D725U927-4F0-1E-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   | 12.3  | 17.3  | 22.5  | 27.6  | 33.0  | 38.7  | 44.4  | 50.1  | 55.8  | 59.1  |
| 90°    | 4.2   | 10.5  | 16.8  | 23.1  | 29.4  | 36.6  | 44.8  | 52.9  | 61.0  | 69.2  | 72.1  |
| 92.5°  | 14.3  | 19.9  | 25.4  | 30.9  | 36.4  | 42.1  | 47.7  | 53.3  | 58.9  | 64.6  | 67.8  |
| 95°    | 35.1  | 40.2  | 45.3  | 50.5  | 55.6  | 60.7  | 65.8  | 70.9  | 76.0  | 81.0  | 84.1  |
| 97.5°  | 61.3  | 65.9  | 70.4  | 75.0  | 79.5  | 84.4  | 89.5  | 94.7  | 99.8  | 104.9 | 107.9 |
| 100°   | 81.1  | 85.2  | 89.3  | 93.3  | 97.4  | 101.9 | 106.8 | 111.6 | 116.5 | 121.4 | 124.4 |
| 102.5° | 101.6 | 105.3 | 108.8 | 112.4 | 116.0 | 120.3 | 125.1 | 130.0 | 134.8 | 139.7 | 142.8 |
| 105°   | 134.9 | 137.7 | 140.4 | 143.1 | 145.8 | 149.4 | 153.8 | 158.3 | 162.7 | 167.2 | 170.2 |
| 107.5° | 168.8 | 171.3 | 173.7 | 176.2 | 178.6 | 181.9 | 185.8 | 189.8 | 193.8 | 197.8 | 200.6 |
| 110°   | 190.3 | 192.7 | 195.1 | 197.6 | 200.0 | 203.2 | 207.1 | 211.0 | 214.9 | 218.9 | 221.4 |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 214.0 | 216.3 | 218.4 | 220.5 | 222.8 | 225.6 | 229.3 | 232.9 | 236.5 | 240.1 | 242.3 |
| 115°   | 249.1 | 250.8 | 252.5 | 254.2 | 256.0 | 258.5 | 261.8 | 265.1 | 268.4 | 271.7 | 274.0 |
| 117.5° | 283.7 | 285.3 | 287.0 | 288.8 | 290.4 | 292.5 | 295.1 | 297.6 | 300.2 | 302.7 | 304.8 |
| 120°   | 307.0 | 308.4 | 309.8 | 311.2 | 312.7 | 314.4 | 316.5 | 318.6 | 320.7 | 322.8 | 325.0 |
| 122.5° | 328.3 | 329.7 | 331.1 | 332.6 | 334.1 | 335.9 | 338.1 | 340.4 | 342.6 | 344.8 | 346.7 |
| 125°   | 361.1 | 362.3 | 363.6 | 364.8 | 366.1 | 367.7 | 369.9 | 372.0 | 374.1 | 376.4 | 378.1 |
| 127.5° | 393.4 | 394.9 | 396.4 | 397.9 | 399.3 | 400.9 | 402.5 | 404.0 | 405.6 | 407.2 | 408.7 |
| 130°   | 413.8 | 415.4 | 417.2 | 418.8 | 420.6 | 422.2 | 423.5 | 424.9 | 426.4 | 427.7 | 429.4 |
| 132.5° | 436.5 | 437.9 | 439.3 | 440.6 | 442.0 | 443.4 | 444.7 | 446.1 | 447.4 | 448.8 | 450.0 |
| 135°   | 466.6 | 468.1 | 469.7 | 471.2 | 472.7 | 474.0 | 475.1 | 476.1 | 477.2 | 478.2 | 479.8 |
| 137.5° | 498.7 | 499.9 | 501.1 | 502.3 | 503.6 | 504.5 | 505.3 | 506.0 | 506.7 | 507.4 | 508.7 |
| 140°   | 518.0 | 519.2 | 520.3 | 521.5 | 522.7 | 523.6 | 524.5 | 525.4 | 526.2 | 527.0 | 528.3 |
| 142.5° | 537.8 | 539.0 | 540.1 | 541.3 | 542.5 | 543.3 | 543.8 | 544.3 | 544.8 | 545.3 | 546.4 |
| 145°   | 565.9 | 566.9 | 567.9 | 568.9 | 569.8 | 570.7 | 571.6 | 572.4 | 573.1 | 574.0 | 574.6 |
| 147.5° | 591.4 | 592.5 | 593.7 | 594.8 | 596.0 | 596.8 | 597.4 | 597.9 | 598.5 | 599.0 | 599.4 |
| 150°   | 608.7 | 609.5 | 610.3 | 611.2 | 612.0 | 612.7 | 613.2 | 613.8 | 614.3 | 614.9 | 615.3 |
| 152.5° | 624.0 | 624.9 | 625.7 | 626.5 | 627.3 | 628.0 | 628.8 | 629.4 | 630.0 | 630.7 | 631.2 |
| 155°   | 647.1 | 647.5 | 647.9 | 648.3 | 648.7 | 649.1 | 649.5 | 650.0 | 650.4 | 650.8 | 651.5 |
| 157.5° | 666.8 | 667.0 | 667.3 | 667.6 | 667.9 | 668.1 | 668.4 | 668.6 | 668.8 | 669.1 | 670.0 |
| 160°   | 678.7 | 678.9 | 679.2 | 679.5 | 679.8 | 679.9 | 680.1 | 680.2 | 680.4 | 680.5 | 681.4 |
| 162.5° | 689.5 | 689.6 | 689.7 | 689.7 | 689.8 | 689.8 | 690.0 | 690.1 | 690.3 | 690.4 | 691.3 |
| 165°   | 704.0 | 703.9 | 703.8 | 703.6 | 703.5 | 703.4 | 703.4 | 703.4 | 703.4 | 703.4 | 704.4 |
| 167.5° | 716.1 | 715.7 | 715.3 | 714.9 | 714.5 | 714.3 | 714.3 | 714.2 | 714.2 | 714.2 | 715.2 |
| 170°   | 722.6 | 722.2 | 721.8 | 721.4 | 721.0 | 720.6 | 720.6 | 720.4 | 720.3 | 720.1 | 721.1 |
| 172.5° | 727.1 | 726.7 | 726.3 | 725.8 | 725.4 | 725.2 | 725.0 | 724.8 | 724.8 | 724.6 | 725.6 |
| 175°   | 732.5 | 732.1 | 731.7 | 731.3 | 730.9 | 730.6 | 730.2 | 730.0 | 729.7 | 729.4 | 730.4 |
| 177.5° | 734.7 | 734.4 | 734.1 | 733.7 | 733.4 | 733.2 | 732.9 | 732.7 | 732.5 | 732.3 | 732.9 |
| 180°   | 733.7 | 733.7 | 733.7 | 733.7 | 733.7 | 733.7 | 733.7 | 733.7 | 733.7 | 733.7 | 733.7 |



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CATALOG NUMBER: SA2XXDIP-C290D725U927-4F0-1E-UDD-D1

**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°  | 62.3  | 65.5  | 68.7  | 70.8  | 71.9  | 73.0  | 74.0  | 75.0  |
| 90°    | 75.0  | 78.0  | 80.9  | 82.9  | 84.0  | 85.1  | 86.2  | 87.3  |
| 92.5°  | 71.0  | 74.1  | 77.4  | 79.5  | 80.4  | 81.4  | 82.4  | 83.4  |
| 95°    | 87.1  | 90.2  | 93.2  | 95.1  | 95.7  | 96.4  | 97.1  | 97.8  |
| 97.5°  | 110.8 | 113.8 | 116.8 | 118.7 | 119.6 | 120.5 | 121.4 | 122.4 |
| 100°   | 127.4 | 130.3 | 133.2 | 135.1 | 135.9 | 136.6 | 137.4 | 138.1 |
| 102.5° | 145.8 | 148.8 | 151.8 | 153.6 | 154.4 | 155.1 | 155.8 | 156.6 |
| 105°   | 173.3 | 176.4 | 179.5 | 181.4 | 182.4 | 183.2 | 184.1 | 185.0 |
| 107.5° | 203.4 | 206.2 | 209.0 | 210.5 | 210.7 | 211.0 | 211.2 | 211.5 |
| 110°   | 223.9 | 226.5 | 229.1 | 230.6 | 231.1 | 231.6 | 232.0 | 232.4 |





TEST NUMBER: P331262-927

CATALOG NUMBER: SA2XXDIP-C290D725U927-4F0-1E-UDD-D1

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 244.5 | 246.8 | 249.1 | 250.4 | 251.0 | 251.6 | 252.2 | 252.7 |
| 115°   | 276.2 | 278.5 | 280.8 | 282.2 | 282.7 | 283.1 | 283.5 | 284.0 |
| 117.5° | 306.8 | 308.9 | 310.9 | 312.1 | 312.5 | 312.9 | 313.3 | 313.7 |
| 120°   | 327.3 | 329.5 | 331.8 | 333.1 | 333.6 | 334.1 | 334.5 | 335.0 |
| 122.5° | 348.6 | 350.4 | 352.2 | 353.4 | 353.8 | 354.3 | 354.7 | 355.1 |
| 125°   | 379.9 | 381.6 | 383.3 | 384.4 | 385.1 | 385.6 | 386.2 | 386.8 |
| 127.5° | 410.1 | 411.6 | 413.1 | 414.0 | 414.2 | 414.5 | 414.8 | 415.0 |
| 130°   | 431.0 | 432.7 | 434.3 | 435.1 | 435.3 | 435.4 | 435.5 | 435.5 |
| 132.5° | 451.3 | 452.6 | 453.8 | 454.6 | 454.7 | 455.0 | 455.1 | 455.3 |
| 135°   | 481.3 | 482.9 | 484.4 | 485.3 | 485.5 | 485.8 | 486.0 | 486.2 |
| 137.5° | 510.1 | 511.5 | 512.9 | 513.5 | 513.5 | 513.5 | 513.5 | 513.5 |
| 140°   | 529.6 | 530.9 | 532.2 | 532.7 | 532.7 | 532.7 | 532.6 | 532.5 |
| 142.5° | 547.6 | 548.7 | 549.9 | 550.3 | 550.2 | 550.1 | 549.9 | 549.8 |
| 145°   | 575.2 | 575.8 | 576.5 | 576.7 | 576.6 | 576.4 | 576.2 | 576.1 |
| 147.5° | 599.8 | 600.1 | 600.5 | 600.5 | 600.2 | 599.8 | 599.5 | 599.2 |
| 150°   | 615.7 | 616.1 | 616.6 | 616.6 | 616.1 | 615.7 | 615.3 | 614.9 |
| 152.5° | 631.8 | 632.3 | 632.8 | 632.8 | 632.3 | 631.8 | 631.2 | 630.7 |
| 155°   | 652.1 | 652.8 | 653.6 | 653.7 | 653.2 | 652.8 | 652.4 | 652.0 |
| 157.5° | 671.0 | 671.9 | 672.9 | 673.0 | 672.3 | 671.7 | 671.0 | 670.3 |
| 160°   | 682.1 | 683.0 | 683.8 | 684.0 | 683.4 | 682.9 | 682.3 | 681.8 |
| 162.5° | 692.3 | 693.2 | 694.2 | 694.3 | 693.6 | 693.0 | 692.3 | 691.7 |
| 165°   | 705.4 | 706.3 | 707.3 | 707.4 | 706.7 | 706.0 | 705.4 | 704.6 |
| 167.5° | 716.1 | 717.1 | 718.0 | 718.2 | 717.5 | 716.8 | 716.1 | 715.3 |
| 170°   | 722.1 | 723.0 | 724.0 | 724.1 | 723.3 | 722.4 | 721.6 | 720.7 |
| 172.5° | 726.5 | 727.5 | 728.4 | 728.5 | 727.7 | 726.8 | 726.0 | 725.2 |
| 175°   | 731.3 | 732.3 | 733.2 | 733.3 | 732.5 | 731.7 | 730.9 | 730.1 |
| 177.5° | 733.6 | 734.3 | 734.9 | 734.9 | 734.3 | 733.6 | 732.9 | 732.3 |
| 180°   | 733.7 | 733.7 | 733.7 | 733.7 | 733.7 | 733.7 | 733.7 | 733.7 |

(END OF REPORT)