

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: FAIL-SAFE

Report Number: P835171

Luminaire Tested: **ORLG-24-2-INS-ASY2-LD4-1LO-27-120-EDD**

Issue Date: 5/16/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P835171  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 5/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: ORLG-24-2-INS-ASY2-LD4-1LO-27-120-EDD  
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2  
Light Source: 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

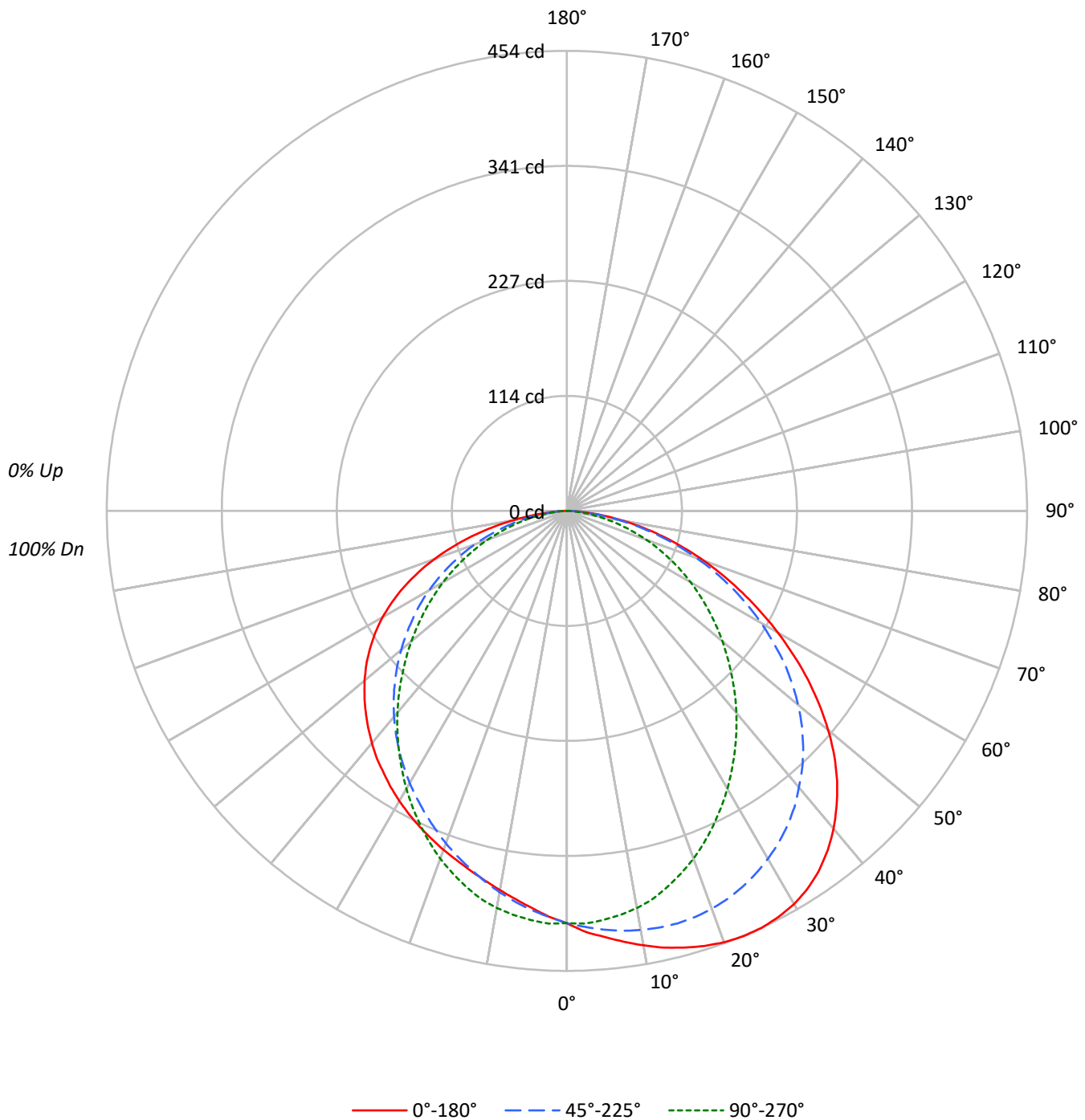
Lumens per Lamp: N/A  
Luminaire Lumens: 1196.8 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Spacing Criteria (0/90/45): 1.41 / 1.17 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.7  
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: 28.75 FT

TEST NUMBER: P835171

CATALOG NUMBER: ORLG-24-2-INS-ASY2-LD4-1LO-27-120-EDD

### Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835171

CATALOG NUMBER: ORLG-24-2-INS-ASY2-LD4-1LO-27-120-EDD

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |
| RC  | 80  |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |     |     | 10  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 94  | 97  | 94  | 91  | 94  | 91  | 88  | 90  | 88  | 86  | 86  | 86  | 84  |
| 2   | 99  | 90  | 84  | 78  | 96  | 89  | 82  | 77  | 85  | 80  | 75  | 82  | 77  | 73  | 79  | 75  | 72  | 72  | 72  | 70  |
| 3   | 90  | 79  | 71  | 65  | 87  | 78  | 70  | 64  | 75  | 68  | 63  | 72  | 66  | 62  | 69  | 65  | 61  | 61  | 61  | 58  |
| 4   | 82  | 70  | 61  | 55  | 80  | 69  | 61  | 54  | 66  | 59  | 53  | 64  | 58  | 53  | 62  | 56  | 52  | 52  | 52  | 50  |
| 5   | 76  | 63  | 54  | 47  | 73  | 61  | 53  | 47  | 59  | 52  | 46  | 57  | 51  | 46  | 55  | 50  | 45  | 45  | 45  | 43  |
| 6   | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 41  | 54  | 46  | 40  | 52  | 45  | 40  | 50  | 44  | 40  | 40  | 40  | 37  |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 36  | 47  | 40  | 35  | 46  | 40  | 35  | 35  | 35  | 33  |
| 8   | 60  | 46  | 38  | 32  | 59  | 46  | 38  | 32  | 44  | 37  | 32  | 43  | 36  | 31  | 42  | 36  | 31  | 31  | 31  | 29  |
| 9   | 56  | 43  | 34  | 29  | 55  | 42  | 34  | 29  | 41  | 34  | 29  | 40  | 33  | 28  | 39  | 33  | 28  | 28  | 28  | 26  |
| 10  | 53  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 31  | 26  | 37  | 30  | 26  | 36  | 30  | 26  | 26  | 26  | 24  |

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

|     | 0°   | 90°  | 180° |
|-----|------|------|------|
| 0°  | 1095 | 1095 | 1095 |
| 5°  | 1140 | 1095 | 1063 |
| 10° | 1190 | 1087 | 1038 |
| 15° | 1243 | 1070 | 1024 |
| 20° | 1298 | 1046 | 1019 |
| 25° | 1349 | 1016 | 1021 |
| 30° | 1392 | 984  | 1027 |
| 35° | 1424 | 949  | 1036 |
| 40° | 1439 | 914  | 1051 |
| 45° | 1435 | 875  | 1068 |
| 50° | 1409 | 839  | 1091 |
| 55° | 1361 | 800  | 1113 |
| 60° | 1295 | 759  | 1130 |
| 65° | 1216 | 713  | 1128 |
| 70° | 1131 | 657  | 1095 |
| 75° | 1027 | 577  | 1010 |
| 80° | 882  | 474  | 852  |
| 85° | 673  | 324  | 584  |

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P835171

CATALOG NUMBER: ORLG-24-2-INS-ASY2-LD4-1LO-27-120-EDD

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 38.6   | 3.2       |
| 10°-20°   | 111.4  | 9.3       |
| 20°-30°   | 170.7  | 14.3      |
| 30°-40°   | 208.3  | 17.4      |
| 40°-50°   | 217.9  | 18.2      |
| 50°-60°   | 197.2  | 16.5      |
| 60°-70°   | 149.3  | 12.5      |
| 70°-80°   | 83.2   | 7.0       |
| 80°-90°   | 20.1   | 1.7       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 320.7  | 26.8      |
| 0°-40°    | 529.1  | 44.2      |
| 0°-60°    | 944.1  | 78.9      |
| 0°-90°    | 1196.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1196.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 407 | 407 | 407 | 407  | 407  |      |
| 5°  | 422 | 415 | 406 | 396  | 394  | 41   |
| 15° | 446 | 421 | 384 | 366  | 367  | 127  |
| 25° | 454 | 410 | 342 | 330  | 344  | 210  |
| 35° | 434 | 379 | 289 | 288  | 315  | 271  |
| 45° | 377 | 330 | 230 | 240  | 281  | 290  |
| 55° | 290 | 262 | 170 | 186  | 237  | 259  |
| 65° | 191 | 180 | 112 | 127  | 177  | 189  |
| 75° | 99  | 93  | 56  | 66   | 97   | 105  |
| 85° | 22  | 19  | 10  | 14   | 19   | 26   |
| 90° | 0   | 0   | 0   | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 10°   | 20°   | 22.5° | 30°   | 40°   | 45°   | 50°   | 60°   | 67.5° | 70°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 406.8 | 406.8 | 406.8 | 406.8 | 406.8 | 406.8 | 406.8 | 406.8 | 406.8 | 406.8 | 406.8 |
| 2.5°  | 415.8 | 413.9 | 412.3 | 412.9 | 413.3 | 412.0 | 410.9 | 411.1 | 410.1 | 412.1 | 407.3 |
| 5°    | 422.0 | 420.2 | 418.3 | 419.0 | 418.3 | 416.5 | 414.9 | 414.5 | 411.7 | 412.8 | 407.9 |
| 7.5°  | 428.8 | 426.9 | 424.1 | 424.9 | 423.4 | 419.9 | 418.0 | 416.8 | 412.5 | 412.5 | 407.1 |
| 10°   | 435.4 | 433.7 | 430.0 | 430.5 | 427.7 | 423.1 | 420.0 | 418.4 | 412.3 | 411.4 | 405.8 |
| 12.5° | 441.5 | 439.2 | 435.2 | 435.5 | 431.5 | 425.3 | 421.3 | 419.0 | 411.0 | 408.4 | 402.8 |
| 15°   | 446.2 | 444.0 | 439.2 | 439.1 | 434.0 | 426.0 | 421.4 | 418.2 | 408.1 | 403.9 | 398.1 |
| 17.5° | 450.2 | 448.2 | 442.2 | 442.1 | 435.8 | 425.7 | 420.3 | 416.3 | 403.8 | 398.7 | 392.3 |
| 20°   | 453.1 | 451.0 | 444.4 | 443.8 | 436.3 | 424.4 | 417.9 | 412.8 | 398.2 | 392.1 | 385.0 |
| 22.5° | 454.4 | 452.4 | 444.8 | 443.9 | 435.2 | 421.7 | 414.4 | 408.4 | 391.8 | 383.8 | 376.4 |
| 25°   | 454.2 | 452.2 | 443.7 | 442.8 | 433.2 | 417.7 | 409.5 | 402.7 | 383.7 | 374.3 | 367.0 |
| 27.5° | 451.9 | 450.4 | 441.4 | 440.3 | 429.4 | 412.3 | 403.6 | 396.0 | 374.7 | 364.3 | 356.3 |
| 30°   | 448.1 | 447.0 | 437.4 | 436.4 | 424.8 | 406.3 | 396.6 | 387.9 | 365.1 | 353.2 | 345.2 |
| 32.5° | 442.0 | 440.9 | 431.3 | 430.3 | 418.6 | 398.7 | 388.5 | 379.5 | 354.5 | 341.4 | 333.4 |
| 35°   | 433.5 | 432.9 | 423.6 | 422.5 | 410.6 | 390.0 | 379.2 | 369.3 | 343.4 | 328.7 | 321.0 |
| 37.5° | 422.4 | 422.4 | 413.4 | 412.3 | 400.6 | 379.3 | 368.7 | 358.2 | 331.0 | 315.3 | 307.8 |
| 40°   | 409.5 | 410.7 | 401.5 | 400.4 | 389.1 | 367.8 | 356.2 | 345.2 | 317.6 | 301.3 | 293.9 |
| 42.5° | 394.0 | 395.1 | 387.5 | 386.4 | 375.8 | 354.6 | 343.8 | 331.8 | 303.5 | 287.0 | 279.3 |
| 45°   | 377.0 | 378.4 | 371.5 | 370.7 | 360.9 | 340.1 | 329.7 | 317.6 | 288.8 | 272.0 | 264.6 |
| 47.5° | 357.9 | 359.8 | 353.8 | 353.4 | 344.2 | 325.2 | 314.5 | 302.1 | 273.5 | 256.5 | 249.4 |
| 50°   | 336.6 | 339.3 | 334.4 | 334.4 | 326.2 | 307.2 | 297.9 | 285.6 | 257.4 | 240.5 | 233.5 |
| 52.5° | 313.7 | 317.1 | 313.5 | 313.6 | 306.9 | 289.9 | 280.2 | 268.1 | 240.7 | 224.0 | 217.6 |
| 55°   | 290.1 | 293.4 | 291.1 | 291.4 | 286.2 | 270.7 | 261.9 | 249.9 | 223.7 | 207.4 | 201.3 |
| 57.5° | 265.4 | 268.9 | 267.4 | 268.1 | 264.5 | 250.6 | 241.4 | 230.9 | 206.0 | 190.0 | 184.8 |
| 60°   | 240.6 | 243.9 | 243.1 | 244.1 | 241.8 | 229.8 | 221.4 | 210.6 | 188.4 | 172.9 | 168.3 |
| 62.5° | 215.5 | 218.6 | 218.4 | 219.5 | 218.2 | 208.3 | 200.8 | 191.6 | 170.0 | 155.8 | 151.6 |
| 65°   | 190.9 | 193.6 | 193.4 | 194.6 | 194.3 | 186.3 | 179.5 | 171.1 | 151.7 | 138.6 | 135.0 |
| 67.5° | 167.1 | 169.3 | 168.7 | 170.0 | 170.4 | 164.0 | 158.1 | 150.6 | 134.3 | 121.6 | 118.5 |
| 70°   | 143.8 | 145.3 | 144.5 | 145.4 | 146.2 | 141.4 | 136.4 | 129.7 | 115.7 | 104.5 | 101.9 |
| 72.5° | 120.9 | 122.0 | 120.8 | 121.7 | 122.4 | 118.9 | 114.8 | 109.0 | 97.4  | 87.7  | 85.5  |
| 75°   | 98.8  | 100.3 | 97.7  | 98.6  | 99.2  | 95.7  | 93.3  | 88.6  | 78.5  | 71.1  | 69.6  |
| 77.5° | 77.4  | 78.3  | 76.8  | 76.5  | 76.8  | 74.3  | 72.5  | 68.8  | 61.3  | 55.1  | 54.2  |
| 80°   | 56.9  | 57.4  | 56.0  | 55.7  | 55.9  | 54.2  | 52.7  | 50.1  | 44.7  | 40.1  | 39.8  |
| 82.5° | 38.2  | 38.4  | 37.2  | 36.8  | 37.0  | 36.5  | 34.8  | 32.9  | 30.4  | 26.5  | 26.4  |
| 85°   | 21.8  | 21.8  | 20.9  | 20.5  | 20.7  | 19.8  | 19.2  | 18.2  | 17.3  | 14.6  | 14.8  |
| 87.5° | 8.0   | 8.0   | 7.6   | 7.5   | 8.4   | 7.4   | 7.1   | 6.7   | 6.9   | 5.5   | 5.9   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

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TEST NUMBER: P835171

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**CANDELA DISTRIBUTION (continued):**

|       | 80°   | 90°   | 100°  | 110°  | 112.5° | 120°  | 130°  | 135°  | 140°  | 150°  | 157.5° |
|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|--------|
| 0°    | 406.8 | 406.8 | 406.8 | 406.8 | 406.8  | 406.8 | 406.8 | 406.8 | 406.8 | 406.8 | 406.8  |
| 2.5°  | 408.6 | 407.7 | 406.9 | 404.2 | 405.3  | 402.5 | 402.3 | 401.2 | 400.4 | 398.9 | 400.9  |
| 5°    | 407.3 | 405.5 | 403.2 | 399.9 | 400.9  | 397.5 | 396.8 | 395.6 | 394.5 | 392.5 | 394.0  |
| 7.5°  | 405.2 | 402.2 | 398.6 | 394.4 | 395.7  | 391.6 | 390.5 | 389.2 | 388.3 | 386.0 | 387.3  |
| 10°   | 402.0 | 397.9 | 393.6 | 388.5 | 389.5  | 385.0 | 383.6 | 382.2 | 381.4 | 379.4 | 380.7  |
| 12.5° | 397.2 | 392.2 | 386.4 | 380.9 | 381.9  | 377.7 | 375.9 | 374.4 | 374.1 | 372.4 | 374.0  |
| 15°   | 391.0 | 384.0 | 378.0 | 372.2 | 373.4  | 368.4 | 367.6 | 366.1 | 366.6 | 365.4 | 367.4  |
| 17.5° | 383.1 | 375.0 | 368.5 | 362.2 | 363.5  | 359.3 | 358.6 | 357.9 | 358.4 | 358.2 | 360.3  |
| 20°   | 374.2 | 365.3 | 357.8 | 351.6 | 352.3  | 349.0 | 349.3 | 349.1 | 350.0 | 351.0 | 353.9  |
| 22.5° | 364.2 | 354.1 | 346.3 | 339.9 | 341.0  | 338.1 | 339.4 | 339.7 | 341.2 | 343.4 | 347.2  |
| 25°   | 352.9 | 342.1 | 333.9 | 327.9 | 328.9  | 327.0 | 329.1 | 330.0 | 332.4 | 336.2 | 340.0  |
| 27.5° | 341.0 | 329.7 | 320.9 | 315.2 | 317.0  | 315.2 | 318.4 | 320.1 | 323.8 | 327.9 | 332.6  |
| 30°   | 328.5 | 316.7 | 307.7 | 302.5 | 304.3  | 302.6 | 307.8 | 310.2 | 313.8 | 319.4 | 325.0  |
| 32.5° | 315.3 | 302.9 | 294.1 | 290.1 | 291.3  | 291.1 | 296.8 | 299.5 | 304.4 | 310.8 | 316.8  |
| 35°   | 301.8 | 288.8 | 279.9 | 276.6 | 278.1  | 278.4 | 285.4 | 288.5 | 293.8 | 301.6 | 308.0  |
| 37.5° | 287.9 | 274.6 | 265.9 | 263.1 | 264.5  | 265.8 | 273.9 | 277.0 | 283.1 | 291.5 | 298.5  |
| 40°   | 273.4 | 260.1 | 251.6 | 249.4 | 250.7  | 252.1 | 260.9 | 265.2 | 271.8 | 280.9 | 288.6  |
| 42.5° | 258.7 | 245.4 | 237.2 | 235.6 | 236.9  | 239.7 | 249.0 | 253.0 | 259.9 | 270.1 | 278.5  |
| 45°   | 243.8 | 230.0 | 222.8 | 221.5 | 222.9  | 226.1 | 235.3 | 240.1 | 247.5 | 258.6 | 267.7  |
| 47.5° | 228.6 | 215.2 | 208.4 | 207.6 | 209.0  | 212.5 | 222.7 | 227.0 | 234.9 | 246.7 | 256.5  |
| 50°   | 213.3 | 200.3 | 193.7 | 193.4 | 194.8  | 198.6 | 208.3 | 213.4 | 221.5 | 234.8 | 244.8  |
| 52.5° | 197.9 | 185.3 | 179.4 | 179.4 | 180.6  | 184.5 | 194.3 | 199.6 | 208.0 | 222.0 | 233.1  |
| 55°   | 182.4 | 170.5 | 164.8 | 165.2 | 167.0  | 170.4 | 179.9 | 185.5 | 194.0 | 208.4 | 220.2  |
| 57.5° | 166.9 | 155.6 | 150.5 | 151.1 | 152.8  | 156.2 | 165.5 | 171.8 | 179.5 | 194.5 | 206.5  |
| 60°   | 151.6 | 141.0 | 136.4 | 137.1 | 138.6  | 142.0 | 151.7 | 157.1 | 164.8 | 180.1 | 192.1  |
| 62.5° | 136.1 | 126.5 | 122.2 | 123.1 | 124.4  | 127.8 | 137.0 | 142.2 | 149.8 | 164.8 | 176.9  |
| 65°   | 120.9 | 111.9 | 108.2 | 109.1 | 110.4  | 113.5 | 122.1 | 127.2 | 134.4 | 149.0 | 160.6  |
| 67.5° | 105.7 | 97.6  | 94.5  | 95.4  | 96.4   | 99.3  | 106.4 | 112.0 | 118.7 | 132.7 | 143.6  |
| 70°   | 90.8  | 83.5  | 80.8  | 81.7  | 82.6   | 85.3  | 91.5  | 96.6  | 102.8 | 115.6 | 125.7  |
| 72.5° | 76.0  | 68.9  | 67.6  | 68.4  | 69.1   | 71.4  | 77.4  | 81.4  | 86.8  | 98.2  | 106.9  |
| 75°   | 61.6  | 55.5  | 54.6  | 55.4  | 56.0   | 57.8  | 62.8  | 66.3  | 70.8  | 80.7  | 87.8   |
| 77.5° | 47.8  | 42.6  | 42.2  | 42.9  | 43.5   | 44.7  | 48.6  | 52.3  | 55.8  | 63.1  | 69.5   |
| 80°   | 34.8  | 30.6  | 30.6  | 31.2  | 31.0   | 32.5  | 35.3  | 38.2  | 40.8  | 46.1  | 50.7   |
| 82.5° | 22.9  | 19.7  | 20.1  | 20.5  | 20.8   | 21.4  | 23.1  | 25.3  | 26.9  | 30.1  | 33.2   |
| 85°   | 12.7  | 10.5  | 10.9  | 11.3  | 11.1   | 11.8  | 12.7  | 14.1  | 14.9  | 16.4  | 18.0   |
| 87.5° | 4.7   | 3.9   | 4.0   | 4.3   | 4.4    | 4.8   | 4.8   | 5.6   | 5.7   | 5.9   | 6.2    |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |

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Peachtree City, GA 30269



TEST NUMBER: P835171

CATALOG NUMBER: ORLG-24-2-INS-ASY2-LD4-1LO-27-120-EDD

**CANDELA DISTRIBUTION (continued):**

|       | 160°  | 170°  | 180°  |
|-------|-------|-------|-------|
| 0°    | 406.8 | 406.8 | 406.8 |
| 2.5°  | 397.2 | 399.3 | 400.9 |
| 5°    | 390.3 | 392.1 | 393.5 |
| 7.5°  | 383.6 | 385.2 | 386.5 |
| 10°   | 377.3 | 379.1 | 380.0 |
| 12.5° | 370.8 | 372.9 | 373.6 |
| 15°   | 364.4 | 366.5 | 367.4 |
| 17.5° | 357.8 | 360.5 | 361.5 |
| 20°   | 351.7 | 355.1 | 355.9 |
| 22.5° | 345.5 | 349.0 | 349.9 |
| 25°   | 338.7 | 342.8 | 343.8 |
| 27.5° | 331.5 | 336.4 | 337.4 |
| 30°   | 324.3 | 329.7 | 330.6 |
| 32.5° | 316.6 | 322.4 | 323.3 |
| 35°   | 308.5 | 314.3 | 315.3 |
| 37.5° | 299.5 | 305.8 | 308.0 |
| 40°   | 290.2 | 297.0 | 299.2 |
| 42.5° | 280.4 | 287.9 | 290.2 |
| 45°   | 269.9 | 278.1 | 280.7 |
| 47.5° | 259.3 | 268.6 | 270.9 |
| 50°   | 247.8 | 257.7 | 260.5 |
| 52.5° | 235.8 | 246.6 | 249.4 |
| 55°   | 223.4 | 234.2 | 237.3 |
| 57.5° | 209.9 | 221.1 | 224.3 |
| 60°   | 195.7 | 206.9 | 210.0 |
| 62.5° | 181.2 | 191.4 | 194.3 |
| 65°   | 165.1 | 174.6 | 177.2 |
| 67.5° | 147.9 | 156.6 | 158.8 |
| 70°   | 129.7 | 137.2 | 139.2 |
| 72.5° | 110.6 | 115.9 | 118.5 |
| 75°   | 91.0  | 95.2  | 97.1  |
| 77.5° | 71.2  | 74.2  | 75.8  |
| 80°   | 51.9  | 53.6  | 55.0  |
| 82.5° | 34.0  | 34.7  | 35.7  |
| 85°   | 18.3  | 18.3  | 18.9  |
| 87.5° | 6.2   | 6.0   | 6.2   |
| 90°   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)