

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: PORTFOLIO

Report Number: P859648

Luminaire Tested: **LX4C08D010 EX4C089030 4LBLWW\***

Issue Date: 2/9/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P859648  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/9/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX4C08D010 EX4C089030 4LBLWW\*  
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 4LRLWW TRIM WITH \* FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

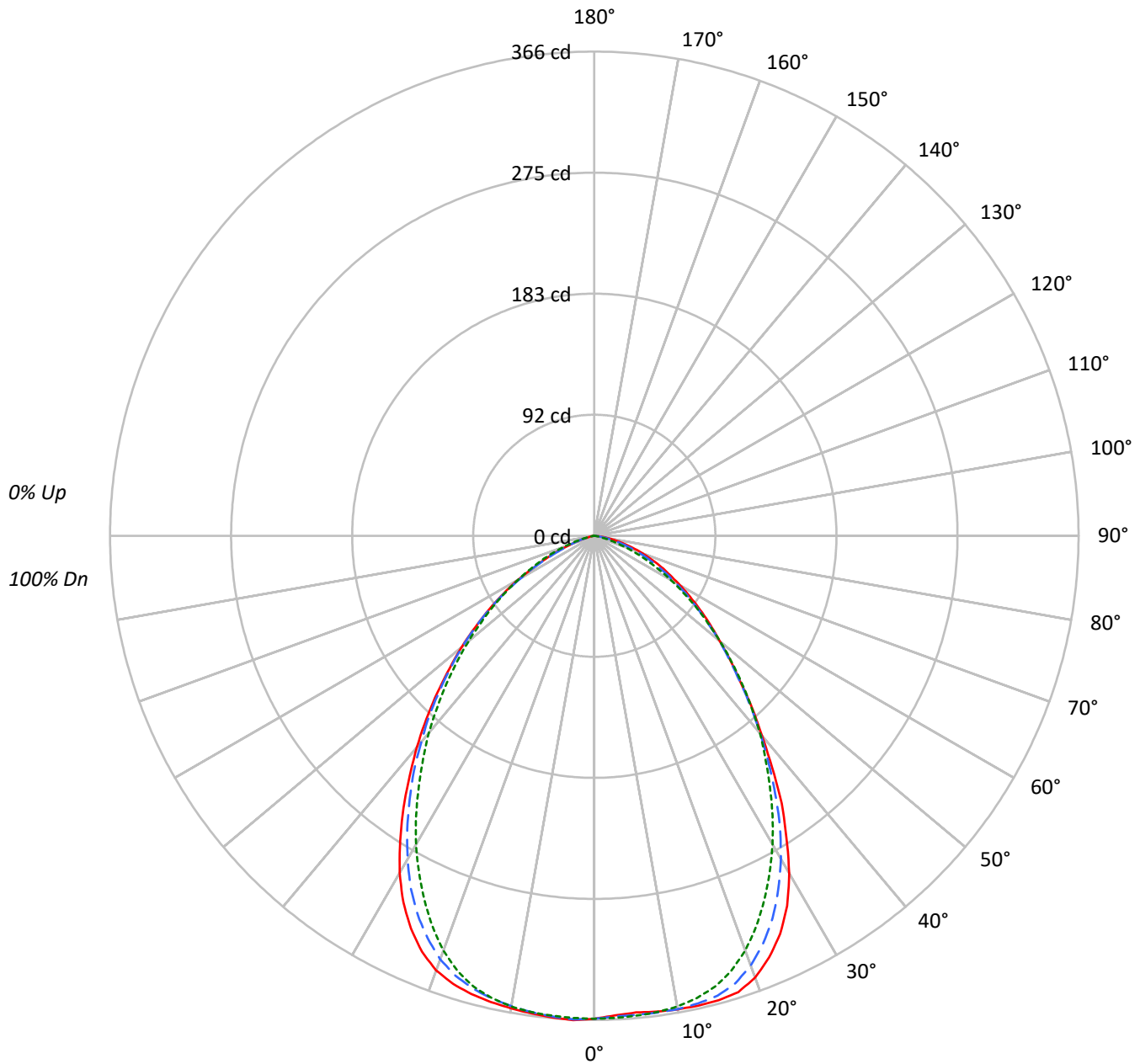
Lumens per Lamp: N/A  
Luminaire Lumens: 700.0 lumens  
Efficiency: N/A  
Efficacy: 70.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.9  
Input Voltage (V):  
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

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### Luminous Intensity Polar Plot





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**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 | 100 |    |    |
| 1   | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 99  | 101 | 99  | 96  | 97  | 95  | 93  | 94  | 92  | 91  | 89  |    |    |
| 2   | 103 | 96  | 91  | 86  | 101 | 95  | 89  | 85  | 91  | 87  | 83  | 88  | 84  | 81  | 85  | 82  | 80  | 78  |    |    |
| 3   | 95  | 87  | 80  | 74  | 93  | 85  | 79  | 74  | 82  | 77  | 72  | 80  | 75  | 71  | 77  | 73  | 70  | 68  |    |    |
| 4   | 88  | 78  | 71  | 65  | 86  | 77  | 70  | 65  | 75  | 69  | 64  | 72  | 67  | 63  | 70  | 66  | 62  | 60  |    |    |
| 5   | 82  | 71  | 63  | 57  | 80  | 70  | 63  | 57  | 68  | 61  | 57  | 66  | 60  | 56  | 64  | 59  | 55  | 54  |    |    |
| 6   | 76  | 65  | 57  | 51  | 75  | 64  | 56  | 51  | 62  | 56  | 51  | 61  | 55  | 50  | 59  | 54  | 50  | 48  |    |    |
| 7   | 71  | 59  | 51  | 46  | 70  | 59  | 51  | 46  | 57  | 50  | 46  | 56  | 50  | 45  | 54  | 49  | 45  | 43  |    |    |
| 8   | 67  | 55  | 47  | 42  | 65  | 54  | 47  | 42  | 53  | 46  | 41  | 52  | 46  | 41  | 50  | 45  | 41  | 39  |    |    |
| 9   | 63  | 51  | 43  | 38  | 61  | 50  | 43  | 38  | 49  | 42  | 38  | 48  | 42  | 38  | 47  | 41  | 37  | 36  |    |    |
| 10  | 59  | 47  | 40  | 35  | 58  | 46  | 39  | 35  | 45  | 39  | 35  | 45  | 39  | 35  | 44  | 38  | 34  | 33  |    |    |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 44854 | 44854 | 44854 |
| 5°  | 44606 | 44914 | 45074 |
| 10° | 45346 | 45072 | 45246 |
| 15° | 46233 | 44872 | 45622 |
| 20° | 46464 | 43614 | 45693 |
| 25° | 45031 | 41181 | 44421 |
| 30° | 41792 | 38217 | 41721 |
| 35° | 37014 | 34675 | 37719 |
| 40° | 31562 | 31225 | 33438 |
| 45° | 27104 | 27416 | 29136 |
| 50° | 23661 | 23719 | 24980 |
| 55° | 20905 | 20027 | 20712 |
| 60° | 18330 | 16340 | 16266 |
| 65° | 16221 | 12674 | 11279 |
| 70° | 13829 | 8729  | 6681  |
| 75° | 11202 | 4699  | 3038  |
| 80° | 7641  | 1132  | 778   |
| 85° | 2255  | 423   | 423   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 34.7   | 5.0       |
| 10°-20°   | 100.5  | 14.4      |
| 20°-30°   | 145.1  | 20.7      |
| 30°-40°   | 150.1  | 21.4      |
| 40°-50°   | 124.0  | 17.7      |
| 50°-60°   | 85.6   | 12.2      |
| 60°-70°   | 44.8   | 6.4       |
| 70°-80°   | 14.1   | 2.0       |
| 80°-90°   | 1.2    | 0.2       |
| 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°    | 280.3  | 40.0      |
| 0°-40°    | 430.4  | 61.5      |
| 0°-60°    | 639.9  | 91.4      |
| 0°-90°    | 700.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 700.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 365 | 365 | 365 | 365  | 365  |      |
| 5°  | 362 | 364 | 364 | 365  | 366  | 35   |
| 15° | 364 | 360 | 353 | 354  | 359  | 103  |
| 25° | 332 | 319 | 304 | 316  | 328  | 152  |
| 35° | 247 | 239 | 231 | 243  | 252  | 153  |
| 45° | 156 | 155 | 158 | 165  | 168  | 122  |
| 55° | 98  | 95  | 94  | 96   | 97   | 88   |
| 65° | 56  | 51  | 44  | 36   | 39   | 55   |
| 75° | 24  | 18  | 10  | 7    | 6    | 25   |
| 85° | 2   | 1   | 0   | 0    | 0    | 3    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 22.5° | 25°   | 30°   | 35°   | 40°   | 45°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 365.1 | 365.1 | 365.1 | 365.1 | 365.1 | 365.1 | 365.1 | 365.1 | 365.1 | 365.1 | 365.1 |
| 2.5°  | 362.8 | 362.9 | 362.9 | 363.2 | 363.2 | 363.2 | 363.3 | 363.3 | 363.5 | 363.6 | 363.7 |
| 5°    | 361.7 | 361.7 | 362.0 | 362.1 | 362.4 | 362.5 | 362.8 | 362.9 | 363.2 | 363.3 | 363.5 |
| 7.5°  | 362.8 | 362.8 | 362.9 | 363.1 | 363.1 | 363.2 | 363.2 | 363.3 | 363.5 | 363.6 | 363.6 |
| 10°   | 363.5 | 363.5 | 363.5 | 363.5 | 363.6 | 363.6 | 363.6 | 363.5 | 363.5 | 363.5 | 363.3 |
| 12.5° | 363.7 | 363.7 | 363.6 | 363.5 | 363.6 | 363.5 | 363.5 | 363.1 | 362.8 | 362.5 | 362.1 |
| 15°   | 363.5 | 363.5 | 363.3 | 363.2 | 363.1 | 362.8 | 362.7 | 362.0 | 361.4 | 360.6 | 360.0 |
| 17.5° | 361.7 | 361.4 | 361.1 | 360.9 | 360.3 | 359.9 | 359.6 | 358.4 | 357.4 | 356.1 | 354.6 |
| 20°   | 355.4 | 355.1 | 354.7 | 354.0 | 353.3 | 352.8 | 352.0 | 350.2 | 349.2 | 347.2 | 345.6 |
| 22.5° | 345.1 | 344.8 | 345.0 | 343.7 | 342.4 | 341.5 | 341.0 | 339.5 | 337.8 | 335.2 | 333.6 |
| 25°   | 332.2 | 331.4 | 331.4 | 329.5 | 328.8 | 328.2 | 327.6 | 325.8 | 323.3 | 321.0 | 318.8 |
| 27.5° | 315.5 | 314.4 | 313.8 | 313.6 | 311.9 | 310.7 | 309.7 | 308.4 | 306.3 | 304.2 | 301.2 |
| 30°   | 294.6 | 294.5 | 293.8 | 292.6 | 291.4 | 290.8 | 289.7 | 287.4 | 285.5 | 284.0 | 282.0 |
| 32.5° | 270.1 | 270.0 | 270.0 | 270.0 | 269.1 | 269.0 | 267.4 | 266.1 | 264.6 | 262.3 | 261.1 |
| 35°   | 246.8 | 246.7 | 246.8 | 244.7 | 244.2 | 243.8 | 243.6 | 242.8 | 240.8 | 239.7 | 238.6 |
| 37.5° | 220.5 | 220.9 | 220.6 | 220.1 | 220.7 | 219.5 | 220.5 | 218.7 | 217.9 | 217.6 | 216.4 |
| 40°   | 196.8 | 197.8 | 196.8 | 196.9 | 197.6 | 196.3 | 196.3 | 196.1 | 195.5 | 195.2 | 195.0 |
| 42.5° | 176.5 | 175.1 | 175.9 | 175.2 | 175.9 | 175.5 | 174.8 | 175.2 | 175.4 | 174.8 | 174.7 |
| 45°   | 156.0 | 156.3 | 156.6 | 156.2 | 156.2 | 155.8 | 156.9 | 156.2 | 156.2 | 156.3 | 155.3 |
| 47.5° | 139.4 | 139.0 | 139.3 | 139.0 | 139.2 | 138.9 | 139.2 | 139.3 | 139.0 | 139.0 | 138.2 |
| 50°   | 123.8 | 123.5 | 124.5 | 123.7 | 123.7 | 123.5 | 123.7 | 123.4 | 123.0 | 123.0 | 123.3 |
| 52.5° | 110.2 | 109.7 | 109.5 | 110.2 | 109.3 | 109.3 | 109.4 | 109.1 | 108.6 | 108.3 | 107.6 |
| 55°   | 97.6  | 97.5  | 97.6  | 97.1  | 96.8  | 96.8  | 96.1  | 95.8  | 95.7  | 95.0  | 94.6  |
| 57.5° | 85.8  | 85.4  | 85.6  | 85.4  | 84.9  | 84.7  | 84.2  | 84.2  | 83.6  | 83.1  | 82.4  |
| 60°   | 74.6  | 74.6  | 75.0  | 74.4  | 74.0  | 73.8  | 73.5  | 73.2  | 72.3  | 71.3  | 70.5  |
| 62.5° | 64.6  | 64.7  | 64.6  | 64.2  | 63.9  | 63.6  | 63.3  | 62.5  | 61.7  | 61.2  | 60.2  |
| 65°   | 55.8  | 55.7  | 55.3  | 55.0  | 54.3  | 54.3  | 53.7  | 53.3  | 52.4  | 51.6  | 50.6  |
| 67.5° | 46.8  | 46.5  | 46.5  | 46.5  | 45.7  | 45.5  | 45.2  | 44.4  | 43.6  | 42.5  | 41.7  |
| 70°   | 38.5  | 38.8  | 38.4  | 38.0  | 37.6  | 37.4  | 37.0  | 36.2  | 35.2  | 34.1  | 33.5  |
| 72.5° | 30.7  | 31.0  | 30.6  | 30.4  | 29.6  | 29.3  | 29.2  | 28.5  | 27.4  | 26.7  | 25.6  |
| 75°   | 23.6  | 23.7  | 23.4  | 23.2  | 22.6  | 22.5  | 21.8  | 21.3  | 20.6  | 19.5  | 18.5  |
| 77.5° | 17.0  | 16.7  | 16.7  | 16.2  | 15.6  | 15.6  | 15.5  | 14.7  | 13.7  | 12.9  | 12.1  |
| 80°   | 10.8  | 10.7  | 10.3  | 10.0  | 9.6   | 9.5   | 9.3   | 8.6   | 8.0   | 7.4   | 6.9   |
| 82.5° | 5.5   | 5.3   | 5.2   | 5.1   | 4.8   | 4.5   | 4.7   | 4.1   | 3.8   | 3.3   | 2.9   |
| 85°   | 1.6   | 1.8   | 1.8   | 1.6   | 1.5   | 1.5   | 1.5   | 1.4   | 1.1   | 1.0   | 0.8   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 50°   | 55°   | 60°   | 65°   | 67.5° | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 365.1 | 365.1 | 365.1 | 365.1 | 365.1 | 365.1 | 365.1 | 365.1 | 365.1 | 365.1 | 365.1 |
| 2.5°  | 363.9 | 364.0 | 364.2 | 364.3 | 364.3 | 364.4 | 364.6 | 364.7 | 364.8 | 364.8 | 365.0 |
| 5°    | 363.6 | 363.9 | 363.9 | 364.0 | 364.0 | 364.0 | 364.2 | 364.2 | 364.2 | 364.2 | 364.3 |
| 7.5°  | 363.7 | 363.7 | 363.7 | 363.6 | 363.6 | 363.5 | 363.5 | 363.5 | 363.2 | 363.2 | 363.2 |
| 10°   | 363.1 | 362.9 | 362.8 | 362.5 | 362.4 | 362.2 | 362.0 | 361.7 | 361.4 | 361.3 | 361.0 |
| 12.5° | 361.7 | 361.1 | 360.6 | 360.0 | 359.8 | 359.6 | 359.1 | 358.7 | 358.3 | 357.9 | 357.6 |
| 15°   | 358.9 | 358.1 | 357.2 | 356.1 | 355.8 | 355.5 | 354.6 | 353.7 | 353.2 | 352.8 | 352.1 |
| 17.5° | 353.5 | 351.8 | 350.7 | 349.1 | 348.4 | 348.1 | 346.6 | 345.8 | 344.8 | 344.6 | 344.0 |
| 20°   | 343.7 | 342.2 | 340.2 | 338.7 | 337.8 | 337.0 | 335.8 | 334.7 | 333.6 | 333.6 | 332.9 |
| 22.5° | 331.5 | 329.6 | 327.0 | 325.1 | 324.9 | 323.3 | 322.2 | 321.0 | 320.6 | 319.7 | 319.7 |
| 25°   | 316.2 | 314.5 | 311.6 | 310.0 | 309.2 | 308.8 | 307.0 | 305.3 | 304.5 | 303.8 | 304.4 |
| 27.5° | 299.2 | 296.7 | 294.5 | 292.5 | 291.8 | 290.9 | 289.3 | 288.6 | 287.1 | 287.0 | 286.8 |
| 30°   | 279.7 | 277.2 | 275.0 | 274.1 | 272.7 | 272.0 | 270.8 | 270.0 | 269.4 | 269.4 | 269.1 |
| 32.5° | 259.3 | 257.1 | 256.0 | 253.9 | 253.2 | 252.3 | 251.5 | 250.6 | 250.9 | 250.6 | 250.8 |
| 35°   | 237.2 | 236.6 | 234.6 | 233.4 | 233.4 | 233.2 | 231.8 | 231.3 | 231.0 | 231.2 | 231.8 |
| 37.5° | 216.2 | 214.6 | 213.2 | 212.4 | 213.1 | 212.2 | 212.1 | 212.1 | 212.9 | 212.4 | 213.5 |
| 40°   | 193.9 | 193.7 | 193.2 | 193.5 | 193.6 | 192.6 | 192.9 | 193.0 | 193.6 | 194.7 | 194.8 |
| 42.5° | 174.4 | 174.3 | 174.3 | 174.3 | 174.0 | 173.4 | 174.0 | 174.9 | 174.8 | 175.6 | 176.3 |
| 45°   | 155.6 | 155.3 | 155.9 | 155.5 | 156.3 | 156.6 | 156.2 | 156.4 | 157.3 | 157.8 | 158.9 |
| 47.5° | 138.5 | 138.5 | 138.6 | 138.9 | 138.1 | 138.8 | 139.0 | 139.6 | 140.0 | 140.3 | 140.8 |
| 50°   | 122.6 | 122.6 | 122.3 | 122.3 | 122.3 | 122.7 | 122.2 | 122.8 | 123.0 | 124.1 | 124.8 |
| 52.5° | 107.9 | 107.2 | 107.6 | 107.4 | 106.8 | 106.5 | 106.8 | 106.9 | 107.8 | 108.0 | 108.9 |
| 55°   | 93.9  | 93.9  | 92.8  | 92.5  | 93.0  | 92.8  | 92.7  | 92.7  | 93.1  | 93.5  | 94.2  |
| 57.5° | 81.6  | 80.8  | 79.9  | 79.8  | 79.4  | 79.5  | 79.5  | 79.4  | 79.1  | 79.2  | 79.4  |
| 60°   | 69.9  | 69.4  | 68.1  | 68.1  | 68.0  | 67.9  | 67.2  | 67.0  | 66.4  | 66.5  | 65.9  |
| 62.5° | 59.2  | 59.0  | 57.3  | 56.8  | 56.8  | 56.4  | 55.7  | 55.5  | 54.6  | 54.6  | 54.0  |
| 65°   | 49.6  | 48.8  | 47.9  | 46.9  | 46.9  | 46.3  | 45.9  | 44.7  | 44.0  | 43.6  | 42.8  |
| 67.5° | 40.9  | 39.6  | 38.7  | 37.8  | 37.3  | 37.2  | 36.2  | 35.4  | 34.3  | 33.6  | 32.4  |
| 70°   | 32.4  | 31.4  | 30.4  | 29.6  | 29.1  | 28.5  | 27.6  | 26.3  | 25.5  | 24.3  | 23.4  |
| 72.5° | 24.4  | 23.6  | 22.8  | 21.7  | 21.0  | 20.6  | 19.6  | 18.5  | 17.1  | 16.3  | 15.2  |
| 75°   | 17.5  | 16.6  | 15.5  | 14.5  | 14.1  | 13.7  | 12.6  | 11.8  | 10.8  | 9.9   | 8.8   |
| 77.5° | 11.4  | 10.3  | 9.5   | 8.4   | 8.2   | 8.0   | 6.9   | 6.0   | 5.3   | 4.8   | 4.1   |
| 80°   | 6.0   | 5.5   | 4.8   | 4.1   | 3.8   | 3.4   | 2.9   | 2.5   | 2.1   | 1.6   | 1.4   |
| 82.5° | 2.6   | 2.2   | 1.8   | 1.5   | 1.4   | 1.2   | 1.0   | 0.8   | 0.7   | 0.7   | 0.5   |
| 85°   | 0.7   | 0.5   | 0.5   | 0.4   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.1   | 0.1   | 0.1   | 0.0   | 0.1   | 0.1   | 0.0   |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 100°  | 105°  | 110°  | 112.5° | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 365.1 | 365.1 | 365.1 | 365.1  | 365.1 | 365.1 | 365.1 | 365.1 | 365.1 | 365.1 | 365.1 |
| 2.5°  | 365.1 | 365.3 | 365.4 | 365.4  | 365.5 | 365.7 | 365.7 | 365.8 | 365.9 | 366.1 | 366.1 |
| 5°    | 364.4 | 364.4 | 364.4 | 364.6  | 364.6 | 364.6 | 364.6 | 364.8 | 364.8 | 365.0 | 365.1 |
| 7.5°  | 363.1 | 363.1 | 363.1 | 363.1  | 362.9 | 363.1 | 362.9 | 362.9 | 363.2 | 363.3 | 363.5 |
| 10°   | 360.9 | 360.7 | 360.7 | 360.6  | 360.6 | 360.6 | 360.7 | 360.9 | 361.0 | 361.1 | 361.6 |
| 12.5° | 357.4 | 357.3 | 357.3 | 357.2  | 357.2 | 357.3 | 357.4 | 357.7 | 358.3 | 358.5 | 359.1 |
| 15°   | 352.0 | 351.8 | 352.0 | 352.1  | 352.4 | 352.8 | 353.2 | 353.6 | 354.4 | 355.1 | 355.8 |
| 17.5° | 344.0 | 344.1 | 344.3 | 344.6  | 345.0 | 345.5 | 346.6 | 347.7 | 348.7 | 349.8 | 350.9 |
| 20°   | 333.0 | 333.6 | 333.7 | 334.7  | 335.0 | 336.2 | 337.4 | 339.1 | 340.6 | 341.9 | 343.5 |
| 22.5° | 319.9 | 320.3 | 320.8 | 321.9  | 322.6 | 324.3 | 325.8 | 327.7 | 329.3 | 331.1 | 333.3 |
| 25°   | 304.9 | 305.1 | 306.7 | 306.7  | 308.4 | 309.7 | 311.5 | 313.6 | 316.0 | 318.4 | 319.9 |
| 27.5° | 287.9 | 288.6 | 289.8 | 290.4  | 291.6 | 293.8 | 295.3 | 297.8 | 300.3 | 302.3 | 304.0 |
| 30°   | 270.1 | 270.7 | 272.7 | 273.0  | 273.9 | 275.9 | 277.9 | 280.2 | 282.2 | 284.5 | 286.0 |
| 32.5° | 251.3 | 252.8 | 254.1 | 255.0  | 255.3 | 258.2 | 259.3 | 260.9 | 263.1 | 265.4 | 266.9 |
| 35°   | 233.1 | 233.8 | 235.6 | 236.1  | 236.9 | 238.6 | 240.8 | 242.1 | 243.2 | 244.7 | 246.5 |
| 37.5° | 213.8 | 215.8 | 216.2 | 217.9  | 218.1 | 219.6 | 220.7 | 222.4 | 223.8 | 225.1 | 225.4 |
| 40°   | 195.8 | 196.5 | 198.0 | 198.4  | 198.7 | 200.7 | 202.1 | 202.5 | 203.2 | 204.4 | 206.1 |
| 42.5° | 177.6 | 178.2 | 179.9 | 179.5  | 180.7 | 181.7 | 182.4 | 184.0 | 184.7 | 185.1 | 185.1 |
| 45°   | 159.6 | 159.9 | 161.0 | 161.5  | 162.2 | 162.7 | 164.0 | 164.8 | 165.1 | 166.3 | 166.7 |
| 47.5° | 142.5 | 142.7 | 143.6 | 144.5  | 144.2 | 144.9 | 146.3 | 146.7 | 146.8 | 147.7 | 148.1 |
| 50°   | 125.6 | 126.3 | 127.4 | 127.1  | 127.9 | 128.3 | 129.6 | 129.8 | 129.8 | 130.0 | 130.1 |
| 52.5° | 109.8 | 110.4 | 110.6 | 110.9  | 111.3 | 112.0 | 112.6 | 112.3 | 112.8 | 113.4 | 113.0 |
| 55°   | 94.2  | 94.6  | 95.3  | 95.6   | 95.6  | 95.7  | 95.4  | 96.7  | 96.1  | 96.0  | 96.1  |
| 57.5° | 79.9  | 79.4  | 79.2  | 79.9   | 80.2  | 80.1  | 79.7  | 80.2  | 80.2  | 79.9  | 79.5  |
| 60°   | 66.1  | 65.7  | 65.5  | 65.7   | 65.1  | 64.7  | 65.0  | 64.7  | 64.0  | 63.8  | 63.9  |
| 62.5° | 53.5  | 53.1  | 52.0  | 52.0   | 51.7  | 51.6  | 50.5  | 50.6  | 50.0  | 49.2  | 49.5  |
| 65°   | 41.8  | 40.7  | 40.2  | 40.0   | 39.1  | 38.3  | 38.0  | 37.0  | 36.2  | 36.1  | 36.2  |
| 67.5° | 31.4  | 30.2  | 29.2  | 28.8   | 28.2  | 27.6  | 26.6  | 25.8  | 26.1  | 25.9  | 26.5  |
| 70°   | 21.8  | 21.0  | 20.0  | 19.3   | 19.6  | 18.8  | 18.2  | 18.2  | 18.4  | 18.5  | 18.8  |
| 72.5° | 14.5  | 13.4  | 13.0  | 12.6   | 12.3  | 11.8  | 12.1  | 12.1  | 11.9  | 12.1  | 11.8  |
| 75°   | 8.2   | 7.7   | 7.3   | 7.1    | 6.9   | 6.9   | 6.9   | 6.9   | 6.7   | 6.6   | 6.6   |
| 77.5° | 3.7   | 3.4   | 3.3   | 3.2    | 3.2   | 3.2   | 3.0   | 2.9   | 2.9   | 2.9   | 2.7   |
| 80°   | 1.2   | 1.2   | 1.2   | 1.2    | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   |
| 82.5° | 0.5   | 0.5   | 0.7   | 0.7    | 0.7   | 0.5   | 0.7   | 0.7   | 0.5   | 0.5   | 0.7   |
| 85°   | 0.3   | 0.3   | 0.3   | 0.3    | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   |
| 87.5° | 0.1   | 0.1   | 0.1   | 0.0    | 0.1   | 0.1   | 0.1   | 0.1   | 0.0   | 0.1   | 0.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |





TEST NUMBER: P859648

CATALOG NUMBER: LX4C08D010 EX4C089030 4LBLWW\*

**CANDELA DISTRIBUTION (continued):**

|       | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°    | 365.1 | 365.1 | 365.1  | 365.1 | 365.1 | 365.1 | 365.1 | 365.1 |
| 2.5°  | 366.2 | 366.4 | 366.4  | 366.4 | 366.5 | 366.5 | 366.5 | 366.5 |
| 5°    | 365.3 | 365.4 | 365.4  | 365.4 | 365.5 | 365.5 | 365.5 | 365.5 |
| 7.5°  | 363.6 | 363.7 | 363.7  | 363.9 | 363.9 | 364.0 | 364.0 | 364.2 |
| 10°   | 361.7 | 362.0 | 362.1  | 362.2 | 362.4 | 362.5 | 362.5 | 362.7 |
| 12.5° | 359.6 | 359.9 | 360.0  | 360.3 | 360.6 | 360.7 | 360.9 | 361.0 |
| 15°   | 356.6 | 357.2 | 357.4  | 357.6 | 358.1 | 358.4 | 358.5 | 358.7 |
| 17.5° | 351.8 | 352.9 | 353.3  | 353.6 | 354.2 | 354.7 | 355.1 | 355.2 |
| 20°   | 345.0 | 346.2 | 346.7  | 347.4 | 348.3 | 348.9 | 349.2 | 349.5 |
| 22.5° | 335.4 | 336.7 | 337.6  | 338.4 | 339.1 | 339.8 | 340.9 | 340.4 |
| 25°   | 321.7 | 324.0 | 324.9  | 325.4 | 326.9 | 327.7 | 328.2 | 327.7 |
| 27.5° | 306.3 | 307.7 | 308.5  | 309.5 | 310.5 | 311.4 | 311.6 | 312.5 |
| 30°   | 287.8 | 290.1 | 290.0  | 290.9 | 292.3 | 293.1 | 293.4 | 294.1 |
| 32.5° | 268.6 | 269.7 | 270.5  | 270.4 | 270.9 | 272.4 | 271.9 | 273.1 |
| 35°   | 248.2 | 248.3 | 249.7  | 249.5 | 250.6 | 250.6 | 250.6 | 251.5 |
| 37.5° | 226.4 | 228.0 | 227.3  | 229.0 | 228.4 | 228.8 | 228.8 | 229.1 |
| 40°   | 206.5 | 207.0 | 207.0  | 207.6 | 208.0 | 207.6 | 207.9 | 208.5 |
| 42.5° | 185.9 | 186.5 | 186.6  | 186.3 | 186.7 | 188.0 | 187.0 | 187.8 |
| 45°   | 166.7 | 167.1 | 167.7  | 167.3 | 168.0 | 167.5 | 168.0 | 167.7 |
| 47.5° | 148.6 | 148.5 | 148.4  | 149.4 | 148.5 | 148.6 | 149.2 | 148.2 |
| 50°   | 130.1 | 130.9 | 130.4  | 130.8 | 131.1 | 131.1 | 130.7 | 130.7 |
| 52.5° | 113.7 | 113.5 | 113.1  | 113.5 | 113.3 | 113.4 | 113.7 | 113.4 |
| 55°   | 96.7  | 97.2  | 96.9   | 96.8  | 96.9  | 96.9  | 97.8  | 96.7  |
| 57.5° | 79.9  | 79.7  | 80.1   | 81.0  | 80.1  | 80.8  | 81.2  | 81.3  |
| 60°   | 64.0  | 64.0  | 64.9   | 64.4  | 65.3  | 65.9  | 66.5  | 66.2  |
| 62.5° | 48.8  | 49.5  | 49.8   | 49.9  | 50.7  | 51.3  | 51.3  | 51.1  |
| 65°   | 36.2  | 37.2  | 37.2   | 37.7  | 38.0  | 38.0  | 38.3  | 38.8  |
| 67.5° | 26.7  | 26.7  | 26.9   | 27.1  | 27.0  | 27.0  | 27.3  | 27.4  |
| 70°   | 18.6  | 18.4  | 18.8   | 18.6  | 18.6  | 18.5  | 18.6  | 18.6  |
| 72.5° | 11.8  | 11.8  | 11.9   | 11.8  | 11.5  | 11.7  | 11.7  | 11.9  |
| 75°   | 6.3   | 6.6   | 6.3    | 6.3   | 6.4   | 6.2   | 6.3   | 6.4   |
| 77.5° | 2.6   | 2.6   | 2.6    | 2.6   | 2.6   | 2.5   | 2.5   | 2.5   |
| 80°   | 1.2   | 1.2   | 1.2    | 1.2   | 1.2   | 1.2   | 1.1   | 1.1   |
| 82.5° | 0.5   | 0.7   | 0.5    | 0.7   | 0.5   | 0.5   | 0.5   | 0.5   |
| 85°   | 0.3   | 0.3   | 0.3    | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   |
| 87.5° | 0.0   | 0.1   | 0.0    | 0.1   | 0.0   | 0.0   | 0.0   | 0.1   |
| 90°   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |



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— 0°-180°    - - 45°-225°    - - - 90°-270°















(END OF REPORT)