

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: P859649

Luminaire Tested: **LX4C08D010 EX4C089030 4LBLWWH**

Issue Date: 2/14/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P859649  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/14/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX4C08D010 EX4C089030 4LBLWWH  
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND  
4LRLWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

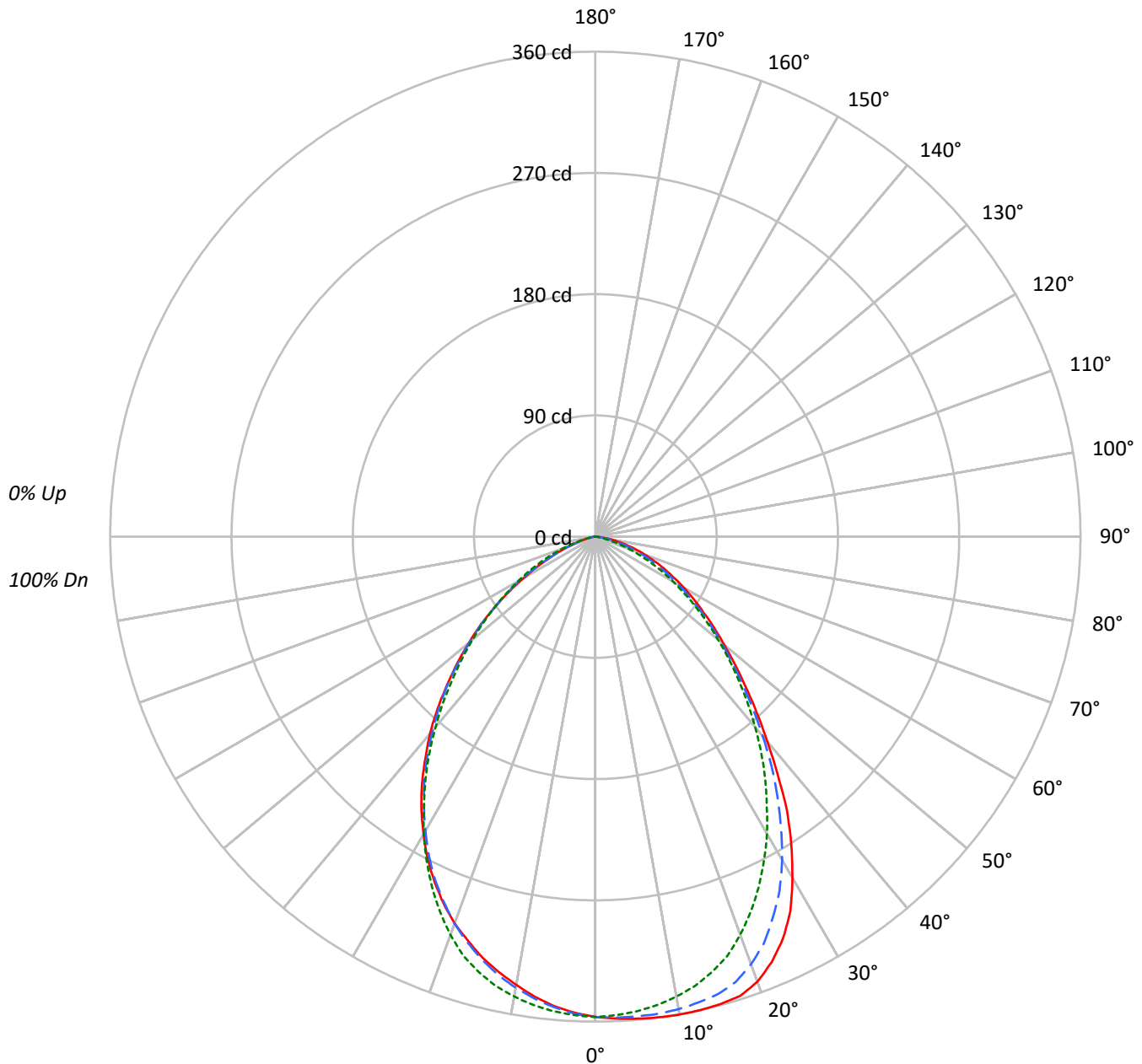
Lumens per Lamp: N/A  
Luminaire Lumens: 672.0 lumens  
Efficiency: N/A  
Efficacy: 67.9 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P859649

CATALOG NUMBER: LX4C08D010 EX4C089030 4LBLWWH

### Luminous Intensity Polar Plot





TEST NUMBER: P859649

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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  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 |
| 1   | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 94  | 92  | 90  |
| 2   | 103 | 96  | 90  | 86  | 100 | 94  | 89  | 85  | 91  | 86  | 83  | 88  | 84  | 81  | 85  | 82  | 79  |
| 3   | 95  | 86  | 79  | 74  | 93  | 85  | 78  | 73  | 82  | 76  | 72  | 79  | 75  | 71  | 77  | 73  | 70  |
| 4   | 88  | 78  | 70  | 64  | 86  | 77  | 69  | 64  | 74  | 68  | 63  | 72  | 67  | 62  | 70  | 65  | 62  |
| 5   | 82  | 71  | 63  | 57  | 80  | 69  | 62  | 57  | 67  | 61  | 56  | 66  | 60  | 55  | 64  | 59  | 55  |
| 6   | 76  | 64  | 56  | 51  | 74  | 63  | 56  | 50  | 62  | 55  | 50  | 60  | 54  | 50  | 59  | 53  | 49  |
| 7   | 71  | 59  | 51  | 46  | 69  | 58  | 51  | 45  | 57  | 50  | 45  | 55  | 49  | 45  | 54  | 49  | 44  |
| 8   | 67  | 54  | 47  | 41  | 65  | 54  | 46  | 41  | 52  | 46  | 41  | 51  | 45  | 41  | 50  | 45  | 40  |
| 9   | 62  | 50  | 43  | 38  | 61  | 50  | 42  | 37  | 49  | 42  | 37  | 47  | 41  | 37  | 47  | 41  | 37  |
| 10  | 59  | 47  | 39  | 34  | 58  | 46  | 39  | 34  | 45  | 39  | 34  | 44  | 38  | 34  | 43  | 38  | 34  |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 43810 | 43810 | 43810 |
| 5°  | 44298 | 43619 | 43151 |
| 10° | 44947 | 43250 | 42153 |
| 15° | 45686 | 42557 | 41145 |
| 20° | 45967 | 41117 | 39927 |
| 25° | 44651 | 38890 | 38294 |
| 30° | 41494 | 36146 | 36174 |
| 35° | 37149 | 32950 | 33655 |
| 40° | 31802 | 29541 | 30615 |
| 45° | 27382 | 26044 | 27017 |
| 50° | 23795 | 22668 | 23356 |
| 55° | 20948 | 19513 | 19320 |
| 60° | 18625 | 16266 | 14988 |
| 65° | 16337 | 13023 | 10843 |
| 70° | 14045 | 9196  | 7328  |
| 75° | 11392 | 5316  | 4319  |
| 80° | 8136  | 2335  | 2122  |
| 85° | 3101  | 987   | 987   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 33.6   | 5.0       |
| 10°-20°   | 95.1   | 14.2      |
| 20°-30°   | 135.8  | 20.2      |
| 30°-40°   | 142.1  | 21.1      |
| 40°-50°   | 119.1  | 17.7      |
| 50°-60°   | 83.3   | 12.4      |
| 60°-70°   | 45.4   | 6.8       |
| 70°-80°   | 15.7   | 2.3       |
| 80°-90°   | 1.8    | 0.3       |
| 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°    | 264.6  | 39.4      |
| 0°-40°    | 406.7  | 60.5      |
| 0°-60°    | 609.1  | 90.6      |
| 0°-90°    | 672.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 672.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 357 | 357 | 357 | 357  | 357  |      |
| 5°  | 359 | 358 | 354 | 351  | 350  | 34   |
| 15° | 359 | 352 | 335 | 325  | 324  | 101  |
| 25° | 329 | 312 | 287 | 281  | 282  | 150  |
| 35° | 248 | 236 | 220 | 221  | 224  | 154  |
| 45° | 158 | 154 | 150 | 155  | 156  | 123  |
| 55° | 98  | 94  | 91  | 91   | 90   | 88   |
| 65° | 56  | 51  | 45  | 38   | 37   | 56   |
| 75° | 24  | 20  | 11  | 9    | 9    | 26   |
| 85° | 2   | 1   | 1   | 1    | 1    | 4    |
| 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°    | 356.6 | 356.6 | 356.6 | 356.6 | 356.6 | 356.6 | 356.6 | 356.6 | 356.6 | 356.6 | 356.6 |
| 2.5°  | 358.2 | 357.8 | 358.0 | 358.0 | 358.0 | 357.8 | 358.0 | 357.8 | 357.8 | 357.7 | 357.4 |
| 5°    | 359.2 | 358.9 | 358.9 | 358.9 | 358.8 | 358.6 | 358.6 | 358.5 | 358.2 | 358.1 | 357.5 |
| 7.5°  | 359.9 | 359.6 | 359.6 | 359.5 | 359.3 | 359.2 | 359.0 | 358.6 | 358.2 | 358.0 | 357.3 |
| 10°   | 360.3 | 359.9 | 359.9 | 359.6 | 359.3 | 359.2 | 358.9 | 358.4 | 357.8 | 357.1 | 356.2 |
| 12.5° | 360.0 | 359.6 | 359.5 | 359.2 | 358.6 | 358.4 | 358.1 | 357.4 | 356.4 | 355.5 | 354.2 |
| 15°   | 359.2 | 358.9 | 358.6 | 358.2 | 357.5 | 357.1 | 356.9 | 355.8 | 354.5 | 353.2 | 351.6 |
| 17.5° | 357.5 | 357.1 | 356.6 | 356.0 | 355.1 | 354.7 | 354.0 | 352.6 | 350.8 | 348.9 | 346.6 |
| 20°   | 351.6 | 351.4 | 350.8 | 349.9 | 348.4 | 347.8 | 346.8 | 345.1 | 342.7 | 340.4 | 337.9 |
| 22.5° | 341.9 | 341.5 | 340.7 | 339.8 | 338.5 | 337.5 | 336.7 | 334.2 | 331.6 | 329.2 | 326.8 |
| 25°   | 329.4 | 329.0 | 327.9 | 326.8 | 325.4 | 323.8 | 323.0 | 321.1 | 318.5 | 315.3 | 311.9 |
| 27.5° | 313.4 | 312.0 | 311.6 | 310.4 | 308.3 | 307.8 | 306.5 | 304.1 | 301.6 | 298.8 | 296.0 |
| 30°   | 292.5 | 292.5 | 291.7 | 291.2 | 289.2 | 288.7 | 287.3 | 284.7 | 283.3 | 279.5 | 277.3 |
| 32.5° | 270.5 | 270.2 | 269.5 | 269.1 | 268.0 | 267.0 | 265.7 | 264.3 | 261.3 | 259.3 | 256.3 |
| 35°   | 247.7 | 246.0 | 246.3 | 245.5 | 244.8 | 243.7 | 243.6 | 242.1 | 239.3 | 238.2 | 235.5 |
| 37.5° | 221.8 | 221.1 | 222.0 | 220.8 | 220.1 | 220.3 | 219.2 | 218.2 | 217.1 | 215.2 | 214.6 |
| 40°   | 198.3 | 198.9 | 198.7 | 197.6 | 198.2 | 197.5 | 196.4 | 195.4 | 194.9 | 193.7 | 193.2 |
| 42.5° | 177.3 | 176.5 | 176.2 | 176.2 | 176.4 | 176.4 | 175.8 | 175.1 | 175.1 | 173.9 | 172.7 |
| 45°   | 157.6 | 157.6 | 157.3 | 158.1 | 156.9 | 156.9 | 156.5 | 156.3 | 155.8 | 155.5 | 154.0 |
| 47.5° | 140.6 | 140.4 | 140.3 | 140.2 | 140.0 | 140.0 | 139.2 | 138.5 | 138.4 | 137.6 | 136.7 |
| 50°   | 124.5 | 125.4 | 125.1 | 124.4 | 124.1 | 124.3 | 123.7 | 123.3 | 123.2 | 121.8 | 121.9 |
| 52.5° | 111.1 | 111.0 | 111.2 | 110.8 | 110.1 | 110.3 | 109.7 | 109.2 | 108.6 | 107.9 | 107.4 |
| 55°   | 97.8  | 98.5  | 98.2  | 97.8  | 97.6  | 97.4  | 97.0  | 96.3  | 96.1  | 94.6  | 94.5  |
| 57.5° | 86.7  | 86.5  | 86.3  | 85.6  | 85.4  | 85.0  | 85.0  | 84.5  | 83.7  | 82.8  | 82.2  |
| 60°   | 75.8  | 75.8  | 75.4  | 75.3  | 74.7  | 74.6  | 74.5  | 73.9  | 73.0  | 72.3  | 71.2  |
| 62.5° | 65.4  | 65.7  | 65.4  | 65.0  | 64.6  | 64.0  | 63.8  | 63.4  | 62.5  | 61.9  | 60.9  |
| 65°   | 56.2  | 56.1  | 56.0  | 55.4  | 55.3  | 54.7  | 54.6  | 53.8  | 52.9  | 52.4  | 51.3  |
| 67.5° | 47.5  | 47.0  | 47.0  | 46.8  | 46.5  | 46.1  | 45.8  | 45.0  | 44.0  | 43.5  | 42.4  |
| 70°   | 39.1  | 38.8  | 38.8  | 38.8  | 38.1  | 37.7  | 37.6  | 37.2  | 35.8  | 35.2  | 34.1  |
| 72.5° | 31.4  | 31.3  | 31.1  | 30.7  | 30.3  | 30.3  | 29.8  | 28.9  | 28.3  | 27.6  | 26.7  |
| 75°   | 24.0  | 24.3  | 24.0  | 23.5  | 23.3  | 23.0  | 22.6  | 21.9  | 21.3  | 20.4  | 19.5  |
| 77.5° | 17.6  | 17.3  | 17.0  | 17.0  | 16.7  | 16.2  | 16.0  | 15.5  | 14.7  | 14.1  | 13.2  |
| 80°   | 11.5  | 11.4  | 11.1  | 10.8  | 10.7  | 10.6  | 10.4  | 9.9   | 9.1   | 8.6   | 7.8   |
| 82.5° | 6.3   | 6.2   | 6.2   | 6.0   | 5.6   | 5.6   | 5.5   | 4.9   | 4.5   | 4.3   | 3.8   |
| 85°   | 2.2   | 2.2   | 2.2   | 2.1   | 2.1   | 2.1   | 1.9   | 1.8   | 1.6   | 1.5   | 1.2   |
| 87.5° | 0.3   | 0.1   | 0.3   | 0.1   | 0.3   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   |
| 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°    | 356.6 | 356.6 | 356.6 | 356.6 | 356.6 | 356.6 | 356.6 | 356.6 | 356.6 | 356.6 | 356.6 |
| 2.5°  | 357.1 | 356.9 | 356.7 | 356.6 | 356.4 | 356.3 | 356.2 | 355.9 | 355.8 | 355.6 | 355.3 |
| 5°    | 357.1 | 356.6 | 356.3 | 355.9 | 355.6 | 355.3 | 354.9 | 354.5 | 354.1 | 353.7 | 353.3 |
| 7.5°  | 356.6 | 355.8 | 355.2 | 354.4 | 354.1 | 353.7 | 352.9 | 352.3 | 351.6 | 350.8 | 349.9 |
| 10°   | 355.2 | 354.2 | 353.2 | 352.1 | 351.6 | 351.0 | 349.9 | 348.9 | 347.8 | 346.7 | 345.7 |
| 12.5° | 353.0 | 351.5 | 350.1 | 348.6 | 347.8 | 347.1 | 345.6 | 344.2 | 342.9 | 341.6 | 340.0 |
| 15°   | 349.7 | 347.9 | 346.2 | 344.1 | 343.1 | 342.3 | 340.1 | 338.5 | 336.3 | 334.6 | 333.0 |
| 17.5° | 344.4 | 341.6 | 339.4 | 336.8 | 335.5 | 334.5 | 332.6 | 330.0 | 327.9 | 326.1 | 324.2 |
| 20°   | 335.2 | 332.6 | 329.6 | 326.7 | 325.2 | 323.9 | 321.2 | 318.5 | 316.4 | 314.5 | 312.4 |
| 22.5° | 323.1 | 319.8 | 317.6 | 314.1 | 312.8 | 311.3 | 308.0 | 305.6 | 303.2 | 301.3 | 299.4 |
| 25°   | 308.4 | 305.6 | 302.5 | 299.3 | 297.7 | 296.0 | 293.2 | 290.6 | 289.1 | 286.9 | 284.6 |
| 27.5° | 291.6 | 289.2 | 285.5 | 282.7 | 281.1 | 279.8 | 277.2 | 274.8 | 272.6 | 271.1 | 268.9 |
| 30°   | 273.7 | 271.0 | 267.7 | 264.7 | 263.9 | 262.2 | 259.9 | 258.1 | 255.8 | 254.8 | 253.9 |
| 32.5° | 254.1 | 251.0 | 248.5 | 246.6 | 244.9 | 243.6 | 242.3 | 239.5 | 239.0 | 236.6 | 236.3 |
| 35°   | 232.7 | 231.4 | 229.0 | 227.4 | 226.0 | 225.1 | 223.0 | 221.6 | 220.1 | 219.7 | 218.7 |
| 37.5° | 212.6 | 210.9 | 208.7 | 207.2 | 206.3 | 206.1 | 204.6 | 203.8 | 202.7 | 202.2 | 201.1 |
| 40°   | 191.5 | 190.8 | 188.9 | 188.6 | 187.1 | 186.9 | 186.1 | 185.1 | 184.2 | 184.2 | 184.3 |
| 42.5° | 172.0 | 171.2 | 170.3 | 169.4 | 168.6 | 168.6 | 168.1 | 167.9 | 167.6 | 167.2 | 167.9 |
| 45°   | 153.7 | 152.6 | 152.1 | 151.1 | 151.5 | 150.7 | 150.4 | 150.4 | 150.0 | 149.9 | 150.9 |
| 47.5° | 136.7 | 135.5 | 135.0 | 134.7 | 134.7 | 134.8 | 133.6 | 134.0 | 133.9 | 134.1 | 134.5 |
| 50°   | 121.2 | 120.1 | 119.3 | 119.3 | 119.5 | 118.9 | 118.4 | 118.8 | 118.4 | 118.6 | 119.6 |
| 52.5° | 106.8 | 105.7 | 105.3 | 105.3 | 104.5 | 104.4 | 104.6 | 104.1 | 104.2 | 104.4 | 104.9 |
| 55°   | 93.5  | 92.8  | 92.2  | 91.5  | 91.6  | 91.3  | 90.8  | 90.7  | 90.9  | 91.1  | 91.8  |
| 57.5° | 81.6  | 80.6  | 79.7  | 79.4  | 79.1  | 79.1  | 78.4  | 78.3  | 78.6  | 77.9  | 77.9  |
| 60°   | 70.2  | 69.7  | 68.4  | 68.0  | 68.0  | 67.3  | 66.8  | 67.1  | 66.4  | 66.2  | 66.4  |
| 62.5° | 59.7  | 59.2  | 58.4  | 57.6  | 57.3  | 57.1  | 56.4  | 56.1  | 55.8  | 55.3  | 54.4  |
| 65°   | 50.5  | 49.5  | 48.5  | 48.0  | 47.6  | 46.9  | 46.5  | 45.9  | 45.1  | 44.8  | 44.0  |
| 67.5° | 41.3  | 40.3  | 39.4  | 38.9  | 38.5  | 38.1  | 37.4  | 36.8  | 35.8  | 34.7  | 33.7  |
| 70°   | 33.2  | 32.0  | 31.4  | 30.3  | 30.0  | 29.5  | 28.5  | 27.8  | 26.9  | 25.6  | 24.7  |
| 72.5° | 25.4  | 24.5  | 23.7  | 22.8  | 22.1  | 21.7  | 20.8  | 19.7  | 18.7  | 18.0  | 17.0  |
| 75°   | 18.2  | 17.8  | 16.7  | 15.6  | 15.4  | 14.8  | 13.9  | 13.2  | 12.3  | 11.2  | 10.4  |
| 77.5° | 12.3  | 11.5  | 10.8  | 9.9   | 9.6   | 9.1   | 8.5   | 7.8   | 7.3   | 6.6   | 6.0   |
| 80°   | 7.3   | 6.6   | 6.2   | 5.5   | 5.2   | 4.9   | 4.5   | 4.0   | 3.6   | 3.3   | 3.2   |
| 82.5° | 3.6   | 3.0   | 2.9   | 2.5   | 2.3   | 2.2   | 1.9   | 1.8   | 1.5   | 1.5   | 1.5   |
| 85°   | 1.2   | 1.0   | 1.0   | 0.8   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   |
| 87.5° | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   | 0.3   | 0.1   |
| 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°    | 356.6 | 356.6 | 356.6 | 356.6  | 356.6 | 356.6 | 356.6 | 356.6 | 356.6 | 356.6 | 356.6 |
| 2.5°  | 355.2 | 355.1 | 354.9 | 354.8  | 354.8 | 354.7 | 354.7 | 354.5 | 354.5 | 354.4 | 354.4 |
| 5°    | 352.7 | 352.3 | 352.1 | 351.8  | 351.8 | 351.4 | 351.1 | 350.8 | 350.7 | 350.7 | 350.4 |
| 7.5°  | 349.3 | 348.8 | 348.2 | 347.8  | 347.7 | 347.0 | 346.4 | 346.4 | 345.9 | 345.6 | 345.3 |
| 10°   | 344.8 | 343.8 | 343.0 | 342.6  | 342.0 | 341.6 | 340.9 | 340.5 | 340.1 | 339.4 | 339.3 |
| 12.5° | 338.6 | 337.9 | 336.7 | 336.1  | 335.9 | 335.0 | 334.0 | 333.4 | 333.3 | 332.7 | 332.3 |
| 15°   | 331.6 | 330.1 | 329.0 | 328.3  | 328.3 | 327.0 | 326.4 | 325.6 | 325.0 | 324.6 | 324.5 |
| 17.5° | 322.6 | 321.1 | 320.0 | 319.0  | 318.7 | 317.6 | 316.8 | 316.5 | 315.8 | 316.1 | 315.4 |
| 20°   | 310.9 | 309.7 | 308.9 | 307.6  | 307.6 | 306.9 | 306.7 | 306.0 | 305.7 | 305.4 | 305.7 |
| 22.5° | 298.4 | 296.9 | 295.5 | 295.4  | 295.4 | 294.5 | 294.3 | 294.2 | 293.6 | 294.0 | 293.9 |
| 25°   | 283.8 | 282.7 | 281.8 | 281.7  | 281.7 | 281.1 | 280.6 | 280.9 | 281.3 | 281.1 | 281.6 |
| 27.5° | 268.5 | 267.4 | 267.2 | 267.0  | 266.7 | 266.6 | 266.9 | 266.9 | 267.3 | 267.8 | 268.4 |
| 30°   | 252.1 | 251.8 | 251.4 | 251.3  | 251.0 | 251.7 | 251.9 | 252.3 | 252.2 | 253.0 | 253.6 |
| 32.5° | 235.6 | 235.1 | 234.9 | 235.2  | 235.6 | 235.5 | 236.3 | 236.6 | 236.9 | 237.8 | 238.2 |
| 35°   | 219.0 | 218.9 | 218.6 | 218.6  | 218.7 | 219.8 | 219.8 | 220.8 | 221.4 | 221.6 | 222.7 |
| 37.5° | 201.2 | 201.7 | 202.0 | 202.4  | 202.6 | 203.0 | 203.3 | 204.2 | 204.8 | 205.3 | 205.9 |
| 40°   | 184.9 | 184.6 | 185.8 | 185.0  | 185.3 | 186.5 | 187.1 | 186.9 | 187.8 | 188.6 | 189.1 |
| 42.5° | 167.5 | 167.9 | 168.1 | 168.4  | 169.1 | 169.2 | 169.9 | 170.9 | 171.2 | 172.1 | 172.4 |
| 45°   | 150.6 | 150.7 | 151.3 | 151.8  | 152.2 | 153.3 | 153.6 | 154.0 | 154.8 | 154.8 | 155.2 |
| 47.5° | 134.7 | 135.2 | 135.2 | 136.0  | 136.7 | 136.6 | 137.6 | 137.8 | 137.7 | 138.4 | 138.7 |
| 50°   | 119.5 | 120.3 | 120.1 | 120.7  | 121.0 | 121.1 | 121.9 | 122.2 | 121.6 | 122.3 | 122.5 |
| 52.5° | 104.9 | 105.3 | 105.9 | 106.0  | 105.7 | 106.4 | 106.2 | 106.7 | 106.6 | 107.1 | 106.6 |
| 55°   | 91.6  | 91.5  | 91.5  | 91.8   | 91.5  | 91.8  | 92.0  | 91.5  | 91.1  | 91.6  | 91.5  |
| 57.5° | 78.3  | 78.3  | 78.0  | 78.4   | 78.0  | 77.6  | 77.5  | 77.1  | 76.7  | 76.7  | 76.5  |
| 60°   | 65.8  | 65.6  | 65.0  | 64.9   | 64.9  | 64.2  | 63.9  | 63.4  | 63.4  | 62.8  | 62.3  |
| 62.5° | 54.2  | 53.5  | 53.1  | 53.1   | 52.8  | 52.1  | 50.9  | 50.1  | 49.8  | 49.0  | 48.8  |
| 65°   | 43.2  | 42.5  | 42.1  | 41.3   | 40.6  | 40.3  | 39.1  | 38.1  | 37.7  | 36.9  | 37.0  |
| 67.5° | 33.2  | 32.1  | 30.9  | 30.3   | 29.9  | 28.9  | 28.5  | 27.8  | 27.4  | 27.4  | 27.4  |
| 70°   | 23.9  | 22.9  | 21.7  | 21.3   | 21.0  | 20.2  | 19.7  | 19.6  | 20.0  | 19.9  | 20.0  |
| 72.5° | 16.0  | 15.1  | 14.5  | 14.3   | 14.0  | 13.6  | 13.9  | 14.0  | 13.7  | 13.9  | 14.0  |
| 75°   | 9.7   | 9.5   | 9.1   | 8.9    | 8.9   | 9.1   | 8.9   | 8.9   | 9.1   | 9.1   | 9.2   |
| 77.5° | 5.6   | 5.3   | 5.3   | 5.2    | 5.5   | 5.3   | 5.3   | 5.3   | 5.5   | 5.5   | 5.5   |
| 80°   | 3.0   | 3.0   | 3.0   | 3.0    | 3.2   | 3.0   | 3.2   | 3.2   | 3.2   | 3.2   | 3.2   |
| 82.5° | 1.5   | 1.5   | 1.5   | 1.6    | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.6   | 1.5   |
| 85°   | 0.7   | 0.7   | 0.7   | 0.7    | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   |
| 87.5° | 0.1   | 0.3   | 0.3   | 0.3    | 0.3   | 0.3   | 0.1   | 0.1   | 0.1   | 0.1   | 0.1   |
| 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: P859649

CATALOG NUMBER: LX4C08D010 EX4C089030 4LBLWWH

**CANDELA DISTRIBUTION (continued):**

|       | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°    | 356.6 | 356.6 | 356.6  | 356.6 | 356.6 | 356.6 | 356.6 | 356.6 |
| 2.5°  | 354.1 | 354.1 | 354.1  | 353.8 | 354.0 | 354.0 | 353.8 | 353.8 |
| 5°    | 350.3 | 350.1 | 349.9  | 349.9 | 349.6 | 349.9 | 349.7 | 349.9 |
| 7.5°  | 345.1 | 345.1 | 344.6  | 344.6 | 344.5 | 344.4 | 344.2 | 344.4 |
| 10°   | 338.9 | 338.9 | 338.6  | 338.5 | 338.6 | 338.1 | 338.1 | 337.9 |
| 12.5° | 332.0 | 331.8 | 331.5  | 331.6 | 331.5 | 331.1 | 330.9 | 331.1 |
| 15°   | 324.1 | 323.7 | 323.8  | 323.4 | 323.4 | 323.3 | 323.5 | 323.5 |
| 17.5° | 315.3 | 315.0 | 314.8  | 314.9 | 314.6 | 314.8 | 314.6 | 314.5 |
| 20°   | 305.6 | 305.4 | 305.4  | 304.9 | 305.0 | 304.9 | 305.0 | 305.4 |
| 22.5° | 294.3 | 294.2 | 294.3  | 293.9 | 294.2 | 294.2 | 294.6 | 294.6 |
| 25°   | 282.0 | 281.8 | 282.1  | 282.2 | 282.4 | 282.8 | 282.4 | 282.5 |
| 27.5° | 268.3 | 268.7 | 269.1  | 269.2 | 269.8 | 269.4 | 269.1 | 269.5 |
| 30°   | 254.4 | 254.4 | 254.3  | 254.8 | 255.2 | 255.6 | 255.0 | 255.0 |
| 32.5° | 238.5 | 239.2 | 239.2  | 239.3 | 239.7 | 239.7 | 239.7 | 240.3 |
| 35°   | 223.3 | 223.7 | 223.8  | 223.3 | 223.5 | 223.4 | 224.4 | 224.4 |
| 37.5° | 206.3 | 206.3 | 206.4  | 207.4 | 207.4 | 207.0 | 207.2 | 207.2 |
| 40°   | 190.1 | 190.2 | 189.7  | 189.9 | 190.6 | 190.4 | 190.6 | 190.9 |
| 42.5° | 172.4 | 173.4 | 172.8  | 173.1 | 172.9 | 173.1 | 173.2 | 173.2 |
| 45°   | 155.5 | 155.8 | 155.8  | 155.9 | 156.2 | 156.5 | 155.7 | 155.5 |
| 47.5° | 139.1 | 139.2 | 139.6  | 138.9 | 139.8 | 138.9 | 139.8 | 138.8 |
| 50°   | 122.5 | 123.0 | 122.6  | 122.9 | 122.5 | 122.5 | 122.3 | 122.2 |
| 52.5° | 106.7 | 106.6 | 106.6  | 106.4 | 106.4 | 106.7 | 106.4 | 106.8 |
| 55°   | 90.9  | 91.1  | 90.8   | 90.7  | 90.5  | 90.9  | 90.5  | 90.2  |
| 57.5° | 76.0  | 76.3  | 75.7   | 76.0  | 75.0  | 75.4  | 75.6  | 75.7  |
| 60°   | 62.1  | 61.7  | 61.7   | 61.2  | 61.2  | 61.6  | 61.0  | 61.0  |
| 62.5° | 48.1  | 48.4  | 48.0   | 48.5  | 48.5  | 49.1  | 48.8  | 49.1  |
| 65°   | 36.9  | 37.0  | 37.2   | 37.2  | 37.2  | 38.0  | 37.7  | 37.3  |
| 67.5° | 27.8  | 28.0  | 28.1   | 28.0  | 28.4  | 28.1  | 28.1  | 28.3  |
| 70°   | 20.2  | 20.3  | 20.4   | 20.4  | 20.3  | 20.4  | 20.4  | 20.4  |
| 72.5° | 14.0  | 14.1  | 14.0   | 14.1  | 14.3  | 14.1  | 14.1  | 14.3  |
| 75°   | 9.2   | 9.2   | 9.1    | 9.1   | 9.1   | 9.1   | 9.2   | 9.1   |
| 77.5° | 5.3   | 5.5   | 5.3    | 5.5   | 5.5   | 5.5   | 5.5   | 5.5   |
| 80°   | 3.2   | 3.2   | 3.2    | 3.0   | 3.2   | 3.2   | 3.2   | 3.0   |
| 82.5° | 1.6   | 1.6   | 1.5    | 1.5   | 1.6   | 1.6   | 1.6   | 1.6   |
| 85°   | 0.7   | 0.7   | 0.7    | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   |
| 87.5° | 0.1   | 0.1   | 0.1    | 0.1   | 0.1   | 0.1   | 0.1   | 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)