

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: P859727

Luminaire Tested: **LX4C08D010 EX4C089050 4LBSWNH**

Issue Date: 2/18/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P859727  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251634)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX4C08D010 EX4C089050 4LBSWNH  
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS AND 4LCSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

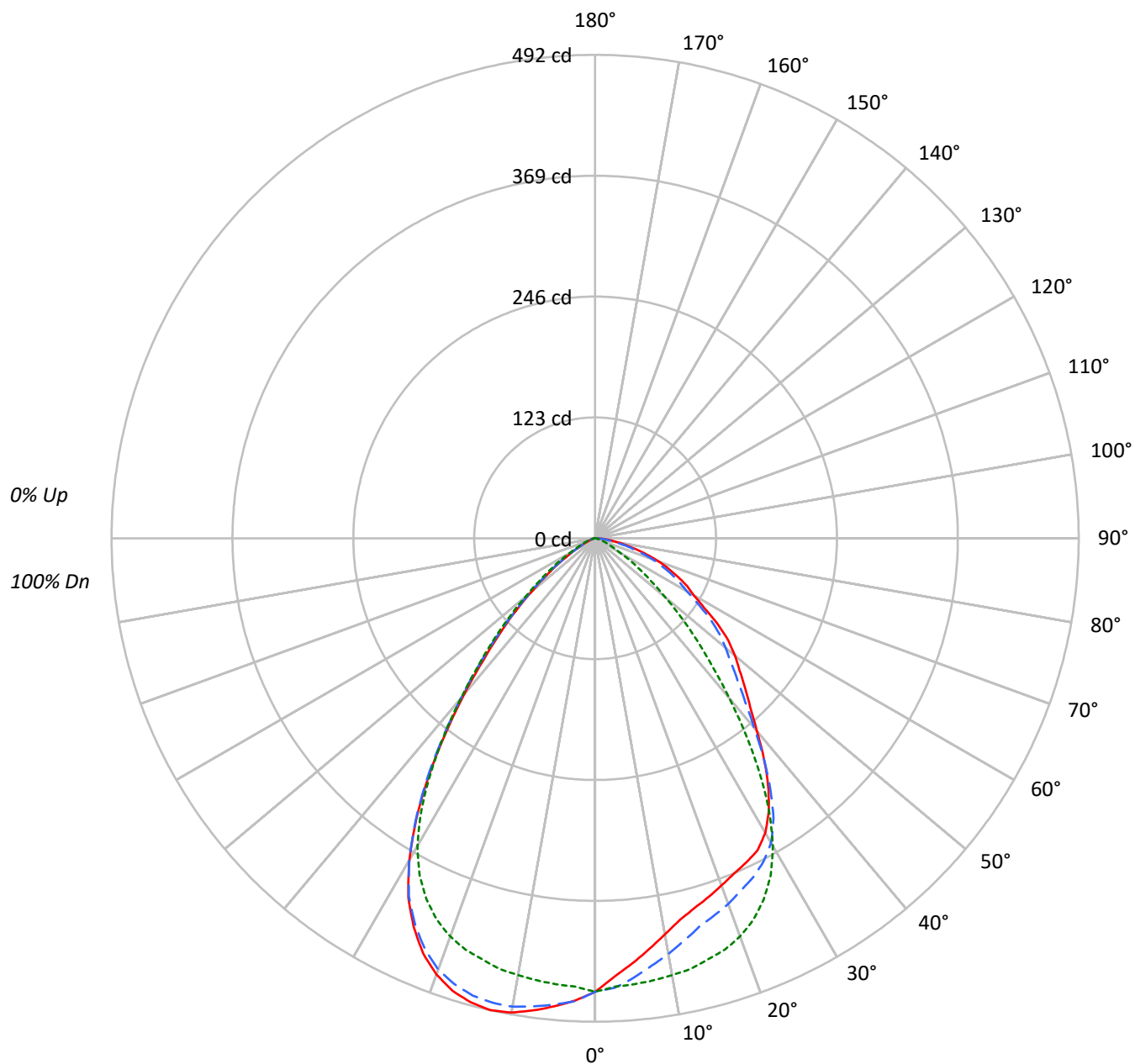
Lumens per Lamp: N/A  
Luminaire Lumens: 809.0 lumens  
Efficiency: N/A  
Efficacy: 81.7 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

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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CATALOG NUMBER: LX4C08D010 EX4C089050 4LBSWNH

### Luminous Intensity Polar Plot





TEST NUMBER: P859727

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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 | 108 | 104 | 101 | 109 | 106 | 103 | 100 | 101 | 99  | 97  | 98  | 96  | 94  | 94  | 93  | 91  | 89  |    |    |
| 2   | 104 | 97  | 92  | 87  | 101 | 95  | 90  | 86  | 92  | 88  | 84  | 89  | 85  | 82  | 86  | 83  | 81  | 79  |    |    |
| 3   | 96  | 88  | 81  | 76  | 94  | 86  | 80  | 75  | 83  | 78  | 74  | 81  | 76  | 73  | 78  | 75  | 72  | 70  |    |    |
| 4   | 90  | 80  | 72  | 67  | 88  | 78  | 72  | 66  | 76  | 70  | 66  | 74  | 69  | 65  | 72  | 68  | 64  | 62  |    |    |
| 5   | 83  | 73  | 65  | 60  | 82  | 72  | 65  | 59  | 70  | 63  | 59  | 68  | 62  | 58  | 66  | 61  | 58  | 56  |    |    |
| 6   | 78  | 67  | 59  | 53  | 76  | 66  | 59  | 53  | 64  | 58  | 53  | 62  | 57  | 52  | 61  | 56  | 52  | 50  |    |    |
| 7   | 73  | 61  | 54  | 48  | 71  | 61  | 53  | 48  | 59  | 53  | 48  | 58  | 52  | 48  | 56  | 51  | 47  | 46  |    |    |
| 8   | 68  | 57  | 49  | 44  | 67  | 56  | 49  | 44  | 55  | 48  | 44  | 54  | 48  | 43  | 52  | 47  | 43  | 42  |    |    |
| 9   | 64  | 52  | 45  | 40  | 63  | 52  | 45  | 40  | 51  | 44  | 40  | 50  | 44  | 40  | 49  | 44  | 40  | 38  |    |    |
| 10  | 61  | 49  | 42  | 37  | 59  | 48  | 42  | 37  | 47  | 41  | 37  | 47  | 41  | 37  | 46  | 40  | 37  | 35  |    |    |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 56697 | 56697 | 56697 |
| 5°  | 53547 | 56186 | 58973 |
| 10° | 51047 | 56312 | 61139 |
| 15° | 49552 | 56433 | 62182 |
| 20° | 49144 | 56374 | 61734 |
| 25° | 49342 | 54981 | 59169 |
| 30° | 49097 | 51296 | 53651 |
| 35° | 46028 | 43793 | 44243 |
| 40° | 41008 | 33951 | 33197 |
| 45° | 37511 | 25314 | 23768 |
| 50° | 35473 | 17737 | 16035 |
| 55° | 32621 | 11973 | 10067 |
| 60° | 28502 | 7003  | 5553  |
| 65° | 26977 | 4506  | 3110  |
| 70° | 24569 | 3197  | 1940  |
| 75° | 20316 | 2278  | 1424  |
| 80° | 15989 | 1273  | 849   |
| 85° | 14237 | 846   | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 43.6   | 5.4       |
| 10°-20°   | 125.1  | 15.5      |
| 20°-30°   | 185.4  | 22.9      |
| 30°-40°   | 185.7  | 23.0      |
| 40°-50°   | 129.8  | 16.0      |
| 50°-60°   | 77.2   | 9.5       |
| 60°-70°   | 40.3   | 5.0       |
| 70°-80°   | 17.9   | 2.2       |
| 80°-90°   | 3.9    | 0.5       |
| 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°    | 354.2  | 43.8      |
| 0°-40°    | 539.9  | 66.7      |
| 0°-60°    | 746.9  | 92.3      |
| 0°-90°    | 809.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 809.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 462 | 462 | 462 | 462  | 462  |      |
| 5°  | 434 | 449 | 456 | 476  | 478  | 41   |
| 15° | 390 | 409 | 444 | 482  | 489  | 110  |
| 25° | 364 | 381 | 406 | 434  | 436  | 168  |
| 35° | 307 | 310 | 292 | 297  | 295  | 190  |
| 45° | 216 | 205 | 146 | 141  | 137  | 168  |
| 55° | 152 | 143 | 56  | 49   | 47   | 135  |
| 65° | 93  | 85  | 16  | 11   | 11   | 92   |
| 75° | 43  | 38  | 5   | 3    | 3    | 46   |
| 85° | 10  | 8   | 1   | 1    | 0    | 11   |
| 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°    | 461.5 | 461.5 | 461.5 | 461.5 | 461.5 | 461.5 | 461.5 | 461.5 | 461.5 | 461.5 | 461.5 |
| 2.5°  | 446.6 | 452.0 | 446.6 | 448.4 | 455.6 | 449.0 | 452.6 | 452.6 | 450.8 | 455.0 | 458.0 |
| 5°    | 434.2 | 439.5 | 434.2 | 436.5 | 444.3 | 437.7 | 441.9 | 440.7 | 441.3 | 444.9 | 449.0 |
| 7.5°  | 421.7 | 425.8 | 421.1 | 424.1 | 431.2 | 425.8 | 429.4 | 429.4 | 430.0 | 435.3 | 438.9 |
| 10°   | 409.2 | 412.7 | 409.2 | 411.6 | 419.3 | 414.5 | 416.9 | 417.5 | 419.3 | 424.1 | 429.4 |
| 12.5° | 397.9 | 400.9 | 397.3 | 400.9 | 407.4 | 402.6 | 405.6 | 406.2 | 408.0 | 413.4 | 419.3 |
| 15°   | 389.6 | 392.5 | 389.0 | 391.9 | 397.9 | 394.3 | 396.7 | 397.9 | 399.1 | 403.8 | 409.2 |
| 17.5° | 383.0 | 385.4 | 382.4 | 386.0 | 390.7 | 386.6 | 390.2 | 390.2 | 391.9 | 396.7 | 402.6 |
| 20°   | 375.9 | 378.2 | 375.9 | 378.9 | 384.2 | 380.6 | 383.6 | 383.6 | 385.4 | 390.7 | 396.1 |
| 22.5° | 369.3 | 370.5 | 369.3 | 371.7 | 377.1 | 374.1 | 375.9 | 376.5 | 378.2 | 383.0 | 387.8 |
| 25°   | 364.0 | 366.4 | 365.2 | 367.5 | 371.1 | 368.2 | 369.9 | 370.5 | 372.3 | 376.5 | 380.6 |
| 27.5° | 358.0 | 359.2 | 358.0 | 361.0 | 364.0 | 361.6 | 363.4 | 362.8 | 364.0 | 367.5 | 371.1 |
| 30°   | 346.1 | 347.3 | 347.3 | 349.1 | 351.5 | 350.3 | 352.1 | 350.3 | 351.5 | 354.5 | 358.0 |
| 32.5° | 328.9 | 329.5 | 330.1 | 331.9 | 333.6 | 331.9 | 333.1 | 333.1 | 333.1 | 335.4 | 337.8 |
| 35°   | 306.9 | 308.1 | 307.5 | 308.7 | 310.4 | 309.9 | 309.9 | 309.3 | 308.1 | 309.3 | 310.4 |
| 37.5° | 281.9 | 280.1 | 280.1 | 281.9 | 283.1 | 280.7 | 281.9 | 280.7 | 280.7 | 281.3 | 281.3 |
| 40°   | 255.7 | 254.0 | 255.7 | 256.3 | 256.9 | 255.7 | 255.1 | 254.0 | 252.2 | 252.8 | 251.6 |
| 42.5° | 233.7 | 232.5 | 233.1 | 233.1 | 233.7 | 232.5 | 233.1 | 230.8 | 229.0 | 227.8 | 226.0 |
| 45°   | 215.9 | 214.1 | 215.9 | 214.7 | 214.7 | 214.1 | 213.5 | 212.3 | 209.9 | 208.2 | 205.2 |
| 47.5° | 199.2 | 199.2 | 199.8 | 199.8 | 199.8 | 198.6 | 198.6 | 196.3 | 193.9 | 191.5 | 187.4 |
| 50°   | 185.6 | 184.4 | 186.7 | 186.7 | 185.0 | 184.4 | 185.0 | 182.0 | 180.2 | 177.2 | 173.1 |
| 52.5° | 170.7 | 170.7 | 171.3 | 171.3 | 170.7 | 169.5 | 170.1 | 167.7 | 165.9 | 163.0 | 158.8 |
| 55°   | 152.3 | 151.1 | 152.8 | 152.8 | 152.3 | 151.7 | 152.3 | 150.5 | 148.7 | 146.3 | 142.7 |
| 57.5° | 131.4 | 130.8 | 132.0 | 132.6 | 131.4 | 131.4 | 132.0 | 130.3 | 129.6 | 127.3 | 123.7 |
| 60°   | 116.0 | 115.4 | 116.6 | 117.2 | 116.0 | 116.0 | 116.0 | 113.6 | 112.4 | 110.0 | 107.6 |
| 62.5° | 105.3 | 104.7 | 105.9 | 105.3 | 104.7 | 104.1 | 104.7 | 102.3 | 101.1 | 98.7  | 96.4  |
| 65°   | 92.8  | 93.4  | 94.0  | 94.0  | 93.4  | 92.8  | 92.8  | 91.6  | 90.4  | 88.0  | 85.0  |
| 67.5° | 80.9  | 80.9  | 81.5  | 82.1  | 81.5  | 81.5  | 81.5  | 79.7  | 78.5  | 76.7  | 73.2  |
| 70°   | 68.4  | 67.8  | 69.6  | 69.6  | 68.4  | 69.0  | 68.4  | 67.8  | 66.6  | 64.2  | 61.3  |
| 72.5° | 55.3  | 55.3  | 55.9  | 55.9  | 55.3  | 55.3  | 55.3  | 54.7  | 52.9  | 51.7  | 48.8  |
| 75°   | 42.8  | 42.8  | 43.4  | 44.0  | 42.8  | 42.8  | 43.4  | 42.2  | 41.0  | 39.3  | 37.5  |
| 77.5° | 32.1  | 31.5  | 32.1  | 32.1  | 31.5  | 31.5  | 31.5  | 30.9  | 30.3  | 28.5  | 26.8  |
| 80°   | 22.6  | 22.0  | 22.6  | 22.6  | 22.6  | 22.0  | 22.0  | 21.4  | 21.4  | 20.2  | 18.4  |
| 82.5° | 15.5  | 14.9  | 15.5  | 15.5  | 15.5  | 14.9  | 14.9  | 14.9  | 14.3  | 13.7  | 12.5  |
| 85°   | 10.1  | 9.5   | 9.5   | 10.1  | 9.5   | 9.5   | 9.5   | 9.5   | 8.9   | 8.3   | 7.7   |
| 87.5° | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   | 4.8   | 4.2   | 4.2   | 4.2   | 3.6   |
| 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°    | 461.5 | 461.5 | 461.5 | 461.5 | 461.5 | 461.5 | 461.5 | 461.5 | 461.5 | 461.5 | 461.5 |
| 2.5°  | 455.6 | 454.4 | 458.0 | 456.8 | 457.3 | 454.4 | 459.1 | 456.8 | 459.7 | 456.8 | 462.7 |
| 5°    | 447.8 | 446.6 | 452.0 | 451.4 | 452.0 | 449.6 | 455.0 | 454.4 | 458.0 | 455.6 | 462.1 |
| 7.5°  | 439.5 | 438.3 | 444.3 | 444.9 | 446.1 | 443.7 | 450.8 | 450.8 | 454.4 | 453.8 | 460.9 |
| 10°   | 430.0 | 430.6 | 436.5 | 437.7 | 440.1 | 438.9 | 445.5 | 447.3 | 452.0 | 451.4 | 460.3 |
| 12.5° | 421.1 | 421.1 | 428.8 | 431.2 | 433.0 | 432.4 | 440.1 | 442.5 | 447.8 | 449.0 | 457.3 |
| 15°   | 412.2 | 412.7 | 419.9 | 423.5 | 425.8 | 425.2 | 433.6 | 436.5 | 443.1 | 443.7 | 453.8 |
| 17.5° | 405.0 | 404.4 | 412.2 | 415.1 | 418.7 | 418.1 | 427.0 | 430.6 | 437.1 | 438.9 | 448.4 |
| 20°   | 399.1 | 398.5 | 405.6 | 409.2 | 411.6 | 411.0 | 419.9 | 424.1 | 430.0 | 431.2 | 440.7 |
| 22.5° | 391.9 | 390.7 | 397.9 | 400.9 | 403.2 | 402.6 | 410.4 | 413.4 | 419.3 | 420.5 | 429.4 |
| 25°   | 383.6 | 382.4 | 389.0 | 390.7 | 392.5 | 391.3 | 397.9 | 399.7 | 404.4 | 405.6 | 414.5 |
| 27.5° | 374.1 | 371.1 | 376.5 | 376.5 | 377.7 | 375.9 | 380.6 | 382.4 | 386.6 | 386.6 | 394.9 |
| 30°   | 359.2 | 355.1 | 358.0 | 357.4 | 358.0 | 355.7 | 358.6 | 359.2 | 362.2 | 361.6 | 367.5 |
| 32.5° | 338.4 | 332.5 | 334.3 | 332.5 | 330.7 | 327.1 | 330.7 | 329.5 | 331.9 | 329.5 | 334.8 |
| 35°   | 309.9 | 303.9 | 303.3 | 300.9 | 299.2 | 296.2 | 296.2 | 293.2 | 293.8 | 292.0 | 295.6 |
| 37.5° | 278.9 | 271.2 | 270.0 | 265.3 | 262.3 | 258.7 | 258.7 | 256.3 | 253.4 | 252.2 | 255.1 |
| 40°   | 248.6 | 240.3 | 237.3 | 229.6 | 226.6 | 223.0 | 220.6 | 217.7 | 216.5 | 211.7 | 214.1 |
| 42.5° | 222.4 | 213.5 | 207.0 | 198.6 | 195.7 | 190.3 | 186.7 | 183.2 | 181.4 | 176.0 | 178.4 |
| 45°   | 200.4 | 189.7 | 182.6 | 171.9 | 167.7 | 161.8 | 156.4 | 152.3 | 148.1 | 145.7 | 144.5 |
| 47.5° | 182.0 | 170.7 | 161.2 | 149.3 | 142.7 | 137.4 | 130.3 | 126.1 | 120.7 | 117.8 | 116.0 |
| 50°   | 166.5 | 154.0 | 143.3 | 129.6 | 123.1 | 117.2 | 108.8 | 102.3 | 97.5  | 92.8  | 91.6  |
| 52.5° | 152.8 | 139.8 | 127.9 | 112.4 | 104.7 | 97.5  | 88.6  | 81.5  | 77.3  | 72.0  | 71.4  |
| 55°   | 136.8 | 125.5 | 112.4 | 96.4  | 88.6  | 81.5  | 72.0  | 64.8  | 59.5  | 55.9  | 54.7  |
| 57.5° | 119.6 | 108.8 | 96.4  | 80.3  | 72.6  | 64.8  | 55.9  | 49.4  | 44.6  | 41.6  | 41.0  |
| 60°   | 103.5 | 93.4  | 81.5  | 65.4  | 57.7  | 51.2  | 41.6  | 35.1  | 30.9  | 28.5  | 27.3  |
| 62.5° | 91.6  | 82.1  | 70.8  | 55.9  | 48.8  | 42.2  | 33.3  | 27.3  | 23.8  | 21.4  | 20.2  |
| 65°   | 80.3  | 70.8  | 60.7  | 47.0  | 41.0  | 35.1  | 26.8  | 21.4  | 17.8  | 15.5  | 14.3  |
| 67.5° | 68.4  | 60.1  | 50.5  | 39.3  | 33.3  | 28.5  | 21.4  | 16.6  | 13.7  | 11.9  | 10.7  |
| 70°   | 56.5  | 48.8  | 41.0  | 31.5  | 27.3  | 22.6  | 16.6  | 13.1  | 10.1  | 8.9   | 7.7   |
| 72.5° | 44.6  | 38.7  | 32.1  | 24.4  | 20.8  | 17.8  | 13.1  | 9.5   | 7.7   | 6.6   | 5.4   |
| 75°   | 33.3  | 29.1  | 23.8  | 18.4  | 15.5  | 13.1  | 9.5   | 7.1   | 5.9   | 4.8   | 4.2   |
| 77.5° | 23.8  | 20.2  | 16.6  | 12.5  | 11.3  | 9.5   | 6.6   | 5.4   | 4.2   | 3.0   | 2.4   |
| 80°   | 16.1  | 14.3  | 11.3  | 8.9   | 7.1   | 6.6   | 4.8   | 3.6   | 2.4   | 1.8   | 1.8   |
| 82.5° | 10.7  | 8.9   | 7.1   | 5.4   | 4.8   | 4.2   | 3.0   | 2.4   | 1.8   | 1.2   | 1.2   |
| 85°   | 6.6   | 5.4   | 4.2   | 3.0   | 3.0   | 2.4   | 1.8   | 1.2   | 0.6   | 0.6   | 0.6   |
| 87.5° | 3.0   | 2.4   | 1.8   | 1.2   | 1.2   | 0.6   | 0.6   | 0.6   | 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):**

|       | 100°  | 105°  | 110°  | 112.5° | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 461.5 | 461.5 | 461.5 | 461.5  | 461.5 | 461.5 | 461.5 | 461.5 | 461.5 | 461.5 | 461.5 |
| 2.5°  | 467.5 | 463.9 | 461.5 | 464.5  | 465.7 | 463.9 | 465.7 | 468.7 | 471.6 | 472.2 | 463.9 |
| 5°    | 468.1 | 464.5 | 463.3 | 466.9  | 467.5 | 466.9 | 468.7 | 472.8 | 476.4 | 477.6 | 469.3 |
| 7.5°  | 468.1 | 465.7 | 465.1 | 469.3  | 469.8 | 469.3 | 472.2 | 477.0 | 480.5 | 482.9 | 474.6 |
| 10°   | 466.9 | 465.7 | 466.3 | 469.8  | 471.0 | 471.0 | 475.2 | 480.5 | 484.1 | 486.5 | 478.2 |
| 12.5° | 465.1 | 465.1 | 465.1 | 469.3  | 470.5 | 471.0 | 474.6 | 481.7 | 484.1 | 487.7 | 479.4 |
| 15°   | 462.1 | 462.1 | 462.1 | 466.3  | 468.1 | 468.1 | 472.2 | 478.8 | 481.7 | 485.3 | 477.0 |
| 17.5° | 456.8 | 456.8 | 457.3 | 460.9  | 462.7 | 462.7 | 466.9 | 474.0 | 475.8 | 480.0 | 471.6 |
| 20°   | 449.0 | 449.0 | 449.6 | 453.2  | 455.0 | 453.8 | 459.1 | 465.1 | 466.9 | 470.5 | 462.1 |
| 22.5° | 437.7 | 437.7 | 437.7 | 441.3  | 442.5 | 441.9 | 447.3 | 452.6 | 452.6 | 457.3 | 448.4 |
| 25°   | 421.1 | 422.3 | 421.1 | 424.6  | 425.8 | 425.2 | 430.0 | 434.8 | 433.6 | 438.9 | 430.0 |
| 27.5° | 400.9 | 400.3 | 400.3 | 403.2  | 403.2 | 402.6 | 406.2 | 411.6 | 410.4 | 413.9 | 405.6 |
| 30°   | 372.9 | 374.7 | 371.7 | 375.9  | 374.1 | 372.9 | 375.3 | 380.0 | 378.2 | 381.2 | 374.7 |
| 32.5° | 340.8 | 338.4 | 338.4 | 338.4  | 339.6 | 336.6 | 339.0 | 341.4 | 339.6 | 342.6 | 335.4 |
| 35°   | 298.6 | 299.2 | 297.4 | 298.0  | 298.6 | 295.0 | 297.4 | 299.7 | 297.4 | 299.2 | 292.6 |
| 37.5° | 256.3 | 256.9 | 252.8 | 255.1  | 252.8 | 251.6 | 254.0 | 255.1 | 252.8 | 254.5 | 247.4 |
| 40°   | 214.1 | 212.9 | 212.3 | 212.3  | 212.9 | 209.9 | 211.7 | 213.5 | 211.7 | 212.9 | 206.4 |
| 42.5° | 177.2 | 176.6 | 175.5 | 176.0  | 174.2 | 173.7 | 174.2 | 176.0 | 174.2 | 175.5 | 170.7 |
| 45°   | 145.1 | 143.9 | 142.1 | 142.7  | 142.7 | 139.8 | 141.5 | 142.7 | 141.0 | 141.5 | 137.4 |
| 47.5° | 115.4 | 113.6 | 113.6 | 113.0  | 113.0 | 111.8 | 113.6 | 113.0 | 111.2 | 112.4 | 108.2 |
| 50°   | 89.8  | 88.6  | 88.6  | 88.6   | 88.6  | 86.8  | 87.4  | 88.6  | 86.8  | 86.8  | 84.4  |
| 52.5° | 70.2  | 68.4  | 67.2  | 67.2   | 67.2  | 66.6  | 66.6  | 67.2  | 65.4  | 65.4  | 64.8  |
| 55°   | 52.9  | 52.3  | 50.5  | 50.5   | 50.5  | 48.8  | 49.4  | 49.4  | 48.8  | 48.8  | 47.0  |
| 57.5° | 39.3  | 37.5  | 36.3  | 36.3   | 35.1  | 35.1  | 34.5  | 35.1  | 33.9  | 33.9  | 32.7  |
| 60°   | 26.2  | 25.0  | 24.4  | 23.8   | 23.8  | 23.2  | 23.8  | 23.2  | 23.2  | 22.6  | 22.0  |
| 62.5° | 19.0  | 17.8  | 16.6  | 16.6   | 16.6  | 16.1  | 16.1  | 16.1  | 16.1  | 16.1  | 15.5  |
| 65°   | 13.7  | 12.5  | 12.5  | 11.9   | 11.9  | 11.3  | 11.3  | 11.3  | 11.3  | 11.3  | 10.7  |
| 67.5° | 9.5   | 8.9   | 8.3   | 8.3    | 8.3   | 8.3   | 8.3   | 8.3   | 7.7   | 7.7   | 7.7   |
| 70°   | 7.1   | 6.6   | 5.9   | 5.9    | 5.9   | 5.9   | 5.9   | 5.4   | 5.9   | 5.9   | 5.4   |
| 72.5° | 4.8   | 4.8   | 4.2   | 4.2    | 4.2   | 4.2   | 4.2   | 4.2   | 4.2   | 4.2   | 4.2   |
| 75°   | 3.6   | 3.6   | 3.0   | 3.0    | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |
| 77.5° | 2.4   | 2.4   | 1.8   | 1.8    | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   |
| 80°   | 1.8   | 1.2   | 1.2   | 1.2    | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   |
| 82.5° | 1.2   | 0.6   | 0.6   | 0.6    | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   |
| 85°   | 0.6   | 0.6   | 0.6   | 0.6    | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   | 0.0   |
| 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   |



TEST NUMBER: P859727

CATALOG NUMBER: LX4C08D010 EX4C089050 4LBSWNH

**CANDELA DISTRIBUTION (continued):**

|       | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°    | 461.5 | 461.5 | 461.5  | 461.5 | 461.5 | 461.5 | 461.5 | 461.5 |
| 2.5°  | 472.8 | 472.2 | 471.0  | 472.8 | 468.1 | 466.3 | 465.7 | 471.0 |
| 5°    | 479.4 | 478.2 | 478.2  | 480.0 | 474.6 | 473.4 | 472.2 | 478.2 |
| 7.5°  | 485.3 | 484.1 | 484.1  | 485.9 | 481.2 | 480.0 | 478.8 | 484.7 |
| 10°   | 488.9 | 488.9 | 488.9  | 490.1 | 485.9 | 484.7 | 484.1 | 490.1 |
| 12.5° | 490.7 | 490.7 | 490.1  | 492.4 | 487.1 | 487.1 | 485.9 | 491.9 |
| 15°   | 488.3 | 488.3 | 488.3  | 490.1 | 485.3 | 484.1 | 484.1 | 488.9 |
| 17.5° | 482.3 | 482.3 | 481.7  | 483.5 | 478.2 | 478.2 | 477.6 | 482.9 |
| 20°   | 473.4 | 473.4 | 472.2  | 474.6 | 469.3 | 467.5 | 466.9 | 472.2 |
| 22.5° | 459.1 | 458.5 | 458.0  | 459.1 | 454.4 | 453.2 | 452.6 | 457.3 |
| 25°   | 440.7 | 440.1 | 438.9  | 440.1 | 434.8 | 433.0 | 433.0 | 436.5 |
| 27.5° | 414.5 | 414.5 | 412.7  | 414.5 | 408.6 | 408.0 | 407.4 | 411.6 |
| 30°   | 382.4 | 380.0 | 378.9  | 381.2 | 375.3 | 375.3 | 374.1 | 378.2 |
| 32.5° | 342.6 | 340.2 | 339.6  | 340.8 | 335.4 | 333.6 | 336.0 | 338.4 |
| 35°   | 296.8 | 297.4 | 295.0  | 295.0 | 290.2 | 290.8 | 291.4 | 295.0 |
| 37.5° | 252.8 | 251.6 | 251.0  | 251.6 | 248.0 | 246.8 | 245.6 | 249.2 |
| 40°   | 211.7 | 208.8 | 208.2  | 208.2 | 205.2 | 204.6 | 205.2 | 207.0 |
| 42.5° | 173.1 | 172.5 | 170.1  | 171.3 | 168.3 | 169.5 | 168.9 | 168.9 |
| 45°   | 139.8 | 140.3 | 138.0  | 139.8 | 137.4 | 135.6 | 135.6 | 136.8 |
| 47.5° | 110.6 | 110.6 | 110.0  | 110.0 | 108.2 | 108.8 | 107.6 | 109.4 |
| 50°   | 85.6  | 85.6  | 84.4   | 85.0  | 83.9  | 83.9  | 83.3  | 83.9  |
| 52.5° | 65.4  | 64.8  | 64.8   | 64.2  | 63.0  | 63.6  | 64.2  | 63.0  |
| 55°   | 47.6  | 48.2  | 47.0   | 47.6  | 46.4  | 47.0  | 46.4  | 47.0  |
| 57.5° | 32.7  | 33.3  | 32.1   | 33.3  | 32.1  | 32.7  | 32.1  | 32.1  |
| 60°   | 22.6  | 22.6  | 22.0   | 22.6  | 22.0  | 22.0  | 21.4  | 22.6  |
| 62.5° | 15.5  | 15.5  | 15.5   | 15.5  | 15.5  | 14.9  | 15.5  | 15.5  |
| 65°   | 11.3  | 10.7  | 10.7   | 10.7  | 10.7  | 10.7  | 10.7  | 10.7  |
| 67.5° | 7.7   | 7.7   | 7.7    | 7.7   | 7.7   | 7.7   | 7.7   | 7.7   |
| 70°   | 5.4   | 5.4   | 5.4    | 5.4   | 5.4   | 5.4   | 5.4   | 5.4   |
| 72.5° | 4.2   | 4.2   | 4.2    | 4.2   | 4.2   | 4.2   | 4.2   | 4.2   |
| 75°   | 3.0   | 3.0   | 3.0    | 3.0   | 3.0   | 3.0   | 3.0   | 3.0   |
| 77.5° | 1.8   | 1.8   | 1.8    | 1.8   | 1.8   | 1.8   | 1.8   | 1.8   |
| 80°   | 1.2   | 1.2   | 1.2    | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   |
| 82.5° | 0.6   | 0.6   | 0.6    | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   |
| 85°   | 0.6   | 0.6   | 0.6    | 0.0   | 0.6   | 0.0   | 0.0   | 0.0   |
| 87.5° | 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   |



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













(END OF REPORT)