

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: P857045

Luminaire Tested: **LX4C15D010 EX4C159835 4LBLWW\***

Issue Date: 2/9/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P857045  
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: LX4C15D010 EX4C159835 4LBLWW\*  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

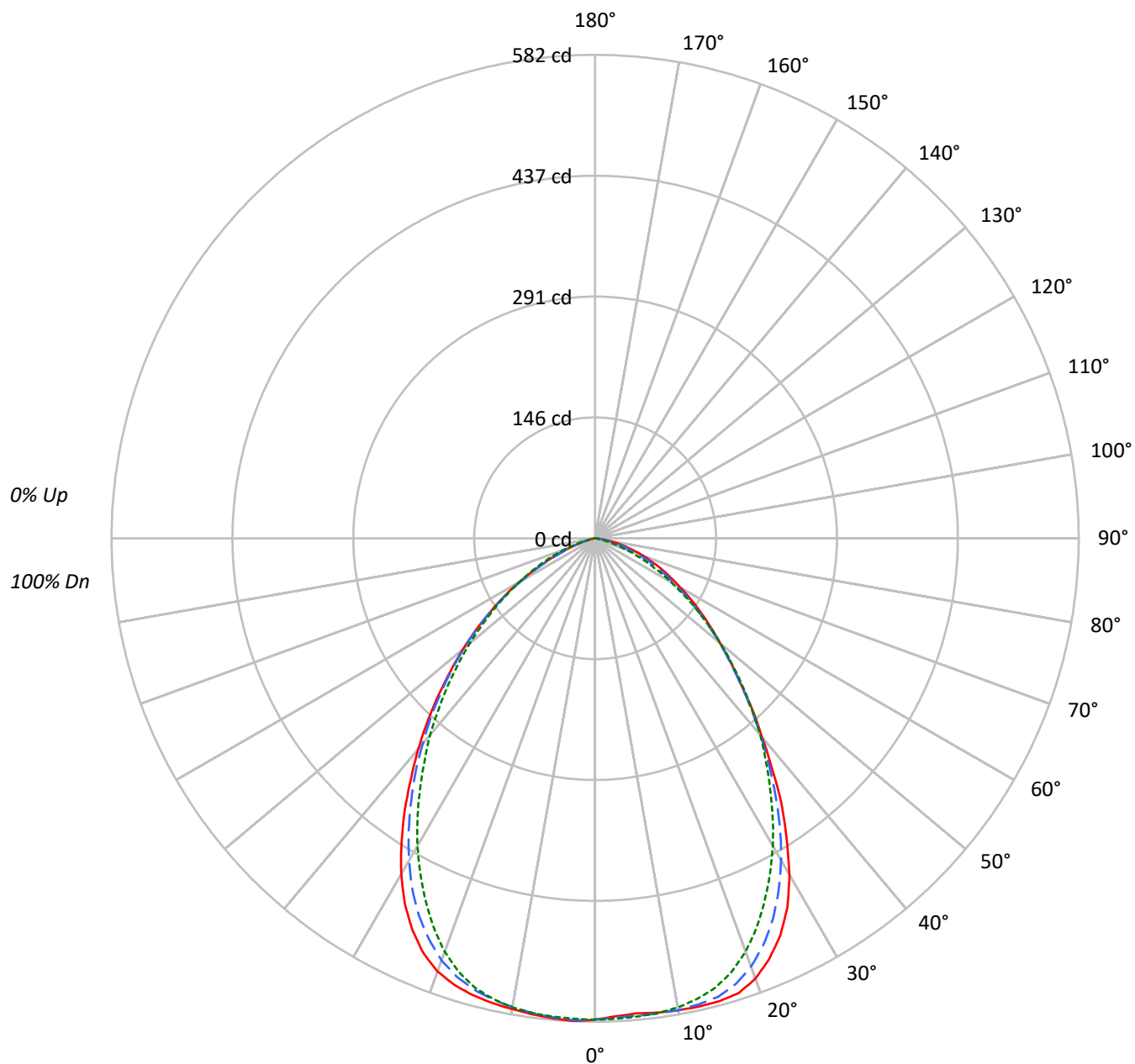
Lumens per Lamp: N/A  
Luminaire Lumens: 1111.1 lumens  
Efficiency: N/A  
Efficacy: 70.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 15.8  
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: P857045

CATALOG NUMBER: LX4C15D010 EX4C159835 4LBLWW\*

### Luminous Intensity Polar Plot





TEST NUMBER: P857045

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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  |
| RCR |     |     |     |     |     |     |     |     |  |     |     |     |  |  |     |     |     |  |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  |  | 106 | 106 | 106 |  |  | 102 |
| 1   | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 99  |  | 101 | 99  | 96  |  |  | 97  | 95  | 93  |  |  | 94  |
| 2   | 103 | 96  | 91  | 86  | 101 | 95  | 89  | 85  |  | 91  | 87  | 83  |  |  | 88  | 84  | 81  |  |  | 85  |
| 3   | 95  | 87  | 80  | 74  | 93  | 85  | 79  | 74  |  | 82  | 77  | 72  |  |  | 80  | 75  | 71  |  |  | 77  |
| 4   | 88  | 78  | 71  | 65  | 86  | 77  | 70  | 65  |  | 75  | 69  | 64  |  |  | 72  | 67  | 63  |  |  | 70  |
| 5   | 82  | 71  | 63  | 57  | 80  | 70  | 63  | 57  |  | 68  | 61  | 57  |  |  | 66  | 60  | 56  |  |  | 64  |
| 6   | 76  | 65  | 57  | 51  | 75  | 64  | 56  | 51  |  | 62  | 56  | 51  |  |  | 61  | 55  | 50  |  |  | 59  |
| 7   | 71  | 59  | 51  | 46  | 70  | 59  | 51  | 46  |  | 57  | 50  | 46  |  |  | 56  | 50  | 45  |  |  | 54  |
| 8   | 67  | 55  | 47  | 42  | 65  | 54  | 47  | 42  |  | 53  | 46  | 41  |  |  | 52  | 46  | 41  |  |  | 50  |
| 9   | 63  | 51  | 43  | 38  | 61  | 50  | 43  | 38  |  | 49  | 42  | 38  |  |  | 48  | 42  | 38  |  |  | 47  |
| 10  | 59  | 47  | 40  | 35  | 58  | 46  | 39  | 35  |  | 45  | 39  | 35  |  |  | 45  | 39  | 35  |  |  | 44  |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 71194 | 71194 | 71194 |
| 5°  | 70800 | 71281 | 71552 |
| 10° | 71980 | 71543 | 71805 |
| 15° | 73387 | 71212 | 72408 |
| 20° | 73749 | 69226 | 72533 |
| 25° | 71478 | 65378 | 70515 |
| 30° | 66347 | 60673 | 66220 |
| 35° | 58746 | 55041 | 59856 |
| 40° | 50085 | 49572 | 53084 |
| 45° | 43018 | 43522 | 46250 |
| 50° | 37556 | 37652 | 39640 |
| 55° | 33199 | 31786 | 32878 |
| 60° | 29092 | 25947 | 25824 |
| 65° | 25727 | 20116 | 17907 |
| 70° | 21983 | 13829 | 10632 |
| 75° | 17800 | 7452  | 4889  |
| 80° | 12169 | 1839  | 1273  |
| 85° | 3665  | 564   | 564   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 55.1   | 5.0       |
| 10°-20°   | 159.4  | 14.4      |
| 20°-30°   | 230.4  | 20.7      |
| 30°-40°   | 238.2  | 21.4      |
| 40°-50°   | 196.8  | 17.7      |
| 50°-60°   | 135.8  | 12.2      |
| 60°-70°   | 71.1   | 6.4       |
| 70°-80°   | 22.4   | 2.0       |
| 80°-90°   | 1.9    | 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°    | 444.9  | 40.0      |
| 0°-40°    | 683.1  | 61.5      |
| 0°-60°    | 1015.7 | 91.4      |
| 0°-90°    | 1111.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1111.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 580 | 580 | 580 | 580  | 580  |      |
| 5°  | 574 | 577 | 578 | 579  | 580  | 55   |
| 15° | 577 | 572 | 560 | 563  | 569  | 163  |
| 25° | 527 | 506 | 482 | 502  | 520  | 241  |
| 35° | 392 | 379 | 367 | 386  | 399  | 243  |
| 45° | 248 | 247 | 250 | 262  | 266  | 193  |
| 55° | 155 | 150 | 148 | 153  | 154  | 139  |
| 65° | 88  | 80  | 69  | 57   | 62   | 88   |
| 75° | 38  | 29  | 16  | 11   | 10   | 40   |
| 85° | 3   | 1   | 0   | 0    | 0    | 5    |
| 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°    | 579.5 | 579.5 | 579.5 | 579.5 | 579.5 | 579.5 | 579.5 | 579.5 | 579.5 | 579.5 | 579.5 |
| 2.5°  | 575.9 | 576.1 | 576.1 | 576.5 | 576.5 | 576.5 | 576.7 | 576.7 | 577.0 | 577.1 | 577.4 |
| 5°    | 574.1 | 574.1 | 574.5 | 574.7 | 575.2 | 575.4 | 575.9 | 576.1 | 576.5 | 576.7 | 577.0 |
| 7.5°  | 575.9 | 575.9 | 576.1 | 576.3 | 576.3 | 576.5 | 576.5 | 576.7 | 577.0 | 577.1 | 577.1 |
| 10°   | 577.0 | 577.0 | 577.0 | 577.0 | 577.1 | 577.1 | 577.1 | 577.0 | 577.0 | 577.0 | 576.7 |
| 12.5° | 577.4 | 577.4 | 577.1 | 577.0 | 577.1 | 577.0 | 577.0 | 576.3 | 575.9 | 575.4 | 574.7 |
| 15°   | 577.0 | 577.0 | 576.7 | 576.5 | 576.3 | 575.9 | 575.6 | 574.5 | 573.7 | 572.4 | 571.5 |
| 17.5° | 574.1 | 573.7 | 573.2 | 572.8 | 572.0 | 571.2 | 570.8 | 568.9 | 567.3 | 565.2 | 562.8 |
| 20°   | 564.1 | 563.7 | 563.0 | 561.9 | 560.8 | 559.9 | 558.7 | 555.8 | 554.3 | 551.0 | 548.7 |
| 22.5° | 547.8 | 547.4 | 547.5 | 545.6 | 543.4 | 542.1 | 541.3 | 538.9 | 536.2 | 532.1 | 529.5 |
| 25°   | 527.3 | 526.0 | 526.0 | 523.0 | 521.8 | 521.0 | 519.9 | 517.1 | 513.2 | 509.5 | 506.0 |
| 27.5° | 500.8 | 499.0 | 498.1 | 497.7 | 495.1 | 493.1 | 491.6 | 489.5 | 486.2 | 483.0 | 478.2 |
| 30°   | 467.7 | 467.5 | 466.4 | 464.4 | 462.5 | 461.6 | 459.9 | 456.1 | 453.1 | 450.7 | 447.7 |
| 32.5° | 428.7 | 428.5 | 428.5 | 428.5 | 427.2 | 427.0 | 424.4 | 422.4 | 420.0 | 416.4 | 414.4 |
| 35°   | 391.7 | 391.6 | 391.7 | 388.4 | 387.6 | 386.9 | 386.7 | 385.4 | 382.2 | 380.4 | 378.7 |
| 37.5° | 349.9 | 350.6 | 350.2 | 349.3 | 350.4 | 348.4 | 349.9 | 347.2 | 345.8 | 345.4 | 343.4 |
| 40°   | 312.3 | 314.1 | 312.3 | 312.6 | 313.6 | 311.7 | 311.7 | 311.2 | 310.3 | 309.9 | 309.4 |
| 42.5° | 280.1 | 278.0 | 279.2 | 278.1 | 279.2 | 278.6 | 277.5 | 278.1 | 278.3 | 277.5 | 277.2 |
| 45°   | 247.6 | 248.1 | 248.5 | 247.9 | 247.9 | 247.2 | 249.0 | 247.9 | 247.9 | 248.1 | 246.6 |
| 47.5° | 221.3 | 220.7 | 221.2 | 220.7 | 220.9 | 220.4 | 220.9 | 221.2 | 220.7 | 220.7 | 219.4 |
| 50°   | 196.5 | 196.1 | 197.6 | 196.3 | 196.3 | 196.1 | 196.3 | 195.8 | 195.2 | 195.2 | 195.6 |
| 52.5° | 175.0 | 174.1 | 173.9 | 175.0 | 173.4 | 173.4 | 173.7 | 173.3 | 172.4 | 171.9 | 170.9 |
| 55°   | 155.0 | 154.7 | 155.0 | 154.1 | 153.6 | 153.6 | 152.6 | 152.1 | 151.9 | 150.8 | 150.2 |
| 57.5° | 136.3 | 135.5 | 135.8 | 135.5 | 134.7 | 134.5 | 133.6 | 133.6 | 132.8 | 131.9 | 130.8 |
| 60°   | 118.4 | 118.4 | 119.0 | 118.2 | 117.5 | 117.1 | 116.6 | 116.2 | 114.7 | 113.2 | 111.8 |
| 62.5° | 102.5 | 102.7 | 102.5 | 101.8 | 101.4 | 100.9 | 100.6 | 99.3  | 97.9  | 97.0  | 95.5  |
| 65°   | 88.5  | 88.4  | 87.7  | 87.3  | 86.1  | 86.1  | 85.3  | 84.6  | 83.1  | 81.9  | 80.3  |
| 67.5° | 74.2  | 73.7  | 73.7  | 73.7  | 72.5  | 72.2  | 71.8  | 70.5  | 69.2  | 67.5  | 66.2  |
| 70°   | 61.2  | 61.6  | 60.9  | 60.3  | 59.7  | 59.4  | 58.8  | 57.4  | 55.9  | 54.2  | 53.1  |
| 72.5° | 48.8  | 49.2  | 48.5  | 48.3  | 47.0  | 46.5  | 46.4  | 45.3  | 43.5  | 42.4  | 40.7  |
| 75°   | 37.5  | 37.6  | 37.2  | 36.7  | 35.9  | 35.7  | 34.6  | 33.7  | 32.6  | 30.9  | 29.3  |
| 77.5° | 27.0  | 26.6  | 26.6  | 25.7  | 24.8  | 24.8  | 24.6  | 23.3  | 21.8  | 20.4  | 19.2  |
| 80°   | 17.2  | 16.9  | 16.3  | 15.9  | 15.2  | 15.0  | 14.8  | 13.7  | 12.7  | 11.8  | 10.9  |
| 82.5° | 8.7   | 8.5   | 8.3   | 8.0   | 7.6   | 7.2   | 7.4   | 6.5   | 6.1   | 5.3   | 4.5   |
| 85°   | 2.6   | 2.9   | 2.9   | 2.6   | 2.4   | 2.4   | 2.4   | 2.1   | 1.8   | 1.5   | 1.3   |
| 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°    | 579.5 | 579.5 | 579.5 | 579.5 | 579.5 | 579.5 | 579.5 | 579.5 | 579.5 | 579.5 | 579.5 |
| 2.5°  | 577.6 | 577.8 | 578.0 | 578.2 | 578.2 | 578.5 | 578.7 | 578.9 | 579.1 | 579.1 | 579.4 |
| 5°    | 577.1 | 577.6 | 577.6 | 577.8 | 577.8 | 577.8 | 578.0 | 578.0 | 578.0 | 578.0 | 578.2 |
| 7.5°  | 577.4 | 577.4 | 577.4 | 577.1 | 577.1 | 577.0 | 577.0 | 577.0 | 576.5 | 576.5 | 576.5 |
| 10°   | 576.3 | 576.1 | 575.9 | 575.4 | 575.2 | 575.0 | 574.5 | 574.1 | 573.7 | 573.5 | 573.0 |
| 12.5° | 574.1 | 573.2 | 572.4 | 571.5 | 571.1 | 570.8 | 570.0 | 569.3 | 568.7 | 568.0 | 567.6 |
| 15°   | 569.7 | 568.5 | 567.0 | 565.2 | 564.7 | 564.3 | 562.8 | 561.5 | 560.6 | 559.9 | 558.9 |
| 17.5° | 561.1 | 558.4 | 556.7 | 554.1 | 553.0 | 552.5 | 550.2 | 548.9 | 547.4 | 546.9 | 546.0 |
| 20°   | 545.6 | 543.2 | 539.9 | 537.5 | 536.2 | 535.0 | 533.0 | 531.2 | 529.5 | 529.5 | 528.4 |
| 22.5° | 526.2 | 523.2 | 519.1 | 516.0 | 515.8 | 513.2 | 511.4 | 509.5 | 508.8 | 507.5 | 507.5 |
| 25°   | 501.9 | 499.3 | 494.6 | 492.1 | 490.7 | 490.1 | 487.2 | 484.7 | 483.3 | 482.3 | 483.1 |
| 27.5° | 474.9 | 470.9 | 467.5 | 464.2 | 463.1 | 461.8 | 459.2 | 458.1 | 455.7 | 455.5 | 455.3 |
| 30°   | 444.0 | 440.1 | 436.6 | 435.1 | 432.9 | 431.8 | 429.8 | 428.5 | 427.7 | 427.7 | 427.2 |
| 32.5° | 411.5 | 408.1 | 406.3 | 403.1 | 402.0 | 400.5 | 399.1 | 397.8 | 398.3 | 397.8 | 398.1 |
| 35°   | 376.5 | 375.6 | 372.4 | 370.4 | 370.4 | 370.2 | 368.0 | 367.1 | 366.7 | 367.0 | 368.0 |
| 37.5° | 343.2 | 340.6 | 338.4 | 337.1 | 338.2 | 336.9 | 336.6 | 336.6 | 338.0 | 337.1 | 338.9 |
| 40°   | 307.7 | 307.5 | 306.7 | 307.1 | 307.3 | 305.8 | 306.2 | 306.4 | 307.3 | 309.1 | 309.3 |
| 42.5° | 276.8 | 276.6 | 276.6 | 276.6 | 276.2 | 275.3 | 276.2 | 277.7 | 277.5 | 278.8 | 279.9 |
| 45°   | 247.0 | 246.6 | 247.5 | 246.8 | 248.1 | 248.5 | 247.9 | 248.4 | 249.6 | 250.5 | 252.3 |
| 47.5° | 219.8 | 219.8 | 220.0 | 220.4 | 219.2 | 220.3 | 220.7 | 221.5 | 222.2 | 222.7 | 223.5 |
| 50°   | 194.6 | 194.6 | 194.1 | 194.1 | 194.1 | 194.8 | 194.0 | 195.0 | 195.2 | 197.0 | 198.1 |
| 52.5° | 171.3 | 170.1 | 170.9 | 170.4 | 169.5 | 169.1 | 169.5 | 169.8 | 171.0 | 171.5 | 172.8 |
| 55°   | 149.1 | 149.1 | 147.3 | 146.9 | 147.6 | 147.3 | 147.1 | 147.1 | 147.8 | 148.4 | 149.5 |
| 57.5° | 129.5 | 128.1 | 126.9 | 126.6 | 126.0 | 126.3 | 126.3 | 126.0 | 125.6 | 125.8 | 126.0 |
| 60°   | 111.0 | 110.1 | 108.2 | 108.2 | 108.0 | 107.7 | 106.7 | 106.4 | 105.3 | 105.6 | 104.7 |
| 62.5° | 94.0  | 93.5  | 91.0  | 90.1  | 90.1  | 89.4  | 88.4  | 88.1  | 86.6  | 86.6  | 85.8  |
| 65°   | 78.7  | 77.5  | 76.0  | 74.5  | 74.5  | 73.6  | 72.9  | 71.0  | 69.8  | 69.2  | 67.9  |
| 67.5° | 64.8  | 62.9  | 61.4  | 60.1  | 59.2  | 58.9  | 57.4  | 56.2  | 54.4  | 53.3  | 51.4  |
| 70°   | 51.4  | 49.8  | 48.3  | 47.0  | 46.1  | 45.3  | 43.8  | 41.8  | 40.5  | 38.5  | 37.2  |
| 72.5° | 38.7  | 37.5  | 36.1  | 34.4  | 33.3  | 32.6  | 31.1  | 29.3  | 27.2  | 25.9  | 24.2  |
| 75°   | 27.8  | 26.3  | 24.6  | 23.1  | 22.4  | 21.8  | 20.1  | 18.7  | 17.2  | 15.7  | 13.9  |
| 77.5° | 18.1  | 16.3  | 15.0  | 13.3  | 13.0  | 12.7  | 10.9  | 9.5   | 8.5   | 7.6   | 6.5   |
| 80°   | 9.5   | 8.7   | 7.6   | 6.5   | 6.1   | 5.4   | 4.5   | 3.9   | 3.3   | 2.6   | 2.1   |
| 82.5° | 4.1   | 3.5   | 2.9   | 2.4   | 2.1   | 2.0   | 1.5   | 1.3   | 1.1   | 1.1   | 0.9   |
| 85°   | 1.1   | 0.9   | 0.9   | 0.6   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.2   | 0.2   | 0.2   | 0.0   | 0.2   | 0.2   | 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°    | 579.5 | 579.5 | 579.5 | 579.5  | 579.5 | 579.5 | 579.5 | 579.5 | 579.5 | 579.5 | 579.5 |
| 2.5°  | 579.5 | 579.8 | 580.0 | 580.0  | 580.2 | 580.4 | 580.4 | 580.6 | 580.9 | 581.1 | 581.1 |
| 5°    | 578.5 | 578.5 | 578.5 | 578.7  | 578.7 | 578.7 | 578.7 | 579.1 | 579.1 | 579.4 | 579.5 |
| 7.5°  | 576.3 | 576.3 | 576.3 | 576.3  | 576.1 | 576.3 | 576.1 | 576.1 | 576.5 | 576.7 | 577.0 |
| 10°   | 572.8 | 572.6 | 572.6 | 572.4  | 572.4 | 572.4 | 572.6 | 572.8 | 573.0 | 573.2 | 573.9 |
| 12.5° | 567.3 | 567.1 | 567.1 | 567.0  | 567.0 | 567.1 | 567.3 | 567.8 | 568.7 | 569.1 | 570.0 |
| 15°   | 558.7 | 558.4 | 558.7 | 558.9  | 559.3 | 559.9 | 560.6 | 561.3 | 562.6 | 563.7 | 564.7 |
| 17.5° | 546.0 | 546.3 | 546.5 | 546.9  | 547.5 | 548.4 | 550.2 | 551.9 | 553.4 | 555.2 | 556.9 |
| 20°   | 528.6 | 529.5 | 529.7 | 531.2  | 531.7 | 533.6 | 535.6 | 538.2 | 540.6 | 542.8 | 545.2 |
| 22.5° | 507.8 | 508.4 | 509.3 | 511.0  | 512.1 | 514.7 | 517.1 | 520.2 | 522.7 | 525.6 | 529.1 |
| 25°   | 484.0 | 484.2 | 486.8 | 486.8  | 489.5 | 491.6 | 494.5 | 497.7 | 501.6 | 505.4 | 507.8 |
| 27.5° | 457.0 | 458.1 | 460.0 | 460.9  | 462.9 | 466.4 | 468.8 | 472.7 | 476.6 | 479.8 | 482.5 |
| 30°   | 428.7 | 429.6 | 432.9 | 433.3  | 434.8 | 437.8 | 441.1 | 444.8 | 447.9 | 451.6 | 454.0 |
| 32.5° | 398.9 | 401.3 | 403.2 | 404.8  | 405.2 | 409.8 | 411.5 | 414.1 | 417.6 | 421.3 | 423.8 |
| 35°   | 370.0 | 371.1 | 373.9 | 374.8  | 376.0 | 378.7 | 382.2 | 384.3 | 386.0 | 388.4 | 391.3 |
| 37.5° | 339.3 | 342.5 | 343.2 | 345.8  | 346.3 | 348.7 | 350.4 | 353.0 | 355.2 | 357.3 | 357.8 |
| 40°   | 310.8 | 311.8 | 314.2 | 314.9  | 315.3 | 318.6 | 320.8 | 321.5 | 322.5 | 324.5 | 327.1 |
| 42.5° | 281.8 | 282.9 | 285.5 | 284.9  | 286.9 | 288.4 | 289.5 | 292.0 | 293.1 | 293.8 | 293.8 |
| 45°   | 253.3 | 253.8 | 255.5 | 256.4  | 257.4 | 258.3 | 260.3 | 261.6 | 262.0 | 264.0 | 264.7 |
| 47.5° | 226.1 | 226.6 | 227.8 | 229.4  | 228.9 | 230.1 | 232.2 | 232.8 | 233.1 | 234.3 | 235.1 |
| 50°   | 199.4 | 200.5 | 202.2 | 201.7  | 203.0 | 203.7 | 205.6 | 206.1 | 206.1 | 206.3 | 206.5 |
| 52.5° | 174.3 | 175.2 | 175.7 | 176.0  | 176.7 | 177.8 | 178.7 | 178.3 | 179.2 | 180.0 | 179.3 |
| 55°   | 149.5 | 150.2 | 151.2 | 151.7  | 151.7 | 151.9 | 151.5 | 153.5 | 152.6 | 152.3 | 152.6 |
| 57.5° | 126.9 | 126.0 | 125.8 | 126.9  | 127.3 | 127.1 | 126.4 | 127.3 | 127.3 | 126.9 | 126.3 |
| 60°   | 104.9 | 104.2 | 104.1 | 104.2  | 103.4 | 102.7 | 103.2 | 102.7 | 101.7 | 101.2 | 101.4 |
| 62.5° | 84.9  | 84.2  | 82.5  | 82.5   | 82.0  | 81.9  | 80.1  | 80.3  | 79.5  | 78.1  | 78.6  |
| 65°   | 66.3  | 64.7  | 63.8  | 63.6   | 62.1  | 60.7  | 60.3  | 58.8  | 57.4  | 57.2  | 57.4  |
| 67.5° | 49.8  | 47.9  | 46.4  | 45.7   | 44.9  | 43.8  | 42.2  | 40.9  | 41.4  | 41.1  | 42.0  |
| 70°   | 34.6  | 33.3  | 31.7  | 30.7   | 31.1  | 29.8  | 29.0  | 29.0  | 29.2  | 29.3  | 29.8  |
| 72.5° | 23.1  | 21.3  | 20.7  | 20.1   | 19.6  | 18.7  | 19.2  | 19.2  | 18.9  | 19.2  | 18.7  |
| 75°   | 13.0  | 12.2  | 11.5  | 11.3   | 10.9  | 10.9  | 10.9  | 10.9  | 10.7  | 10.4  | 10.4  |
| 77.5° | 5.9   | 5.4   | 5.3   | 5.0    | 5.0   | 5.0   | 4.8   | 4.5   | 4.5   | 4.5   | 4.4   |
| 80°   | 2.0   | 2.0   | 2.0   | 2.0    | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |
| 82.5° | 0.9   | 0.9   | 1.1   | 1.1    | 1.1   | 0.9   | 1.1   | 1.1   | 0.9   | 0.9   | 1.1   |
| 85°   | 0.4   | 0.4   | 0.4   | 0.4    | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   |
| 87.5° | 0.2   | 0.2   | 0.2   | 0.0    | 0.2   | 0.2   | 0.2   | 0.2   | 0.0   | 0.2   | 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: P857045

CATALOG NUMBER: LX4C15D010 EX4C159835 4LBLWW\*

**CANDELA DISTRIBUTION (continued):**

|       | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°    | 579.5 | 579.5 | 579.5  | 579.5 | 579.5 | 579.5 | 579.5 | 579.5 |
| 2.5°  | 581.3 | 581.5 | 581.5  | 581.5 | 581.8 | 581.8 | 581.8 | 581.8 |
| 5°    | 579.8 | 580.0 | 580.0  | 580.0 | 580.2 | 580.2 | 580.2 | 580.2 |
| 7.5°  | 577.1 | 577.4 | 577.4  | 577.6 | 577.6 | 577.8 | 577.8 | 578.0 |
| 10°   | 574.1 | 574.5 | 574.7  | 575.0 | 575.2 | 575.4 | 575.4 | 575.6 |
| 12.5° | 570.8 | 571.2 | 571.5  | 572.0 | 572.4 | 572.6 | 572.8 | 573.0 |
| 15°   | 566.1 | 567.0 | 567.3  | 567.6 | 568.5 | 568.9 | 569.1 | 569.3 |
| 17.5° | 558.4 | 560.2 | 560.8  | 561.3 | 562.2 | 563.0 | 563.7 | 563.8 |
| 20°   | 547.5 | 549.5 | 550.4  | 551.5 | 552.8 | 553.9 | 554.3 | 554.8 |
| 22.5° | 532.4 | 534.5 | 535.8  | 537.1 | 538.2 | 539.3 | 541.0 | 540.4 |
| 25°   | 510.5 | 514.3 | 515.8  | 516.4 | 518.8 | 520.2 | 521.0 | 520.2 |
| 27.5° | 486.2 | 488.4 | 489.7  | 491.2 | 493.0 | 494.2 | 494.6 | 496.0 |
| 30°   | 456.8 | 460.5 | 460.3  | 461.8 | 464.0 | 465.3 | 465.8 | 466.8 |
| 32.5° | 426.3 | 428.1 | 429.4  | 429.2 | 430.0 | 432.4 | 431.6 | 433.6 |
| 35°   | 393.9 | 394.1 | 396.3  | 396.1 | 397.8 | 397.8 | 397.8 | 399.1 |
| 37.5° | 359.3 | 362.0 | 360.8  | 363.5 | 362.6 | 363.2 | 363.2 | 363.7 |
| 40°   | 327.7 | 328.6 | 328.6  | 329.5 | 330.1 | 329.5 | 329.9 | 331.0 |
| 42.5° | 295.1 | 296.0 | 296.2  | 295.8 | 296.4 | 298.4 | 296.9 | 298.2 |
| 45°   | 264.7 | 265.3 | 266.2  | 265.5 | 266.6 | 265.9 | 266.6 | 266.2 |
| 47.5° | 236.0 | 235.7 | 235.5  | 237.2 | 235.7 | 236.0 | 236.8 | 235.2 |
| 50°   | 206.5 | 207.9 | 207.0  | 207.6 | 208.0 | 208.0 | 207.4 | 207.4 |
| 52.5° | 180.4 | 180.2 | 179.5  | 180.2 | 179.8 | 180.0 | 180.4 | 180.0 |
| 55°   | 153.5 | 154.3 | 153.8  | 153.6 | 153.8 | 153.8 | 155.2 | 153.5 |
| 57.5° | 126.9 | 126.4 | 127.1  | 128.6 | 127.1 | 128.1 | 128.9 | 129.0 |
| 60°   | 101.7 | 101.7 | 102.9  | 102.3 | 103.6 | 104.7 | 105.6 | 105.1 |
| 62.5° | 77.5  | 78.6  | 79.0   | 79.2  | 80.5  | 81.4  | 81.4  | 81.1  |
| 65°   | 57.4  | 58.9  | 58.9   | 59.8  | 60.3  | 60.3  | 60.7  | 61.6  |
| 67.5° | 42.4  | 42.4  | 42.6   | 43.1  | 42.9  | 42.9  | 43.3  | 43.5  |
| 70°   | 29.6  | 29.2  | 29.8   | 29.6  | 29.6  | 29.3  | 29.6  | 29.6  |
| 72.5° | 18.7  | 18.7  | 18.9   | 18.7  | 18.3  | 18.5  | 18.5  | 18.9  |
| 75°   | 10.0  | 10.4  | 10.0   | 10.0  | 10.3  | 9.8   | 10.0  | 10.3  |
| 77.5° | 4.1   | 4.1   | 4.1    | 4.1   | 4.1   | 3.9   | 3.9   | 3.9   |
| 80°   | 2.0   | 2.0   | 2.0    | 2.0   | 2.0   | 2.0   | 1.8   | 1.8   |
| 82.5° | 0.9   | 1.1   | 0.9    | 1.1   | 0.9   | 0.9   | 0.9   | 0.9   |
| 85°   | 0.4   | 0.4   | 0.4    | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   |
| 87.5° | 0.0   | 0.2   | 0.0    | 0.2   | 0.0   | 0.0   | 0.0   | 0.2   |
| 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)