

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: P880543

Luminaire Tested: **LD4C10D010 EU4109030 4LBDWNH**

Issue Date: 10/4/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P880543  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251940)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/4/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C10D010 EU4109030 4LBDWNH  
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBDWN TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

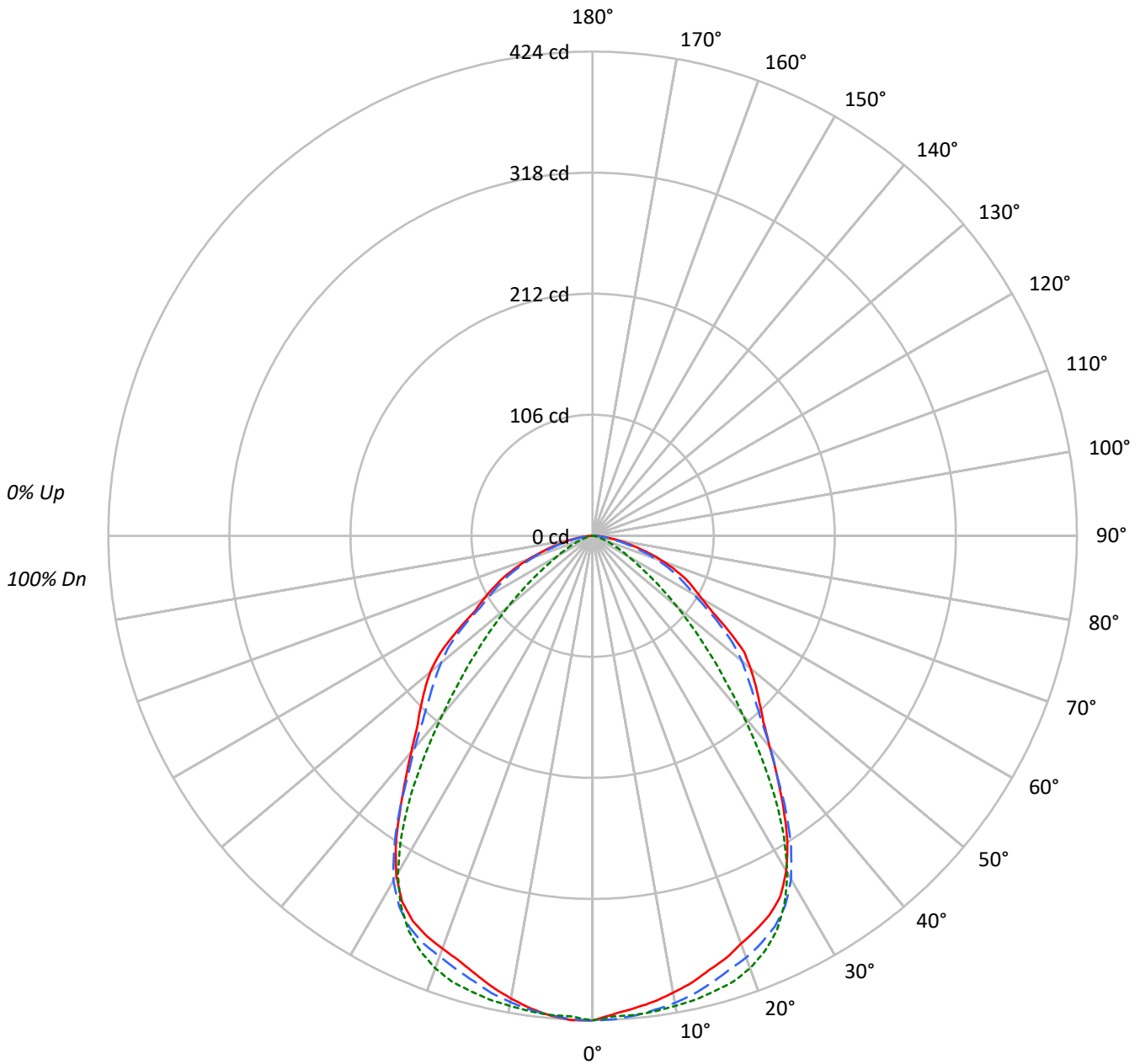
Lumens per Lamp: N/A  
Luminaire Lumens: 864.0 lumens  
Efficiency: N/A  
Efficacy: 88.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.19  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.75  
Input Voltage (V): NR  
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





TEST NUMBER: P880543

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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF  | 20  |     |     |     |     |     |     |     |     | 20  |     |     |     |     |     |     |     |     | 20 |    |   |  |  |  |  |  |  | 20 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |     | 50  |     |     |     |     |     |     |     |     | 30 |    |   |  |  |  |  |  |  | 10 |  |  |  |  |  |  |  |  | 0 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 | 0 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 111 | 107 | 103 | 100 | 108 | 104 | 101 | 98  | 100 | 98  | 95  | 96  | 94  | 92  | 93  | 91  | 89  | 88  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 102 | 95  | 89  | 84  | 100 | 93  | 88  | 83  | 90  | 85  | 81  | 87  | 83  | 80  | 84  | 81  | 78  | 76  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 94  | 85  | 78  | 72  | 92  | 84  | 77  | 72  | 81  | 75  | 70  | 78  | 73  | 69  | 76  | 72  | 68  | 66  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 87  | 77  | 69  | 63  | 85  | 75  | 68  | 62  | 73  | 67  | 62  | 71  | 65  | 61  | 69  | 64  | 60  | 58  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 81  | 69  | 61  | 55  | 79  | 68  | 61  | 55  | 66  | 60  | 54  | 64  | 58  | 54  | 63  | 57  | 53  | 51  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 75  | 63  | 55  | 49  | 73  | 62  | 55  | 49  | 60  | 54  | 49  | 59  | 53  | 48  | 57  | 52  | 48  | 46  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 70  | 58  | 50  | 44  | 68  | 57  | 49  | 44  | 56  | 49  | 44  | 54  | 48  | 43  | 53  | 47  | 43  | 41  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 66  | 53  | 45  | 40  | 64  | 52  | 45  | 40  | 51  | 44  | 40  | 50  | 44  | 39  | 49  | 43  | 39  | 37  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 62  | 49  | 41  | 36  | 60  | 49  | 41  | 36  | 47  | 41  | 36  | 46  | 40  | 36  | 45  | 40  | 36  | 34  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 58  | 46  | 38  | 33  | 57  | 45  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 42  | 37  | 33  | 31  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 52151 | 52151 | 52151 |
| 5°  | 51228 | 51956 | 52030 |
| 10° | 50685 | 52145 | 51334 |
| 15° | 50086 | 52503 | 50506 |
| 20° | 49693 | 52687 | 50295 |
| 25° | 49667 | 51700 | 50467 |
| 30° | 48090 | 48360 | 48743 |
| 35° | 43688 | 41633 | 44078 |
| 40° | 38650 | 32780 | 39596 |
| 45° | 35860 | 24967 | 36989 |
| 50° | 34460 | 18482 | 35454 |
| 55° | 31186 | 12723 | 30779 |
| 60° | 27126 | 8673  | 26954 |
| 65° | 26192 | 6279  | 24884 |
| 70° | 23707 | 4239  | 21121 |
| 75° | 19509 | 2801  | 16756 |
| 80° | 15706 | 1839  | 12452 |
| 85° | 12968 | 846   | 8317  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 40.1   | 4.6       |
| 10°-20°   | 114.6  | 13.3      |
| 20°-30°   | 173.1  | 20.0      |
| 30°-40°   | 181.2  | 21.0      |
| 40°-50°   | 146.7  | 17.0      |
| 50°-60°   | 106.7  | 12.4      |
| 60°-70°   | 65.8   | 7.6       |
| 70°-80°   | 29.7   | 3.4       |
| 80°-90°   | 6.0    | 0.7       |
| 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°    | 327.8  | 37.9      |
| 0°-40°    | 508.9  | 58.9      |
| 0°-60°    | 762.4  | 88.2      |
| 0°-90°    | 864.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 864.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 424 | 424 | 424 | 424  | 424  |      |
| 5°  | 415 | 422 | 421 | 421  | 422  | 39   |
| 15° | 394 | 405 | 413 | 404  | 397  | 111  |
| 25° | 366 | 378 | 381 | 379  | 372  | 168  |
| 35° | 291 | 295 | 278 | 295  | 294  | 182  |
| 45° | 206 | 200 | 144 | 202  | 213  | 160  |
| 55° | 146 | 136 | 59  | 138  | 144  | 130  |
| 65° | 90  | 81  | 22  | 80   | 86   | 88   |
| 75° | 41  | 35  | 6   | 31   | 35   | 45   |
| 85° | 9   | 7   | 1   | 5    | 6    | 10   |
| 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°    | 424.5 | 424.5 | 424.5 | 424.5 | 424.5 | 424.5 | 424.5 | 424.5 | 424.5 | 424.5 | 424.5 |
| 2.5°  | 419.3 | 419.3 | 423.2 | 427.8 | 423.9 | 419.9 | 422.6 | 421.3 | 425.9 | 425.9 | 423.9 |
| 5°    | 415.4 | 416.7 | 419.9 | 423.9 | 420.6 | 416.7 | 419.9 | 418.7 | 423.2 | 423.2 | 421.9 |
| 7.5°  | 411.5 | 412.1 | 416.1 | 420.6 | 417.3 | 413.4 | 416.1 | 415.4 | 419.3 | 419.9 | 418.7 |
| 10°   | 406.3 | 406.9 | 410.8 | 415.4 | 412.1 | 408.9 | 411.5 | 410.8 | 416.1 | 416.1 | 415.4 |
| 12.5° | 401.0 | 401.7 | 405.6 | 409.5 | 406.3 | 403.0 | 405.6 | 405.6 | 410.8 | 411.5 | 410.8 |
| 15°   | 393.8 | 395.1 | 398.4 | 402.3 | 400.4 | 396.5 | 399.1 | 399.1 | 403.6 | 404.9 | 404.9 |
| 17.5° | 388.0 | 388.6 | 391.9 | 395.8 | 393.2 | 389.9 | 392.5 | 392.5 | 397.1 | 398.4 | 398.4 |
| 20°   | 380.1 | 381.4 | 384.7 | 388.6 | 386.7 | 384.0 | 386.0 | 386.0 | 391.2 | 392.5 | 393.2 |
| 22.5° | 373.6 | 374.9 | 377.5 | 382.8 | 379.5 | 377.5 | 380.1 | 379.5 | 385.4 | 386.0 | 386.0 |
| 25°   | 366.4 | 367.7 | 371.0 | 374.2 | 372.3 | 370.3 | 372.3 | 372.3 | 376.9 | 377.5 | 377.5 |
| 27.5° | 356.0 | 356.6 | 359.9 | 363.2 | 361.2 | 358.6 | 361.2 | 360.5 | 365.1 | 365.8 | 365.1 |
| 30°   | 339.0 | 340.3 | 341.6 | 346.2 | 344.2 | 342.2 | 344.8 | 343.6 | 348.1 | 348.1 | 347.4 |
| 32.5° | 317.4 | 317.4 | 320.1 | 323.3 | 320.7 | 319.4 | 321.3 | 322.0 | 325.3 | 325.3 | 323.3 |
| 35°   | 291.3 | 292.6 | 294.5 | 296.5 | 294.5 | 293.3 | 295.2 | 294.5 | 298.5 | 297.2 | 295.2 |
| 37.5° | 265.2 | 265.8 | 267.8 | 270.4 | 267.8 | 265.8 | 266.5 | 265.8 | 269.1 | 269.1 | 265.8 |
| 40°   | 241.0 | 242.3 | 243.6 | 246.2 | 243.6 | 242.3 | 243.0 | 241.0 | 244.9 | 243.6 | 241.6 |
| 42.5° | 221.4 | 222.0 | 224.0 | 225.3 | 222.7 | 222.0 | 222.7 | 221.4 | 223.4 | 222.0 | 218.1 |
| 45°   | 206.4 | 206.4 | 207.1 | 209.0 | 206.4 | 205.7 | 205.7 | 204.4 | 206.4 | 203.8 | 199.9 |
| 47.5° | 193.3 | 194.0 | 194.7 | 195.9 | 194.0 | 192.0 | 192.7 | 190.1 | 191.4 | 189.4 | 184.2 |
| 50°   | 180.3 | 181.6 | 182.2 | 183.5 | 181.6 | 180.3 | 180.9 | 178.3 | 178.3 | 175.0 | 170.5 |
| 52.5° | 167.2 | 167.9 | 167.2 | 168.5 | 167.2 | 165.2 | 165.9 | 163.3 | 163.3 | 159.4 | 154.8 |
| 55°   | 145.6 | 146.3 | 147.0 | 148.3 | 147.0 | 145.0 | 146.3 | 144.4 | 144.4 | 141.7 | 136.5 |
| 57.5° | 124.1 | 124.8 | 125.4 | 126.0 | 126.0 | 124.8 | 125.4 | 124.1 | 123.4 | 121.5 | 117.6 |
| 60°   | 110.4 | 110.4 | 110.4 | 111.0 | 110.4 | 109.7 | 109.7 | 108.4 | 108.4 | 105.8 | 101.9 |
| 62.5° | 99.9  | 100.6 | 100.6 | 101.2 | 100.6 | 99.9  | 99.3  | 98.0  | 97.3  | 94.7  | 91.4  |
| 65°   | 90.1  | 90.1  | 89.5  | 90.8  | 90.1  | 89.5  | 89.5  | 88.2  | 86.9  | 84.3  | 81.0  |
| 67.5° | 78.4  | 79.0  | 78.4  | 79.0  | 79.0  | 78.4  | 77.7  | 76.4  | 75.8  | 73.8  | 69.9  |
| 70°   | 66.0  | 66.0  | 66.0  | 66.6  | 66.0  | 66.0  | 66.6  | 64.7  | 64.0  | 61.4  | 58.1  |
| 72.5° | 53.5  | 54.2  | 54.2  | 53.5  | 54.2  | 52.9  | 52.9  | 52.9  | 52.3  | 49.6  | 46.4  |
| 75°   | 41.1  | 41.8  | 41.8  | 42.5  | 41.8  | 41.1  | 41.1  | 40.5  | 39.8  | 37.9  | 35.3  |
| 77.5° | 30.7  | 30.7  | 31.3  | 31.3  | 31.3  | 30.7  | 30.7  | 29.4  | 29.4  | 28.1  | 25.5  |
| 80°   | 22.2  | 22.2  | 21.6  | 22.2  | 22.2  | 21.6  | 21.6  | 20.9  | 20.9  | 19.6  | 17.6  |
| 82.5° | 14.4  | 15.0  | 15.0  | 15.0  | 15.0  | 14.4  | 14.4  | 14.4  | 13.7  | 13.1  | 11.8  |
| 85°   | 9.2   | 9.2   | 9.2   | 9.2   | 9.8   | 9.2   | 9.8   | 9.2   | 9.2   | 7.8   | 7.2   |
| 87.5° | 3.9   | 3.9   | 3.9   | 4.6   | 4.6   | 3.9   | 3.9   | 3.9   | 3.9   | 3.9   | 3.3   |
| 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°    | 424.5 | 424.5 | 424.5 | 424.5 | 424.5 | 424.5 | 424.5 | 424.5 | 424.5 | 424.5 | 424.5 |
| 2.5°  | 423.9 | 424.5 | 422.6 | 425.2 | 423.2 | 423.9 | 424.5 | 423.9 | 421.3 | 421.3 | 428.5 |
| 5°    | 421.3 | 422.6 | 420.6 | 423.9 | 422.6 | 422.6 | 423.9 | 423.2 | 420.6 | 421.3 | 427.8 |
| 7.5°  | 418.7 | 420.6 | 419.3 | 422.6 | 420.6 | 420.6 | 421.9 | 421.9 | 419.3 | 419.9 | 425.9 |
| 10°   | 414.7 | 417.3 | 416.7 | 419.9 | 418.0 | 418.0 | 419.9 | 419.9 | 417.3 | 418.0 | 423.9 |
| 12.5° | 411.5 | 414.1 | 413.4 | 416.7 | 415.4 | 416.1 | 416.7 | 418.0 | 414.7 | 416.1 | 421.3 |
| 15°   | 406.3 | 408.9 | 408.9 | 412.1 | 410.8 | 412.1 | 413.4 | 415.4 | 412.8 | 412.8 | 418.0 |
| 17.5° | 400.4 | 403.6 | 403.6 | 406.3 | 406.3 | 406.9 | 409.5 | 411.5 | 408.9 | 409.5 | 414.1 |
| 20°   | 393.8 | 397.8 | 397.8 | 401.0 | 400.4 | 401.7 | 403.6 | 405.6 | 403.0 | 403.0 | 408.2 |
| 22.5° | 387.3 | 390.6 | 391.2 | 393.2 | 393.2 | 393.8 | 395.8 | 397.1 | 393.8 | 393.8 | 399.1 |
| 25°   | 378.2 | 381.4 | 382.1 | 383.4 | 382.1 | 382.1 | 383.4 | 384.7 | 381.4 | 381.4 | 386.0 |
| 27.5° | 365.8 | 369.0 | 369.0 | 368.4 | 367.0 | 367.7 | 367.0 | 367.7 | 364.4 | 363.8 | 368.4 |
| 30°   | 347.4 | 349.4 | 349.4 | 348.8 | 346.8 | 346.8 | 344.8 | 345.5 | 340.9 | 340.9 | 344.8 |
| 32.5° | 322.7 | 324.6 | 323.3 | 322.0 | 319.4 | 318.1 | 316.8 | 316.1 | 311.5 | 311.5 | 316.1 |
| 35°   | 293.3 | 294.5 | 292.6 | 290.0 | 286.7 | 284.7 | 282.8 | 280.2 | 276.9 | 277.6 | 280.2 |
| 37.5° | 263.2 | 263.2 | 260.6 | 255.4 | 252.8 | 249.5 | 246.2 | 246.2 | 241.0 | 240.4 | 242.3 |
| 40°   | 237.8 | 235.1 | 230.6 | 223.4 | 218.8 | 215.5 | 211.0 | 208.3 | 204.4 | 204.4 | 207.7 |
| 42.5° | 214.9 | 209.7 | 203.8 | 194.0 | 189.4 | 185.5 | 179.6 | 177.0 | 172.4 | 171.8 | 173.7 |
| 45°   | 194.7 | 189.4 | 180.9 | 170.5 | 164.6 | 160.0 | 151.5 | 148.3 | 144.4 | 143.7 | 145.0 |
| 47.5° | 178.3 | 172.4 | 162.0 | 148.3 | 142.4 | 136.5 | 128.0 | 123.4 | 120.2 | 118.2 | 120.2 |
| 50°   | 163.9 | 156.1 | 145.0 | 130.6 | 122.8 | 117.6 | 107.1 | 102.5 | 98.0  | 96.7  | 97.3  |
| 52.5° | 148.3 | 140.4 | 128.7 | 113.6 | 106.4 | 98.6  | 88.8  | 82.3  | 78.4  | 76.4  | 78.4  |
| 55°   | 131.3 | 123.4 | 111.7 | 96.7  | 88.8  | 81.7  | 71.2  | 66.0  | 61.4  | 59.4  | 61.4  |
| 57.5° | 113.0 | 105.8 | 95.4  | 80.3  | 73.1  | 66.6  | 56.8  | 51.6  | 47.0  | 45.7  | 47.0  |
| 60°   | 97.3  | 91.4  | 81.0  | 66.6  | 60.7  | 53.5  | 45.1  | 39.8  | 35.9  | 35.3  | 35.9  |
| 62.5° | 86.9  | 80.3  | 70.5  | 56.8  | 50.9  | 45.1  | 37.2  | 32.0  | 28.7  | 28.1  | 28.7  |
| 65°   | 76.4  | 69.2  | 60.1  | 48.3  | 42.5  | 37.9  | 30.0  | 25.5  | 22.2  | 21.6  | 22.2  |
| 67.5° | 64.7  | 58.1  | 50.3  | 39.8  | 35.3  | 30.7  | 24.2  | 19.6  | 17.0  | 16.3  | 17.0  |
| 70°   | 53.5  | 47.7  | 39.8  | 32.0  | 27.4  | 24.2  | 18.3  | 15.0  | 12.4  | 11.8  | 12.4  |
| 72.5° | 42.5  | 37.2  | 30.7  | 24.2  | 21.6  | 18.3  | 14.4  | 11.1  | 9.2   | 8.5   | 9.2   |
| 75°   | 32.7  | 28.7  | 23.5  | 17.6  | 15.7  | 13.7  | 9.8   | 7.8   | 6.5   | 5.9   | 6.5   |
| 77.5° | 22.9  | 20.2  | 16.3  | 13.1  | 11.1  | 9.8   | 7.2   | 5.2   | 4.6   | 3.9   | 4.6   |
| 80°   | 15.7  | 13.7  | 11.1  | 8.5   | 7.2   | 5.9   | 4.6   | 3.3   | 2.6   | 2.6   | 2.6   |
| 82.5° | 10.4  | 8.5   | 6.5   | 5.2   | 4.6   | 3.9   | 2.6   | 2.0   | 2.0   | 1.3   | 1.3   |
| 85°   | 5.9   | 5.2   | 3.9   | 3.3   | 2.6   | 2.0   | 1.3   | 1.3   | 0.6   | 0.6   | 0.6   |
| 87.5° | 2.6   | 2.0   | 1.3   | 1.3   | 0.6   | 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°    | 424.5 | 424.5 | 424.5 | 424.5  | 424.5 | 424.5 | 424.5 | 424.5 | 424.5 | 424.5 | 424.5 |
| 2.5°  | 426.5 | 424.5 | 427.1 | 424.5  | 423.2 | 424.5 | 423.2 | 427.1 | 423.9 | 421.3 | 423.9 |
| 5°    | 425.9 | 423.2 | 425.9 | 423.9  | 421.9 | 422.6 | 421.3 | 425.2 | 421.3 | 419.3 | 420.6 |
| 7.5°  | 424.5 | 422.6 | 423.9 | 421.9  | 419.9 | 420.6 | 419.3 | 422.6 | 418.7 | 416.7 | 418.0 |
| 10°   | 422.6 | 420.6 | 421.3 | 419.9  | 418.0 | 418.0 | 416.7 | 419.3 | 414.7 | 412.1 | 413.4 |
| 12.5° | 419.9 | 417.3 | 418.7 | 416.7  | 414.1 | 414.1 | 412.8 | 414.7 | 410.1 | 407.5 | 408.2 |
| 15°   | 416.7 | 414.1 | 414.1 | 412.1  | 409.5 | 409.5 | 406.9 | 408.9 | 403.6 | 401.0 | 401.0 |
| 17.5° | 412.8 | 409.5 | 409.5 | 407.5  | 404.3 | 403.6 | 401.7 | 403.6 | 397.8 | 395.1 | 395.1 |
| 20°   | 406.9 | 404.3 | 403.6 | 402.3  | 399.1 | 398.4 | 395.8 | 396.5 | 391.9 | 389.9 | 389.3 |
| 22.5° | 399.1 | 396.5 | 397.1 | 395.1  | 392.5 | 391.9 | 389.3 | 391.2 | 386.7 | 384.7 | 385.4 |
| 25°   | 385.4 | 384.0 | 385.4 | 384.7  | 382.8 | 382.8 | 381.4 | 382.8 | 378.8 | 377.5 | 378.2 |
| 27.5° | 369.7 | 369.0 | 369.7 | 369.7  | 368.4 | 368.4 | 368.4 | 370.3 | 366.4 | 365.8 | 365.8 |
| 30°   | 346.8 | 346.8 | 347.4 | 348.1  | 348.1 | 349.4 | 348.8 | 351.4 | 348.8 | 347.4 | 348.8 |
| 32.5° | 316.8 | 319.4 | 321.3 | 321.3  | 321.3 | 322.7 | 323.9 | 325.9 | 323.3 | 323.9 | 323.9 |
| 35°   | 282.8 | 284.7 | 286.1 | 289.3  | 287.4 | 291.9 | 293.3 | 295.9 | 295.2 | 296.5 | 295.9 |
| 37.5° | 244.9 | 247.6 | 250.2 | 254.7  | 254.1 | 259.3 | 261.9 | 267.1 | 265.8 | 268.4 | 269.7 |
| 40°   | 209.7 | 213.6 | 217.5 | 220.8  | 223.4 | 228.6 | 233.8 | 240.4 | 242.3 | 244.3 | 244.9 |
| 42.5° | 175.7 | 179.6 | 186.1 | 190.7  | 194.7 | 203.1 | 210.3 | 218.1 | 220.1 | 224.0 | 225.3 |
| 45°   | 148.3 | 151.5 | 159.4 | 165.2  | 168.5 | 180.9 | 189.4 | 199.2 | 202.5 | 207.1 | 209.0 |
| 47.5° | 122.8 | 128.7 | 136.5 | 143.7  | 148.3 | 161.3 | 172.4 | 182.9 | 187.5 | 192.7 | 195.3 |
| 50°   | 100.6 | 107.1 | 117.6 | 124.1  | 130.6 | 145.0 | 157.4 | 168.5 | 173.1 | 178.9 | 181.6 |
| 52.5° | 82.3  | 89.5  | 99.3  | 106.4  | 113.6 | 128.7 | 141.7 | 152.2 | 158.1 | 162.0 | 165.9 |
| 55°   | 64.7  | 72.5  | 82.3  | 90.1   | 96.0  | 112.3 | 123.4 | 133.9 | 137.8 | 141.1 | 143.0 |
| 57.5° | 50.3  | 56.2  | 66.0  | 72.5   | 79.7  | 94.0  | 105.2 | 113.0 | 116.2 | 120.2 | 121.5 |
| 60°   | 39.2  | 45.1  | 54.2  | 60.7   | 67.3  | 81.0  | 92.1  | 99.9  | 103.2 | 106.4 | 108.4 |
| 62.5° | 31.3  | 37.2  | 45.7  | 51.6   | 57.5  | 69.9  | 79.7  | 87.5  | 91.4  | 94.7  | 96.7  |
| 65°   | 24.8  | 30.0  | 37.2  | 43.1   | 47.7  | 58.8  | 68.6  | 75.8  | 79.7  | 82.9  | 84.9  |
| 67.5° | 19.6  | 24.2  | 30.7  | 34.6   | 39.2  | 48.3  | 56.8  | 63.3  | 66.6  | 70.5  | 72.5  |
| 70°   | 15.0  | 18.3  | 24.2  | 27.4   | 30.7  | 38.5  | 45.1  | 51.6  | 54.9  | 57.5  | 58.8  |
| 72.5° | 11.1  | 13.7  | 18.3  | 20.9   | 22.9  | 29.4  | 34.6  | 39.2  | 41.8  | 44.4  | 45.7  |
| 75°   | 7.8   | 9.8   | 13.1  | 15.0   | 16.3  | 20.9  | 25.5  | 28.7  | 30.7  | 32.7  | 34.6  |
| 77.5° | 5.2   | 6.5   | 8.5   | 9.8    | 11.1  | 14.4  | 17.0  | 19.6  | 21.6  | 23.5  | 24.2  |
| 80°   | 3.3   | 4.6   | 5.9   | 6.5    | 7.2   | 9.2   | 11.8  | 13.1  | 14.4  | 15.7  | 16.3  |
| 82.5° | 2.0   | 2.6   | 3.3   | 3.9    | 4.6   | 5.9   | 7.2   | 8.5   | 9.2   | 10.4  | 11.1  |
| 85°   | 0.6   | 1.3   | 1.3   | 2.0    | 2.0   | 3.3   | 3.9   | 4.6   | 5.2   | 5.9   | 6.5   |
| 87.5° | 0.0   | 0.0   | 0.6   | 0.6    | 0.6   | 0.6   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   |
| 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: P880543

CATALOG NUMBER: LD4C10D010 EU4109030 4LBDWNH

**CANDELA DISTRIBUTION (continued):**

|       | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°    | 424.5 | 424.5 | 424.5  | 424.5 | 424.5 | 424.5 | 424.5 | 424.5 |
| 2.5°  | 426.5 | 424.5 | 423.2  | 422.6 | 427.1 | 421.3 | 423.9 | 424.5 |
| 5°    | 423.9 | 421.9 | 420.6  | 419.9 | 423.9 | 418.7 | 420.6 | 421.9 |
| 7.5°  | 419.9 | 418.7 | 416.7  | 416.1 | 419.9 | 414.1 | 416.7 | 417.3 |
| 10°   | 415.4 | 413.4 | 412.1  | 411.5 | 414.7 | 408.9 | 411.5 | 411.5 |
| 12.5° | 409.5 | 408.2 | 405.6  | 405.6 | 408.2 | 403.0 | 404.9 | 404.9 |
| 15°   | 401.7 | 400.4 | 397.8  | 397.8 | 400.4 | 395.1 | 397.1 | 397.1 |
| 17.5° | 395.1 | 393.8 | 391.9  | 391.2 | 393.8 | 388.6 | 390.6 | 389.9 |
| 20°   | 389.9 | 388.6 | 386.0  | 386.0 | 388.0 | 382.8 | 384.7 | 384.7 |
| 22.5° | 385.4 | 384.7 | 382.1  | 382.1 | 384.7 | 379.5 | 380.8 | 379.5 |
| 25°   | 378.2 | 377.5 | 374.9  | 375.6 | 376.9 | 371.6 | 373.6 | 372.3 |
| 27.5° | 366.4 | 366.4 | 363.8  | 363.2 | 365.1 | 360.5 | 361.8 | 361.2 |
| 30°   | 348.1 | 348.8 | 345.5  | 345.5 | 346.2 | 342.2 | 344.2 | 343.6 |
| 32.5° | 323.3 | 323.9 | 321.3  | 320.7 | 322.7 | 319.4 | 320.7 | 320.7 |
| 35°   | 295.9 | 296.5 | 294.5  | 294.5 | 296.5 | 294.5 | 294.5 | 293.9 |
| 37.5° | 268.4 | 269.7 | 268.4  | 269.1 | 270.4 | 268.4 | 269.7 | 269.1 |
| 40°   | 246.2 | 247.6 | 245.6  | 246.9 | 248.2 | 246.2 | 248.2 | 246.9 |
| 42.5° | 226.0 | 227.9 | 226.6  | 227.9 | 229.2 | 227.9 | 229.2 | 227.3 |
| 45°   | 211.0 | 212.3 | 211.6  | 212.3 | 213.6 | 212.9 | 213.6 | 212.9 |
| 47.5° | 196.6 | 199.2 | 197.9  | 199.2 | 201.2 | 199.9 | 201.2 | 199.2 |
| 50°   | 183.5 | 185.5 | 184.9  | 186.1 | 186.8 | 186.1 | 187.5 | 185.5 |
| 52.5° | 166.5 | 168.5 | 167.9  | 167.9 | 169.1 | 167.9 | 169.1 | 167.9 |
| 55°   | 144.4 | 145.0 | 145.0  | 145.6 | 145.0 | 144.4 | 145.0 | 143.7 |
| 57.5° | 122.8 | 124.1 | 122.1  | 124.1 | 123.4 | 122.8 | 122.8 | 121.5 |
| 60°   | 109.1 | 111.0 | 109.7  | 111.0 | 110.4 | 110.4 | 110.4 | 109.7 |
| 62.5° | 98.0  | 99.3  | 98.0   | 98.6  | 98.6  | 98.6  | 98.0  | 97.3  |
| 65°   | 85.6  | 87.5  | 86.2   | 86.9  | 86.2  | 85.6  | 86.2  | 85.6  |
| 67.5° | 73.1  | 73.8  | 73.8   | 73.1  | 73.1  | 73.1  | 73.1  | 71.9  |
| 70°   | 59.4  | 60.1  | 59.4   | 60.7  | 60.1  | 59.4  | 60.1  | 58.8  |
| 72.5° | 46.4  | 47.0  | 46.4   | 47.0  | 46.4  | 46.4  | 46.4  | 46.4  |
| 75°   | 34.6  | 35.3  | 35.3   | 35.3  | 35.3  | 35.3  | 34.0  | 35.3  |
| 77.5° | 24.8  | 24.8  | 24.8   | 25.5  | 24.8  | 24.8  | 24.8  | 24.8  |
| 80°   | 17.0  | 17.0  | 17.0   | 17.6  | 17.0  | 17.6  | 17.0  | 17.6  |
| 82.5° | 11.1  | 11.1  | 11.1   | 11.1  | 11.1  | 11.1  | 11.1  | 11.1  |
| 85°   | 5.9   | 6.5   | 6.5    | 5.9   | 5.9   | 5.9   | 5.9   | 5.9   |
| 87.5° | 1.3   | 0.6   | 0.6    | 0.6   | 0.6   | 0.6   | 0.6   | 0.6   |
| 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)