

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P274349

Luminaire Tested: **LD4B10DE010W2N2765 EU4B1020W2N902765 4LBLWW0H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P274349  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-12)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD4B10DE010W2N2765 EU4B1020W2N902765 4LBLWW0H  
Description: PORTFOLIO 4" W2N RN DOWNLIGHT, LENSED WALLWASH WITH HAZE FINISH  
Light Source: W2N 2700K-6500K CCT TUNING RANGE  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 797.4 lumens  
Efficiency: N/A  
Efficacy: 57.0 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.03 / 1.12  
Luminous Opening: Circular (Dia: 0.38' x H: 0')  
CIE Type: Direct

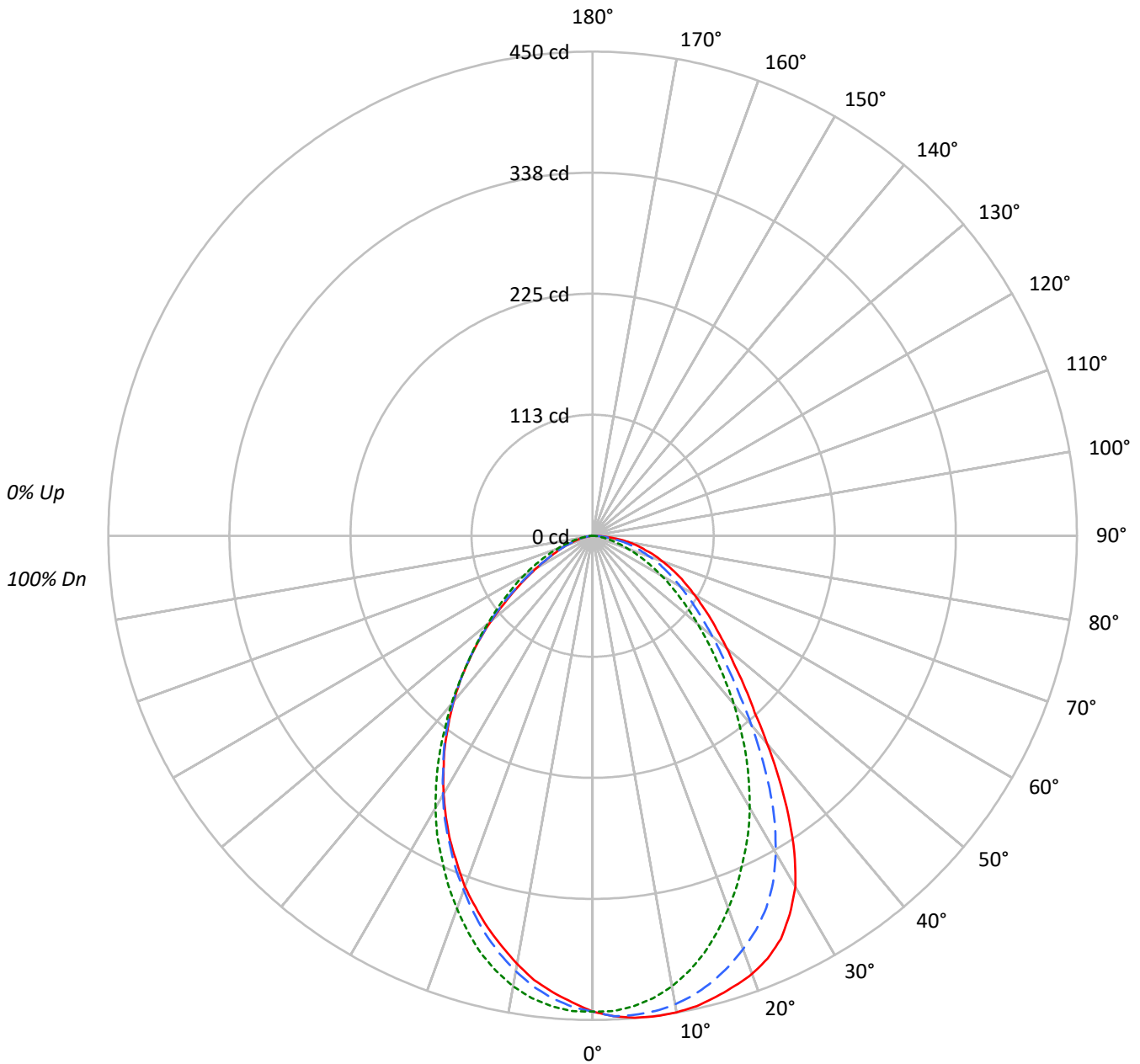
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





TEST NUMBER: P274349

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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |  |  |  |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|--|--|--|--|---|
| RF  | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |    |    | 20 |  |  |  |  |   |
| RC  | 80  |     |     |     |     | 70  |     |     |     |     | 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  | 90  | 88  |    |    |    |  |  |  |  |   |
| 2   | 102 | 95  | 89  | 85  | 100 | 93  | 88  | 84  | 90  | 85  | 82  | 87  | 83  | 80  | 84  | 81  | 78  | 76  |    |    |    |  |  |  |  |   |
| 3   | 94  | 85  | 78  | 73  | 92  | 84  | 77  | 72  | 81  | 75  | 71  | 78  | 74  | 70  | 76  | 72  | 69  | 67  |    |    |    |  |  |  |  |   |
| 4   | 88  | 77  | 69  | 63  | 85  | 76  | 69  | 63  | 73  | 67  | 62  | 71  | 66  | 61  | 69  | 64  | 61  | 59  |    |    |    |  |  |  |  |   |
| 5   | 81  | 70  | 62  | 56  | 79  | 69  | 61  | 56  | 67  | 60  | 55  | 65  | 59  | 55  | 63  | 58  | 54  | 52  |    |    |    |  |  |  |  |   |
| 6   | 76  | 64  | 56  | 50  | 74  | 63  | 55  | 50  | 61  | 54  | 49  | 60  | 54  | 49  | 58  | 53  | 49  | 47  |    |    |    |  |  |  |  |   |
| 7   | 71  | 59  | 51  | 45  | 69  | 58  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 44  | 54  | 48  | 44  | 42  |    |    |    |  |  |  |  |   |
| 8   | 66  | 54  | 46  | 41  | 65  | 53  | 46  | 41  | 52  | 45  | 41  | 51  | 45  | 40  | 50  | 44  | 40  | 38  |    |    |    |  |  |  |  |   |
| 9   | 62  | 50  | 42  | 37  | 61  | 49  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 35  |    |    |    |  |  |  |  |   |
| 10  | 59  | 46  | 39  | 34  | 57  | 46  | 39  | 34  | 45  | 39  | 34  | 44  | 38  | 34  | 43  | 38  | 34  | 32  |    |    |    |  |  |  |  |   |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 43096 | 43096 | 43096 |
| 5°  | 43994 | 42928 | 41666 |
| 10° | 44503 | 42078 | 39990 |
| 15° | 44757 | 40500 | 38028 |
| 20° | 44949 | 38239 | 35988 |
| 25° | 44476 | 35626 | 33647 |
| 30° | 42414 | 32849 | 31161 |
| 35° | 37715 | 29541 | 28494 |
| 40° | 32111 | 25966 | 25534 |
| 45° | 27662 | 22314 | 22218 |
| 50° | 24653 | 19286 | 18664 |
| 55° | 22649 | 16651 | 14918 |
| 60° | 21226 | 14326 | 11675 |
| 65° | 20386 | 12084 | 9109  |
| 70° | 19576 | 9688  | 7380  |
| 75° | 18940 | 7682  | 5648  |
| 80° | 19082 | 5332  | 3424  |
| 85° | 15990 | 3802  | 1565  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 41.4   | 5.2       |
| 10°-20°   | 113.8  | 14.3      |
| 20°-30°   | 159.2  | 20.0      |
| 30°-40°   | 163.6  | 20.5      |
| 40°-50°   | 132.8  | 16.7      |
| 50°-60°   | 93.5   | 11.7      |
| 60°-70°   | 57.6   | 7.2       |
| 70°-80°   | 28.8   | 3.6       |
| 80°-90°   | 6.8    | 0.9       |
| 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°    | 314.4  | 39.4      |
| 0°-40°    | 478.0  | 59.9      |
| 0°-60°    | 704.2  | 88.3      |
| 0°-90°    | 797.4  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 797.4  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 442 | 442 | 442 | 442  | 442  |      |
| 5°  | 450 | 447 | 439 | 431  | 426  | 43   |
| 15° | 444 | 429 | 401 | 384  | 377  | 125  |
| 25° | 414 | 382 | 331 | 315  | 313  | 189  |
| 35° | 317 | 286 | 248 | 241  | 240  | 197  |
| 45° | 201 | 181 | 162 | 162  | 161  | 156  |
| 55° | 133 | 117 | 98  | 90   | 88   | 120  |
| 65° | 88  | 74  | 52  | 40   | 40   | 87   |
| 75° | 50  | 40  | 20  | 15   | 15   | 54   |
| 85° | 14  | 10  | 3   | 2    | 1    | 17   |
| 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°    | 442.2 | 442.2 | 442.2 | 442.2 | 442.2 | 442.2 | 442.2 | 442.2 | 442.2 | 442.2 | 442.2 |
| 2.5°  | 447.0 | 447.7 | 445.6 | 447.7 | 444.9 | 446.3 | 447.0 | 445.6 | 444.3 | 447.0 | 447.0 |
| 5°    | 449.7 | 449.7 | 447.7 | 450.4 | 447.0 | 447.7 | 449.0 | 447.0 | 444.9 | 447.7 | 447.0 |
| 7.5°  | 450.4 | 450.4 | 447.7 | 450.4 | 447.0 | 447.7 | 448.3 | 446.3 | 444.3 | 446.3 | 445.6 |
| 10°   | 449.7 | 449.0 | 447.0 | 449.7 | 446.3 | 446.3 | 447.0 | 444.9 | 441.5 | 443.6 | 442.2 |
| 12.5° | 447.7 | 447.7 | 444.9 | 447.7 | 442.9 | 442.9 | 443.6 | 440.8 | 438.1 | 438.1 | 436.8 |
| 15°   | 443.6 | 443.6 | 440.8 | 442.9 | 438.8 | 438.8 | 438.1 | 435.4 | 432.0 | 432.0 | 429.3 |
| 17.5° | 438.8 | 438.8 | 436.1 | 438.1 | 433.4 | 433.4 | 432.7 | 428.6 | 423.8 | 423.2 | 419.8 |
| 20°   | 433.4 | 433.4 | 430.0 | 431.3 | 425.9 | 425.9 | 425.2 | 420.4 | 415.0 | 413.6 | 408.9 |
| 22.5° | 425.2 | 425.2 | 421.8 | 422.5 | 417.0 | 416.4 | 415.7 | 410.2 | 404.8 | 402.8 | 396.6 |
| 25°   | 413.6 | 413.0 | 410.2 | 410.2 | 404.8 | 403.4 | 402.1 | 396.6 | 391.2 | 387.1 | 381.7 |
| 27.5° | 396.6 | 397.3 | 393.9 | 394.6 | 387.8 | 386.4 | 385.7 | 378.9 | 372.8 | 368.7 | 363.3 |
| 30°   | 376.9 | 374.9 | 371.5 | 371.5 | 366.0 | 365.3 | 364.0 | 357.8 | 351.0 | 346.3 | 340.2 |
| 32.5° | 349.0 | 348.3 | 344.9 | 344.9 | 338.8 | 338.8 | 336.1 | 330.0 | 323.8 | 321.1 | 315.0 |
| 35°   | 317.0 | 316.3 | 313.6 | 313.6 | 308.2 | 308.9 | 306.1 | 301.4 | 295.3 | 291.2 | 286.4 |
| 37.5° | 284.4 | 283.7 | 281.0 | 281.7 | 276.9 | 276.9 | 274.9 | 270.1 | 265.3 | 263.3 | 257.2 |
| 40°   | 252.4 | 251.7 | 248.3 | 250.4 | 246.3 | 244.9 | 244.2 | 240.8 | 235.4 | 232.7 | 229.3 |
| 42.5° | 223.1 | 223.8 | 220.4 | 221.8 | 218.4 | 217.0 | 216.3 | 213.6 | 209.5 | 206.8 | 203.4 |
| 45°   | 200.7 | 199.3 | 198.0 | 198.0 | 194.6 | 193.9 | 193.2 | 189.8 | 187.1 | 184.4 | 181.0 |
| 47.5° | 179.6 | 178.2 | 176.9 | 177.6 | 174.8 | 174.2 | 172.8 | 170.1 | 166.7 | 165.3 | 161.9 |
| 50°   | 162.6 | 161.9 | 159.9 | 159.9 | 157.2 | 156.5 | 155.1 | 153.1 | 149.7 | 147.6 | 144.9 |
| 52.5° | 146.9 | 146.9 | 144.9 | 144.2 | 142.2 | 141.5 | 140.8 | 138.1 | 135.4 | 132.7 | 129.9 |
| 55°   | 133.3 | 132.7 | 131.3 | 131.3 | 128.6 | 127.9 | 127.2 | 124.5 | 121.8 | 119.7 | 117.0 |
| 57.5° | 120.4 | 120.4 | 119.1 | 119.1 | 117.0 | 115.7 | 115.7 | 112.9 | 109.5 | 108.2 | 104.8 |
| 60°   | 108.9 | 108.9 | 107.5 | 107.5 | 105.4 | 105.4 | 104.1 | 101.4 | 99.3  | 96.6  | 93.9  |
| 62.5° | 98.0  | 98.6  | 97.3  | 96.6  | 94.6  | 93.9  | 93.9  | 91.8  | 88.4  | 86.4  | 83.7  |
| 65°   | 88.4  | 87.8  | 87.1  | 86.4  | 84.4  | 83.7  | 83.7  | 81.0  | 78.9  | 76.2  | 74.2  |
| 67.5° | 78.2  | 78.2  | 76.9  | 76.9  | 75.5  | 74.8  | 73.5  | 71.4  | 69.4  | 67.4  | 65.3  |
| 70°   | 68.7  | 68.7  | 68.0  | 68.0  | 66.0  | 65.3  | 64.6  | 62.6  | 60.5  | 58.5  | 55.8  |
| 72.5° | 59.9  | 59.2  | 58.5  | 58.5  | 57.1  | 56.5  | 55.8  | 53.7  | 51.7  | 49.7  | 47.6  |
| 75°   | 50.3  | 50.3  | 49.7  | 49.7  | 48.3  | 47.6  | 47.6  | 46.3  | 43.5  | 42.2  | 39.5  |
| 77.5° | 42.2  | 42.2  | 41.5  | 41.5  | 40.1  | 40.1  | 39.5  | 37.4  | 36.1  | 34.0  | 32.7  |
| 80°   | 34.0  | 33.3  | 33.3  | 32.7  | 31.3  | 31.3  | 30.6  | 29.9  | 27.9  | 26.5  | 24.5  |
| 82.5° | 23.8  | 23.8  | 23.8  | 23.1  | 22.5  | 22.5  | 21.8  | 20.4  | 19.0  | 18.4  | 16.3  |
| 85°   | 14.3  | 14.3  | 13.6  | 12.9  | 13.6  | 12.9  | 12.2  | 11.6  | 10.9  | 10.2  | 9.5   |
| 87.5° | 6.1   | 6.1   | 5.4   | 5.4   | 5.4   | 5.4   | 5.4   | 4.8   | 4.1   | 4.1   | 3.4   |
| 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°    | 442.2 | 442.2 | 442.2 | 442.2 | 442.2 | 442.2 | 442.2 | 442.2 | 442.2 | 442.2 | 442.2 |
| 2.5°  | 442.9 | 444.9 | 444.3 | 443.6 | 442.2 | 442.2 | 442.2 | 441.5 | 442.2 | 442.2 | 440.8 |
| 5°    | 442.9 | 444.3 | 443.6 | 442.2 | 440.8 | 440.8 | 440.2 | 438.8 | 438.8 | 438.8 | 436.1 |
| 7.5°  | 440.8 | 442.2 | 440.2 | 438.8 | 437.4 | 436.1 | 436.1 | 434.0 | 434.0 | 433.4 | 430.6 |
| 10°   | 436.8 | 437.4 | 434.7 | 433.4 | 431.3 | 430.6 | 429.3 | 426.6 | 425.9 | 425.2 | 422.5 |
| 12.5° | 430.6 | 431.3 | 427.9 | 425.2 | 422.5 | 421.8 | 420.4 | 417.0 | 415.7 | 414.3 | 410.9 |
| 15°   | 421.8 | 421.8 | 417.7 | 414.3 | 411.6 | 410.9 | 407.5 | 404.1 | 402.8 | 401.4 | 396.6 |
| 17.5° | 411.6 | 410.9 | 405.5 | 402.1 | 398.7 | 397.3 | 393.9 | 389.8 | 387.1 | 385.7 | 381.7 |
| 20°   | 400.7 | 398.7 | 392.5 | 389.1 | 385.1 | 383.0 | 379.6 | 374.2 | 371.5 | 368.7 | 364.7 |
| 22.5° | 387.8 | 385.1 | 378.3 | 373.5 | 369.4 | 367.4 | 362.6 | 357.8 | 353.8 | 351.0 | 346.3 |
| 25°   | 372.1 | 368.7 | 361.3 | 355.1 | 351.7 | 349.7 | 344.9 | 339.5 | 335.4 | 331.3 | 327.2 |
| 27.5° | 353.8 | 349.7 | 342.2 | 336.1 | 332.7 | 329.3 | 325.9 | 319.8 | 316.3 | 312.9 | 308.2 |
| 30°   | 331.3 | 326.6 | 319.8 | 314.3 | 310.2 | 307.5 | 303.4 | 298.0 | 293.9 | 291.9 | 287.1 |
| 32.5° | 306.8 | 301.4 | 295.3 | 289.8 | 287.8 | 284.4 | 281.0 | 275.5 | 272.1 | 270.1 | 266.7 |
| 35°   | 279.6 | 275.5 | 268.7 | 264.6 | 261.2 | 259.9 | 257.2 | 251.7 | 250.4 | 248.3 | 244.2 |
| 37.5° | 251.0 | 247.6 | 242.9 | 239.5 | 236.8 | 235.4 | 232.7 | 229.3 | 227.2 | 225.2 | 223.1 |
| 40°   | 224.5 | 221.8 | 217.7 | 215.0 | 211.6 | 209.5 | 209.5 | 205.5 | 204.1 | 204.1 | 202.1 |
| 42.5° | 198.7 | 197.3 | 193.9 | 189.8 | 189.1 | 187.1 | 186.4 | 184.4 | 183.0 | 182.3 | 181.6 |
| 45°   | 176.9 | 174.8 | 171.4 | 169.4 | 167.4 | 167.4 | 165.3 | 163.3 | 162.6 | 161.9 | 161.2 |
| 47.5° | 157.8 | 155.1 | 152.4 | 150.4 | 149.0 | 148.3 | 146.3 | 144.9 | 144.2 | 144.2 | 143.5 |
| 50°   | 140.8 | 138.8 | 136.1 | 134.0 | 132.7 | 131.3 | 129.9 | 128.6 | 127.9 | 127.2 | 127.2 |
| 52.5° | 126.5 | 123.8 | 121.1 | 119.1 | 117.0 | 116.3 | 115.0 | 113.6 | 112.9 | 112.3 | 111.6 |
| 55°   | 113.6 | 111.6 | 108.2 | 106.1 | 104.1 | 104.1 | 102.0 | 100.0 | 98.6  | 98.0  | 97.3  |
| 57.5° | 101.4 | 99.3  | 95.9  | 93.9  | 92.5  | 91.2  | 89.8  | 88.4  | 87.1  | 85.7  | 84.4  |
| 60°   | 90.5  | 88.4  | 85.0  | 82.3  | 81.6  | 80.3  | 78.9  | 76.2  | 74.8  | 73.5  | 72.1  |
| 62.5° | 80.3  | 77.6  | 74.8  | 72.1  | 71.4  | 70.1  | 68.0  | 66.0  | 64.0  | 62.6  | 60.5  |
| 65°   | 70.8  | 68.7  | 65.3  | 63.3  | 61.2  | 60.5  | 58.5  | 55.8  | 53.7  | 52.4  | 50.3  |
| 67.5° | 61.9  | 59.2  | 55.8  | 53.7  | 52.4  | 51.0  | 49.0  | 46.9  | 44.9  | 42.9  | 40.8  |
| 70°   | 53.1  | 51.0  | 47.6  | 45.6  | 44.2  | 42.9  | 40.8  | 38.1  | 36.1  | 34.0  | 32.7  |
| 72.5° | 44.9  | 42.2  | 39.5  | 37.4  | 36.1  | 34.7  | 32.7  | 30.6  | 28.6  | 27.2  | 25.2  |
| 75°   | 37.4  | 34.7  | 32.7  | 29.9  | 29.3  | 27.9  | 25.9  | 23.8  | 21.8  | 20.4  | 19.0  |
| 77.5° | 29.9  | 27.9  | 25.2  | 23.8  | 22.5  | 21.1  | 19.7  | 17.7  | 16.3  | 14.3  | 12.9  |
| 80°   | 22.5  | 20.4  | 18.4  | 17.0  | 15.6  | 15.0  | 13.6  | 12.2  | 10.9  | 9.5   | 8.8   |
| 82.5° | 15.0  | 13.6  | 11.6  | 10.9  | 10.2  | 9.5   | 8.2   | 7.5   | 6.8   | 6.1   | 5.4   |
| 85°   | 8.2   | 7.5   | 6.8   | 5.4   | 5.4   | 4.8   | 4.1   | 4.1   | 3.4   | 3.4   | 2.7   |
| 87.5° | 3.4   | 2.7   | 2.7   | 2.0   | 2.0   | 2.0   | 1.4   | 1.4   | 1.4   | 0.7   | 0.7   |
| 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°    | 442.2 | 442.2 | 442.2 | 442.2  | 442.2 | 442.2 | 442.2 | 442.2 | 442.2 | 442.2 | 442.2 |
| 2.5°  | 441.5 | 438.8 | 438.8 | 438.8  | 436.8 | 437.4 | 438.1 | 438.8 | 438.1 | 436.1 | 438.1 |
| 5°    | 436.8 | 434.0 | 434.0 | 432.7  | 431.3 | 431.3 | 431.3 | 432.0 | 431.3 | 429.3 | 430.0 |
| 7.5°  | 430.6 | 427.2 | 426.6 | 425.2  | 423.8 | 423.2 | 423.2 | 423.2 | 422.5 | 419.8 | 421.1 |
| 10°   | 421.1 | 417.7 | 416.4 | 415.7  | 413.6 | 413.0 | 412.3 | 411.6 | 410.9 | 408.2 | 409.6 |
| 12.5° | 409.6 | 406.8 | 404.1 | 403.4  | 401.4 | 400.0 | 399.3 | 399.3 | 398.0 | 395.3 | 396.6 |
| 15°   | 395.9 | 391.9 | 389.8 | 388.5  | 386.4 | 385.1 | 383.7 | 384.4 | 383.7 | 381.0 | 381.7 |
| 17.5° | 379.6 | 375.5 | 373.5 | 372.8  | 370.1 | 368.7 | 368.1 | 368.1 | 367.4 | 364.7 | 365.3 |
| 20°   | 361.9 | 357.8 | 356.5 | 355.1  | 353.8 | 352.4 | 351.7 | 351.0 | 350.4 | 347.6 | 349.7 |
| 22.5° | 344.2 | 339.5 | 337.4 | 337.4  | 334.7 | 334.0 | 333.4 | 334.0 | 333.4 | 330.6 | 332.0 |
| 25°   | 325.9 | 321.1 | 319.8 | 317.7  | 316.3 | 315.7 | 315.7 | 315.7 | 315.0 | 313.6 | 315.0 |
| 27.5° | 305.5 | 302.1 | 300.0 | 299.3  | 298.0 | 297.3 | 296.6 | 297.3 | 297.3 | 295.3 | 296.6 |
| 30°   | 285.1 | 282.3 | 281.0 | 280.3  | 278.3 | 277.6 | 278.3 | 278.3 | 278.3 | 276.2 | 278.3 |
| 32.5° | 264.6 | 262.6 | 261.9 | 259.9  | 258.5 | 258.5 | 258.5 | 259.2 | 258.5 | 257.2 | 259.2 |
| 35°   | 244.2 | 241.5 | 240.8 | 240.2  | 240.2 | 238.8 | 240.2 | 239.5 | 240.8 | 238.8 | 240.2 |
| 37.5° | 222.5 | 221.1 | 220.4 | 220.4  | 219.1 | 219.7 | 219.7 | 219.7 | 221.1 | 219.1 | 220.4 |
| 40°   | 202.1 | 200.7 | 200.7 | 200.7  | 200.0 | 200.0 | 200.0 | 200.7 | 201.4 | 200.0 | 201.4 |
| 42.5° | 181.6 | 181.0 | 181.0 | 180.3  | 179.6 | 180.3 | 181.0 | 181.0 | 181.6 | 180.3 | 181.0 |
| 45°   | 161.9 | 161.2 | 161.9 | 161.2  | 161.2 | 160.6 | 161.2 | 161.9 | 161.9 | 161.2 | 161.2 |
| 47.5° | 143.5 | 143.5 | 142.9 | 142.9  | 142.9 | 142.9 | 142.9 | 142.9 | 142.9 | 141.5 | 142.9 |
| 50°   | 127.2 | 125.9 | 126.5 | 125.9  | 125.9 | 125.2 | 125.2 | 124.5 | 123.8 | 123.1 | 123.1 |
| 52.5° | 111.6 | 110.2 | 110.2 | 109.5  | 108.9 | 108.9 | 108.2 | 107.5 | 106.8 | 105.4 | 105.4 |
| 55°   | 96.6  | 95.2  | 94.6  | 93.9   | 93.2  | 92.5  | 91.8  | 91.2  | 89.8  | 89.1  | 89.1  |
| 57.5° | 83.0  | 81.6  | 80.3  | 80.3   | 78.9  | 78.2  | 76.9  | 75.5  | 74.8  | 73.5  | 73.5  |
| 60°   | 70.8  | 69.4  | 67.4  | 66.7   | 66.0  | 64.6  | 62.6  | 61.9  | 61.2  | 59.9  | 60.5  |
| 62.5° | 59.2  | 57.1  | 55.1  | 54.4   | 53.7  | 52.4  | 51.0  | 49.7  | 49.0  | 49.7  | 49.7  |
| 65°   | 48.3  | 46.3  | 44.9  | 43.5   | 42.9  | 41.5  | 40.8  | 40.1  | 40.1  | 40.1  | 40.8  |
| 67.5° | 38.8  | 36.7  | 35.4  | 34.7   | 33.3  | 32.7  | 32.7  | 32.7  | 32.7  | 32.7  | 32.7  |
| 70°   | 30.6  | 29.3  | 27.9  | 26.5   | 26.5  | 25.9  | 25.9  | 25.9  | 25.9  | 25.9  | 25.9  |
| 72.5° | 23.1  | 21.8  | 21.1  | 21.1   | 20.4  | 20.4  | 20.4  | 20.4  | 19.7  | 19.7  | 20.4  |
| 75°   | 17.0  | 16.3  | 15.6  | 15.6   | 15.6  | 15.0  | 15.0  | 15.0  | 15.0  | 15.0  | 15.0  |
| 77.5° | 12.2  | 11.6  | 11.6  | 10.9   | 10.9  | 10.9  | 10.9  | 10.9  | 10.9  | 10.2  | 10.2  |
| 80°   | 8.2   | 7.5   | 7.5   | 7.5    | 7.5   | 6.8   | 6.8   | 6.8   | 6.8   | 6.8   | 6.8   |
| 82.5° | 4.8   | 4.8   | 4.8   | 4.1    | 4.1   | 4.1   | 4.1   | 4.1   | 4.1   | 4.1   | 4.1   |
| 85°   | 2.7   | 2.0   | 2.0   | 2.0    | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   | 2.0   |
| 87.5° | 0.7   | 0.7   | 0.7   | 0.7    | 0.7   | 0.7   | 0.7   | 0.7   | 0.7   | 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: P274349

CATALOG NUMBER: LD4B10DE010W2N2765 EU4B1020W2N902765 4LBLWW0H

**CANDELA DISTRIBUTION (continued):**

|       | 150°  | 155°  | 157.5° | 160°  | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0°    | 442.2 | 442.2 | 442.2  | 442.2 | 442.2 | 442.2 | 442.2 | 442.2 |
| 2.5°  | 434.0 | 436.8 | 437.4  | 435.4 | 436.1 | 434.7 | 435.4 | 434.0 |
| 5°    | 426.6 | 428.6 | 429.3  | 427.9 | 427.9 | 426.6 | 427.2 | 425.9 |
| 7.5°  | 417.0 | 419.1 | 419.8  | 418.4 | 418.4 | 417.0 | 417.0 | 416.4 |
| 10°   | 406.2 | 406.8 | 408.2  | 406.2 | 406.8 | 405.5 | 405.5 | 404.1 |
| 12.5° | 392.5 | 393.9 | 395.3  | 393.2 | 393.2 | 392.5 | 392.5 | 390.5 |
| 15°   | 378.3 | 379.6 | 380.3  | 378.9 | 378.9 | 378.3 | 377.6 | 376.9 |
| 17.5° | 363.3 | 364.0 | 365.3  | 363.3 | 364.7 | 363.3 | 363.3 | 361.9 |
| 20°   | 346.3 | 348.3 | 349.0  | 347.0 | 347.6 | 347.0 | 347.0 | 347.0 |
| 22.5° | 330.0 | 331.3 | 332.0  | 330.6 | 331.3 | 330.0 | 330.6 | 329.3 |
| 25°   | 312.9 | 313.6 | 314.3  | 312.9 | 314.3 | 313.6 | 312.9 | 312.9 |
| 27.5° | 295.3 | 295.9 | 296.6  | 295.3 | 296.6 | 295.9 | 296.6 | 295.3 |
| 30°   | 276.2 | 277.6 | 278.9  | 277.6 | 278.3 | 277.6 | 277.6 | 276.9 |
| 32.5° | 257.2 | 258.5 | 259.9  | 258.5 | 259.9 | 258.5 | 259.2 | 257.8 |
| 35°   | 239.5 | 240.2 | 240.8  | 239.5 | 240.2 | 240.2 | 240.2 | 239.5 |
| 37.5° | 219.7 | 221.1 | 221.1  | 220.4 | 221.8 | 221.1 | 221.1 | 219.7 |
| 40°   | 200.7 | 201.4 | 202.1  | 200.7 | 201.4 | 200.7 | 201.4 | 200.7 |
| 42.5° | 181.0 | 182.3 | 183.0  | 181.6 | 181.6 | 181.6 | 181.0 | 181.6 |
| 45°   | 160.6 | 161.9 | 163.3  | 161.2 | 161.9 | 161.9 | 161.9 | 161.2 |
| 47.5° | 142.2 | 142.2 | 142.9  | 142.2 | 142.9 | 141.5 | 142.9 | 142.2 |
| 50°   | 123.1 | 123.1 | 124.5  | 123.1 | 123.1 | 123.1 | 123.1 | 123.1 |
| 52.5° | 104.8 | 105.4 | 105.4  | 104.1 | 104.8 | 104.1 | 104.8 | 104.1 |
| 55°   | 87.8  | 87.8  | 88.4   | 87.8  | 87.8  | 87.8  | 87.8  | 87.8  |
| 57.5° | 72.8  | 73.5  | 73.5   | 72.8  | 73.5  | 72.8  | 72.8  | 72.8  |
| 60°   | 60.5  | 60.5  | 60.5   | 59.9  | 60.5  | 59.9  | 60.5  | 59.9  |
| 62.5° | 49.0  | 49.7  | 49.7   | 49.0  | 49.7  | 49.0  | 49.0  | 49.0  |
| 65°   | 40.1  | 40.1  | 40.1   | 40.1  | 40.1  | 40.1  | 40.1  | 39.5  |
| 67.5° | 32.0  | 32.0  | 32.7   | 32.0  | 32.7  | 32.7  | 32.7  | 32.7  |
| 70°   | 25.9  | 25.9  | 25.9   | 25.9  | 25.9  | 25.9  | 25.9  | 25.9  |
| 72.5° | 19.7  | 19.7  | 20.4   | 19.7  | 19.7  | 19.7  | 19.7  | 19.7  |
| 75°   | 15.0  | 15.0  | 15.0   | 15.0  | 15.0  | 14.3  | 14.3  | 15.0  |
| 77.5° | 10.2  | 10.2  | 10.2   | 10.2  | 10.2  | 10.2  | 10.2  | 10.9  |
| 80°   | 6.8   | 6.8   | 6.8    | 6.8   | 6.1   | 6.1   | 6.8   | 6.1   |
| 82.5° | 3.4   | 3.4   | 3.4    | 3.4   | 3.4   | 3.4   | 3.4   | 3.4   |
| 85°   | 2.0   | 2.0   | 1.4    | 1.4   | 1.4   | 1.4   | 1.4   | 1.4   |
| 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)