

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: P244164

Luminaire Tested: **LD8B10D010 ER8B10830 8LBDW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244164  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B10D010 ER8B10830 8LBDW0LI  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 3000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1152.0 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

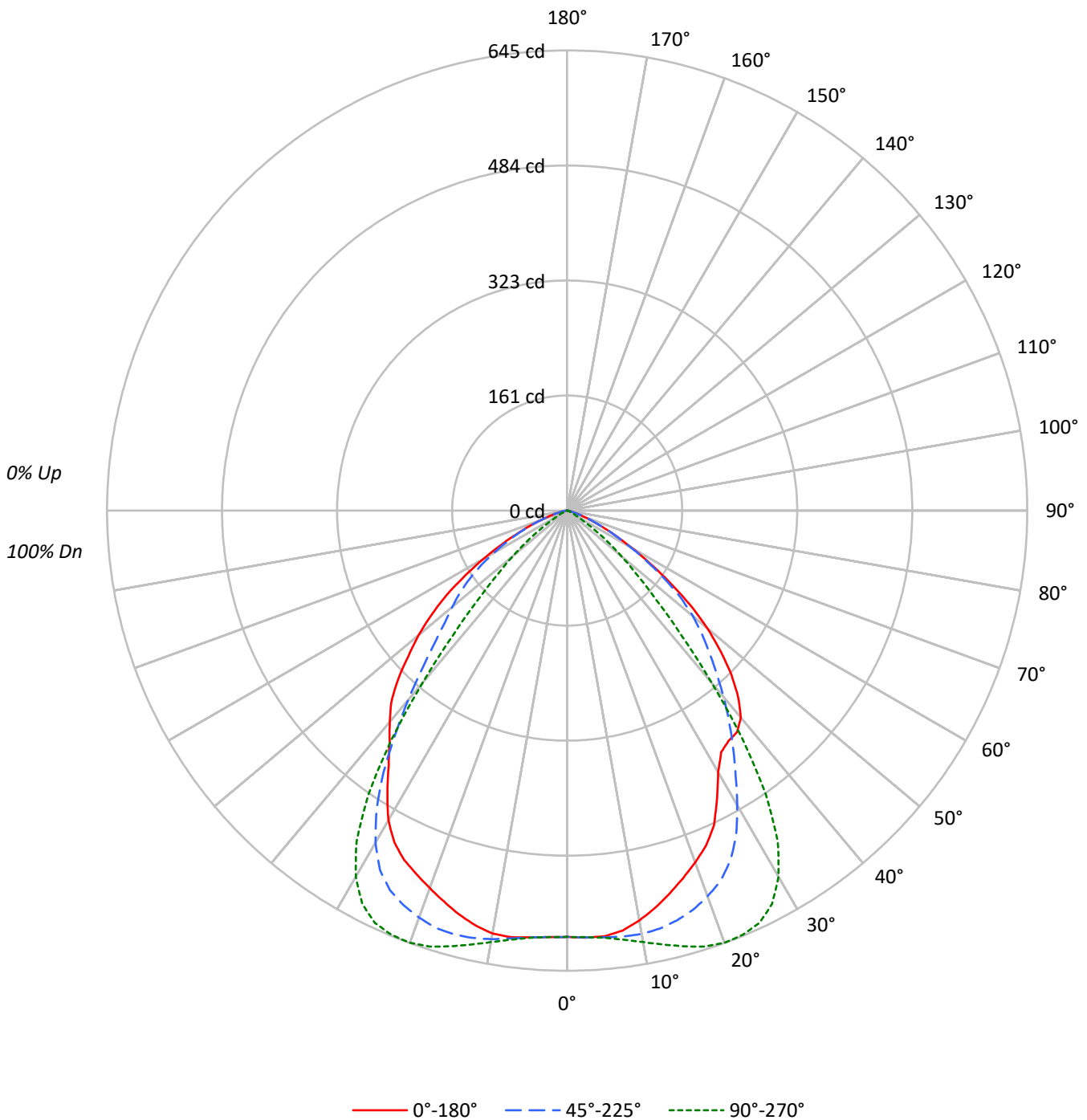
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P244164

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### Luminous Intensity Polar Plot





TEST NUMBER: P244164

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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 | 50 | 30 | 10  | 0 |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |     |   |  |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |    |    | 100 |   |  |   |
| 1   | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99  | 97  | 98  | 96  | 94  | 94  | 93  | 92  | 90  |    |    |    |    | 90  |   |  |   |
| 2   | 104 | 98  | 92  | 88  | 102 | 96  | 91  | 87  | 92  | 88  | 85  | 89  | 86  | 83  | 86  | 84  | 81  | 79  |    |    |    |    | 79  |   |  |   |
| 3   | 97  | 88  | 82  | 76  | 94  | 87  | 81  | 76  | 84  | 79  | 74  | 81  | 77  | 73  | 79  | 75  | 72  | 70  |    |    |    |    | 70  |   |  |   |
| 4   | 90  | 80  | 73  | 67  | 88  | 79  | 72  | 67  | 76  | 70  | 66  | 74  | 69  | 65  | 72  | 68  | 64  | 62  |    |    |    |    | 62  |   |  |   |
| 5   | 84  | 73  | 65  | 60  | 82  | 72  | 65  | 59  | 70  | 63  | 59  | 68  | 62  | 58  | 66  | 61  | 58  | 56  |    |    |    |    | 56  |   |  |   |
| 6   | 78  | 66  | 59  | 53  | 76  | 66  | 58  | 53  | 64  | 57  | 53  | 62  | 57  | 52  | 61  | 56  | 52  | 50  |    |    |    |    | 50  |   |  |   |
| 7   | 73  | 61  | 53  | 48  | 71  | 60  | 53  | 48  | 59  | 52  | 48  | 57  | 52  | 47  | 56  | 51  | 47  | 45  |    |    |    |    | 45  |   |  |   |
| 8   | 68  | 56  | 49  | 44  | 67  | 56  | 48  | 43  | 54  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 41  |    |    |    |    | 41  |   |  |   |
| 9   | 64  | 52  | 45  | 40  | 63  | 51  | 44  | 40  | 50  | 44  | 39  | 49  | 44  | 39  | 48  | 43  | 39  | 38  |    |    |    |    | 38  |   |  |   |
| 10  | 60  | 48  | 41  | 36  | 59  | 48  | 41  | 36  | 47  | 41  | 36  | 46  | 40  | 36  | 45  | 40  | 36  | 34  |    |    |    |    | 34  |   |  |   |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 18428 | 18428 | 18428 |
| 5°  | 18538 | 18607 | 18588 |
| 10° | 18264 | 19229 | 18853 |
| 15° | 17731 | 20182 | 18704 |
| 20° | 17218 | 21153 | 18475 |
| 25° | 16556 | 21694 | 18390 |
| 30° | 15069 | 21097 | 17846 |
| 35° | 14843 | 18280 | 16420 |
| 40° | 15244 | 12680 | 15566 |
| 45° | 14195 | 7662  | 14635 |
| 50° | 12310 | 4730  | 13039 |
| 55° | 9446  | 2473  | 11069 |
| 60° | 6439  | 999   | 8350  |
| 65° | 4006  | 511   | 5764  |
| 70° | 2173  | 316   | 3516  |
| 75° | 1132  | 155   | 2073  |
| 80° | 515   | 178   | 1119  |
| 85° | 354   | 106   | 1026  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 57.5   | 5.0       |
| 10°-20°   | 170.3  | 14.8      |
| 20°-30°   | 259.7  | 22.5      |
| 30°-40°   | 271.0  | 23.5      |
| 40°-50°   | 203.6  | 17.7      |
| 50°-60°   | 125.3  | 10.9      |
| 60°-70°   | 51.0   | 4.4       |
| 70°-80°   | 12.0   | 1.0       |
| 80°-90°   | 1.7    | 0.1       |
| 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°    | 487.5  | 42.3      |
| 0°-40°    | 758.5  | 65.8      |
| 0°-60°    | 1087.4 | 94.4      |
| 0°-90°    | 1152.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1152.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 598 | 598 | 598 | 598  | 598  |      |
| 5°  | 599 | 600 | 601 | 600  | 600  | 57   |
| 15° | 555 | 594 | 632 | 615  | 586  | 156  |
| 25° | 487 | 541 | 638 | 587  | 540  | 221  |
| 35° | 394 | 405 | 486 | 449  | 436  | 249  |
| 45° | 326 | 282 | 176 | 262  | 336  | 248  |
| 55° | 176 | 167 | 46  | 167  | 206  | 158  |
| 65° | 55  | 56  | 7   | 74   | 79   | 57   |
| 75° | 10  | 10  | 1   | 17   | 17   | 11   |
| 85° | 1   | 1   | 0   | 2    | 3    | 1    |
| 90° | 0   | 0   | 0   | 0    | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 597.6 | 597.6 | 597.6 | 597.6 | 597.6 | 597.6 | 597.6 | 597.6 | 597.6 | 597.6 | 597.6 |
| 2.5°  | 599.2 | 598.3 | 599.2 | 599.2 | 599.5 | 598.9 | 599.2 | 599.5 | 598.9 | 598.9 | 598.9 |
| 5°    | 598.9 | 598.3 | 598.9 | 598.6 | 599.2 | 599.2 | 599.8 | 599.8 | 600.5 | 600.5 | 601.4 |
| 7.5°  | 593.8 | 592.5 | 593.8 | 594.8 | 595.4 | 596.7 | 598.3 | 599.5 | 600.8 | 602.1 | 603.6 |
| 10°   | 583.3 | 583.3 | 584.3 | 586.2 | 588.1 | 590.3 | 593.2 | 596.4 | 599.5 | 602.4 | 605.2 |
| 12.5° | 570.3 | 569.4 | 571.3 | 573.8 | 576.7 | 580.2 | 584.6 | 589.4 | 594.5 | 600.2 | 604.6 |
| 15°   | 555.4 | 554.5 | 556.7 | 559.2 | 562.7 | 567.8 | 573.2 | 579.5 | 586.8 | 594.5 | 601.7 |
| 17.5° | 540.2 | 539.9 | 542.1 | 545.6 | 548.5 | 553.8 | 560.8 | 568.4 | 576.7 | 586.8 | 596.4 |
| 20°   | 524.7 | 524.3 | 526.6 | 529.4 | 533.2 | 538.3 | 545.3 | 554.2 | 564.0 | 575.4 | 586.5 |
| 22.5° | 508.5 | 508.8 | 510.7 | 513.9 | 517.1 | 522.4 | 529.7 | 538.6 | 549.4 | 561.8 | 574.1 |
| 25°   | 486.6 | 485.0 | 487.6 | 490.7 | 496.1 | 500.6 | 507.5 | 517.1 | 528.2 | 541.2 | 555.8 |
| 27.5° | 454.9 | 454.6 | 456.8 | 459.6 | 464.4 | 469.8 | 477.4 | 487.2 | 499.0 | 513.2 | 527.5 |
| 30°   | 423.2 | 423.8 | 424.7 | 427.6 | 430.8 | 436.2 | 443.8 | 452.0 | 463.1 | 476.8 | 492.0 |
| 32.5° | 401.6 | 401.6 | 402.9 | 404.8 | 407.0 | 409.8 | 415.2 | 421.3 | 429.8 | 439.3 | 450.4 |
| 35°   | 394.3 | 393.0 | 394.3 | 394.6 | 394.9 | 395.6 | 396.5 | 398.4 | 401.3 | 405.4 | 409.5 |
| 37.5° | 391.1 | 390.2 | 390.2 | 388.9 | 387.3 | 385.4 | 382.9 | 380.0 | 376.8 | 372.7 | 369.6 |
| 40°   | 378.7 | 378.1 | 377.5 | 376.2 | 372.7 | 368.9 | 364.8 | 358.1 | 350.8 | 340.7 | 330.5 |
| 42.5° | 355.0 | 354.3 | 354.0 | 351.5 | 348.3 | 343.9 | 339.1 | 332.1 | 322.9 | 309.9 | 295.3 |
| 45°   | 325.5 | 324.2 | 323.2 | 321.0 | 318.8 | 315.0 | 310.5 | 304.2 | 295.0 | 281.7 | 264.2 |
| 47.5° | 291.2 | 290.6 | 290.2 | 289.3 | 287.1 | 284.8 | 282.0 | 276.9 | 268.7 | 256.0 | 237.9 |
| 50°   | 256.6 | 255.4 | 256.0 | 255.7 | 254.7 | 253.1 | 251.2 | 247.7 | 241.4 | 230.0 | 213.5 |
| 52.5° | 217.0 | 217.0 | 216.7 | 217.6 | 217.9 | 217.6 | 217.9 | 214.1 | 208.7 | 200.2 | 186.2 |
| 55°   | 175.7 | 175.7 | 176.7 | 178.0 | 179.2 | 179.5 | 179.2 | 177.6 | 173.8 | 166.9 | 154.5 |
| 57.5° | 137.0 | 136.4 | 138.3 | 140.2 | 141.5 | 142.7 | 141.8 | 140.5 | 138.3 | 132.6 | 123.1 |
| 60°   | 104.4 | 104.4 | 105.6 | 106.9 | 108.2 | 109.4 | 109.1 | 108.8 | 106.9 | 103.1 | 95.5  |
| 62.5° | 76.8  | 77.1  | 77.1  | 78.0  | 79.3  | 80.6  | 81.5  | 80.6  | 79.6  | 77.1  | 72.0  |
| 65°   | 54.9  | 54.6  | 54.9  | 55.8  | 56.8  | 58.0  | 58.7  | 58.4  | 57.4  | 55.5  | 51.7  |
| 67.5° | 36.8  | 36.5  | 37.7  | 38.1  | 38.7  | 40.0  | 39.7  | 40.0  | 39.7  | 38.1  | 34.9  |
| 70°   | 24.1  | 23.5  | 24.1  | 23.8  | 24.7  | 25.1  | 25.7  | 26.0  | 25.7  | 24.7  | 23.8  |
| 72.5° | 14.9  | 14.6  | 14.9  | 15.2  | 15.5  | 15.9  | 16.5  | 16.5  | 16.2  | 15.5  | 14.3  |
| 75°   | 9.5   | 8.6   | 8.9   | 8.3   | 8.9   | 8.9   | 9.5   | 9.8   | 9.5   | 9.5   | 8.9   |
| 77.5° | 5.7   | 5.7   | 5.7   | 5.7   | 5.7   | 5.7   | 5.7   | 6.0   | 6.3   | 5.7   | 5.4   |
| 80°   | 2.9   | 2.9   | 3.2   | 3.2   | 3.2   | 3.5   | 3.2   | 3.2   | 3.2   | 3.5   | 2.5   |
| 82.5° | 2.2   | 1.9   | 1.9   | 1.9   | 2.2   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   | 1.9   |
| 85°   | 1.0   | 1.3   | 1.0   | 0.6   | 1.0   | 1.0   | 1.3   | 1.0   | 1.0   | 1.0   | 1.3   |
| 87.5° | 0.3   | 0.3   | 0.0   | 0.0   | 0.0   | 0.3   | 0.0   | 0.3   | 0.3   | 0.6   | 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):**

|       | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   | 100°  | 105°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 597.6 | 597.6 | 597.6 | 597.6 | 597.6 | 597.6 | 597.6 | 597.6 | 597.6 | 597.6 | 597.6 |
| 2.5°  | 599.2 | 598.6 | 598.6 | 598.3 | 598.9 | 598.3 | 598.6 | 598.3 | 598.3 | 598.9 | 598.3 |
| 5°    | 601.4 | 601.7 | 601.1 | 600.8 | 601.7 | 601.7 | 601.7 | 601.1 | 601.1 | 601.4 | 601.1 |
| 7.5°  | 604.6 | 605.2 | 605.5 | 605.9 | 606.5 | 606.8 | 606.8 | 606.5 | 606.2 | 607.1 | 605.9 |
| 10°   | 608.1 | 609.0 | 610.9 | 611.9 | 613.5 | 613.5 | 614.1 | 614.1 | 613.5 | 614.1 | 613.8 |
| 12.5° | 606.8 | 612.5 | 615.7 | 617.9 | 620.1 | 622.0 | 622.7 | 623.0 | 622.7 | 624.0 | 622.7 |
| 15°   | 609.0 | 613.8 | 618.9 | 622.7 | 626.8 | 629.0 | 629.7 | 632.2 | 632.8 | 633.1 | 631.2 |
| 17.5° | 605.5 | 614.1 | 619.5 | 625.2 | 631.2 | 635.4 | 639.2 | 640.8 | 641.1 | 641.7 | 639.2 |
| 20°   | 597.6 | 607.1 | 615.4 | 623.6 | 630.6 | 637.0 | 640.1 | 644.6 | 643.3 | 645.8 | 642.3 |
| 22.5° | 586.8 | 597.6 | 608.1 | 618.9 | 626.2 | 633.8 | 640.4 | 643.6 | 645.2 | 645.2 | 641.4 |
| 25°   | 569.7 | 582.4 | 593.8 | 604.9 | 616.0 | 625.2 | 632.8 | 637.6 | 638.5 | 638.2 | 633.8 |
| 27.5° | 543.1 | 556.7 | 570.0 | 582.7 | 596.4 | 607.1 | 616.0 | 621.7 | 623.3 | 623.3 | 618.6 |
| 30°   | 506.3 | 520.9 | 533.9 | 549.1 | 563.0 | 575.1 | 587.5 | 592.5 | 595.4 | 595.4 | 590.0 |
| 32.5° | 462.5 | 474.9 | 486.9 | 501.8 | 517.1 | 530.7 | 542.4 | 549.4 | 552.9 | 552.6 | 547.8 |
| 35°   | 414.9 | 420.9 | 430.1 | 441.2 | 454.9 | 467.6 | 479.0 | 485.6 | 491.7 | 491.4 | 486.9 |
| 37.5° | 367.3 | 365.7 | 366.7 | 370.8 | 379.4 | 388.3 | 397.1 | 403.5 | 408.6 | 410.8 | 409.8 |
| 40°   | 320.7 | 312.4 | 304.5 | 301.7 | 302.3 | 305.5 | 310.2 | 315.0 | 320.7 | 323.6 | 324.8 |
| 42.5° | 278.8 | 264.9 | 250.9 | 240.4 | 234.4 | 232.5 | 234.7 | 236.3 | 239.8 | 243.9 | 248.1 |
| 45°   | 245.2 | 226.5 | 208.1 | 191.9 | 181.8 | 175.7 | 174.5 | 175.7 | 177.6 | 181.8 | 187.2 |
| 47.5° | 217.6 | 195.7 | 175.1 | 157.0 | 142.1 | 134.2 | 132.0 | 131.3 | 133.2 | 137.0 | 144.3 |
| 50°   | 193.2 | 171.3 | 148.5 | 127.5 | 112.0 | 103.1 | 99.9  | 98.6  | 100.9 | 103.7 | 110.4 |
| 52.5° | 166.5 | 145.0 | 121.5 | 101.2 | 85.0  | 75.8  | 72.3  | 70.4  | 71.7  | 75.5  | 82.2  |
| 55°   | 137.7 | 117.7 | 96.4  | 75.5  | 60.0  | 51.4  | 47.3  | 46.0  | 47.3  | 51.4  | 58.0  |
| 57.5° | 108.8 | 92.0  | 74.2  | 54.6  | 40.6  | 32.0  | 27.9  | 26.6  | 30.1  | 31.7  | 38.7  |
| 60°   | 85.0  | 71.4  | 56.1  | 40.0  | 27.9  | 21.3  | 17.1  | 16.2  | 17.8  | 20.6  | 26.3  |
| 62.5° | 63.8  | 55.2  | 43.1  | 28.5  | 20.6  | 13.6  | 11.4  | 10.5  | 11.4  | 13.6  | 18.1  |
| 65°   | 46.3  | 39.7  | 30.1  | 20.9  | 14.0  | 10.2  | 7.6   | 7.0   | 7.9   | 9.5   | 13.3  |
| 67.5° | 31.7  | 26.6  | 20.9  | 14.6  | 9.5   | 6.3   | 5.4   | 5.4   | 5.7   | 7.0   | 9.8   |
| 70°   | 20.6  | 17.4  | 13.3  | 9.5   | 6.3   | 4.8   | 4.1   | 3.5   | 4.1   | 5.1   | 6.7   |
| 72.5° | 13.0  | 11.1  | 8.6   | 6.7   | 4.8   | 3.5   | 2.9   | 2.5   | 3.2   | 3.8   | 5.1   |
| 75°   | 7.9   | 6.0   | 4.4   | 3.5   | 2.5   | 2.5   | 2.5   | 1.3   | 1.6   | 2.5   | 3.2   |
| 77.5° | 4.8   | 4.1   | 3.5   | 2.9   | 2.2   | 1.3   | 1.3   | 1.3   | 1.6   | 1.9   | 2.9   |
| 80°   | 2.5   | 2.2   | 1.6   | 1.6   | 1.3   | 1.0   | 1.3   | 1.0   | 0.6   | 1.6   | 1.9   |
| 82.5° | 1.6   | 1.3   | 1.3   | 1.3   | 1.6   | 0.6   | 1.0   | 0.6   | 1.0   | 1.3   | 1.0   |
| 85°   | 1.0   | 1.0   | 1.0   | 0.6   | 1.6   | 0.6   | 0.6   | 0.3   | 0.3   | 0.6   | 0.6   |
| 87.5° | 0.0   | 0.3   | 0.3   | 0.0   | 0.3   | 0.0   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   |
| 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):**

|       | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  | 160°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 597.6 | 597.6 | 597.6 | 597.6 | 597.6 | 597.6 | 597.6 | 597.6 | 597.6 | 597.6 | 597.6 |
| 2.5°  | 598.6 | 598.3 | 598.6 | 598.3 | 598.3 | 598.3 | 598.6 | 598.6 | 598.3 | 598.3 | 598.9 |
| 5°    | 601.1 | 601.1 | 601.1 | 600.8 | 600.5 | 600.5 | 601.1 | 601.1 | 600.2 | 601.1 | 601.1 |
| 7.5°  | 606.5 | 605.5 | 606.5 | 605.2 | 604.6 | 604.9 | 605.2 | 604.6 | 604.0 | 604.3 | 604.3 |
| 10°   | 613.5 | 612.5 | 612.5 | 611.6 | 610.6 | 610.0 | 609.4 | 607.8 | 606.2 | 605.9 | 604.6 |
| 12.5° | 621.7 | 620.1 | 619.2 | 617.3 | 615.7 | 613.5 | 611.6 | 609.0 | 605.9 | 603.6 | 601.4 |
| 15°   | 630.0 | 627.4 | 625.2 | 622.0 | 618.6 | 614.7 | 610.6 | 606.5 | 601.4 | 597.0 | 593.2 |
| 17.5° | 636.6 | 633.1 | 629.0 | 624.0 | 618.9 | 613.2 | 607.1 | 601.1 | 593.8 | 588.1 | 583.7 |
| 20°   | 638.9 | 633.8 | 628.4 | 621.7 | 615.1 | 607.1 | 599.5 | 591.6 | 583.3 | 577.3 | 572.2 |
| 22.5° | 636.0 | 630.0 | 623.3 | 616.3 | 607.5 | 598.9 | 590.0 | 580.8 | 573.5 | 565.3 | 560.5 |
| 25°   | 628.1 | 620.8 | 613.5 | 605.2 | 596.7 | 587.2 | 577.6 | 568.1 | 559.2 | 554.8 | 548.8 |
| 27.5° | 611.9 | 604.0 | 596.0 | 587.5 | 577.6 | 568.1 | 558.3 | 549.1 | 541.5 | 535.4 | 532.0 |
| 30°   | 583.3 | 574.1 | 564.9 | 555.8 | 547.2 | 537.3 | 528.2 | 520.5 | 512.9 | 508.2 | 504.7 |
| 32.5° | 539.6 | 531.3 | 522.1 | 513.2 | 505.3 | 497.1 | 489.5 | 482.8 | 477.4 | 474.2 | 471.7 |
| 35°   | 480.6 | 472.3 | 465.3 | 459.0 | 452.3 | 448.9 | 444.1 | 440.3 | 438.1 | 436.8 | 436.5 |
| 37.5° | 406.3 | 401.6 | 399.4 | 398.1 | 396.8 | 395.9 | 396.5 | 398.1 | 399.4 | 401.6 | 404.1 |
| 40°   | 327.0 | 331.2 | 332.4 | 336.9 | 341.0 | 346.4 | 352.4 | 359.4 | 365.1 | 372.4 | 377.5 |
| 42.5° | 254.7 | 262.3 | 271.2 | 280.7 | 290.9 | 300.7 | 312.8 | 323.9 | 334.0 | 343.2 | 351.1 |
| 45°   | 195.7 | 207.5 | 220.8 | 234.4 | 248.1 | 262.3 | 276.9 | 290.6 | 302.6 | 312.4 | 320.7 |
| 47.5° | 152.6 | 165.6 | 182.7 | 199.5 | 216.0 | 232.8 | 249.0 | 263.3 | 273.4 | 282.9 | 290.2 |
| 50°   | 120.9 | 135.8 | 154.5 | 173.8 | 191.9 | 209.7 | 226.8 | 240.1 | 250.3 | 257.9 | 263.3 |
| 52.5° | 93.6  | 111.3 | 130.4 | 150.7 | 170.0 | 189.4 | 205.2 | 217.6 | 225.9 | 232.5 | 236.6 |
| 55°   | 69.8  | 87.2  | 107.5 | 128.5 | 148.1 | 166.9 | 181.8 | 192.5 | 199.8 | 203.6 | 205.9 |
| 57.5° | 50.4  | 66.3  | 86.6  | 107.5 | 125.3 | 143.1 | 155.1 | 164.9 | 169.1 | 171.3 | 172.2 |
| 60°   | 36.8  | 51.4  | 69.5  | 87.6  | 104.4 | 118.6 | 129.1 | 135.8 | 138.9 | 140.2 | 139.9 |
| 62.5° | 27.0  | 39.7  | 55.2  | 70.4  | 84.1  | 95.8  | 104.0 | 108.5 | 110.1 | 110.7 | 109.8 |
| 65°   | 20.6  | 30.4  | 43.8  | 55.5  | 66.0  | 74.5  | 80.6  | 83.4  | 84.4  | 84.1  | 83.4  |
| 67.5° | 15.2  | 22.8  | 32.7  | 41.6  | 49.2  | 55.8  | 59.0  | 61.5  | 62.2  | 61.2  | 60.3  |
| 70°   | 10.8  | 16.8  | 23.8  | 29.8  | 35.5  | 39.3  | 42.8  | 43.1  | 43.1  | 42.8  | 42.2  |
| 72.5° | 7.6   | 11.7  | 16.2  | 20.3  | 23.8  | 26.6  | 27.9  | 28.9  | 28.5  | 28.2  | 27.6  |
| 75°   | 5.1   | 7.3   | 11.7  | 12.7  | 15.9  | 16.8  | 18.1  | 18.1  | 18.4  | 17.4  | 17.4  |
| 77.5° | 3.2   | 5.1   | 7.0   | 8.3   | 9.5   | 10.8  | 11.4  | 11.4  | 11.7  | 11.4  | 11.4  |
| 80°   | 1.9   | 3.2   | 3.8   | 5.7   | 5.7   | 6.7   | 7.0   | 7.3   | 6.7   | 7.6   | 6.7   |
| 82.5° | 1.3   | 1.9   | 2.9   | 2.9   | 3.5   | 4.1   | 4.1   | 4.4   | 4.4   | 4.1   | 4.1   |
| 85°   | 1.0   | 1.3   | 1.6   | 1.9   | 1.9   | 2.2   | 1.9   | 1.9   | 2.2   | 2.5   | 2.2   |
| 87.5° | 0.3   | 0.6   | 0.3   | 0.6   | 0.6   | 1.3   | 1.0   | 1.0   | 1.0   | 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: P244164

CATALOG NUMBER: LD8B10D010 ER8B10830 8LBDWOLI

**CANDELA DISTRIBUTION (continued):**

|       | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|
| 0°    | 597.6 | 597.6 | 597.6 | 597.6 |
| 2.5°  | 598.3 | 598.6 | 598.3 | 598.3 |
| 5°    | 601.1 | 600.8 | 601.1 | 600.5 |
| 7.5°  | 603.3 | 603.3 | 603.0 | 603.0 |
| 10°   | 603.3 | 602.1 | 602.1 | 602.1 |
| 12.5° | 598.6 | 597.0 | 596.0 | 595.4 |
| 15°   | 590.3 | 587.5 | 586.2 | 585.9 |
| 17.5° | 579.5 | 577.0 | 575.4 | 574.5 |
| 20°   | 567.2 | 564.6 | 562.7 | 563.0 |
| 22.5° | 556.4 | 553.5 | 552.3 | 551.6 |
| 25°   | 545.6 | 542.1 | 541.2 | 540.5 |
| 27.5° | 528.2 | 526.2 | 525.3 | 524.3 |
| 30°   | 501.5 | 500.6 | 499.0 | 501.2 |
| 32.5° | 470.7 | 469.1 | 467.9 | 468.8 |
| 35°   | 436.8 | 435.8 | 436.8 | 436.2 |
| 37.5° | 405.7 | 406.7 | 407.9 | 408.6 |
| 40°   | 381.3 | 384.8 | 386.0 | 386.7 |
| 42.5° | 356.9 | 361.0 | 363.5 | 365.1 |
| 45°   | 326.7 | 330.8 | 333.7 | 335.6 |
| 47.5° | 295.6 | 299.1 | 302.0 | 301.7 |
| 50°   | 267.4 | 269.3 | 270.6 | 271.8 |
| 52.5° | 238.9 | 238.9 | 239.2 | 239.2 |
| 55°   | 206.5 | 205.9 | 205.5 | 205.9 |
| 57.5° | 171.0 | 170.3 | 170.0 | 169.1 |
| 60°   | 138.6 | 136.7 | 135.4 | 135.4 |
| 62.5° | 108.5 | 106.3 | 105.3 | 105.0 |
| 65°   | 81.5  | 81.2  | 79.3  | 79.0  |
| 67.5° | 59.0  | 57.7  | 56.5  | 56.8  |
| 70°   | 41.6  | 39.7  | 39.7  | 39.0  |
| 72.5° | 27.0  | 26.0  | 25.7  | 25.7  |
| 75°   | 16.8  | 16.8  | 16.2  | 17.4  |
| 77.5° | 11.1  | 11.1  | 10.8  | 11.1  |
| 80°   | 6.7   | 6.7   | 6.7   | 6.3   |
| 82.5° | 4.1   | 4.4   | 4.1   | 4.1   |
| 85°   | 2.2   | 2.5   | 1.9   | 2.9   |
| 87.5° | 1.3   | 1.6   | 1.3   | 1.6   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)