

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: P246108

Luminaire Tested: **LSR8B10D010 EC8B10830 8LBDW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246108  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B10D010 EC8B10830 8LBDW0B  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 984.0 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

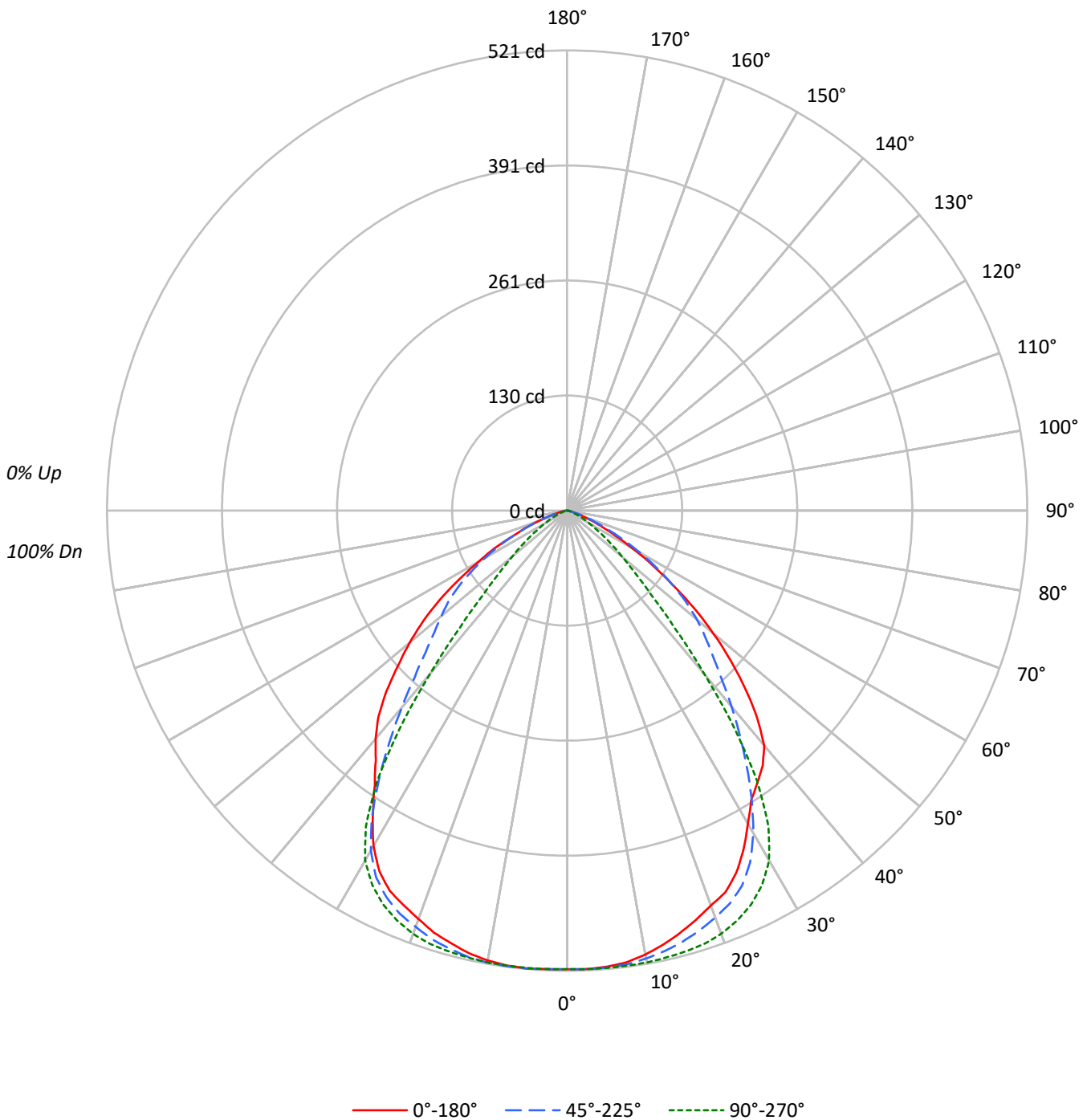
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99  | 97  | 98  | 96  | 94  | 94  | 93  | 91  | 90  |
| 2   | 104 | 97  | 92  | 88  | 101 | 96  | 91  | 87  | 92  | 88  | 85  | 89  | 86  | 83  | 86  | 83  | 81  | 79  |
| 3   | 96  | 88  | 81  | 76  | 94  | 86  | 80  | 75  | 84  | 78  | 74  | 81  | 77  | 73  | 79  | 75  | 72  | 70  |
| 4   | 89  | 80  | 72  | 67  | 87  | 78  | 72  | 66  | 76  | 70  | 66  | 74  | 69  | 65  | 72  | 67  | 64  | 62  |
| 5   | 83  | 72  | 65  | 59  | 81  | 71  | 64  | 59  | 69  | 63  | 58  | 68  | 62  | 58  | 66  | 61  | 57  | 55  |
| 6   | 78  | 66  | 58  | 53  | 76  | 65  | 58  | 53  | 64  | 57  | 52  | 62  | 56  | 52  | 61  | 55  | 51  | 50  |
| 7   | 72  | 61  | 53  | 48  | 71  | 60  | 53  | 48  | 59  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 45  |
| 8   | 68  | 56  | 48  | 43  | 66  | 55  | 48  | 43  | 54  | 48  | 43  | 53  | 47  | 43  | 52  | 46  | 42  | 41  |
| 9   | 64  | 52  | 44  | 39  | 62  | 51  | 44  | 39  | 50  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 37  |
| 10  | 60  | 48  | 41  | 36  | 59  | 48  | 41  | 36  | 47  | 40  | 36  | 46  | 40  | 36  | 45  | 40  | 36  | 34  |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 16010 | 16010 | 16010 |
| 5°  | 16044 | 16087 | 16105 |
| 10° | 15979 | 16267 | 16195 |
| 15° | 15799 | 16502 | 16192 |
| 20° | 15610 | 16736 | 16148 |
| 25° | 15410 | 16753 | 16165 |
| 30° | 14577 | 16283 | 15617 |
| 35° | 14143 | 14150 | 14297 |
| 40° | 13968 | 9737  | 13574 |
| 45° | 12446 | 5844  | 12616 |
| 50° | 10348 | 3891  | 11149 |
| 55° | 7763  | 2683  | 9451  |
| 60° | 5261  | 1789  | 7136  |
| 65° | 3174  | 1160  | 4903  |
| 70° | 1758  | 631   | 3011  |
| 75° | 798   | 262   | 1561  |
| 80° | 693   | 302   | 1083  |
| 85° | 778   | 389   | 1097  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 49.5   | 5.0       |
| 10°-20°   | 143.9  | 14.6      |
| 20°-30°   | 218.4  | 22.2      |
| 30°-40°   | 229.4  | 23.3      |
| 40°-50°   | 172.0  | 17.5      |
| 50°-60°   | 110.3  | 11.2      |
| 60°-70°   | 47.2   | 4.8       |
| 70°-80°   | 11.2   | 1.1       |
| 80°-90°   | 2.1    | 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°    | 411.8  | 41.9      |
| 0°-40°    | 641.2  | 65.2      |
| 0°-60°    | 923.6  | 93.9      |
| 0°-90°    | 984.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 984.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 519 | 519 | 519 | 519  | 519  |      |
| 5°  | 518 | 519 | 520 | 521  | 520  | 49   |
| 15° | 495 | 505 | 517 | 514  | 507  | 140  |
| 25° | 453 | 469 | 492 | 484  | 475  | 207  |
| 35° | 376 | 355 | 376 | 372  | 380  | 236  |
| 45° | 285 | 233 | 134 | 227  | 289  | 219  |
| 55° | 144 | 144 | 50  | 150  | 176  | 131  |
| 65° | 44  | 51  | 16  | 66   | 67   | 46   |
| 75° | 7   | 8   | 2   | 13   | 13   | 10   |
| 85° | 2   | 1   | 1   | 2    | 3    | 2    |
| 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°    | 519.2 | 519.2 | 519.2 | 519.2 | 519.2 | 519.2 | 519.2 | 519.2 | 519.2 | 519.2 | 519.2 |
| 2.5°  | 519.5 | 520.0 | 519.7 | 519.7 | 519.5 | 519.7 | 519.7 | 520.3 | 520.3 | 519.7 | 519.5 |
| 5°    | 518.3 | 518.9 | 518.9 | 518.3 | 518.3 | 519.7 | 518.9 | 519.5 | 519.5 | 519.2 | 519.2 |
| 7.5°  | 515.8 | 515.8 | 516.9 | 516.1 | 516.1 | 516.9 | 516.7 | 517.2 | 517.8 | 518.1 | 518.1 |
| 10°   | 510.3 | 510.8 | 511.1 | 511.1 | 511.4 | 512.2 | 512.8 | 513.9 | 514.4 | 515.0 | 515.3 |
| 12.5° | 503.3 | 504.1 | 504.4 | 504.1 | 505.0 | 506.1 | 507.5 | 508.9 | 509.7 | 510.8 | 511.7 |
| 15°   | 494.9 | 494.9 | 495.5 | 496.3 | 496.9 | 498.6 | 499.9 | 501.6 | 503.8 | 505.2 | 506.6 |
| 17.5° | 485.7 | 486.3 | 487.1 | 487.1 | 488.2 | 491.0 | 491.9 | 494.4 | 496.9 | 498.3 | 501.1 |
| 20°   | 475.7 | 476.3 | 477.1 | 477.7 | 479.0 | 481.3 | 482.9 | 485.2 | 488.0 | 490.5 | 493.3 |
| 22.5° | 467.9 | 466.8 | 467.3 | 467.9 | 469.3 | 471.2 | 473.2 | 476.0 | 478.8 | 481.3 | 484.1 |
| 25°   | 452.9 | 453.1 | 454.0 | 454.5 | 456.2 | 457.9 | 460.1 | 463.4 | 466.0 | 468.7 | 471.8 |
| 27.5° | 432.5 | 432.8 | 434.2 | 434.2 | 435.6 | 438.4 | 439.8 | 442.5 | 445.9 | 448.7 | 452.3 |
| 30°   | 409.4 | 409.9 | 409.9 | 411.1 | 411.9 | 413.3 | 414.7 | 417.5 | 419.1 | 421.6 | 426.7 |
| 32.5° | 388.2 | 388.8 | 388.5 | 388.2 | 387.4 | 387.1 | 386.8 | 387.4 | 387.9 | 388.8 | 390.7 |
| 35°   | 375.7 | 374.3 | 373.2 | 371.2 | 369.0 | 366.2 | 363.7 | 360.3 | 357.3 | 354.8 | 352.0 |
| 37.5° | 363.7 | 363.4 | 361.7 | 358.9 | 354.5 | 349.5 | 343.6 | 336.4 | 329.1 | 321.3 | 313.8 |
| 40°   | 347.0 | 346.1 | 344.7 | 340.8 | 335.8 | 329.7 | 321.9 | 313.0 | 301.2 | 289.3 | 277.0 |
| 42.5° | 318.5 | 318.8 | 317.1 | 314.1 | 309.3 | 303.5 | 295.4 | 285.6 | 273.1 | 258.9 | 243.0 |
| 45°   | 285.4 | 285.4 | 284.8 | 282.3 | 279.0 | 274.2 | 268.1 | 260.0 | 247.7 | 233.3 | 216.3 |
| 47.5° | 250.8 | 251.1 | 250.3 | 249.7 | 248.3 | 245.2 | 240.8 | 234.6 | 226.0 | 212.1 | 195.1 |
| 50°   | 215.7 | 215.7 | 217.1 | 216.8 | 216.8 | 215.7 | 213.7 | 210.1 | 202.6 | 191.5 | 175.6 |
| 52.5° | 180.6 | 181.1 | 182.0 | 183.1 | 184.5 | 186.7 | 184.5 | 182.8 | 178.1 | 169.4 | 155.8 |
| 55°   | 144.4 | 144.9 | 146.3 | 148.3 | 149.9 | 152.2 | 152.7 | 152.7 | 150.2 | 144.4 | 134.0 |
| 57.5° | 113.4 | 112.6 | 113.7 | 115.4 | 117.6 | 119.8 | 121.5 | 123.5 | 123.2 | 119.3 | 110.9 |
| 60°   | 85.3  | 85.6  | 86.4  | 88.1  | 89.7  | 91.7  | 93.9  | 95.6  | 96.4  | 94.5  | 89.2  |
| 62.5° | 62.1  | 62.1  | 63.3  | 64.9  | 65.8  | 68.6  | 69.9  | 70.8  | 71.6  | 71.3  | 68.0  |
| 65°   | 43.5  | 44.0  | 44.6  | 45.4  | 46.3  | 47.9  | 48.8  | 50.4  | 51.0  | 51.3  | 48.8  |
| 67.5° | 30.7  | 29.8  | 30.4  | 30.9  | 31.8  | 32.9  | 34.6  | 34.6  | 35.4  | 35.4  | 33.7  |
| 70°   | 19.5  | 19.5  | 19.8  | 20.6  | 21.2  | 21.5  | 22.0  | 22.6  | 23.4  | 23.1  | 23.1  |
| 72.5° | 13.1  | 12.8  | 13.1  | 13.4  | 13.7  | 14.5  | 14.5  | 14.8  | 15.3  | 15.6  | 14.5  |
| 75°   | 6.7   | 7.0   | 7.5   | 7.2   | 8.1   | 7.5   | 7.8   | 8.6   | 8.4   | 7.8   | 7.8   |
| 77.5° | 5.6   | 5.6   | 5.6   | 5.3   | 5.9   | 5.9   | 5.6   | 6.1   | 5.9   | 5.9   | 5.6   |
| 80°   | 3.9   | 4.2   | 3.9   | 3.6   | 3.9   | 3.6   | 3.6   | 3.6   | 3.6   | 3.6   | 3.3   |
| 82.5° | 3.1   | 2.5   | 2.8   | 2.5   | 2.8   | 2.8   | 2.5   | 2.2   | 2.2   | 2.5   | 2.2   |
| 85°   | 2.2   | 1.7   | 2.0   | 2.0   | 1.7   | 1.7   | 1.7   | 1.7   | 1.7   | 1.4   | 1.4   |
| 87.5° | 1.4   | 0.8   | 0.8   | 0.8   | 1.1   | 1.1   | 1.1   | 0.8   | 1.1   | 1.1   | 0.6   |
| 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):**

|       | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   | 100°  | 105°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 519.2 | 519.2 | 519.2 | 519.2 | 519.2 | 519.2 | 519.2 | 519.2 | 519.2 | 519.2 | 519.2 |
| 2.5°  | 520.0 | 519.7 | 520.3 | 520.0 | 520.0 | 519.7 | 520.0 | 519.7 | 520.3 | 519.2 | 519.5 |
| 5°    | 520.0 | 519.5 | 519.7 | 520.0 | 520.3 | 519.7 | 519.7 | 519.7 | 520.3 | 519.7 | 520.0 |
| 7.5°  | 518.9 | 518.6 | 519.5 | 520.0 | 519.7 | 519.5 | 520.0 | 519.7 | 520.3 | 520.0 | 520.6 |
| 10°   | 516.7 | 516.9 | 517.5 | 518.3 | 518.6 | 518.9 | 519.5 | 519.5 | 520.3 | 519.2 | 519.7 |
| 12.5° | 513.3 | 514.4 | 515.8 | 516.4 | 517.5 | 517.5 | 518.1 | 518.3 | 518.9 | 518.6 | 519.5 |
| 15°   | 509.1 | 510.5 | 512.2 | 513.6 | 515.0 | 515.8 | 516.7 | 516.9 | 517.8 | 516.9 | 517.2 |
| 17.5° | 504.1 | 505.8 | 508.3 | 510.0 | 512.2 | 513.0 | 514.2 | 514.7 | 515.6 | 515.0 | 515.3 |
| 20°   | 497.2 | 499.1 | 501.9 | 504.4 | 505.8 | 507.7 | 509.1 | 510.0 | 510.5 | 510.0 | 510.3 |
| 22.5° | 487.4 | 490.2 | 493.8 | 495.8 | 498.6 | 500.2 | 500.5 | 502.5 | 503.8 | 502.5 | 503.0 |
| 25°   | 476.0 | 478.8 | 481.6 | 485.7 | 488.2 | 490.2 | 492.1 | 492.4 | 493.8 | 493.5 | 493.3 |
| 27.5° | 457.0 | 460.7 | 465.4 | 468.7 | 472.1 | 475.1 | 477.4 | 477.9 | 479.3 | 478.8 | 479.0 |
| 30°   | 431.1 | 435.0 | 439.5 | 444.8 | 449.5 | 452.6 | 455.4 | 457.3 | 458.7 | 457.9 | 457.6 |
| 32.5° | 394.3 | 398.2 | 403.0 | 408.3 | 413.8 | 418.3 | 421.6 | 424.2 | 425.8 | 425.3 | 423.9 |
| 35°   | 352.3 | 353.4 | 356.4 | 360.6 | 365.3 | 370.1 | 373.2 | 375.9 | 377.9 | 378.4 | 378.4 |
| 37.5° | 309.1 | 305.4 | 303.2 | 303.2 | 306.0 | 307.9 | 310.7 | 312.4 | 315.5 | 316.6 | 317.4 |
| 40°   | 267.2 | 258.9 | 251.1 | 245.2 | 241.3 | 241.1 | 241.1 | 241.9 | 244.7 | 248.3 | 251.6 |
| 42.5° | 229.9 | 216.5 | 204.6 | 193.7 | 185.9 | 181.4 | 179.5 | 179.8 | 182.0 | 185.3 | 190.9 |
| 45°   | 200.1 | 183.4 | 168.3 | 155.2 | 144.6 | 137.7 | 134.3 | 134.0 | 135.7 | 139.6 | 145.8 |
| 47.5° | 177.0 | 159.1 | 142.1 | 127.1 | 115.7 | 108.1 | 104.2 | 103.1 | 104.2 | 107.8 | 115.1 |
| 50°   | 157.7 | 139.3 | 121.8 | 106.2 | 93.9  | 86.1  | 82.5  | 81.1  | 82.5  | 85.6  | 92.8  |
| 52.5° | 139.9 | 120.9 | 104.5 | 89.5  | 76.4  | 69.7  | 65.8  | 64.9  | 65.8  | 69.4  | 75.2  |
| 55°   | 119.3 | 103.1 | 86.9  | 71.9  | 60.5  | 53.8  | 50.7  | 49.9  | 50.7  | 54.1  | 60.2  |
| 57.5° | 98.9  | 85.0  | 70.8  | 57.1  | 47.4  | 41.5  | 38.7  | 37.6  | 39.6  | 41.8  | 49.0  |
| 60°   | 80.0  | 68.8  | 56.8  | 44.9  | 36.8  | 31.5  | 29.3  | 29.0  | 29.5  | 32.3  | 37.3  |
| 62.5° | 62.7  | 53.5  | 44.0  | 34.3  | 27.6  | 25.4  | 22.6  | 22.3  | 22.8  | 24.5  | 28.4  |
| 65°   | 45.1  | 39.3  | 32.0  | 25.1  | 19.8  | 16.7  | 15.6  | 15.9  | 16.4  | 17.6  | 21.2  |
| 67.5° | 31.5  | 27.3  | 22.3  | 17.6  | 13.7  | 12.3  | 11.1  | 10.9  | 11.1  | 13.1  | 15.0  |
| 70°   | 21.2  | 18.7  | 15.0  | 13.4  | 9.5   | 7.5   | 7.8   | 7.0   | 8.1   | 8.1   | 9.8   |
| 72.5° | 13.9  | 12.3  | 10.0  | 7.8   | 6.7   | 5.3   | 5.3   | 5.0   | 5.6   | 5.9   | 7.2   |
| 75°   | 7.2   | 5.6   | 5.6   | 3.9   | 2.8   | 1.4   | 2.5   | 2.2   | 2.0   | 2.2   | 2.8   |
| 77.5° | 5.0   | 4.2   | 3.9   | 3.1   | 2.8   | 2.2   | 2.2   | 2.2   | 2.2   | 2.5   | 2.8   |
| 80°   | 3.1   | 3.1   | 2.2   | 2.0   | 1.7   | 1.4   | 1.7   | 1.7   | 1.7   | 1.7   | 2.0   |
| 82.5° | 2.0   | 1.7   | 1.7   | 1.4   | 1.4   | 1.1   | 1.1   | 1.1   | 1.1   | 1.1   | 1.7   |
| 85°   | 1.7   | 1.1   | 1.1   | 0.8   | 1.1   | 2.0   | 0.8   | 1.1   | 1.1   | 1.1   | 0.8   |
| 87.5° | 0.6   | 0.8   | 0.8   | 0.8   | 0.6   | 0.3   | 0.6   | 0.8   | 0.8   | 1.4   | 1.1   |
| 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°    | 519.2 | 519.2 | 519.2 | 519.2 | 519.2 | 519.2 | 519.2 | 519.2 | 519.2 | 519.2 | 519.2 |
| 2.5°  | 520.0 | 520.3 | 520.3 | 520.0 | 520.0 | 519.5 | 520.6 | 519.7 | 520.0 | 521.1 | 520.3 |
| 5°    | 520.6 | 520.8 | 520.8 | 520.6 | 520.6 | 520.6 | 520.8 | 520.8 | 520.6 | 520.3 | 520.8 |
| 7.5°  | 521.7 | 521.4 | 521.4 | 520.8 | 520.8 | 520.3 | 520.8 | 520.0 | 520.6 | 520.0 | 520.8 |
| 10°   | 520.3 | 520.6 | 520.3 | 520.0 | 520.0 | 519.7 | 519.7 | 518.9 | 519.2 | 518.3 | 518.9 |
| 12.5° | 519.5 | 519.2 | 519.2 | 518.6 | 518.1 | 517.5 | 517.2 | 516.4 | 516.4 | 514.4 | 515.3 |
| 15°   | 517.2 | 517.5 | 516.7 | 515.6 | 515.0 | 513.6 | 513.0 | 511.9 | 510.8 | 509.4 | 509.7 |
| 17.5° | 515.3 | 514.4 | 513.3 | 512.2 | 510.0 | 508.9 | 507.7 | 506.1 | 505.5 | 503.8 | 503.3 |
| 20°   | 509.4 | 508.9 | 507.5 | 505.5 | 504.1 | 501.6 | 500.5 | 498.8 | 497.4 | 495.8 | 494.9 |
| 22.5° | 501.9 | 501.3 | 499.7 | 497.7 | 495.5 | 494.4 | 493.3 | 490.2 | 488.8 | 487.1 | 486.8 |
| 25°   | 492.4 | 491.6 | 489.9 | 487.7 | 486.6 | 483.5 | 482.4 | 480.2 | 479.6 | 477.9 | 477.7 |
| 27.5° | 477.9 | 476.8 | 474.9 | 472.1 | 470.1 | 468.2 | 467.1 | 465.4 | 464.8 | 463.2 | 462.9 |
| 30°   | 456.2 | 454.8 | 450.9 | 449.8 | 446.4 | 444.5 | 444.5 | 442.3 | 442.5 | 441.4 | 441.4 |
| 32.5° | 421.9 | 419.7 | 416.6 | 414.4 | 412.2 | 411.1 | 411.1 | 410.2 | 410.8 | 410.8 | 411.3 |
| 35°   | 376.5 | 373.4 | 371.8 | 370.4 | 370.4 | 371.5 | 374.8 | 375.7 | 377.3 | 378.7 | 379.8 |
| 37.5° | 318.2 | 318.0 | 319.9 | 321.6 | 325.8 | 330.5 | 336.4 | 341.4 | 346.1 | 349.5 | 352.8 |
| 40°   | 255.3 | 262.2 | 267.8 | 275.6 | 282.0 | 291.2 | 301.8 | 310.4 | 318.5 | 324.4 | 330.5 |
| 42.5° | 199.3 | 208.2 | 219.9 | 231.3 | 242.7 | 255.3 | 269.2 | 281.2 | 291.8 | 299.9 | 306.3 |
| 45°   | 155.2 | 167.5 | 181.7 | 196.2 | 211.0 | 226.6 | 241.1 | 253.3 | 264.5 | 272.8 | 279.2 |
| 47.5° | 125.1 | 138.5 | 154.7 | 170.6 | 187.3 | 203.7 | 219.9 | 230.5 | 239.7 | 246.4 | 252.2 |
| 50°   | 103.4 | 117.6 | 134.6 | 152.7 | 169.4 | 185.9 | 199.8 | 210.1 | 217.6 | 223.5 | 227.1 |
| 52.5° | 86.4  | 101.4 | 119.6 | 137.7 | 154.4 | 169.4 | 182.0 | 189.8 | 195.9 | 200.1 | 203.4 |
| 55°   | 71.3  | 85.8  | 102.8 | 119.8 | 136.3 | 150.5 | 160.8 | 166.7 | 171.4 | 173.9 | 175.8 |
| 57.5° | 58.2  | 71.6  | 87.2  | 102.8 | 117.0 | 128.8 | 136.8 | 142.7 | 144.9 | 146.9 | 146.6 |
| 60°   | 45.7  | 58.2  | 72.5  | 85.8  | 98.1  | 107.6 | 113.4 | 116.8 | 118.4 | 119.3 | 118.7 |
| 62.5° | 35.9  | 47.4  | 58.2  | 69.9  | 78.9  | 86.9  | 92.5  | 92.5  | 93.4  | 93.6  | 94.5  |
| 65°   | 26.8  | 35.4  | 44.9  | 53.5  | 60.7  | 66.0  | 69.1  | 69.9  | 71.1  | 70.8  | 70.2  |
| 67.5° | 19.8  | 26.2  | 33.2  | 39.6  | 44.6  | 47.9  | 50.2  | 52.1  | 51.8  | 51.3  | 51.0  |
| 70°   | 13.7  | 17.8  | 24.0  | 27.9  | 31.5  | 34.8  | 35.4  | 35.7  | 35.9  | 36.2  | 35.7  |
| 72.5° | 9.5   | 12.5  | 15.9  | 19.2  | 21.5  | 22.8  | 24.2  | 24.5  | 24.5  | 24.5  | 24.2  |
| 75°   | 4.7   | 6.4   | 9.5   | 10.9  | 12.8  | 13.4  | 14.5  | 14.5  | 15.3  | 14.2  | 13.9  |
| 77.5° | 4.2   | 5.0   | 6.7   | 7.8   | 8.6   | 9.5   | 9.8   | 10.6  | 10.3  | 9.8   | 10.0  |
| 80°   | 2.5   | 3.1   | 4.2   | 4.7   | 5.9   | 6.1   | 6.4   | 6.7   | 6.4   | 6.7   | 6.7   |
| 82.5° | 2.0   | 2.2   | 2.8   | 2.8   | 3.6   | 3.6   | 3.9   | 3.9   | 4.2   | 4.2   | 4.2   |
| 85°   | 1.1   | 2.0   | 1.7   | 3.3   | 2.2   | 2.2   | 2.8   | 3.3   | 2.8   | 2.8   | 3.3   |
| 87.5° | 1.1   | 1.1   | 0.8   | 1.1   | 1.1   | 1.1   | 1.4   | 1.7   | 1.7   | 2.0   | 1.7   |
| 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: P246108

CATALOG NUMBER: LSR8B10D010 EC8B10830 8LBDW0B

**CANDELA DISTRIBUTION (continued):**

|       | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|
| 0°    | 519.2 | 519.2 | 519.2 | 519.2 |
| 2.5°  | 520.0 | 520.6 | 519.7 | 519.5 |
| 5°    | 520.8 | 520.8 | 520.3 | 520.3 |
| 7.5°  | 520.8 | 520.8 | 520.0 | 519.5 |
| 10°   | 518.6 | 518.6 | 517.8 | 517.2 |
| 12.5° | 514.4 | 514.4 | 514.2 | 513.3 |
| 15°   | 509.1 | 509.1 | 508.0 | 507.2 |
| 17.5° | 501.9 | 502.5 | 501.1 | 501.1 |
| 20°   | 494.1 | 493.8 | 492.7 | 492.1 |
| 22.5° | 486.0 | 485.5 | 485.2 | 483.5 |
| 25°   | 477.4 | 476.8 | 476.0 | 475.1 |
| 27.5° | 462.6 | 462.3 | 461.5 | 460.4 |
| 30°   | 440.0 | 439.8 | 438.6 | 438.6 |
| 32.5° | 410.8 | 410.5 | 409.4 | 409.7 |
| 35°   | 380.4 | 381.5 | 381.0 | 379.8 |
| 37.5° | 355.0 | 355.9 | 356.4 | 355.9 |
| 40°   | 333.9 | 336.4 | 336.6 | 337.2 |
| 42.5° | 311.3 | 314.6 | 315.7 | 316.3 |
| 45°   | 284.2 | 287.3 | 289.8 | 289.3 |
| 47.5° | 256.7 | 258.9 | 261.1 | 259.4 |
| 50°   | 230.2 | 231.6 | 232.4 | 232.4 |
| 52.5° | 205.1 | 205.1 | 204.8 | 205.1 |
| 55°   | 176.4 | 176.4 | 175.3 | 175.8 |
| 57.5° | 146.3 | 146.9 | 146.0 | 144.6 |
| 60°   | 118.4 | 117.0 | 116.5 | 115.7 |
| 62.5° | 92.2  | 92.2  | 90.3  | 92.8  |
| 65°   | 69.1  | 68.3  | 67.4  | 67.2  |
| 67.5° | 50.2  | 49.9  | 49.0  | 48.8  |
| 70°   | 35.4  | 34.3  | 34.0  | 33.4  |
| 72.5° | 23.7  | 23.7  | 23.1  | 23.1  |
| 75°   | 14.5  | 13.1  | 12.8  | 13.1  |
| 77.5° | 10.0  | 9.8   | 9.8   | 9.5   |
| 80°   | 6.7   | 6.4   | 7.0   | 6.1   |
| 82.5° | 4.2   | 4.5   | 4.2   | 4.5   |
| 85°   | 2.8   | 3.3   | 3.1   | 3.1   |
| 87.5° | 1.7   | 1.7   | 1.7   | 1.7   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)