

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: P246193

Luminaire Tested: **LD8B15D010 ER8B15840 8LBDW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246193  
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: LD8B15D010 ER8B15840 8LBDW0MW  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 4000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1538.0 lumens  
Efficiency: N/A  
Efficacy: 106.8 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

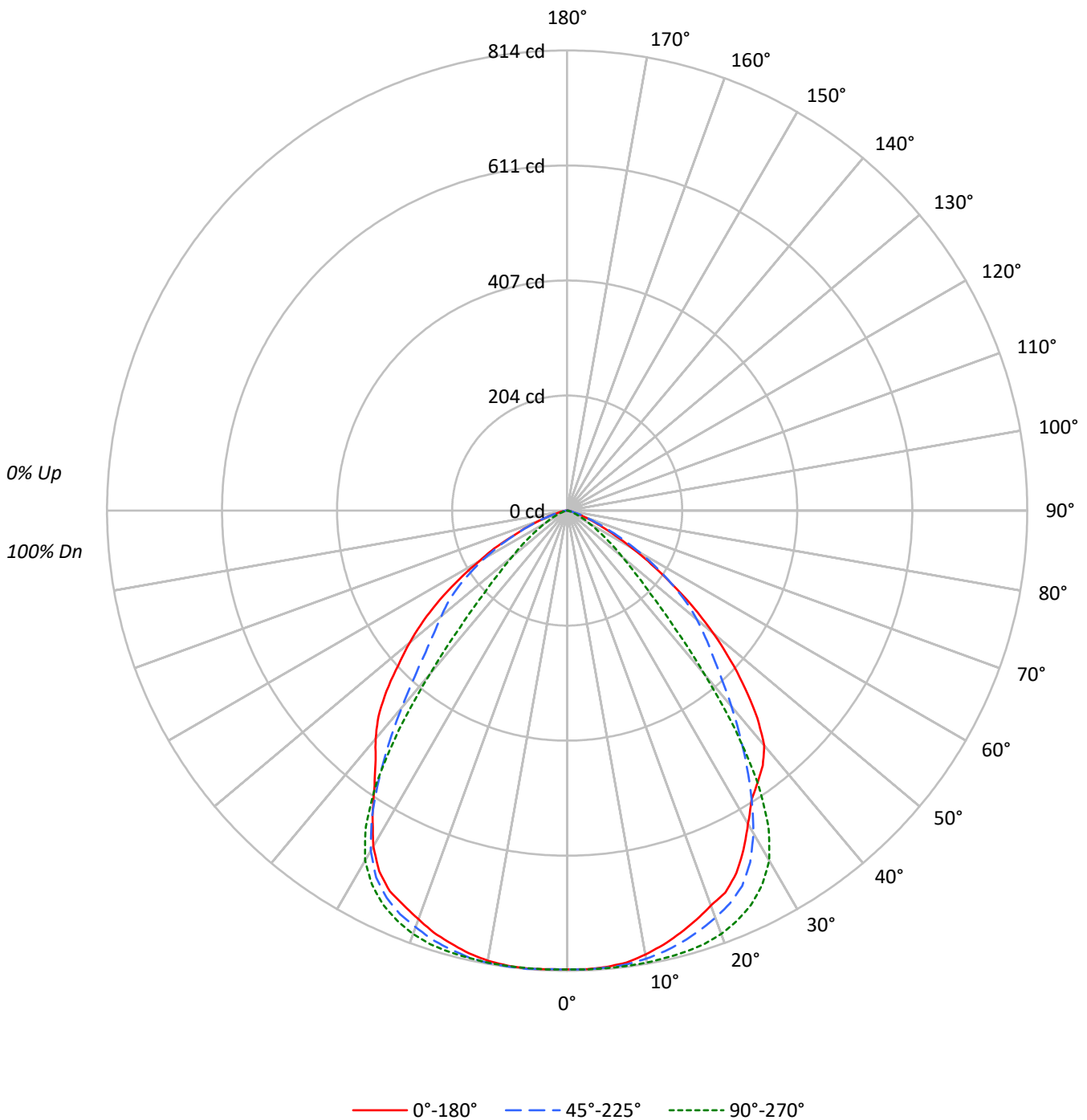
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 52  | 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°  | 25024 | 25024 | 25024 |
| 5°  | 25079 | 25147 | 25172 |
| 10° | 24971 | 25422 | 25313 |
| 15° | 24696 | 25795 | 25309 |
| 20° | 24398 | 26157 | 25242 |
| 25° | 24082 | 26188 | 25270 |
| 30° | 22785 | 25452 | 24412 |
| 35° | 22105 | 22120 | 22349 |
| 40° | 21830 | 15220 | 21218 |
| 45° | 19450 | 9136  | 19716 |
| 50° | 16172 | 6083  | 17429 |
| 55° | 12129 | 4193  | 14774 |
| 60° | 8221  | 2794  | 11150 |
| 65° | 4962  | 1810  | 7661  |
| 70° | 2750  | 983   | 4715  |
| 75° | 1251  | 417   | 2442  |
| 80° | 1083  | 462   | 1705  |
| 85° | 1238  | 601   | 1698  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 77.4   | 5.0       |
| 10°-20°   | 224.9  | 14.6      |
| 20°-30°   | 341.4  | 22.2      |
| 30°-40°   | 358.5  | 23.3      |
| 40°-50°   | 268.8  | 17.5      |
| 50°-60°   | 172.5  | 11.2      |
| 60°-70°   | 73.8   | 4.8       |
| 70°-80°   | 17.4   | 1.1       |
| 80°-90°   | 3.2    | 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°    | 643.7  | 41.9      |
| 0°-40°    | 1002.3 | 65.2      |
| 0°-60°    | 1443.5 | 93.9      |
| 0°-90°    | 1538.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1538.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 812 | 812 | 812 | 812  | 812  |      |
| 5°  | 810 | 812 | 812 | 814  | 813  | 77   |
| 15° | 774 | 790 | 808 | 803  | 793  | 218  |
| 25° | 708 | 733 | 770 | 756  | 743  | 323  |
| 35° | 587 | 554 | 588 | 581  | 594  | 369  |
| 45° | 446 | 365 | 210 | 354  | 452  | 342  |
| 55° | 226 | 226 | 78  | 235  | 275  | 205  |
| 65° | 68  | 80  | 25  | 103  | 105  | 73   |
| 75° | 10  | 12  | 4   | 21   | 20   | 15   |
| 85° | 4   | 2   | 2   | 4    | 5    | 4    |
| 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°    | 811.5 | 811.5 | 811.5 | 811.5 | 811.5 | 811.5 | 811.5 | 811.5 | 811.5 | 811.5 | 811.5 |
| 2.5°  | 811.9 | 812.8 | 812.4 | 812.4 | 811.9 | 812.4 | 812.4 | 813.2 | 813.2 | 812.4 | 811.9 |
| 5°    | 810.2 | 811.0 | 811.0 | 810.2 | 810.2 | 812.4 | 811.0 | 811.9 | 811.9 | 811.5 | 811.5 |
| 7.5°  | 806.3 | 806.3 | 808.0 | 806.7 | 806.7 | 808.0 | 807.6 | 808.4 | 809.3 | 809.7 | 809.7 |
| 10°   | 797.5 | 798.4 | 798.8 | 798.8 | 799.3 | 800.6 | 801.5 | 803.2 | 804.1 | 804.9 | 805.4 |
| 12.5° | 786.7 | 788.0 | 788.4 | 788.0 | 789.3 | 791.0 | 793.2 | 795.4 | 796.7 | 798.4 | 799.7 |
| 15°   | 773.6 | 773.6 | 774.5 | 775.8 | 776.6 | 779.2 | 781.4 | 784.0 | 787.5 | 789.7 | 791.9 |
| 17.5° | 759.2 | 760.1 | 761.4 | 761.4 | 763.1 | 767.5 | 768.8 | 772.7 | 776.6 | 778.8 | 783.2 |
| 20°   | 743.5 | 744.4 | 745.7 | 746.6 | 748.8 | 752.2 | 754.9 | 758.3 | 762.7 | 766.6 | 771.0 |
| 22.5° | 731.3 | 729.6 | 730.5 | 731.3 | 733.5 | 736.6 | 739.6 | 744.0 | 748.3 | 752.2 | 756.6 |
| 25°   | 707.8 | 708.2 | 709.6 | 710.4 | 713.0 | 715.7 | 719.1 | 724.4 | 728.3 | 732.6 | 737.4 |
| 27.5° | 676.0 | 676.5 | 678.6 | 678.6 | 680.8 | 685.2 | 687.3 | 691.7 | 696.9 | 701.3 | 706.9 |
| 30°   | 639.9 | 640.7 | 640.7 | 642.5 | 643.8 | 646.0 | 648.1 | 652.5 | 655.1 | 659.0 | 666.9 |
| 32.5° | 606.8 | 607.6 | 607.2 | 606.8 | 605.5 | 605.0 | 604.6 | 605.5 | 606.3 | 607.6 | 610.7 |
| 35°   | 587.2 | 585.0 | 583.2 | 580.2 | 576.7 | 572.3 | 568.4 | 563.2 | 558.4 | 554.5 | 550.1 |
| 37.5° | 568.4 | 568.0 | 565.4 | 561.0 | 554.0 | 546.2 | 537.1 | 525.7 | 514.4 | 502.2 | 490.5 |
| 40°   | 542.3 | 541.0 | 538.8 | 532.7 | 524.9 | 515.3 | 503.1 | 489.2 | 470.9 | 452.1 | 433.0 |
| 42.5° | 497.9 | 498.3 | 495.7 | 490.9 | 483.5 | 474.3 | 461.7 | 446.5 | 426.9 | 404.6 | 379.8 |
| 45°   | 446.0 | 446.0 | 445.2 | 441.2 | 436.0 | 428.6 | 419.0 | 406.4 | 387.2 | 364.6 | 338.0 |
| 47.5° | 392.0 | 392.5 | 391.1 | 390.3 | 388.1 | 383.3 | 376.3 | 366.8 | 353.3 | 331.5 | 304.9 |
| 50°   | 337.1 | 337.1 | 339.3 | 338.9 | 338.9 | 337.1 | 334.1 | 328.4 | 316.7 | 299.2 | 274.4 |
| 52.5° | 282.3 | 283.1 | 284.4 | 286.2 | 288.3 | 291.8 | 288.3 | 285.7 | 278.3 | 264.8 | 243.5 |
| 55°   | 225.6 | 226.5 | 228.7 | 231.7 | 234.3 | 237.8 | 238.7 | 238.7 | 234.8 | 225.6 | 209.5 |
| 57.5° | 177.3 | 176.0 | 177.7 | 180.3 | 183.8 | 187.3 | 189.9 | 193.0 | 192.5 | 186.4 | 173.4 |
| 60°   | 133.3 | 133.7 | 135.0 | 137.6 | 140.3 | 143.3 | 146.8 | 149.4 | 150.7 | 147.7 | 139.4 |
| 62.5° | 97.1  | 97.1  | 98.9  | 101.5 | 102.8 | 107.2 | 109.3 | 110.6 | 111.9 | 111.5 | 106.3 |
| 65°   | 68.0  | 68.8  | 69.7  | 71.0  | 72.3  | 74.9  | 76.2  | 78.8  | 79.7  | 80.1  | 76.2  |
| 67.5° | 47.9  | 46.6  | 47.5  | 48.3  | 49.7  | 51.4  | 54.0  | 54.0  | 55.3  | 55.3  | 52.7  |
| 70°   | 30.5  | 30.5  | 30.9  | 32.2  | 33.1  | 33.5  | 34.4  | 35.3  | 36.6  | 36.2  | 36.2  |
| 72.5° | 20.5  | 20.0  | 20.5  | 20.9  | 21.3  | 22.6  | 22.6  | 23.1  | 24.0  | 24.4  | 22.6  |
| 75°   | 10.5  | 10.9  | 11.8  | 11.3  | 12.6  | 11.8  | 12.2  | 13.5  | 13.1  | 12.2  | 12.2  |
| 77.5° | 8.7   | 8.7   | 8.7   | 8.3   | 9.1   | 9.1   | 8.7   | 9.6   | 9.1   | 9.1   | 8.7   |
| 80°   | 6.1   | 6.5   | 6.1   | 5.7   | 6.1   | 5.7   | 5.7   | 5.7   | 5.7   | 5.7   | 5.2   |
| 82.5° | 4.8   | 3.9   | 4.4   | 3.9   | 4.4   | 4.4   | 3.9   | 3.5   | 3.5   | 3.9   | 3.5   |
| 85°   | 3.5   | 2.6   | 3.0   | 3.0   | 2.6   | 2.6   | 2.6   | 2.6   | 2.6   | 2.2   | 2.2   |
| 87.5° | 2.2   | 1.3   | 1.3   | 1.3   | 1.7   | 1.7   | 1.7   | 1.3   | 1.7   | 1.7   | 0.9   |
| 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°    | 811.5 | 811.5 | 811.5 | 811.5 | 811.5 | 811.5 | 811.5 | 811.5 | 811.5 | 811.5 | 811.5 |
| 2.5°  | 812.8 | 812.4 | 813.2 | 812.8 | 812.8 | 812.4 | 812.8 | 812.4 | 813.2 | 811.5 | 811.9 |
| 5°    | 812.8 | 811.9 | 812.4 | 812.8 | 813.2 | 812.4 | 812.4 | 812.4 | 813.2 | 812.4 | 812.8 |
| 7.5°  | 811.0 | 810.6 | 811.9 | 812.8 | 812.4 | 811.9 | 812.8 | 812.4 | 813.2 | 812.8 | 813.7 |
| 10°   | 807.6 | 808.0 | 808.9 | 810.2 | 810.6 | 811.0 | 811.9 | 811.9 | 813.2 | 811.5 | 812.4 |
| 12.5° | 802.3 | 804.1 | 806.3 | 807.1 | 808.9 | 808.9 | 809.7 | 810.2 | 811.0 | 810.6 | 811.9 |
| 15°   | 795.8 | 798.0 | 800.6 | 802.8 | 804.9 | 806.3 | 807.6 | 808.0 | 809.3 | 808.0 | 808.4 |
| 17.5° | 788.0 | 790.6 | 794.5 | 797.1 | 800.6 | 801.9 | 803.6 | 804.5 | 805.8 | 804.9 | 805.4 |
| 20°   | 777.1 | 780.1 | 784.5 | 788.4 | 790.6 | 793.6 | 795.8 | 797.1 | 798.0 | 797.1 | 797.5 |
| 22.5° | 761.8 | 766.2 | 771.8 | 774.9 | 779.2 | 781.9 | 782.3 | 785.3 | 787.5 | 785.3 | 786.2 |
| 25°   | 744.0 | 748.3 | 752.7 | 759.2 | 763.1 | 766.2 | 769.2 | 769.7 | 771.8 | 771.4 | 771.0 |
| 27.5° | 714.3 | 720.0 | 727.4 | 732.6 | 737.9 | 742.7 | 746.1 | 747.0 | 749.2 | 748.3 | 748.8 |
| 30°   | 673.8 | 679.9 | 686.9 | 695.2 | 702.6 | 707.4 | 711.7 | 714.8 | 717.0 | 715.7 | 715.2 |
| 32.5° | 616.3 | 622.4 | 629.8 | 638.1 | 646.8 | 653.8 | 659.0 | 663.0 | 665.6 | 664.7 | 662.5 |
| 35°   | 550.6 | 552.3 | 557.1 | 563.6 | 571.0 | 578.4 | 583.2 | 587.6 | 590.6 | 591.5 | 591.5 |
| 37.5° | 483.1 | 477.4 | 473.9 | 473.9 | 478.3 | 481.3 | 485.7 | 488.3 | 493.1 | 494.8 | 496.1 |
| 40°   | 417.7 | 404.6 | 392.5 | 383.3 | 377.2 | 376.8 | 376.8 | 378.1 | 382.4 | 388.1 | 393.3 |
| 42.5° | 359.4 | 338.4 | 319.7 | 302.7 | 290.5 | 283.6 | 280.5 | 281.0 | 284.4 | 289.7 | 298.4 |
| 45°   | 312.7 | 286.6 | 263.1 | 242.6 | 226.1 | 215.2 | 209.9 | 209.5 | 212.1 | 218.2 | 227.8 |
| 47.5° | 276.6 | 248.7 | 222.1 | 198.6 | 180.8 | 169.0 | 162.9 | 161.2 | 162.9 | 168.6 | 179.9 |
| 50°   | 246.5 | 217.8 | 190.3 | 166.0 | 146.8 | 134.6 | 128.9 | 126.8 | 128.9 | 133.7 | 145.0 |
| 52.5° | 218.7 | 189.0 | 163.3 | 139.8 | 119.3 | 108.9 | 102.8 | 101.5 | 102.8 | 108.5 | 117.6 |
| 55°   | 186.4 | 161.2 | 135.9 | 112.4 | 94.5  | 84.1  | 79.3  | 78.0  | 79.3  | 84.5  | 94.1  |
| 57.5° | 154.6 | 132.9 | 110.6 | 89.3  | 74.1  | 64.9  | 60.5  | 58.8  | 61.8  | 65.3  | 76.7  |
| 60°   | 125.0 | 107.6 | 88.9  | 70.1  | 57.5  | 49.2  | 45.7  | 45.3  | 46.2  | 50.5  | 58.4  |
| 62.5° | 98.0  | 83.6  | 68.8  | 53.6  | 43.1  | 39.6  | 35.3  | 34.9  | 35.7  | 38.3  | 44.4  |
| 65°   | 70.6  | 61.4  | 50.1  | 39.2  | 30.9  | 26.1  | 24.4  | 24.8  | 25.7  | 27.4  | 33.1  |
| 67.5° | 49.2  | 42.7  | 34.9  | 27.4  | 21.3  | 19.2  | 17.4  | 17.0  | 17.4  | 20.5  | 23.5  |
| 70°   | 33.1  | 29.2  | 23.5  | 20.9  | 14.8  | 11.8  | 12.2  | 10.9  | 12.6  | 12.6  | 15.2  |
| 72.5° | 21.8  | 19.2  | 15.7  | 12.2  | 10.5  | 8.3   | 8.3   | 7.8   | 8.7   | 9.1   | 11.3  |
| 75°   | 11.3  | 8.7   | 8.7   | 6.1   | 4.4   | 2.2   | 3.9   | 3.5   | 3.0   | 3.5   | 4.4   |
| 77.5° | 7.8   | 6.5   | 6.1   | 4.8   | 4.4   | 3.5   | 3.5   | 3.5   | 3.5   | 3.9   | 4.4   |
| 80°   | 4.8   | 4.8   | 3.5   | 3.0   | 2.6   | 2.2   | 2.6   | 2.6   | 2.6   | 2.6   | 3.0   |
| 82.5° | 3.0   | 2.6   | 2.6   | 2.2   | 2.2   | 1.7   | 1.7   | 1.7   | 1.7   | 1.7   | 2.6   |
| 85°   | 2.6   | 1.7   | 1.7   | 1.3   | 1.7   | 3.0   | 1.3   | 1.7   | 1.7   | 1.7   | 1.3   |
| 87.5° | 0.9   | 1.3   | 1.3   | 1.3   | 0.9   | 0.4   | 0.9   | 1.3   | 1.3   | 2.2   | 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   |



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**CANDELA DISTRIBUTION (continued):**

|       | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  | 160°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 811.5 | 811.5 | 811.5 | 811.5 | 811.5 | 811.5 | 811.5 | 811.5 | 811.5 | 811.5 | 811.5 |
| 2.5°  | 812.8 | 813.2 | 813.2 | 812.8 | 812.8 | 811.9 | 813.7 | 812.4 | 812.8 | 814.5 | 813.2 |
| 5°    | 813.7 | 814.1 | 814.1 | 813.7 | 813.7 | 813.7 | 814.1 | 814.1 | 813.7 | 813.2 | 814.1 |
| 7.5°  | 815.4 | 815.0 | 815.0 | 814.1 | 814.1 | 813.2 | 814.1 | 812.8 | 813.7 | 812.8 | 814.1 |
| 10°   | 813.2 | 813.7 | 813.2 | 812.8 | 812.8 | 812.4 | 812.4 | 811.0 | 811.5 | 810.2 | 811.0 |
| 12.5° | 811.9 | 811.5 | 811.5 | 810.6 | 809.7 | 808.9 | 808.4 | 807.1 | 807.1 | 804.1 | 805.4 |
| 15°   | 808.4 | 808.9 | 807.6 | 805.8 | 804.9 | 802.8 | 801.9 | 800.1 | 798.4 | 796.2 | 796.7 |
| 17.5° | 805.4 | 804.1 | 802.3 | 800.6 | 797.1 | 795.4 | 793.6 | 791.0 | 790.1 | 787.5 | 786.7 |
| 20°   | 796.2 | 795.4 | 793.2 | 790.1 | 788.0 | 784.0 | 782.3 | 779.7 | 777.5 | 774.9 | 773.6 |
| 22.5° | 784.5 | 783.6 | 781.0 | 777.9 | 774.5 | 772.7 | 771.0 | 766.2 | 764.0 | 761.4 | 761.0 |
| 25°   | 769.7 | 768.4 | 765.7 | 762.3 | 760.5 | 755.7 | 754.0 | 750.5 | 749.6 | 747.0 | 746.6 |
| 27.5° | 747.0 | 745.3 | 742.2 | 737.9 | 734.8 | 731.8 | 730.0 | 727.4 | 726.5 | 723.9 | 723.5 |
| 30°   | 713.0 | 710.9 | 704.8 | 703.0 | 697.8 | 694.7 | 694.7 | 691.3 | 691.7 | 690.0 | 690.0 |
| 32.5° | 659.5 | 656.0 | 651.2 | 647.7 | 644.2 | 642.5 | 642.5 | 641.2 | 642.0 | 642.0 | 642.9 |
| 35°   | 588.5 | 583.7 | 581.1 | 578.9 | 578.9 | 580.6 | 585.9 | 587.2 | 589.8 | 591.9 | 593.7 |
| 37.5° | 497.4 | 497.0 | 500.0 | 502.7 | 509.2 | 516.6 | 525.7 | 533.6 | 541.0 | 546.2 | 551.4 |
| 40°   | 399.0 | 409.9 | 418.6 | 430.8 | 440.8 | 455.2 | 471.7 | 485.2 | 497.9 | 507.0 | 516.6 |
| 42.5° | 311.4 | 325.4 | 343.7 | 361.5 | 379.4 | 399.0 | 420.8 | 439.5 | 456.0 | 468.7 | 478.7 |
| 45°   | 242.6 | 261.8 | 284.0 | 306.6 | 329.7 | 354.1 | 376.8 | 395.9 | 413.4 | 426.4 | 436.5 |
| 47.5° | 195.6 | 216.5 | 241.7 | 266.6 | 292.7 | 318.4 | 343.7 | 360.2 | 374.6 | 385.0 | 394.2 |
| 50°   | 161.6 | 183.8 | 210.4 | 238.7 | 264.8 | 290.5 | 312.3 | 328.4 | 340.2 | 349.3 | 355.0 |
| 52.5° | 135.0 | 158.5 | 186.9 | 215.2 | 241.3 | 264.8 | 284.4 | 296.6 | 306.2 | 312.7 | 318.0 |
| 55°   | 111.5 | 134.2 | 160.7 | 187.3 | 213.0 | 235.2 | 251.3 | 260.5 | 267.9 | 271.8 | 274.8 |
| 57.5° | 91.0  | 111.9 | 136.3 | 160.7 | 182.9 | 201.2 | 213.9 | 223.0 | 226.5 | 229.5 | 229.1 |
| 60°   | 71.4  | 91.0  | 113.3 | 134.2 | 153.3 | 168.1 | 177.3 | 182.5 | 185.1 | 186.4 | 185.6 |
| 62.5° | 56.2  | 74.1  | 91.0  | 109.3 | 123.3 | 135.9 | 144.6 | 144.6 | 145.9 | 146.4 | 147.7 |
| 65°   | 41.8  | 55.3  | 70.1  | 83.6  | 95.0  | 103.2 | 108.0 | 109.3 | 111.1 | 110.6 | 109.8 |
| 67.5° | 30.9  | 40.9  | 51.8  | 61.8  | 69.7  | 74.9  | 78.4  | 81.5  | 81.0  | 80.1  | 79.7  |
| 70°   | 21.3  | 27.9  | 37.5  | 43.6  | 49.2  | 54.5  | 55.3  | 55.8  | 56.2  | 56.6  | 55.8  |
| 72.5° | 14.8  | 19.6  | 24.8  | 30.1  | 33.5  | 35.7  | 37.9  | 38.3  | 38.3  | 38.3  | 37.9  |
| 75°   | 7.4   | 10.0  | 14.8  | 17.0  | 20.0  | 20.9  | 22.6  | 22.6  | 24.0  | 22.2  | 21.8  |
| 77.5° | 6.5   | 7.8   | 10.5  | 12.2  | 13.5  | 14.8  | 15.2  | 16.6  | 16.1  | 15.2  | 15.7  |
| 80°   | 3.9   | 4.8   | 6.5   | 7.4   | 9.1   | 9.6   | 10.0  | 10.5  | 10.0  | 10.5  | 10.5  |
| 82.5° | 3.0   | 3.5   | 4.4   | 4.4   | 5.7   | 5.7   | 6.1   | 6.1   | 6.5   | 6.5   | 6.5   |
| 85°   | 1.7   | 3.0   | 2.6   | 5.2   | 3.5   | 3.5   | 4.4   | 5.2   | 4.4   | 4.4   | 5.2   |
| 87.5° | 1.7   | 1.7   | 1.3   | 1.7   | 1.7   | 1.7   | 2.2   | 2.6   | 2.6   | 3.0   | 2.6   |
| 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: P246193

CATALOG NUMBER: LD8B15D010 ER8B15840 8LBDW0MW

**CANDELA DISTRIBUTION (continued):**

|       | 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|
| 0°    | 811.5 | 811.5 | 811.5 | 811.5 |
| 2.5°  | 812.8 | 813.7 | 812.4 | 811.9 |
| 5°    | 814.1 | 814.1 | 813.2 | 813.2 |
| 7.5°  | 814.1 | 814.1 | 812.8 | 811.9 |
| 10°   | 810.6 | 810.6 | 809.3 | 808.4 |
| 12.5° | 804.1 | 804.1 | 803.6 | 802.3 |
| 15°   | 795.8 | 795.8 | 794.1 | 792.8 |
| 17.5° | 784.5 | 785.3 | 783.2 | 783.2 |
| 20°   | 772.3 | 771.8 | 770.1 | 769.2 |
| 22.5° | 759.6 | 758.8 | 758.3 | 755.7 |
| 25°   | 746.1 | 745.3 | 744.0 | 742.7 |
| 27.5° | 723.1 | 722.6 | 721.3 | 719.6 |
| 30°   | 687.8 | 687.3 | 685.6 | 685.6 |
| 32.5° | 642.0 | 641.6 | 639.9 | 640.3 |
| 35°   | 594.6 | 596.3 | 595.4 | 593.7 |
| 37.5° | 554.9 | 556.2 | 557.1 | 556.2 |
| 40°   | 521.8 | 525.7 | 526.2 | 527.1 |
| 42.5° | 486.5 | 491.8 | 493.5 | 494.4 |
| 45°   | 444.3 | 449.1 | 453.0 | 452.1 |
| 47.5° | 401.2 | 404.6 | 408.1 | 405.5 |
| 50°   | 359.8 | 362.0 | 363.3 | 363.3 |
| 52.5° | 320.6 | 320.6 | 320.2 | 320.6 |
| 55°   | 275.7 | 275.7 | 274.0 | 274.8 |
| 57.5° | 228.7 | 229.5 | 228.2 | 226.1 |
| 60°   | 185.1 | 182.9 | 182.1 | 180.8 |
| 62.5° | 144.2 | 144.2 | 141.1 | 145.0 |
| 65°   | 108.0 | 106.7 | 105.4 | 105.0 |
| 67.5° | 78.4  | 78.0  | 76.7  | 76.2  |
| 70°   | 55.3  | 53.6  | 53.1  | 52.3  |
| 72.5° | 37.0  | 37.0  | 36.2  | 36.2  |
| 75°   | 22.6  | 20.5  | 20.0  | 20.5  |
| 77.5° | 15.7  | 15.2  | 15.2  | 14.8  |
| 80°   | 10.5  | 10.0  | 10.9  | 9.6   |
| 82.5° | 6.5   | 7.0   | 6.5   | 7.0   |
| 85°   | 4.4   | 5.2   | 4.8   | 4.8   |
| 87.5° | 2.6   | 2.6   | 2.6   | 2.6   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)