

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: P249149

Luminaire Tested: **LD8B100D010 ER8B100935 8LBDW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249149  
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: LD8B100D010 ER8B100935 8LBDW0H  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9406.0 lumens  
Efficiency: N/A  
Efficacy: 88.5 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

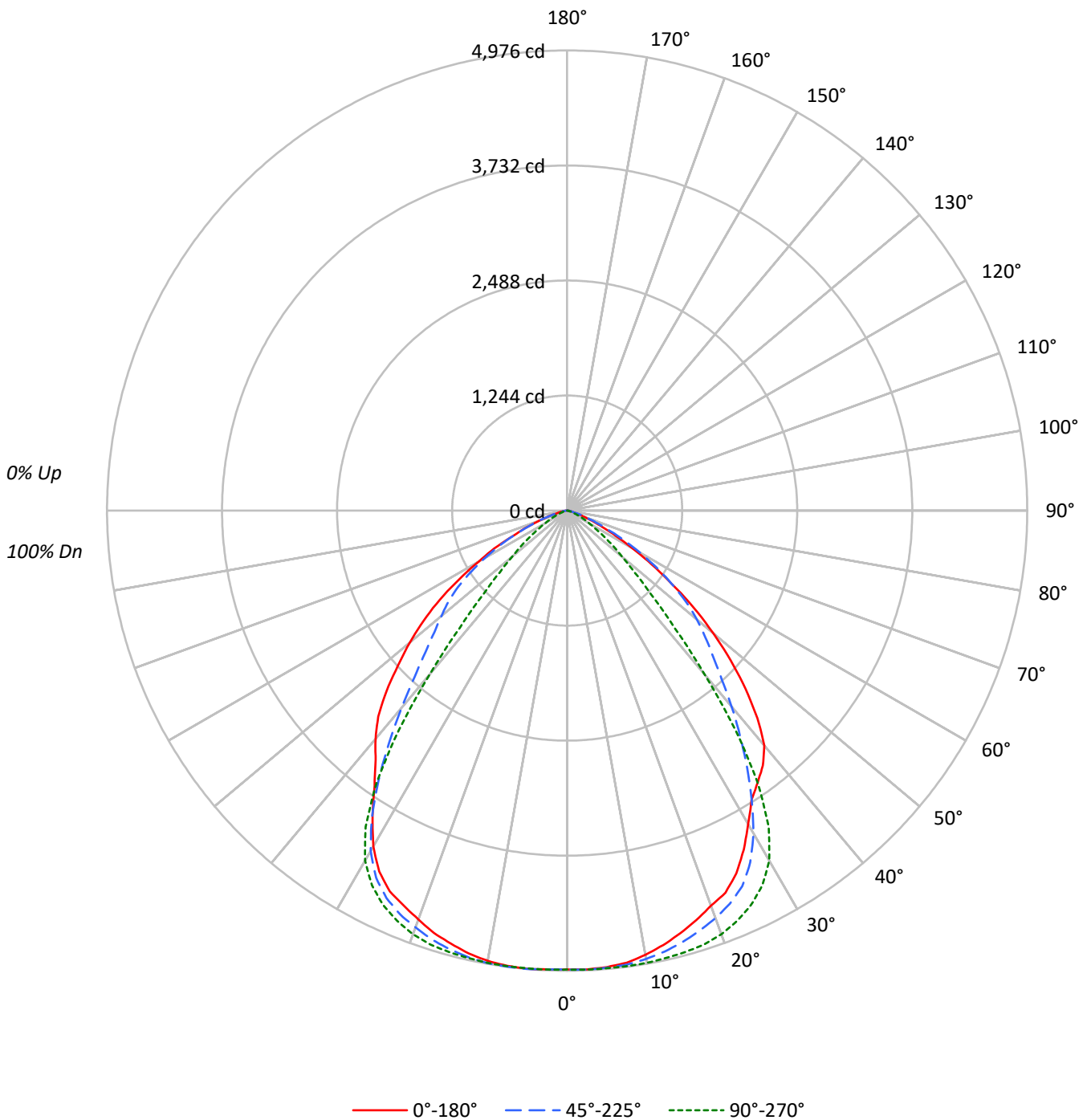
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

|     | 0°     | 90°    | 180°   |
|-----|--------|--------|--------|
| 0°  | 153034 | 153034 | 153034 |
| 5°  | 153371 | 153783 | 153950 |
| 10° | 152724 | 155480 | 154810 |
| 15° | 151033 | 157753 | 154778 |
| 20° | 149221 | 159971 | 154376 |
| 25° | 147284 | 160155 | 154534 |
| 30° | 139340 | 155651 | 149295 |
| 35° | 135177 | 135274 | 136682 |
| 40° | 133502 | 93075  | 129751 |
| 45° | 118957 | 55876  | 120584 |
| 50° | 98915  | 37189  | 106581 |
| 55° | 74185  | 25639  | 90368  |
| 60° | 50269  | 17083  | 68179  |
| 65° | 30324  | 11083  | 46843  |
| 70° | 16815  | 6005   | 28815  |
| 75° | 7613   | 2538   | 14917  |
| 80° | 6624   | 2841   | 10406  |
| 85° | 7536   | 3750   | 10367  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 473.6  | 5.0       |
| 10°-20°   | 1375.5 | 14.6      |
| 20°-30°   | 2087.7 | 22.2      |
| 30°-40°   | 2192.7 | 23.3      |
| 40°-50°   | 1644.0 | 17.5      |
| 50°-60°   | 1054.8 | 11.2      |
| 60°-70°   | 451.2  | 4.8       |
| 70°-80°   | 106.6  | 1.1       |
| 80°-90°   | 19.8   | 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°    | 3936.8 | 41.9      |
| 0°-40°    | 6129.6 | 65.2      |
| 0°-60°    | 8828.3 | 93.9      |
| 0°-90°    | 9406.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 9406.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 4963 | 4963 | 4963 | 4963 | 4963 |      |
| 5°  | 4955 | 4963 | 4968 | 4976 | 4974 | 471  |
| 15° | 4731 | 4830 | 4942 | 4910 | 4848 | 1334 |
| 25° | 4329 | 4481 | 4707 | 4622 | 4542 | 1978 |
| 35° | 3591 | 3391 | 3594 | 3551 | 3631 | 2254 |
| 45° | 2728 | 2230 | 1281 | 2166 | 2765 | 2089 |
| 55° | 1380 | 1380 | 477  | 1438 | 1681 | 1252 |
| 65° | 416  | 490  | 152  | 631  | 642  | 444  |
| 75° | 64   | 75   | 21   | 128  | 125  | 93   |
| 85° | 21   | 13   | 11   | 21   | 29   | 22   |
| 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°    | 4962.8 | 4962.8 | 4962.8 | 4962.8 | 4962.8 | 4962.8 | 4962.8 | 4962.8 | 4962.8 | 4962.8 | 4962.8 |
| 2.5°  | 4965.5 | 4970.8 | 4968.1 | 4968.1 | 4965.5 | 4968.1 | 4968.1 | 4973.5 | 4973.5 | 4968.1 | 4965.5 |
| 5°    | 4954.8 | 4960.1 | 4960.1 | 4954.8 | 4954.8 | 4968.1 | 4960.1 | 4965.5 | 4965.5 | 4962.8 | 4962.8 |
| 7.5°  | 4930.9 | 4930.9 | 4941.5 | 4933.5 | 4933.5 | 4941.5 | 4938.8 | 4944.1 | 4949.5 | 4952.2 | 4952.2 |
| 10°   | 4877.5 | 4882.9 | 4885.6 | 4885.6 | 4888.2 | 4896.2 | 4901.5 | 4912.2 | 4917.5 | 4922.8 | 4925.5 |
| 12.5° | 4811.0 | 4818.9 | 4821.6 | 4818.9 | 4827.0 | 4837.6 | 4850.9 | 4864.2 | 4872.3 | 4882.9 | 4890.9 |
| 15°   | 4731.0 | 4731.0 | 4736.4 | 4744.4 | 4749.7 | 4765.7 | 4779.0 | 4795.0 | 4816.3 | 4829.6 | 4842.9 |
| 17.5° | 4643.1 | 4648.5 | 4656.4 | 4656.4 | 4667.1 | 4693.7 | 4701.7 | 4725.7 | 4749.7 | 4763.0 | 4789.7 |
| 20°   | 4547.3 | 4552.5 | 4560.6 | 4565.9 | 4579.2 | 4600.5 | 4616.5 | 4637.8 | 4664.5 | 4688.4 | 4715.0 |
| 22.5° | 4472.6 | 4462.0 | 4467.3 | 4472.6 | 4486.0 | 4504.6 | 4523.3 | 4549.9 | 4576.5 | 4600.5 | 4627.2 |
| 25°   | 4328.8 | 4331.5 | 4339.5 | 4344.7 | 4360.8 | 4376.8 | 4398.1 | 4430.0 | 4454.0 | 4480.6 | 4509.9 |
| 27.5° | 4134.3 | 4137.0 | 4150.3 | 4150.3 | 4163.6 | 4190.3 | 4203.6 | 4230.2 | 4262.2 | 4288.8 | 4323.5 |
| 30°   | 3913.3 | 3918.5 | 3918.5 | 3929.2 | 3937.2 | 3950.5 | 3963.8 | 3990.5 | 4006.5 | 4030.4 | 4078.4 |
| 32.5° | 3710.8 | 3716.1 | 3713.4 | 3710.8 | 3702.8 | 3700.1 | 3697.4 | 3702.8 | 3708.1 | 3716.1 | 3734.7 |
| 35°   | 3590.9 | 3577.6 | 3566.9 | 3548.3 | 3527.0 | 3500.3 | 3476.3 | 3444.4 | 3415.1 | 3391.1 | 3364.5 |
| 37.5° | 3476.3 | 3473.7 | 3457.7 | 3431.0 | 3388.4 | 3340.5 | 3284.6 | 3215.3 | 3146.0 | 3071.4 | 2999.5 |
| 40°   | 3316.5 | 3308.5 | 3295.2 | 3257.9 | 3210.0 | 3151.4 | 3076.8 | 2991.5 | 2879.6 | 2765.1 | 2647.9 |
| 42.5° | 3044.8 | 3047.5 | 3031.5 | 3002.2 | 2956.9 | 2900.9 | 2823.7 | 2730.5 | 2610.6 | 2474.7 | 2322.9 |
| 45°   | 2727.8 | 2727.8 | 2722.5 | 2698.5 | 2666.5 | 2621.2 | 2562.6 | 2485.4 | 2368.2 | 2229.6 | 2067.1 |
| 47.5° | 2397.5 | 2400.1 | 2392.1 | 2386.8 | 2373.5 | 2344.2 | 2301.6 | 2243.0 | 2160.4 | 2027.2 | 1864.7 |
| 50°   | 2061.9 | 2061.9 | 2075.2 | 2072.5 | 2072.5 | 2061.9 | 2043.2 | 2008.5 | 1936.6 | 1830.1 | 1678.3 |
| 52.5° | 1726.2 | 1731.5 | 1739.5 | 1750.2 | 1763.5 | 1784.8 | 1763.5 | 1747.5 | 1702.2 | 1619.6 | 1489.1 |
| 55°   | 1379.9 | 1385.2 | 1398.5 | 1417.2 | 1433.2 | 1454.5 | 1459.8 | 1459.8 | 1435.8 | 1379.9 | 1281.3 |
| 57.5° | 1084.2 | 1076.2 | 1086.9 | 1102.9 | 1124.2 | 1145.5 | 1161.5 | 1180.1 | 1177.4 | 1140.1 | 1060.2 |
| 60°   | 815.1  | 817.8  | 825.8  | 841.8  | 857.8  | 876.4  | 897.7  | 913.7  | 921.7  | 903.1  | 852.4  |
| 62.5° | 594.1  | 594.1  | 604.7  | 620.7  | 628.7  | 655.3  | 668.6  | 676.6  | 684.6  | 681.9  | 650.0  |
| 65°   | 415.6  | 420.9  | 426.2  | 434.2  | 442.2  | 458.2  | 466.2  | 482.1  | 487.5  | 490.2  | 466.2  |
| 67.5° | 293.1  | 285.0  | 290.4  | 295.7  | 303.7  | 314.4  | 330.3  | 330.3  | 338.3  | 338.3  | 322.3  |
| 70°   | 186.5  | 186.5  | 189.2  | 197.1  | 202.5  | 205.1  | 210.5  | 215.7  | 223.8  | 221.1  | 221.1  |
| 72.5° | 125.2  | 122.5  | 125.2  | 127.9  | 130.6  | 138.5  | 138.5  | 141.2  | 146.5  | 149.2  | 138.5  |
| 75°   | 63.9   | 66.6   | 71.9   | 69.3   | 77.2   | 71.9   | 74.6   | 82.6   | 79.9   | 74.6   | 74.6   |
| 77.5° | 53.3   | 53.3   | 53.3   | 50.6   | 55.9   | 55.9   | 53.3   | 58.6   | 55.9   | 55.9   | 53.3   |
| 80°   | 37.3   | 40.0   | 37.3   | 34.6   | 37.3   | 34.6   | 34.6   | 34.6   | 34.6   | 34.6   | 31.9   |
| 82.5° | 29.3   | 24.0   | 26.7   | 24.0   | 26.7   | 26.7   | 24.0   | 21.3   | 21.3   | 24.0   | 21.3   |
| 85°   | 21.3   | 16.0   | 18.6   | 18.6   | 16.0   | 16.0   | 16.0   | 16.0   | 16.0   | 13.3   | 13.3   |
| 87.5° | 13.3   | 8.0    | 8.0    | 8.0    | 10.6   | 10.6   | 10.6   | 8.0    | 10.6   | 10.6   | 5.3    |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4962.8 | 4962.8 | 4962.8 | 4962.8 | 4962.8 | 4962.8 | 4962.8 | 4962.8 | 4962.8 | 4962.8 | 4962.8 |
| 2.5°  | 4970.8 | 4968.1 | 4973.5 | 4970.8 | 4970.8 | 4968.1 | 4970.8 | 4968.1 | 4973.5 | 4962.8 | 4965.5 |
| 5°    | 4970.8 | 4965.5 | 4968.1 | 4970.8 | 4973.5 | 4968.1 | 4968.1 | 4968.1 | 4973.5 | 4968.1 | 4970.8 |
| 7.5°  | 4960.1 | 4957.4 | 4965.5 | 4970.8 | 4968.1 | 4965.5 | 4970.8 | 4968.1 | 4973.5 | 4970.8 | 4976.1 |
| 10°   | 4938.8 | 4941.5 | 4946.8 | 4954.8 | 4957.4 | 4960.1 | 4965.5 | 4965.5 | 4973.5 | 4962.8 | 4968.1 |
| 12.5° | 4906.9 | 4917.5 | 4930.9 | 4936.1 | 4946.8 | 4946.8 | 4952.2 | 4954.8 | 4960.1 | 4957.4 | 4965.5 |
| 15°   | 4866.9 | 4880.2 | 4896.2 | 4909.5 | 4922.8 | 4930.9 | 4938.8 | 4941.5 | 4949.5 | 4941.5 | 4944.1 |
| 17.5° | 4818.9 | 4834.9 | 4858.9 | 4874.9 | 4896.2 | 4904.2 | 4914.8 | 4920.2 | 4928.2 | 4922.8 | 4925.5 |
| 20°   | 4752.3 | 4771.0 | 4797.6 | 4821.6 | 4834.9 | 4853.5 | 4866.9 | 4874.9 | 4880.2 | 4874.9 | 4877.5 |
| 22.5° | 4659.1 | 4685.8 | 4720.4 | 4739.0 | 4765.7 | 4781.7 | 4784.3 | 4803.0 | 4816.3 | 4803.0 | 4808.3 |
| 25°   | 4549.9 | 4576.5 | 4603.2 | 4643.1 | 4667.1 | 4685.8 | 4704.4 | 4707.1 | 4720.4 | 4717.7 | 4715.0 |
| 27.5° | 4368.7 | 4403.4 | 4448.6 | 4480.6 | 4512.6 | 4541.9 | 4563.2 | 4568.5 | 4581.9 | 4576.5 | 4579.2 |
| 30°   | 4121.0 | 4158.3 | 4201.0 | 4251.5 | 4296.8 | 4326.1 | 4352.8 | 4371.4 | 4384.7 | 4376.8 | 4374.1 |
| 32.5° | 3769.4 | 3806.7 | 3852.0 | 3902.6 | 3955.9 | 3998.4 | 4030.4 | 4054.4 | 4070.4 | 4065.1 | 4051.8 |
| 35°   | 3367.2 | 3377.8 | 3407.1 | 3447.1 | 3492.3 | 3537.6 | 3566.9 | 3593.5 | 3612.2 | 3617.5 | 3617.5 |
| 37.5° | 2954.2 | 2919.6 | 2898.3 | 2898.3 | 2924.9 | 2943.6 | 2970.2 | 2986.2 | 3015.5 | 3026.1 | 3034.2 |
| 40°   | 2554.6 | 2474.7 | 2400.1 | 2344.2 | 2306.9 | 2304.3 | 2304.3 | 2312.2 | 2338.9 | 2373.5 | 2405.5 |
| 42.5° | 2197.7 | 2069.8 | 1955.3 | 1851.4 | 1776.8 | 1734.2 | 1715.6 | 1718.2 | 1739.5 | 1771.5 | 1824.7 |
| 45°   | 1912.7 | 1752.8 | 1609.0 | 1483.8 | 1382.5 | 1315.9 | 1284.0 | 1281.3 | 1297.3 | 1334.6 | 1393.2 |
| 47.5° | 1691.6 | 1521.1 | 1358.6 | 1214.7 | 1105.5 | 1033.6 | 996.3  | 985.7  | 996.3  | 1030.9 | 1100.2 |
| 50°   | 1507.8 | 1332.0 | 1164.1 | 1014.9 | 897.7  | 823.2  | 788.5  | 775.2  | 788.5  | 817.8  | 887.0  |
| 52.5° | 1337.2 | 1156.1 | 999.0  | 855.1  | 729.9  | 666.0  | 628.7  | 620.7  | 628.7  | 663.3  | 719.3  |
| 55°   | 1140.1 | 985.7  | 831.1  | 687.3  | 578.1  | 514.1  | 484.8  | 476.9  | 484.8  | 516.8  | 575.4  |
| 57.5° | 945.7  | 812.5  | 676.6  | 546.1  | 452.9  | 396.9  | 370.3  | 359.6  | 378.2  | 399.6  | 468.8  |
| 60°   | 764.5  | 658.0  | 543.4  | 428.9  | 351.6  | 301.0  | 279.7  | 277.0  | 282.4  | 309.0  | 356.9  |
| 62.5° | 599.4  | 511.5  | 420.9  | 327.7  | 263.7  | 242.4  | 215.7  | 213.1  | 218.4  | 234.4  | 271.7  |
| 65°   | 431.6  | 375.6  | 306.3  | 239.7  | 189.2  | 159.8  | 149.2  | 151.9  | 157.2  | 167.8  | 202.5  |
| 67.5° | 301.0  | 261.0  | 213.1  | 167.8  | 130.6  | 117.2  | 106.6  | 103.9  | 106.6  | 125.2  | 143.9  |
| 70°   | 202.5  | 178.5  | 143.9  | 127.9  | 90.6   | 71.9   | 74.6   | 66.6   | 77.2   | 77.2   | 93.2   |
| 72.5° | 133.2  | 117.2  | 95.9   | 74.6   | 63.9   | 50.6   | 50.6   | 48.0   | 53.3   | 55.9   | 69.3   |
| 75°   | 69.3   | 53.3   | 53.3   | 37.3   | 26.7   | 13.3   | 24.0   | 21.3   | 18.6   | 21.3   | 26.7   |
| 77.5° | 48.0   | 40.0   | 37.3   | 29.3   | 26.7   | 21.3   | 21.3   | 21.3   | 21.3   | 24.0   | 26.7   |
| 80°   | 29.3   | 29.3   | 21.3   | 18.6   | 16.0   | 13.3   | 16.0   | 16.0   | 16.0   | 16.0   | 18.6   |
| 82.5° | 18.6   | 16.0   | 16.0   | 13.3   | 13.3   | 10.6   | 10.6   | 10.6   | 10.6   | 10.6   | 16.0   |
| 85°   | 16.0   | 10.6   | 10.6   | 8.0    | 10.6   | 18.6   | 8.0    | 10.6   | 10.6   | 10.6   | 8.0    |
| 87.5° | 5.3    | 8.0    | 8.0    | 8.0    | 5.3    | 2.7    | 5.3    | 8.0    | 8.0    | 13.3   | 10.6   |
| 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):**

|       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4962.8 | 4962.8 | 4962.8 | 4962.8 | 4962.8 | 4962.8 | 4962.8 | 4962.8 | 4962.8 | 4962.8 | 4962.8 |
| 2.5°  | 4970.8 | 4973.5 | 4973.5 | 4970.8 | 4970.8 | 4965.5 | 4976.1 | 4968.1 | 4970.8 | 4981.4 | 4973.5 |
| 5°    | 4976.1 | 4978.8 | 4978.8 | 4976.1 | 4976.1 | 4976.1 | 4978.8 | 4978.8 | 4976.1 | 4973.5 | 4978.8 |
| 7.5°  | 4986.8 | 4984.1 | 4984.1 | 4978.8 | 4978.8 | 4973.5 | 4978.8 | 4970.8 | 4976.1 | 4970.8 | 4978.8 |
| 10°   | 4973.5 | 4976.1 | 4973.5 | 4970.8 | 4970.8 | 4968.1 | 4968.1 | 4960.1 | 4962.8 | 4954.8 | 4960.1 |
| 12.5° | 4965.5 | 4962.8 | 4962.8 | 4957.4 | 4952.2 | 4946.8 | 4944.1 | 4936.1 | 4936.1 | 4917.5 | 4925.5 |
| 15°   | 4944.1 | 4946.8 | 4938.8 | 4928.2 | 4922.8 | 4909.5 | 4904.2 | 4893.5 | 4882.9 | 4869.6 | 4872.3 |
| 17.5° | 4925.5 | 4917.5 | 4906.9 | 4896.2 | 4874.9 | 4864.2 | 4853.5 | 4837.6 | 4832.2 | 4816.3 | 4811.0 |
| 20°   | 4869.6 | 4864.2 | 4850.9 | 4832.2 | 4818.9 | 4795.0 | 4784.3 | 4768.4 | 4755.0 | 4739.0 | 4731.0 |
| 22.5° | 4797.6 | 4792.3 | 4776.3 | 4757.7 | 4736.4 | 4725.7 | 4715.0 | 4685.8 | 4672.4 | 4656.4 | 4653.8 |
| 25°   | 4707.1 | 4699.1 | 4683.1 | 4661.8 | 4651.1 | 4621.8 | 4611.1 | 4589.8 | 4584.5 | 4568.5 | 4565.9 |
| 27.5° | 4568.5 | 4557.9 | 4539.2 | 4512.6 | 4493.9 | 4475.3 | 4464.7 | 4448.6 | 4443.4 | 4427.3 | 4424.7 |
| 30°   | 4360.8 | 4347.4 | 4310.1 | 4299.5 | 4267.5 | 4248.9 | 4248.9 | 4227.6 | 4230.2 | 4219.6 | 4219.6 |
| 32.5° | 4033.1 | 4011.8 | 3982.5 | 3961.2 | 3939.8 | 3929.2 | 3929.2 | 3921.2 | 3926.5 | 3926.5 | 3931.9 |
| 35°   | 3598.9 | 3569.6 | 3553.6 | 3540.3 | 3540.3 | 3550.9 | 3582.9 | 3590.9 | 3606.9 | 3620.2 | 3630.9 |
| 37.5° | 3042.1 | 3039.5 | 3058.1 | 3074.1 | 3114.1 | 3159.4 | 3215.3 | 3263.3 | 3308.5 | 3340.5 | 3372.4 |
| 40°   | 2440.1 | 2506.7 | 2560.0 | 2634.6 | 2695.8 | 2783.7 | 2885.0 | 2967.5 | 3044.8 | 3100.8 | 3159.4 |
| 42.5° | 1904.6 | 1989.9 | 2101.8 | 2211.0 | 2320.2 | 2440.1 | 2573.3 | 2687.9 | 2789.1 | 2866.3 | 2927.6 |
| 45°   | 1483.8 | 1601.0 | 1736.9 | 1875.4 | 2016.6 | 2165.8 | 2304.3 | 2421.5 | 2528.0 | 2607.9 | 2669.2 |
| 47.5° | 1196.1 | 1323.9 | 1478.4 | 1630.3 | 1790.1 | 1947.3 | 2101.8 | 2203.0 | 2290.9 | 2354.8 | 2410.8 |
| 50°   | 988.3  | 1124.2 | 1286.7 | 1459.8 | 1619.6 | 1776.8 | 1910.0 | 2008.5 | 2080.5 | 2136.4 | 2171.0 |
| 52.5° | 825.8  | 969.6  | 1142.8 | 1315.9 | 1475.8 | 1619.6 | 1739.5 | 1814.1 | 1872.7 | 1912.7 | 1944.6 |
| 55°   | 681.9  | 820.5  | 983.0  | 1145.5 | 1302.6 | 1438.5 | 1537.0 | 1593.0 | 1638.3 | 1662.2 | 1680.9 |
| 57.5° | 556.8  | 684.6  | 833.8  | 983.0  | 1118.8 | 1230.7 | 1308.0 | 1363.9 | 1385.2 | 1403.9 | 1401.2 |
| 60°   | 436.9  | 556.8  | 692.6  | 820.5  | 937.7  | 1028.2 | 1084.2 | 1116.2 | 1132.1 | 1140.1 | 1134.8 |
| 62.5° | 343.6  | 452.9  | 556.8  | 668.6  | 753.9  | 831.1  | 884.4  | 884.4  | 892.4  | 895.1  | 903.1  |
| 65°   | 255.7  | 338.3  | 428.9  | 511.5  | 580.7  | 631.3  | 660.7  | 668.6  | 679.3  | 676.6  | 671.3  |
| 67.5° | 189.2  | 250.4  | 317.0  | 378.2  | 426.2  | 458.2  | 479.5  | 498.2  | 495.5  | 490.2  | 487.5  |
| 70°   | 130.6  | 170.5  | 229.1  | 266.4  | 301.0  | 333.0  | 338.3  | 341.0  | 343.6  | 346.3  | 341.0  |
| 72.5° | 90.6   | 119.9  | 151.9  | 183.8  | 205.1  | 218.4  | 231.8  | 234.4  | 234.4  | 234.4  | 231.8  |
| 75°   | 45.3   | 61.3   | 90.6   | 103.9  | 122.5  | 127.9  | 138.5  | 138.5  | 146.5  | 135.8  | 133.2  |
| 77.5° | 40.0   | 48.0   | 63.9   | 74.6   | 82.6   | 90.6   | 93.2   | 101.2  | 98.6   | 93.2   | 95.9   |
| 80°   | 24.0   | 29.3   | 40.0   | 45.3   | 55.9   | 58.6   | 61.3   | 63.9   | 61.3   | 63.9   | 63.9   |
| 82.5° | 18.6   | 21.3   | 26.7   | 26.7   | 34.6   | 34.6   | 37.3   | 37.3   | 40.0   | 40.0   | 40.0   |
| 85°   | 10.6   | 18.6   | 16.0   | 31.9   | 21.3   | 21.3   | 26.7   | 31.9   | 26.7   | 26.7   | 31.9   |
| 87.5° | 10.6   | 10.6   | 8.0    | 10.6   | 10.6   | 10.6   | 13.3   | 16.0   | 16.0   | 18.6   | 16.0   |
| 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: P249149

CATALOG NUMBER: LD8B100D010 ER8B100935 8LBDW0H

**CANDELA DISTRIBUTION (continued):**

|       | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 4962.8 | 4962.8 | 4962.8 | 4962.8 |
| 2.5°  | 4970.8 | 4976.1 | 4968.1 | 4965.5 |
| 5°    | 4978.8 | 4978.8 | 4973.5 | 4973.5 |
| 7.5°  | 4978.8 | 4978.8 | 4970.8 | 4965.5 |
| 10°   | 4957.4 | 4957.4 | 4949.5 | 4944.1 |
| 12.5° | 4917.5 | 4917.5 | 4914.8 | 4906.9 |
| 15°   | 4866.9 | 4866.9 | 4856.2 | 4848.3 |
| 17.5° | 4797.6 | 4803.0 | 4789.7 | 4789.7 |
| 20°   | 4723.1 | 4720.4 | 4709.8 | 4704.4 |
| 22.5° | 4645.8 | 4640.5 | 4637.8 | 4621.8 |
| 25°   | 4563.2 | 4557.9 | 4549.9 | 4541.9 |
| 27.5° | 4422.1 | 4419.4 | 4411.4 | 4400.7 |
| 30°   | 4206.2 | 4203.6 | 4192.9 | 4192.9 |
| 32.5° | 3926.5 | 3923.9 | 3913.3 | 3915.9 |
| 35°   | 3636.2 | 3646.9 | 3641.5 | 3630.9 |
| 37.5° | 3393.8 | 3401.8 | 3407.1 | 3401.8 |
| 40°   | 3191.3 | 3215.3 | 3218.0 | 3223.3 |
| 42.5° | 2975.6 | 3007.5 | 3018.2 | 3023.5 |
| 45°   | 2717.1 | 2746.5 | 2770.4 | 2765.1 |
| 47.5° | 2453.4 | 2474.7 | 2496.0 | 2480.1 |
| 50°   | 2200.4 | 2213.7 | 2221.7 | 2221.7 |
| 52.5° | 1960.6 | 1960.6 | 1958.0 | 1960.6 |
| 55°   | 1686.2 | 1686.2 | 1675.6 | 1680.9 |
| 57.5° | 1398.5 | 1403.9 | 1395.8 | 1382.5 |
| 60°   | 1132.1 | 1118.8 | 1113.5 | 1105.5 |
| 62.5° | 881.8  | 881.8  | 863.1  | 887.0  |
| 65°   | 660.7  | 652.7  | 644.6  | 642.0  |
| 67.5° | 479.5  | 476.9  | 468.8  | 466.2  |
| 70°   | 338.3  | 327.7  | 325.0  | 319.6  |
| 72.5° | 226.4  | 226.4  | 221.1  | 221.1  |
| 75°   | 138.5  | 125.2  | 122.5  | 125.2  |
| 77.5° | 95.9   | 93.2   | 93.2   | 90.6   |
| 80°   | 63.9   | 61.3   | 66.6   | 58.6   |
| 82.5° | 40.0   | 42.6   | 40.0   | 42.6   |
| 85°   | 26.7   | 31.9   | 29.3   | 29.3   |
| 87.5° | 16.0   | 16.0   | 16.0   | 16.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)