

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: P249285

Luminaire Tested: **LD8B120D010 ER8B120927 8LBDW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249285  
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: LD8B120D010 ER8B120927 8LBDW0WMH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 2700 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9743.6 lumens  
Efficiency: N/A  
Efficacy: 82.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

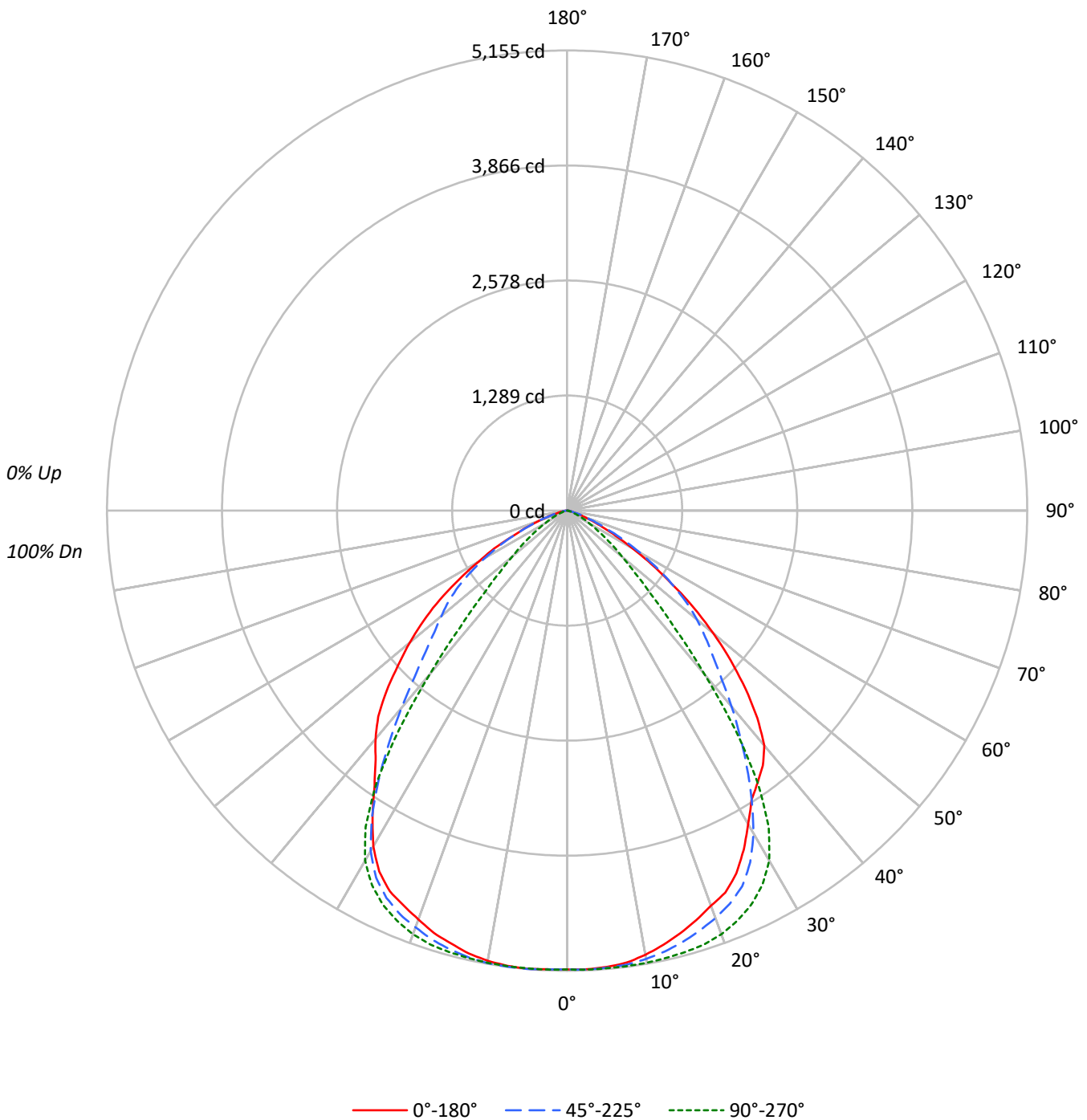
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 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°  | Luminaire represents a point source (luminous area is zero). |     |      |
| 5°  | No luminance values can be calculated.                       |     |      |
| 10° |  |     |      |
| 15° |  |     |      |
| 20° |  |     |      |
| 25° |  |     |      |
| 30° |  |     |      |
| 35° |  |     |      |
| 40° |  |     |      |
| 45° |  |     |      |
| 50° |  |     |      |
| 55° |  |     |      |
| 60° |  |     |      |
| 65° |  |     |      |
| 70° |  |     |      |
| 75° |  |     |      |
| 80° |  |     |      |
| 85° |  |     |      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 490.6  | 5.0       |
| 10°-20°   | 1424.9 | 14.6      |
| 20°-30°   | 2162.7 | 22.2      |
| 30°-40°   | 2271.4 | 23.3      |
| 40°-50°   | 1703.0 | 17.5      |
| 50°-60°   | 1092.7 | 11.2      |
| 60°-70°   | 467.4  | 4.8       |
| 70°-80°   | 110.4  | 1.1       |
| 80°-90°   | 20.5   | 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°    | 4078.1 | 41.9      |
| 0°-40°    | 6349.6 | 65.2      |
| 0°-60°    | 9145.2 | 93.9      |
| 0°-90°    | 9743.6 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 9743.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 5141 | 5141 | 5141 | 5141 | 5141 |      |
| 5°  | 5133 | 5141 | 5146 | 5155 | 5152 | 488  |
| 15° | 4901 | 5003 | 5119 | 5086 | 5022 | 1382 |
| 25° | 4484 | 4642 | 4876 | 4788 | 4705 | 2049 |
| 35° | 3720 | 3513 | 3722 | 3678 | 3761 | 2335 |
| 45° | 2826 | 2310 | 1327 | 2244 | 2864 | 2164 |
| 55° | 1429 | 1429 | 494  | 1490 | 1741 | 1297 |
| 65° | 430  | 508  | 157  | 654  | 665  | 460  |
| 75° | 66   | 77   | 22   | 132  | 130  | 96   |
| 85° | 22   | 14   | 11   | 22   | 30   | 23   |
| 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°    | 5140.9 | 5140.9 | 5140.9 | 5140.9 | 5140.9 | 5140.9 | 5140.9 | 5140.9 | 5140.9 | 5140.9 | 5140.9 |
| 2.5°  | 5143.7 | 5149.2 | 5146.4 | 5146.4 | 5143.7 | 5146.4 | 5146.4 | 5152.0 | 5152.0 | 5146.4 | 5143.7 |
| 5°    | 5132.6 | 5138.2 | 5138.2 | 5132.6 | 5132.6 | 5146.4 | 5138.2 | 5143.7 | 5143.7 | 5140.9 | 5140.9 |
| 7.5°  | 5107.8 | 5107.8 | 5118.9 | 5110.7 | 5110.7 | 5118.9 | 5116.0 | 5121.6 | 5127.2 | 5129.9 | 5129.9 |
| 10°   | 5052.6 | 5058.1 | 5060.9 | 5060.9 | 5063.7 | 5072.0 | 5077.5 | 5088.5 | 5094.0 | 5099.5 | 5102.3 |
| 12.5° | 4983.6 | 4992.0 | 4994.7 | 4992.0 | 5000.2 | 5011.2 | 5025.0 | 5038.9 | 5047.1 | 5058.1 | 5066.4 |
| 15°   | 4900.8 | 4900.8 | 4906.3 | 4914.7 | 4920.2 | 4936.7 | 4950.6 | 4967.1 | 4989.2 | 5003.0 | 5016.7 |
| 17.5° | 4809.8 | 4815.3 | 4823.6 | 4823.6 | 4834.7 | 4862.2 | 4870.5 | 4895.3 | 4920.2 | 4934.0 | 4961.6 |
| 20°   | 4710.5 | 4716.0 | 4724.2 | 4729.8 | 4743.6 | 4765.6 | 4782.2 | 4804.3 | 4831.9 | 4856.7 | 4884.3 |
| 22.5° | 4633.2 | 4622.2 | 4627.7 | 4633.2 | 4647.0 | 4666.3 | 4685.6 | 4713.2 | 4740.8 | 4765.6 | 4793.3 |
| 25°   | 4484.1 | 4487.0 | 4495.3 | 4500.7 | 4517.3 | 4533.9 | 4555.9 | 4589.0 | 4613.8 | 4641.5 | 4671.8 |
| 27.5° | 4282.8 | 4285.5 | 4299.3 | 4299.3 | 4313.0 | 4340.7 | 4354.4 | 4382.1 | 4415.2 | 4442.7 | 4478.7 |
| 30°   | 4053.7 | 4059.2 | 4059.2 | 4070.2 | 4078.5 | 4092.3 | 4106.1 | 4133.7 | 4150.2 | 4175.1 | 4224.8 |
| 32.5° | 3844.0 | 3849.4 | 3846.7 | 3844.0 | 3835.7 | 3832.9 | 3830.2 | 3835.7 | 3841.2 | 3849.4 | 3868.8 |
| 35°   | 3719.8 | 3706.0 | 3695.0 | 3675.7 | 3653.6 | 3626.0 | 3601.1 | 3568.0 | 3537.7 | 3512.8 | 3485.2 |
| 37.5° | 3601.1 | 3598.3 | 3581.8 | 3554.2 | 3510.0 | 3460.4 | 3402.4 | 3330.7 | 3258.9 | 3181.7 | 3107.2 |
| 40°   | 3435.5 | 3427.3 | 3413.5 | 3374.9 | 3325.2 | 3264.5 | 3187.2 | 3098.9 | 2982.9 | 2864.4 | 2743.0 |
| 42.5° | 3154.0 | 3156.9 | 3140.3 | 3110.0 | 3063.0 | 3005.1 | 2925.0 | 2828.5 | 2704.3 | 2563.5 | 2406.3 |
| 45°   | 2825.8 | 2825.8 | 2820.2 | 2795.3 | 2762.2 | 2715.3 | 2654.7 | 2574.6 | 2453.2 | 2309.6 | 2141.3 |
| 47.5° | 2483.5 | 2486.2 | 2478.0 | 2472.5 | 2458.7 | 2428.3 | 2384.2 | 2323.5 | 2238.0 | 2099.9 | 1931.6 |
| 50°   | 2135.8 | 2135.8 | 2149.6 | 2146.8 | 2146.8 | 2135.8 | 2116.6 | 2080.7 | 2006.2 | 1895.7 | 1738.5 |
| 52.5° | 1788.2 | 1793.7 | 1802.0 | 1812.9 | 1826.8 | 1848.8 | 1826.8 | 1810.2 | 1763.3 | 1677.7 | 1542.6 |
| 55°   | 1429.4 | 1434.9 | 1448.7 | 1468.0 | 1484.7 | 1506.7 | 1512.2 | 1512.2 | 1487.4 | 1429.4 | 1327.3 |
| 57.5° | 1123.1 | 1114.9 | 1125.9 | 1142.4 | 1164.5 | 1186.6 | 1203.2 | 1222.4 | 1219.7 | 1181.0 | 1098.3 |
| 60°   | 844.4  | 847.1  | 855.4  | 872.0  | 888.5  | 907.9  | 929.9  | 946.5  | 954.8  | 935.4  | 883.0  |
| 62.5° | 615.4  | 615.4  | 626.4  | 642.9  | 651.3  | 678.8  | 692.7  | 700.9  | 709.2  | 706.4  | 673.3  |
| 65°   | 430.5  | 435.9  | 441.6  | 449.8  | 458.1  | 474.6  | 482.8  | 499.5  | 505.0  | 507.7  | 482.8  |
| 67.5° | 303.5  | 295.3  | 300.8  | 306.2  | 314.6  | 325.7  | 342.2  | 342.2  | 350.4  | 350.4  | 333.9  |
| 70°   | 193.2  | 193.2  | 196.0  | 204.2  | 209.7  | 212.5  | 218.0  | 223.5  | 231.8  | 229.0  | 229.0  |
| 72.5° | 129.7  | 126.9  | 129.7  | 132.5  | 135.2  | 143.4  | 143.4  | 146.2  | 151.8  | 154.6  | 143.4  |
| 75°   | 66.3   | 69.0   | 74.5   | 71.8   | 80.0   | 74.5   | 77.3   | 85.5   | 82.8   | 77.3   | 77.3   |
| 77.5° | 55.1   | 55.1   | 55.1   | 52.4   | 57.9   | 57.9   | 55.1   | 60.8   | 57.9   | 57.9   | 55.1   |
| 80°   | 38.6   | 41.4   | 38.6   | 35.9   | 38.6   | 35.9   | 35.9   | 35.9   | 35.9   | 35.9   | 33.1   |
| 82.5° | 30.4   | 24.9   | 27.6   | 24.9   | 27.6   | 27.6   | 24.9   | 22.0   | 22.0   | 24.9   | 22.0   |
| 85°   | 22.0   | 16.5   | 19.3   | 19.3   | 16.5   | 16.5   | 16.5   | 16.5   | 16.5   | 13.7   | 13.7   |
| 87.5° | 13.7   | 8.3    | 8.3    | 8.3    | 11.0   | 11.0   | 11.0   | 8.3    | 11.0   | 11.0   | 5.5    |
| 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°    | 5140.9 | 5140.9 | 5140.9 | 5140.9 | 5140.9 | 5140.9 | 5140.9 | 5140.9 | 5140.9 | 5140.9 | 5140.9 |
| 2.5°  | 5149.2 | 5146.4 | 5152.0 | 5149.2 | 5149.2 | 5146.4 | 5149.2 | 5146.4 | 5152.0 | 5140.9 | 5143.7 |
| 5°    | 5149.2 | 5143.7 | 5146.4 | 5149.2 | 5152.0 | 5146.4 | 5146.4 | 5146.4 | 5152.0 | 5146.4 | 5149.2 |
| 7.5°  | 5138.2 | 5135.4 | 5143.7 | 5149.2 | 5146.4 | 5143.7 | 5149.2 | 5146.4 | 5152.0 | 5149.2 | 5154.8 |
| 10°   | 5116.0 | 5118.9 | 5124.4 | 5132.6 | 5135.4 | 5138.2 | 5143.7 | 5143.7 | 5152.0 | 5140.9 | 5146.4 |
| 12.5° | 5083.0 | 5094.0 | 5107.8 | 5113.3 | 5124.4 | 5124.4 | 5129.9 | 5132.6 | 5138.2 | 5135.4 | 5143.7 |
| 15°   | 5041.6 | 5055.4 | 5072.0 | 5085.8 | 5099.5 | 5107.8 | 5116.0 | 5118.9 | 5127.2 | 5118.9 | 5121.6 |
| 17.5° | 4992.0 | 5008.5 | 5033.2 | 5049.9 | 5072.0 | 5080.3 | 5091.2 | 5096.8 | 5105.0 | 5099.5 | 5102.3 |
| 20°   | 4922.9 | 4942.2 | 4969.8 | 4994.7 | 5008.5 | 5027.7 | 5041.6 | 5049.9 | 5055.4 | 5049.9 | 5052.6 |
| 22.5° | 4826.4 | 4853.9 | 4889.8 | 4909.2 | 4936.7 | 4953.3 | 4956.1 | 4975.3 | 4989.2 | 4975.3 | 4980.9 |
| 25°   | 4713.2 | 4740.8 | 4768.4 | 4809.8 | 4834.7 | 4853.9 | 4873.3 | 4876.1 | 4889.8 | 4887.0 | 4884.3 |
| 27.5° | 4525.5 | 4561.4 | 4608.3 | 4641.5 | 4674.6 | 4705.0 | 4727.0 | 4732.5 | 4746.4 | 4740.8 | 4743.6 |
| 30°   | 4268.9 | 4307.6 | 4351.7 | 4404.2 | 4451.1 | 4481.4 | 4509.0 | 4528.3 | 4542.1 | 4533.9 | 4531.0 |
| 32.5° | 3904.6 | 3943.4 | 3990.3 | 4042.7 | 4097.9 | 4141.9 | 4175.1 | 4200.0 | 4216.5 | 4211.0 | 4197.2 |
| 35°   | 3488.1 | 3499.1 | 3529.5 | 3570.9 | 3617.7 | 3664.6 | 3695.0 | 3722.5 | 3741.9 | 3747.4 | 3747.4 |
| 37.5° | 3060.3 | 3024.5 | 3002.4 | 3002.4 | 3030.0 | 3049.2 | 3076.9 | 3093.4 | 3123.8 | 3134.8 | 3143.0 |
| 40°   | 2646.3 | 2563.5 | 2486.2 | 2428.3 | 2389.7 | 2387.0 | 2387.0 | 2395.2 | 2422.8 | 2458.7 | 2491.9 |
| 42.5° | 2276.5 | 2144.1 | 2025.4 | 1917.9 | 1840.6 | 1796.4 | 1777.2 | 1779.9 | 1802.0 | 1835.1 | 1890.2 |
| 45°   | 1981.4 | 1815.8 | 1666.7 | 1537.1 | 1432.1 | 1363.2 | 1330.1 | 1327.3 | 1343.8 | 1382.5 | 1443.3 |
| 47.5° | 1752.3 | 1575.7 | 1407.4 | 1258.3 | 1145.2 | 1070.7 | 1032.1 | 1021.0 | 1032.1 | 1067.9 | 1139.6 |
| 50°   | 1561.8 | 1379.8 | 1205.9 | 1051.3 | 929.9  | 852.8  | 816.8  | 803.0  | 816.8  | 847.1  | 918.9  |
| 52.5° | 1385.2 | 1197.6 | 1034.8 | 885.8  | 756.1  | 689.8  | 651.3  | 642.9  | 651.3  | 687.0  | 745.1  |
| 55°   | 1181.0 | 1021.0 | 861.0  | 711.9  | 598.8  | 532.6  | 502.2  | 494.0  | 502.2  | 535.4  | 596.0  |
| 57.5° | 979.6  | 841.6  | 700.9  | 565.6  | 469.1  | 411.2  | 383.6  | 372.5  | 391.8  | 413.9  | 485.7  |
| 60°   | 792.0  | 681.6  | 562.9  | 444.3  | 364.3  | 311.8  | 289.7  | 287.0  | 292.5  | 320.1  | 369.8  |
| 62.5° | 620.9  | 529.9  | 435.9  | 339.4  | 273.2  | 251.1  | 223.5  | 220.8  | 226.2  | 242.8  | 281.5  |
| 65°   | 447.1  | 389.1  | 317.4  | 248.3  | 196.0  | 165.6  | 154.6  | 157.3  | 162.8  | 173.8  | 209.7  |
| 67.5° | 311.8  | 270.4  | 220.8  | 173.8  | 135.2  | 121.4  | 110.4  | 107.7  | 110.4  | 129.7  | 149.1  |
| 70°   | 209.7  | 184.8  | 149.1  | 132.5  | 93.8   | 74.5   | 77.3   | 69.0   | 80.0   | 80.0   | 96.5   |
| 72.5° | 137.9  | 121.4  | 99.3   | 77.3   | 66.3   | 52.4   | 52.4   | 49.7   | 55.1   | 57.9   | 71.8   |
| 75°   | 71.8   | 55.1   | 55.1   | 38.6   | 27.6   | 13.7   | 24.9   | 22.0   | 19.3   | 22.0   | 27.6   |
| 77.5° | 49.7   | 41.4   | 38.6   | 30.4   | 27.6   | 22.0   | 22.0   | 22.0   | 22.0   | 24.9   | 27.6   |
| 80°   | 30.4   | 30.4   | 22.0   | 19.3   | 16.5   | 13.7   | 16.5   | 16.5   | 16.5   | 16.5   | 19.3   |
| 82.5° | 19.3   | 16.5   | 16.5   | 13.7   | 13.7   | 11.0   | 11.0   | 11.0   | 11.0   | 11.0   | 16.5   |
| 85°   | 16.5   | 11.0   | 11.0   | 8.3    | 11.0   | 19.3   | 8.3    | 11.0   | 11.0   | 11.0   | 8.3    |
| 87.5° | 5.5    | 8.3    | 8.3    | 8.3    | 5.5    | 2.8    | 5.5    | 8.3    | 8.3    | 13.7   | 11.0   |
| 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):**

|       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5140.9 | 5140.9 | 5140.9 | 5140.9 | 5140.9 | 5140.9 | 5140.9 | 5140.9 | 5140.9 | 5140.9 | 5140.9 |
| 2.5°  | 5149.2 | 5152.0 | 5152.0 | 5149.2 | 5149.2 | 5143.7 | 5154.8 | 5146.4 | 5149.2 | 5160.3 | 5152.0 |
| 5°    | 5154.8 | 5157.4 | 5157.4 | 5154.8 | 5154.8 | 5154.8 | 5157.4 | 5157.4 | 5154.8 | 5152.0 | 5157.4 |
| 7.5°  | 5165.8 | 5163.0 | 5163.0 | 5157.4 | 5157.4 | 5152.0 | 5157.4 | 5149.2 | 5154.8 | 5149.2 | 5157.4 |
| 10°   | 5152.0 | 5154.8 | 5152.0 | 5149.2 | 5149.2 | 5146.4 | 5146.4 | 5138.2 | 5140.9 | 5132.6 | 5138.2 |
| 12.5° | 5143.7 | 5140.9 | 5140.9 | 5135.4 | 5129.9 | 5124.4 | 5121.6 | 5113.3 | 5113.3 | 5094.0 | 5102.3 |
| 15°   | 5121.6 | 5124.4 | 5116.0 | 5105.0 | 5099.5 | 5085.8 | 5080.3 | 5069.1 | 5058.1 | 5044.4 | 5047.1 |
| 17.5° | 5102.3 | 5094.0 | 5083.0 | 5072.0 | 5049.9 | 5038.9 | 5027.7 | 5011.2 | 5005.7 | 4989.2 | 4983.6 |
| 20°   | 5044.4 | 5038.9 | 5025.0 | 5005.7 | 4992.0 | 4967.1 | 4956.1 | 4939.5 | 4925.7 | 4909.2 | 4900.8 |
| 22.5° | 4969.8 | 4964.3 | 4947.8 | 4928.4 | 4906.3 | 4895.3 | 4884.3 | 4853.9 | 4840.1 | 4823.6 | 4820.8 |
| 25°   | 4876.1 | 4867.8 | 4851.2 | 4829.2 | 4818.0 | 4787.8 | 4776.6 | 4754.6 | 4749.1 | 4732.5 | 4729.8 |
| 27.5° | 4732.5 | 4721.5 | 4702.2 | 4674.6 | 4655.2 | 4635.9 | 4625.0 | 4608.3 | 4602.8 | 4586.3 | 4583.6 |
| 30°   | 4517.3 | 4503.5 | 4464.9 | 4453.9 | 4420.7 | 4401.3 | 4401.3 | 4379.3 | 4382.1 | 4371.1 | 4371.1 |
| 32.5° | 4177.9 | 4155.9 | 4125.4 | 4103.3 | 4081.3 | 4070.2 | 4070.2 | 4061.9 | 4067.4 | 4067.4 | 4073.1 |
| 35°   | 3728.0 | 3697.8 | 3681.1 | 3667.4 | 3667.4 | 3678.4 | 3711.5 | 3719.8 | 3736.4 | 3750.2 | 3761.2 |
| 37.5° | 3151.4 | 3148.6 | 3167.9 | 3184.4 | 3225.8 | 3272.7 | 3330.7 | 3380.4 | 3427.3 | 3460.4 | 3493.5 |
| 40°   | 2527.6 | 2596.7 | 2651.8 | 2729.1 | 2792.6 | 2883.7 | 2988.6 | 3074.1 | 3154.0 | 3212.1 | 3272.7 |
| 42.5° | 1973.0 | 2061.3 | 2177.2 | 2290.4 | 2403.6 | 2527.6 | 2665.7 | 2784.4 | 2889.2 | 2969.2 | 3032.7 |
| 45°   | 1537.1 | 1658.5 | 1799.2 | 1942.6 | 2088.9 | 2243.5 | 2387.0 | 2508.4 | 2618.8 | 2701.6 | 2765.0 |
| 47.5° | 1239.0 | 1371.5 | 1531.5 | 1688.8 | 1854.3 | 2017.1 | 2177.2 | 2282.1 | 2373.2 | 2439.3 | 2497.4 |
| 50°   | 1023.8 | 1164.5 | 1332.9 | 1512.2 | 1677.7 | 1840.6 | 1978.5 | 2080.7 | 2155.2 | 2213.1 | 2249.0 |
| 52.5° | 855.4  | 1004.4 | 1183.8 | 1363.2 | 1528.8 | 1677.7 | 1802.0 | 1879.2 | 1940.0 | 1981.4 | 2014.4 |
| 55°   | 706.4  | 849.9  | 1018.2 | 1186.6 | 1349.4 | 1490.1 | 1592.2 | 1650.2 | 1697.1 | 1721.9 | 1741.2 |
| 57.5° | 576.8  | 709.2  | 863.8  | 1018.2 | 1159.0 | 1275.0 | 1355.0 | 1412.9 | 1434.9 | 1454.3 | 1451.5 |
| 60°   | 452.6  | 576.8  | 717.5  | 849.9  | 971.3  | 1065.1 | 1123.1 | 1156.2 | 1172.8 | 1181.0 | 1175.5 |
| 62.5° | 356.0  | 469.1  | 576.8  | 692.7  | 781.0  | 861.0  | 916.2  | 916.2  | 924.4  | 927.2  | 935.4  |
| 65°   | 264.9  | 350.4  | 444.3  | 529.9  | 601.5  | 654.0  | 684.3  | 692.7  | 703.7  | 700.9  | 695.4  |
| 67.5° | 196.0  | 259.4  | 328.4  | 391.8  | 441.6  | 474.6  | 496.7  | 516.0  | 513.3  | 507.7  | 505.0  |
| 70°   | 135.2  | 176.6  | 237.4  | 276.0  | 311.8  | 344.9  | 350.4  | 353.2  | 356.0  | 358.8  | 353.2  |
| 72.5° | 93.8   | 124.2  | 157.3  | 190.5  | 212.5  | 226.2  | 240.1  | 242.8  | 242.8  | 242.8  | 240.1  |
| 75°   | 46.9   | 63.4   | 93.8   | 107.7  | 126.9  | 132.5  | 143.4  | 143.4  | 151.8  | 140.7  | 137.9  |
| 77.5° | 41.4   | 49.7   | 66.3   | 77.3   | 85.5   | 93.8   | 96.5   | 104.8  | 102.0  | 96.5   | 99.3   |
| 80°   | 24.9   | 30.4   | 41.4   | 46.9   | 57.9   | 60.8   | 63.4   | 66.3   | 63.4   | 66.3   | 66.3   |
| 82.5° | 19.3   | 22.0   | 27.6   | 27.6   | 35.9   | 35.9   | 38.6   | 38.6   | 41.4   | 41.4   | 41.4   |
| 85°   | 11.0   | 19.3   | 16.5   | 33.1   | 22.0   | 22.0   | 27.6   | 33.1   | 27.6   | 27.6   | 33.1   |
| 87.5° | 11.0   | 11.0   | 8.3    | 11.0   | 11.0   | 11.0   | 13.7   | 16.5   | 16.5   | 19.3   | 16.5   |
| 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: P249285

CATALOG NUMBER: LD8B120D010 ER8B120927 8LBDW0WMH

**CANDELA DISTRIBUTION (continued):**

|       | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 5140.9 | 5140.9 | 5140.9 | 5140.9 |
| 2.5°  | 5149.2 | 5154.8 | 5146.4 | 5143.7 |
| 5°    | 5157.4 | 5157.4 | 5152.0 | 5152.0 |
| 7.5°  | 5157.4 | 5157.4 | 5149.2 | 5143.7 |
| 10°   | 5135.4 | 5135.4 | 5127.2 | 5121.6 |
| 12.5° | 5094.0 | 5094.0 | 5091.2 | 5083.0 |
| 15°   | 5041.6 | 5041.6 | 5030.6 | 5022.3 |
| 17.5° | 4969.8 | 4975.3 | 4961.6 | 4961.6 |
| 20°   | 4892.6 | 4889.8 | 4878.8 | 4873.3 |
| 22.5° | 4812.5 | 4807.0 | 4804.3 | 4787.8 |
| 25°   | 4727.0 | 4721.5 | 4713.2 | 4705.0 |
| 27.5° | 4580.8 | 4578.0 | 4569.8 | 4558.7 |
| 30°   | 4357.2 | 4354.4 | 4343.4 | 4343.4 |
| 32.5° | 4067.4 | 4064.7 | 4053.7 | 4056.5 |
| 35°   | 3766.7 | 3777.8 | 3772.2 | 3761.2 |
| 37.5° | 3515.6 | 3523.8 | 3529.5 | 3523.8 |
| 40°   | 3305.8 | 3330.7 | 3333.5 | 3339.0 |
| 42.5° | 3082.4 | 3115.5 | 3126.5 | 3132.0 |
| 45°   | 2814.6 | 2845.0 | 2869.9 | 2864.4 |
| 47.5° | 2541.5 | 2563.5 | 2585.6 | 2569.0 |
| 50°   | 2279.4 | 2293.1 | 2301.4 | 2301.4 |
| 52.5° | 2031.0 | 2031.0 | 2028.3 | 2031.0 |
| 55°   | 1746.8 | 1746.8 | 1735.8 | 1741.2 |
| 57.5° | 1448.7 | 1454.3 | 1446.0 | 1432.1 |
| 60°   | 1172.8 | 1159.0 | 1153.5 | 1145.2 |
| 62.5° | 913.4  | 913.4  | 894.2  | 918.9  |
| 65°   | 684.3  | 676.1  | 667.8  | 665.0  |
| 67.5° | 496.7  | 494.0  | 485.7  | 482.8  |
| 70°   | 350.4  | 339.4  | 336.7  | 331.1  |
| 72.5° | 234.6  | 234.6  | 229.0  | 229.0  |
| 75°   | 143.4  | 129.7  | 126.9  | 129.7  |
| 77.5° | 99.3   | 96.5   | 96.5   | 93.8   |
| 80°   | 66.3   | 63.4   | 69.0   | 60.8   |
| 82.5° | 41.4   | 44.2   | 41.4   | 44.2   |
| 85°   | 27.6   | 33.1   | 30.4   | 30.4   |
| 87.5° | 16.5   | 16.5   | 16.5   | 16.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)