

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: P249294

Luminaire Tested: **LD8B120D010 ER8B1209730 8LBDW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249294  
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 ER8B1209730 8LBDW0WMH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 3000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9163.0 lumens  
Efficiency: N/A  
Efficacy: 77.5 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

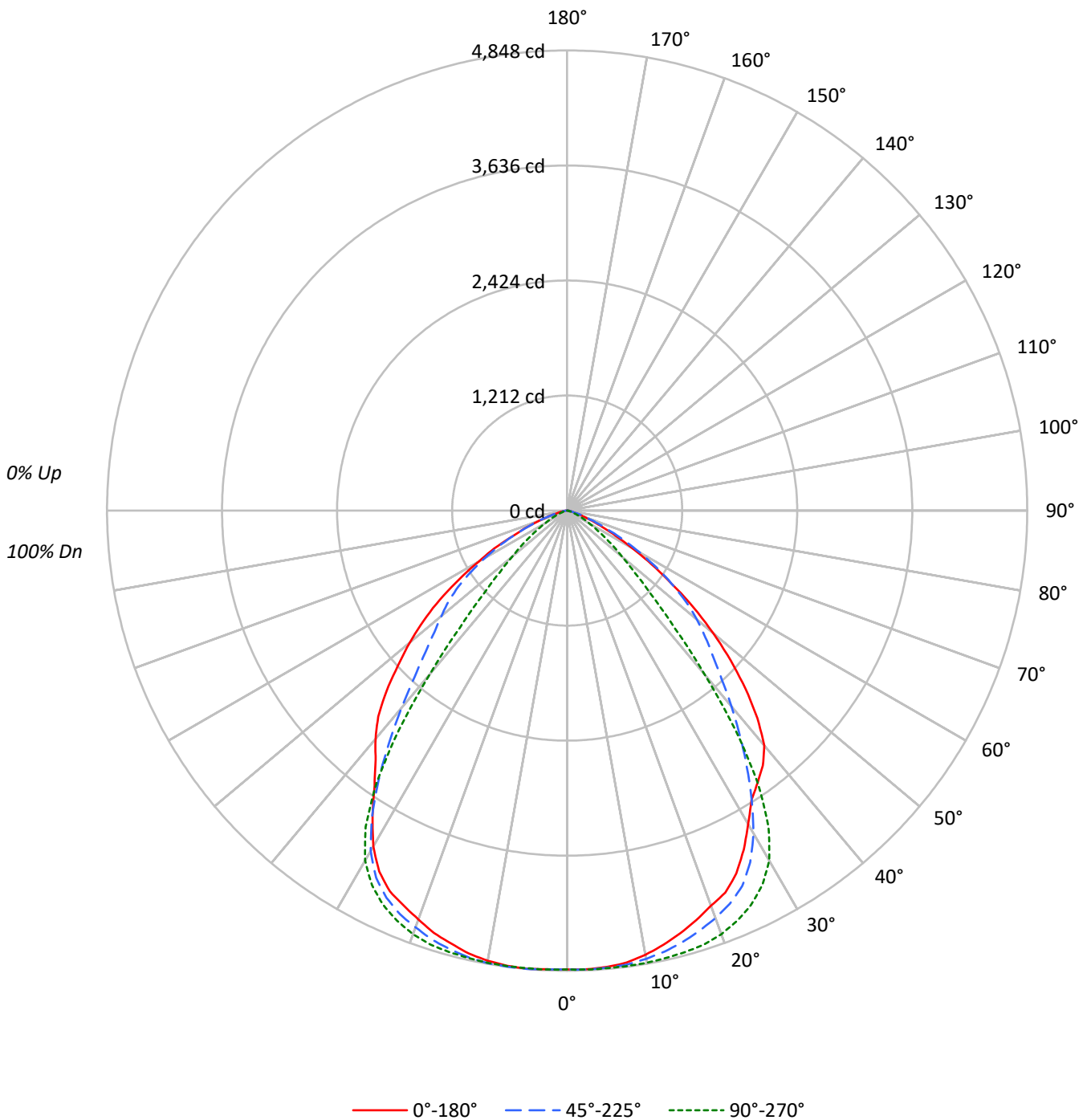
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°    | 461.4  | 5.0       |
| 10°-20°   | 1339.9 | 14.6      |
| 20°-30°   | 2033.8 | 22.2      |
| 30°-40°   | 2136.1 | 23.3      |
| 40°-50°   | 1601.5 | 17.5      |
| 50°-60°   | 1027.6 | 11.2      |
| 60°-70°   | 439.6  | 4.8       |
| 70°-80°   | 103.9  | 1.1       |
| 80°-90°   | 19.3   | 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°    | 3835.1 | 41.9      |
| 0°-40°    | 5971.2 | 65.2      |
| 0°-60°    | 8600.3 | 93.9      |
| 0°-90°    | 9163.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 9163.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 4835 | 4835 | 4835 | 4835 | 4835 |      |
| 5°  | 4827 | 4835 | 4840 | 4848 | 4845 | 458  |
| 15° | 4609 | 4705 | 4814 | 4783 | 4723 | 1300 |
| 25° | 4217 | 4365 | 4586 | 4502 | 4425 | 1926 |
| 35° | 3498 | 3304 | 3501 | 3459 | 3537 | 2196 |
| 45° | 2657 | 2172 | 1248 | 2110 | 2694 | 2035 |
| 55° | 1344 | 1344 | 464  | 1401 | 1638 | 1219 |
| 65° | 405  | 478  | 148  | 615  | 625  | 432  |
| 75° | 62   | 73   | 21   | 125  | 122  | 91   |
| 85° | 21   | 13   | 10   | 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°    | 4834.6 | 4834.6 | 4834.6 | 4834.6 | 4834.6 | 4834.6 | 4834.6 | 4834.6 | 4834.6 | 4834.6 | 4834.6 |
| 2.5°  | 4837.2 | 4842.4 | 4839.8 | 4839.8 | 4837.2 | 4839.8 | 4839.8 | 4845.0 | 4845.0 | 4839.8 | 4837.2 |
| 5°    | 4826.8 | 4832.0 | 4832.0 | 4826.8 | 4826.8 | 4839.8 | 4832.0 | 4837.2 | 4837.2 | 4834.6 | 4834.6 |
| 7.5°  | 4803.5 | 4803.5 | 4813.8 | 4806.1 | 4806.1 | 4813.8 | 4811.2 | 4816.4 | 4821.6 | 4824.2 | 4824.2 |
| 10°   | 4751.5 | 4756.7 | 4759.3 | 4759.3 | 4761.9 | 4769.7 | 4774.9 | 4785.3 | 4790.4 | 4795.7 | 4798.3 |
| 12.5° | 4686.7 | 4694.4 | 4697.0 | 4694.4 | 4702.3 | 4712.6 | 4725.6 | 4738.6 | 4746.4 | 4756.7 | 4764.5 |
| 15°   | 4608.8 | 4608.8 | 4614.0 | 4621.8 | 4627.0 | 4642.6 | 4655.5 | 4671.1 | 4691.8 | 4704.9 | 4717.8 |
| 17.5° | 4523.2 | 4528.4 | 4536.1 | 4536.1 | 4546.6 | 4572.5 | 4580.3 | 4603.6 | 4627.0 | 4640.0 | 4665.9 |
| 20°   | 4429.8 | 4434.9 | 4442.7 | 4447.9 | 4460.9 | 4481.7 | 4497.2 | 4518.0 | 4544.0 | 4567.3 | 4593.2 |
| 22.5° | 4357.1 | 4346.7 | 4351.9 | 4357.1 | 4370.1 | 4388.3 | 4406.4 | 4432.3 | 4458.3 | 4481.7 | 4507.6 |
| 25°   | 4216.9 | 4219.5 | 4227.4 | 4232.5 | 4248.1 | 4263.7 | 4284.4 | 4315.6 | 4338.9 | 4364.9 | 4393.4 |
| 27.5° | 4027.5 | 4030.1 | 4043.1 | 4043.1 | 4056.0 | 4082.0 | 4095.0 | 4120.9 | 4152.1 | 4178.0 | 4211.8 |
| 30°   | 3812.2 | 3817.3 | 3817.3 | 3827.7 | 3835.5 | 3848.5 | 3861.4 | 3887.4 | 3903.0 | 3926.3 | 3973.1 |
| 32.5° | 3614.9 | 3620.1 | 3617.5 | 3614.9 | 3607.1 | 3604.5 | 3601.9 | 3607.1 | 3612.3 | 3620.1 | 3638.2 |
| 35°   | 3498.2 | 3485.1 | 3474.8 | 3456.6 | 3435.9 | 3409.9 | 3386.5 | 3355.4 | 3326.8 | 3303.5 | 3277.6 |
| 37.5° | 3386.5 | 3383.9 | 3368.4 | 3342.4 | 3300.9 | 3254.2 | 3199.7 | 3132.2 | 3064.7 | 2992.1 | 2922.1 |
| 40°   | 3230.8 | 3223.0 | 3210.1 | 3173.8 | 3127.0 | 3069.9 | 2997.3 | 2914.2 | 2805.2 | 2693.7 | 2579.5 |
| 42.5° | 2966.1 | 2968.7 | 2953.2 | 2924.6 | 2880.5 | 2826.0 | 2750.7 | 2659.9 | 2543.2 | 2410.8 | 2262.9 |
| 45°   | 2657.3 | 2657.3 | 2652.1 | 2628.8 | 2597.7 | 2553.5 | 2496.4 | 2421.2 | 2307.0 | 2172.0 | 2013.7 |
| 47.5° | 2335.5 | 2338.1 | 2330.3 | 2325.2 | 2312.2 | 2283.7 | 2242.1 | 2185.0 | 2104.6 | 1974.8 | 1816.5 |
| 50°   | 2008.6 | 2008.6 | 2021.5 | 2018.9 | 2018.9 | 2008.6 | 1990.4 | 1956.7 | 1886.6 | 1782.8 | 1634.9 |
| 52.5° | 1681.6 | 1686.8 | 1694.6 | 1705.0 | 1717.9 | 1738.7 | 1717.9 | 1702.3 | 1658.2 | 1577.8 | 1450.6 |
| 55°   | 1344.2 | 1349.4 | 1362.4 | 1380.5 | 1396.2 | 1416.9 | 1422.1 | 1422.1 | 1398.7 | 1344.2 | 1248.2 |
| 57.5° | 1056.2 | 1048.4 | 1058.8 | 1074.4 | 1095.1 | 1115.9 | 1131.4 | 1149.6 | 1147.0 | 1110.7 | 1032.8 |
| 60°   | 794.1  | 796.7  | 804.4  | 820.1  | 835.6  | 853.8  | 874.5  | 890.1  | 897.9  | 879.7  | 830.4  |
| 62.5° | 578.7  | 578.7  | 589.1  | 604.6  | 612.4  | 638.4  | 651.4  | 659.2  | 666.9  | 664.3  | 633.2  |
| 65°   | 404.9  | 410.0  | 415.2  | 423.0  | 430.8  | 446.3  | 454.1  | 469.7  | 474.9  | 477.5  | 454.1  |
| 67.5° | 285.5  | 277.7  | 282.9  | 288.0  | 295.8  | 306.2  | 321.8  | 321.8  | 329.5  | 329.5  | 314.0  |
| 70°   | 181.7  | 181.7  | 184.3  | 192.0  | 197.2  | 199.8  | 205.0  | 210.2  | 218.0  | 215.4  | 215.4  |
| 72.5° | 122.0  | 119.4  | 122.0  | 124.6  | 127.2  | 134.9  | 134.9  | 137.5  | 142.7  | 145.3  | 134.9  |
| 75°   | 62.3   | 64.9   | 70.0   | 67.5   | 75.2   | 70.0   | 72.6   | 80.5   | 77.8   | 72.6   | 72.6   |
| 77.5° | 51.9   | 51.9   | 51.9   | 49.3   | 54.5   | 54.5   | 51.9   | 57.1   | 54.5   | 54.5   | 51.9   |
| 80°   | 36.3   | 38.9   | 36.3   | 33.7   | 36.3   | 33.7   | 33.7   | 33.7   | 33.7   | 33.7   | 31.1   |
| 82.5° | 28.6   | 23.4   | 26.0   | 23.4   | 26.0   | 26.0   | 23.4   | 20.8   | 20.8   | 23.4   | 20.8   |
| 85°   | 20.8   | 15.6   | 18.2   | 18.2   | 15.6   | 15.6   | 15.6   | 15.6   | 15.6   | 13.0   | 13.0   |
| 87.5° | 13.0   | 7.8    | 7.8    | 7.8    | 10.4   | 10.4   | 10.4   | 7.8    | 10.4   | 10.4   | 5.2    |
| 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°    | 4834.6 | 4834.6 | 4834.6 | 4834.6 | 4834.6 | 4834.6 | 4834.6 | 4834.6 | 4834.6 | 4834.6 | 4834.6 |
| 2.5°  | 4842.4 | 4839.8 | 4845.0 | 4842.4 | 4842.4 | 4839.8 | 4842.4 | 4839.8 | 4845.0 | 4834.6 | 4837.2 |
| 5°    | 4842.4 | 4837.2 | 4839.8 | 4842.4 | 4845.0 | 4839.8 | 4839.8 | 4839.8 | 4845.0 | 4839.8 | 4842.4 |
| 7.5°  | 4832.0 | 4829.4 | 4837.2 | 4842.4 | 4839.8 | 4837.2 | 4842.4 | 4839.8 | 4845.0 | 4842.4 | 4847.5 |
| 10°   | 4811.2 | 4813.8 | 4819.0 | 4826.8 | 4829.4 | 4832.0 | 4837.2 | 4837.2 | 4845.0 | 4834.6 | 4839.8 |
| 12.5° | 4780.1 | 4790.4 | 4803.5 | 4808.6 | 4819.0 | 4819.0 | 4824.2 | 4826.8 | 4832.0 | 4829.4 | 4837.2 |
| 15°   | 4741.2 | 4754.1 | 4769.7 | 4782.7 | 4795.7 | 4803.5 | 4811.2 | 4813.8 | 4821.6 | 4813.8 | 4816.4 |
| 17.5° | 4694.4 | 4710.0 | 4733.4 | 4748.9 | 4769.7 | 4777.5 | 4787.8 | 4793.1 | 4800.9 | 4795.7 | 4798.3 |
| 20°   | 4629.5 | 4647.8 | 4673.7 | 4697.0 | 4710.0 | 4728.2 | 4741.2 | 4748.9 | 4754.1 | 4748.9 | 4751.5 |
| 22.5° | 4538.7 | 4564.7 | 4598.4 | 4616.6 | 4642.6 | 4658.1 | 4660.7 | 4678.9 | 4691.8 | 4678.9 | 4684.1 |
| 25°   | 4432.3 | 4458.3 | 4484.3 | 4523.2 | 4546.6 | 4564.7 | 4582.9 | 4585.5 | 4598.4 | 4595.8 | 4593.2 |
| 27.5° | 4255.9 | 4289.6 | 4333.7 | 4364.9 | 4396.0 | 4424.6 | 4445.3 | 4450.5 | 4463.5 | 4458.3 | 4460.9 |
| 30°   | 4014.5 | 4050.9 | 4092.4 | 4141.7 | 4185.8 | 4214.3 | 4240.3 | 4258.5 | 4271.4 | 4263.7 | 4261.1 |
| 32.5° | 3672.0 | 3708.3 | 3752.5 | 3801.7 | 3853.7 | 3895.1 | 3926.3 | 3949.7 | 3965.2 | 3960.0 | 3947.1 |
| 35°   | 3280.2 | 3290.5 | 3319.1 | 3358.0 | 3402.1 | 3446.2 | 3474.8 | 3500.7 | 3518.9 | 3524.1 | 3524.1 |
| 37.5° | 2877.9 | 2844.2 | 2823.4 | 2823.4 | 2849.4 | 2867.5 | 2893.5 | 2909.0 | 2937.6 | 2948.0 | 2955.8 |
| 40°   | 2488.6 | 2410.8 | 2338.1 | 2283.7 | 2247.3 | 2244.7 | 2244.7 | 2252.5 | 2278.5 | 2312.2 | 2343.3 |
| 42.5° | 2140.9 | 2016.3 | 1904.8 | 1803.6 | 1730.9 | 1689.4 | 1671.2 | 1673.8 | 1694.6 | 1725.7 | 1777.6 |
| 45°   | 1863.2 | 1707.6 | 1567.4 | 1445.4 | 1346.8 | 1281.9 | 1250.8 | 1248.2 | 1263.8 | 1300.1 | 1357.2 |
| 47.5° | 1647.9 | 1481.8 | 1323.5 | 1183.3 | 1077.0 | 1006.9 | 970.5  | 960.2  | 970.5  | 1004.3 | 1071.8 |
| 50°   | 1468.8 | 1297.6 | 1134.1 | 988.7  | 874.5  | 801.9  | 768.1  | 755.2  | 768.1  | 796.7  | 864.1  |
| 52.5° | 1302.7 | 1126.2 | 973.2  | 833.0  | 711.0  | 648.7  | 612.4  | 604.6  | 612.4  | 646.1  | 700.7  |
| 55°   | 1110.7 | 960.2  | 809.6  | 669.5  | 563.2  | 500.9  | 472.3  | 464.5  | 472.3  | 503.5  | 560.5  |
| 57.5° | 921.3  | 791.5  | 659.2  | 532.0  | 441.2  | 386.6  | 360.7  | 350.3  | 368.5  | 389.2  | 456.7  |
| 60°   | 744.8  | 641.0  | 529.4  | 417.8  | 342.6  | 293.2  | 272.5  | 269.9  | 275.1  | 301.0  | 347.7  |
| 62.5° | 583.9  | 498.3  | 410.0  | 319.2  | 256.9  | 236.1  | 210.2  | 207.6  | 212.8  | 228.3  | 264.7  |
| 65°   | 420.4  | 365.9  | 298.4  | 233.5  | 184.3  | 155.7  | 145.3  | 147.9  | 153.1  | 163.5  | 197.2  |
| 67.5° | 293.2  | 254.3  | 207.6  | 163.5  | 127.2  | 114.2  | 103.8  | 101.2  | 103.8  | 122.0  | 140.1  |
| 70°   | 197.2  | 173.9  | 140.1  | 124.6  | 88.3   | 70.0   | 72.6   | 64.9   | 75.2   | 75.2   | 90.8   |
| 72.5° | 129.7  | 114.2  | 93.4   | 72.6   | 62.3   | 49.3   | 49.3   | 46.7   | 51.9   | 54.5   | 67.5   |
| 75°   | 67.5   | 51.9   | 51.9   | 36.3   | 26.0   | 13.0   | 23.4   | 20.8   | 18.2   | 20.8   | 26.0   |
| 77.5° | 46.7   | 38.9   | 36.3   | 28.6   | 26.0   | 20.8   | 20.8   | 20.8   | 20.8   | 23.4   | 26.0   |
| 80°   | 28.6   | 28.6   | 20.8   | 18.2   | 15.6   | 13.0   | 15.6   | 15.6   | 15.6   | 15.6   | 18.2   |
| 82.5° | 18.2   | 15.6   | 15.6   | 13.0   | 13.0   | 10.4   | 10.4   | 10.4   | 10.4   | 10.4   | 15.6   |
| 85°   | 15.6   | 10.4   | 10.4   | 7.8    | 10.4   | 18.2   | 7.8    | 10.4   | 10.4   | 10.4   | 7.8    |
| 87.5° | 5.2    | 7.8    | 7.8    | 7.8    | 5.2    | 2.6    | 5.2    | 7.8    | 7.8    | 13.0   | 10.4   |
| 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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CATALOG NUMBER: LD8B120D010 ER8B1209730 8LBDW0WMH

**CANDELA DISTRIBUTION (continued):**

|       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4834.6 | 4834.6 | 4834.6 | 4834.6 | 4834.6 | 4834.6 | 4834.6 | 4834.6 | 4834.6 | 4834.6 | 4834.6 |
| 2.5°  | 4842.4 | 4845.0 | 4845.0 | 4842.4 | 4842.4 | 4837.2 | 4847.5 | 4839.8 | 4842.4 | 4852.7 | 4845.0 |
| 5°    | 4847.5 | 4850.1 | 4850.1 | 4847.5 | 4847.5 | 4847.5 | 4850.1 | 4850.1 | 4847.5 | 4845.0 | 4850.1 |
| 7.5°  | 4857.9 | 4855.3 | 4855.3 | 4850.1 | 4850.1 | 4845.0 | 4850.1 | 4842.4 | 4847.5 | 4842.4 | 4850.1 |
| 10°   | 4845.0 | 4847.5 | 4845.0 | 4842.4 | 4842.4 | 4839.8 | 4839.8 | 4832.0 | 4834.6 | 4826.8 | 4832.0 |
| 12.5° | 4837.2 | 4834.6 | 4834.6 | 4829.4 | 4824.2 | 4819.0 | 4816.4 | 4808.6 | 4808.6 | 4790.4 | 4798.3 |
| 15°   | 4816.4 | 4819.0 | 4811.2 | 4800.9 | 4795.7 | 4782.7 | 4777.5 | 4767.1 | 4756.7 | 4743.8 | 4746.4 |
| 17.5° | 4798.3 | 4790.4 | 4780.1 | 4769.7 | 4748.9 | 4738.6 | 4728.2 | 4712.6 | 4707.4 | 4691.8 | 4686.7 |
| 20°   | 4743.8 | 4738.6 | 4725.6 | 4707.4 | 4694.4 | 4671.1 | 4660.7 | 4645.2 | 4632.2 | 4616.6 | 4608.8 |
| 22.5° | 4673.7 | 4668.5 | 4652.9 | 4634.8 | 4614.0 | 4603.6 | 4593.2 | 4564.7 | 4551.7 | 4536.1 | 4533.5 |
| 25°   | 4585.5 | 4577.7 | 4562.1 | 4541.4 | 4530.9 | 4502.4 | 4492.0 | 4471.3 | 4466.1 | 4450.5 | 4447.9 |
| 27.5° | 4450.5 | 4440.1 | 4422.0 | 4396.0 | 4377.8 | 4359.7 | 4349.3 | 4333.7 | 4328.6 | 4313.0 | 4310.4 |
| 30°   | 4248.1 | 4235.1 | 4198.8 | 4188.4 | 4157.3 | 4139.1 | 4139.1 | 4118.3 | 4120.9 | 4110.6 | 4110.6 |
| 32.5° | 3928.9 | 3908.2 | 3879.6 | 3858.8 | 3838.1 | 3827.7 | 3827.7 | 3819.9 | 3825.1 | 3825.1 | 3830.3 |
| 35°   | 3505.9 | 3477.4 | 3461.8 | 3448.8 | 3448.8 | 3459.2 | 3490.4 | 3498.2 | 3513.7 | 3526.7 | 3537.1 |
| 37.5° | 2963.5 | 2961.0 | 2979.1 | 2994.7 | 3033.6 | 3077.8 | 3132.2 | 3179.0 | 3223.0 | 3254.2 | 3285.3 |
| 40°   | 2377.1 | 2442.0 | 2493.8 | 2566.5 | 2626.2 | 2711.8 | 2810.4 | 2890.9 | 2966.1 | 3020.7 | 3077.8 |
| 42.5° | 1855.4 | 1938.5 | 2047.5 | 2153.9 | 2260.3 | 2377.1 | 2506.9 | 2618.4 | 2717.0 | 2792.3 | 2852.0 |
| 45°   | 1445.4 | 1559.6 | 1692.0 | 1826.9 | 1964.5 | 2109.8 | 2244.7 | 2358.9 | 2462.7 | 2540.6 | 2600.3 |
| 47.5° | 1165.2 | 1289.7 | 1440.2 | 1588.2 | 1743.9 | 1897.0 | 2047.5 | 2146.1 | 2231.7 | 2294.0 | 2348.6 |
| 50°   | 962.7  | 1095.1 | 1253.4 | 1422.1 | 1577.8 | 1730.9 | 1860.6 | 1956.7 | 2026.8 | 2081.2 | 2115.0 |
| 52.5° | 804.4  | 944.6  | 1113.3 | 1281.9 | 1437.6 | 1577.8 | 1694.6 | 1767.2 | 1824.3 | 1863.2 | 1894.4 |
| 55°   | 664.3  | 799.3  | 957.6  | 1115.9 | 1269.0 | 1401.3 | 1497.3 | 1551.9 | 1595.9 | 1619.3 | 1637.5 |
| 57.5° | 542.4  | 666.9  | 812.3  | 957.6  | 1089.9 | 1198.9 | 1274.2 | 1328.7 | 1349.4 | 1367.6 | 1365.0 |
| 60°   | 425.6  | 542.4  | 674.7  | 799.3  | 913.5  | 1001.7 | 1056.2 | 1087.3 | 1102.9 | 1110.7 | 1105.5 |
| 62.5° | 334.8  | 441.2  | 542.4  | 651.4  | 734.4  | 809.6  | 861.6  | 861.6  | 869.3  | 871.9  | 879.7  |
| 65°   | 249.1  | 329.5  | 417.8  | 498.3  | 565.7  | 615.0  | 643.6  | 651.4  | 661.8  | 659.2  | 654.0  |
| 67.5° | 184.3  | 244.0  | 308.8  | 368.5  | 415.2  | 446.3  | 467.1  | 485.3  | 482.7  | 477.5  | 474.9  |
| 70°   | 127.2  | 166.1  | 223.2  | 259.5  | 293.2  | 324.4  | 329.5  | 332.2  | 334.8  | 337.4  | 332.2  |
| 72.5° | 88.3   | 116.8  | 147.9  | 179.1  | 199.8  | 212.8  | 225.8  | 228.3  | 228.3  | 228.3  | 225.8  |
| 75°   | 44.1   | 59.7   | 88.3   | 101.2  | 119.4  | 124.6  | 134.9  | 134.9  | 142.7  | 132.3  | 129.7  |
| 77.5° | 38.9   | 46.7   | 62.3   | 72.6   | 80.5   | 88.3   | 90.8   | 98.6   | 96.0   | 90.8   | 93.4   |
| 80°   | 23.4   | 28.6   | 38.9   | 44.1   | 54.5   | 57.1   | 59.7   | 62.3   | 59.7   | 62.3   | 62.3   |
| 82.5° | 18.2   | 20.8   | 26.0   | 26.0   | 33.7   | 33.7   | 36.3   | 36.3   | 38.9   | 38.9   | 38.9   |
| 85°   | 10.4   | 18.2   | 15.6   | 31.1   | 20.8   | 20.8   | 26.0   | 31.1   | 26.0   | 26.0   | 31.1   |
| 87.5° | 10.4   | 10.4   | 7.8    | 10.4   | 10.4   | 10.4   | 13.0   | 15.6   | 15.6   | 18.2   | 15.6   |
| 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: P249294

CATALOG NUMBER: LD8B120D010 ER8B1209730 8LBDW0WMH

**CANDELA DISTRIBUTION (continued):**

|       | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 4834.6 | 4834.6 | 4834.6 | 4834.6 |
| 2.5°  | 4842.4 | 4847.5 | 4839.8 | 4837.2 |
| 5°    | 4850.1 | 4850.1 | 4845.0 | 4845.0 |
| 7.5°  | 4850.1 | 4850.1 | 4842.4 | 4837.2 |
| 10°   | 4829.4 | 4829.4 | 4821.6 | 4816.4 |
| 12.5° | 4790.4 | 4790.4 | 4787.8 | 4780.1 |
| 15°   | 4741.2 | 4741.2 | 4730.8 | 4723.0 |
| 17.5° | 4673.7 | 4678.9 | 4665.9 | 4665.9 |
| 20°   | 4601.0 | 4598.4 | 4588.1 | 4582.9 |
| 22.5° | 4525.8 | 4520.6 | 4518.0 | 4502.4 |
| 25°   | 4445.3 | 4440.1 | 4432.3 | 4424.6 |
| 27.5° | 4307.8 | 4305.2 | 4297.4 | 4287.0 |
| 30°   | 4097.6 | 4095.0 | 4084.6 | 4084.6 |
| 32.5° | 3825.1 | 3822.5 | 3812.2 | 3814.8 |
| 35°   | 3542.2 | 3552.6 | 3547.4 | 3537.1 |
| 37.5° | 3306.1 | 3313.9 | 3319.1 | 3313.9 |
| 40°   | 3108.9 | 3132.2 | 3134.8 | 3140.0 |
| 42.5° | 2898.7 | 2929.8 | 2940.2 | 2945.4 |
| 45°   | 2646.9 | 2675.5 | 2698.9 | 2693.7 |
| 47.5° | 2390.0 | 2410.8 | 2431.5 | 2416.0 |
| 50°   | 2143.5 | 2156.5 | 2164.3 | 2164.3 |
| 52.5° | 1910.0 | 1910.0 | 1907.4 | 1910.0 |
| 55°   | 1642.7 | 1642.7 | 1632.3 | 1637.5 |
| 57.5° | 1362.4 | 1367.6 | 1359.8 | 1346.8 |
| 60°   | 1102.9 | 1089.9 | 1084.7 | 1077.0 |
| 62.5° | 859.0  | 859.0  | 840.8  | 864.1  |
| 65°   | 643.6  | 635.8  | 628.0  | 625.4  |
| 67.5° | 467.1  | 464.5  | 456.7  | 454.1  |
| 70°   | 329.5  | 319.2  | 316.6  | 311.4  |
| 72.5° | 220.6  | 220.6  | 215.4  | 215.4  |
| 75°   | 134.9  | 122.0  | 119.4  | 122.0  |
| 77.5° | 93.4   | 90.8   | 90.8   | 88.3   |
| 80°   | 62.3   | 59.7   | 64.9   | 57.1   |
| 82.5° | 38.9   | 41.5   | 38.9   | 41.5   |
| 85°   | 26.0   | 31.1   | 28.6   | 28.6   |
| 87.5° | 15.6   | 15.6   | 15.6   | 15.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)