

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: P248429

Luminaire Tested: **LSR8B100D010 EC8B100930 8LBDW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248429  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B100D010 EC8B100930 8LBDWOLI  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9438.8 lumens  
Efficiency: N/A  
Efficacy: 88.8 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

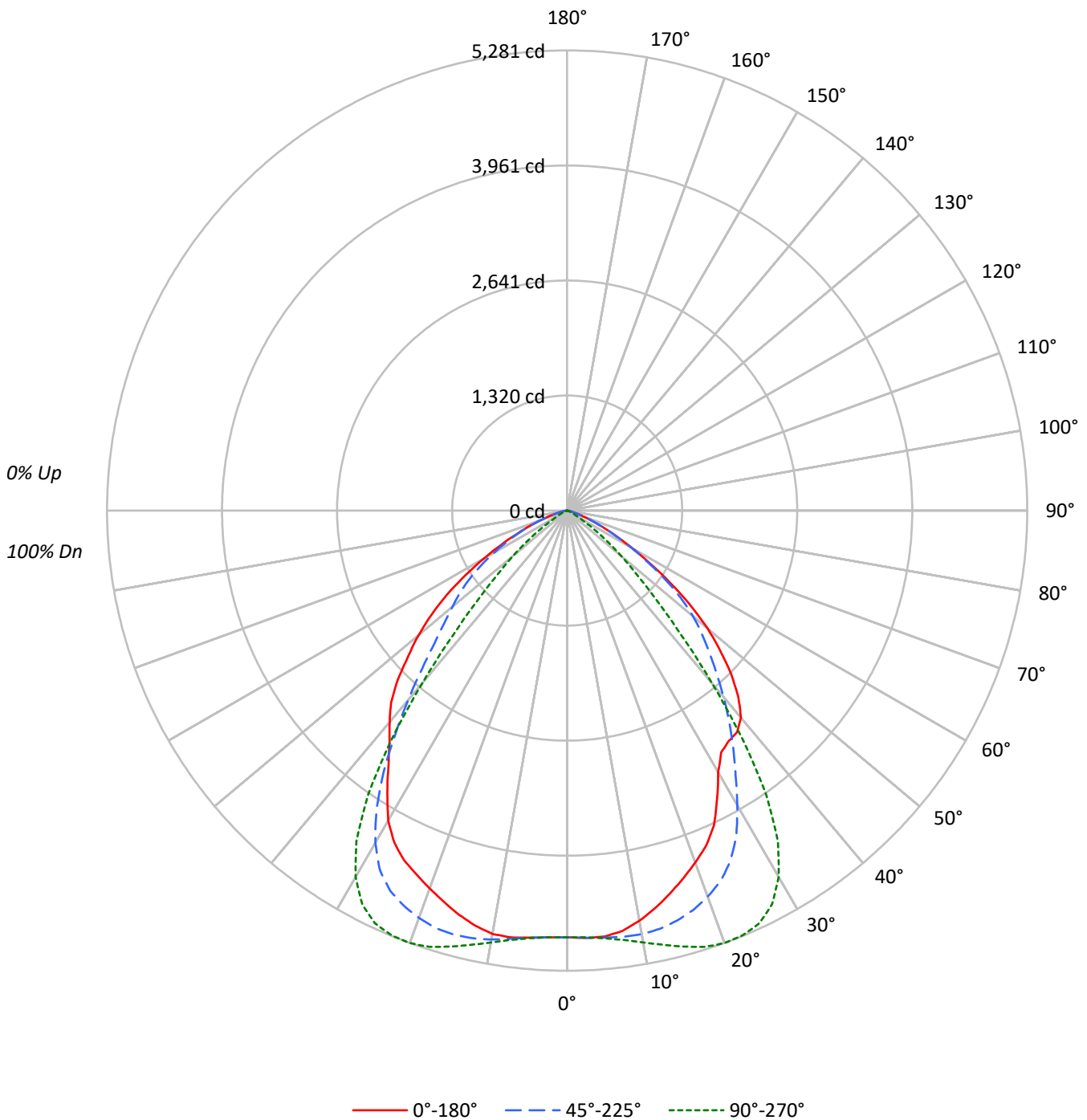
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 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 | 100 | 100 |  |  |  |
| 1   | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99  | 97  | 98  | 96  | 94  | 94  | 93  | 92  | 90  | 90  | 90  | 90  |  |  |  |
| 2   | 104 | 98  | 92  | 88  | 102 | 96  | 91  | 87  | 92  | 88  | 85  | 89  | 86  | 83  | 86  | 84  | 81  | 79  | 79  | 79  | 79  |  |  |  |
| 3   | 97  | 88  | 82  | 76  | 94  | 87  | 81  | 76  | 84  | 79  | 74  | 81  | 77  | 73  | 79  | 75  | 72  | 70  | 70  | 70  | 70  |  |  |  |
| 4   | 90  | 80  | 73  | 67  | 88  | 79  | 72  | 67  | 76  | 70  | 66  | 74  | 69  | 65  | 72  | 68  | 64  | 62  | 62  | 62  | 62  |  |  |  |
| 5   | 84  | 73  | 65  | 60  | 82  | 72  | 65  | 59  | 70  | 63  | 59  | 68  | 62  | 58  | 66  | 61  | 58  | 56  | 56  | 56  | 56  |  |  |  |
| 6   | 78  | 66  | 59  | 53  | 76  | 66  | 58  | 53  | 64  | 57  | 53  | 62  | 57  | 52  | 61  | 56  | 52  | 50  | 50  | 50  | 50  |  |  |  |
| 7   | 73  | 61  | 53  | 48  | 71  | 60  | 53  | 48  | 59  | 52  | 48  | 57  | 52  | 47  | 56  | 51  | 47  | 45  | 45  | 45  | 45  |  |  |  |
| 8   | 68  | 56  | 49  | 44  | 67  | 56  | 48  | 43  | 54  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 41  | 41  | 41  | 41  |  |  |  |
| 9   | 64  | 52  | 45  | 40  | 63  | 51  | 44  | 40  | 50  | 44  | 39  | 49  | 44  | 39  | 48  | 43  | 39  | 38  | 38  | 38  | 38  |  |  |  |
| 10  | 60  | 48  | 41  | 36  | 59  | 48  | 41  | 36  | 47  | 41  | 36  | 46  | 40  | 36  | 45  | 40  | 36  | 34  | 34  | 34  | 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°    | 470.9  | 5.0       |
| 10°-20°   | 1395.0 | 14.8      |
| 20°-30°   | 2128.2 | 22.5      |
| 30°-40°   | 2220.8 | 23.5      |
| 40°-50°   | 1668.1 | 17.7      |
| 50°-60°   | 1026.3 | 10.9      |
| 60°-70°   | 417.7  | 4.4       |
| 70°-80°   | 98.4   | 1.0       |
| 80°-90°   | 13.6   | 0.1       |
| 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°    | 3994.0 | 42.3      |
| 0°-40°    | 6214.8 | 65.8      |
| 0°-60°    | 8909.2 | 94.4      |
| 0°-90°    | 9438.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 9438.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 4896 | 4896 | 4896 | 4896 | 4896 |      |
| 5°  | 4907 | 4920 | 4925 | 4920 | 4920 | 464  |
| 15° | 4551 | 4871 | 5180 | 5037 | 4800 | 1282 |
| 25° | 3987 | 4434 | 5224 | 4811 | 4429 | 1813 |
| 35° | 3231 | 3322 | 3979 | 3678 | 3574 | 2040 |
| 45° | 2667 | 2308 | 1440 | 2149 | 2750 | 2035 |
| 55° | 1440 | 1367 | 377  | 1367 | 1687 | 1294 |
| 65° | 450  | 455  | 57   | 611  | 647  | 469  |
| 75° | 78   | 78   | 10   | 138  | 143  | 94   |
| 85° | 8    | 8    | 3    | 18   | 23   | 11   |
| 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°    | 4896.5 | 4896.5 | 4896.5 | 4896.5 | 4896.5 | 4896.5 | 4896.5 | 4896.5 | 4896.5 | 4896.5 | 4896.5 |
| 2.5°  | 4909.5 | 4901.8 | 4909.5 | 4909.5 | 4912.2 | 4907.0 | 4909.5 | 4912.2 | 4907.0 | 4907.0 | 4907.0 |
| 5°    | 4907.0 | 4901.8 | 4907.0 | 4904.4 | 4909.5 | 4909.5 | 4914.8 | 4914.8 | 4920.0 | 4920.0 | 4927.8 |
| 7.5°  | 4865.4 | 4855.1 | 4865.4 | 4873.2 | 4878.4 | 4888.8 | 4901.8 | 4912.2 | 4922.5 | 4933.0 | 4946.0 |
| 10°   | 4779.6 | 4779.6 | 4787.5 | 4802.9 | 4818.5 | 4836.8 | 4860.1 | 4886.2 | 4912.2 | 4935.5 | 4959.0 |
| 12.5° | 4673.1 | 4665.3 | 4680.8 | 4701.6 | 4725.0 | 4753.6 | 4790.0 | 4829.0 | 4870.6 | 4917.3 | 4953.8 |
| 15°   | 4550.9 | 4543.1 | 4561.2 | 4582.1 | 4610.7 | 4652.3 | 4696.4 | 4748.4 | 4808.2 | 4870.6 | 4930.4 |
| 17.5° | 4426.2 | 4423.5 | 4441.7 | 4470.3 | 4493.8 | 4537.8 | 4595.1 | 4657.4 | 4725.0 | 4808.2 | 4886.2 |
| 20°   | 4298.8 | 4296.2 | 4314.4 | 4337.8 | 4369.0 | 4410.6 | 4467.7 | 4540.5 | 4621.0 | 4714.7 | 4805.6 |
| 22.5° | 4166.2 | 4168.8 | 4184.4 | 4210.4 | 4236.4 | 4280.5 | 4340.3 | 4413.2 | 4501.5 | 4602.8 | 4704.2 |
| 25°   | 3986.8 | 3973.9 | 3994.7 | 4020.7 | 4064.9 | 4101.2 | 4158.5 | 4236.4 | 4327.4 | 4433.9 | 4553.5 |
| 27.5° | 3727.0 | 3724.4 | 3742.6 | 3766.0 | 3804.9 | 3849.2 | 3911.5 | 3992.1 | 4088.3 | 4205.2 | 4322.1 |
| 30°   | 3467.0 | 3472.3 | 3480.1 | 3503.5 | 3529.5 | 3573.6 | 3636.1 | 3703.7 | 3794.6 | 3906.3 | 4031.1 |
| 32.5° | 3290.4 | 3290.4 | 3300.8 | 3316.4 | 3334.5 | 3358.0 | 3402.1 | 3451.4 | 3521.7 | 3599.6 | 3690.6 |
| 35°   | 3230.6 | 3220.2 | 3230.6 | 3233.2 | 3235.8 | 3241.0 | 3248.8 | 3264.4 | 3287.8 | 3321.5 | 3355.4 |
| 37.5° | 3204.6 | 3196.8 | 3196.8 | 3186.4 | 3173.4 | 3157.9 | 3137.0 | 3113.6 | 3087.7 | 3053.8 | 3027.9 |
| 40°   | 3103.3 | 3098.0 | 3092.8 | 3082.4 | 3053.8 | 3022.7 | 2988.8 | 2934.3 | 2874.5 | 2791.3 | 2708.2 |
| 42.5° | 2908.3 | 2903.2 | 2900.5 | 2879.7 | 2853.7 | 2817.3 | 2778.4 | 2721.2 | 2645.8 | 2539.3 | 2419.7 |
| 45°   | 2666.6 | 2656.2 | 2648.5 | 2630.2 | 2612.0 | 2580.9 | 2544.4 | 2492.4 | 2417.1 | 2307.9 | 2165.0 |
| 47.5° | 2385.9 | 2380.7 | 2378.1 | 2370.4 | 2352.2 | 2333.9 | 2310.6 | 2268.9 | 2201.3 | 2097.4 | 1949.3 |
| 50°   | 2102.5 | 2092.2 | 2097.4 | 2094.8 | 2087.0 | 2074.1 | 2058.4 | 2029.8 | 1977.8 | 1884.3 | 1749.1 |
| 52.5° | 1777.7 | 1777.7 | 1775.1 | 1783.0 | 1785.5 | 1783.0 | 1785.5 | 1754.4 | 1710.2 | 1639.9 | 1525.6 |
| 55°   | 1439.8 | 1439.8 | 1447.7 | 1458.1 | 1468.4 | 1471.1 | 1468.4 | 1455.5 | 1424.2 | 1367.1 | 1265.7 |
| 57.5° | 1122.8 | 1117.6 | 1133.2 | 1148.8 | 1159.2 | 1169.5 | 1161.7 | 1151.4 | 1133.2 | 1086.4 | 1008.5 |
| 60°   | 855.1  | 855.1  | 865.4  | 875.8  | 886.3  | 896.7  | 894.1  | 891.4  | 875.8  | 844.7  | 782.3  |
| 62.5° | 629.0  | 631.6  | 631.6  | 639.4  | 649.7  | 660.2  | 667.9  | 660.2  | 652.3  | 631.6  | 590.0  |
| 65°   | 449.6  | 447.1  | 449.6  | 457.5  | 465.2  | 475.6  | 480.8  | 478.2  | 470.4  | 454.8  | 423.6  |
| 67.5° | 301.5  | 298.9  | 309.3  | 311.9  | 317.1  | 327.6  | 324.9  | 327.6  | 324.9  | 311.9  | 286.0  |
| 70°   | 197.5  | 192.4  | 197.5  | 194.9  | 202.8  | 205.4  | 210.5  | 213.1  | 210.5  | 202.8  | 194.9  |
| 72.5° | 122.2  | 119.6  | 122.2  | 124.8  | 127.3  | 129.9  | 135.2  | 135.2  | 132.5  | 127.3  | 116.9  |
| 75°   | 78.0   | 70.2   | 72.8   | 67.6   | 72.8   | 72.8   | 78.0   | 80.6   | 78.0   | 78.0   | 72.8   |
| 77.5° | 46.9   | 46.9   | 46.9   | 46.9   | 46.9   | 46.9   | 46.9   | 49.4   | 51.9   | 46.9   | 44.2   |
| 80°   | 23.4   | 23.4   | 26.0   | 26.0   | 26.0   | 28.6   | 26.0   | 26.0   | 26.0   | 28.6   | 20.9   |
| 82.5° | 18.2   | 15.6   | 15.6   | 15.6   | 18.2   | 15.6   | 15.6   | 15.6   | 15.6   | 15.6   | 15.6   |
| 85°   | 7.8    | 10.3   | 7.8    | 5.3    | 7.8    | 7.8    | 10.3   | 7.8    | 7.8    | 7.8    | 10.3   |
| 87.5° | 2.6    | 2.6    | 0.0    | 0.0    | 0.0    | 2.6    | 0.0    | 2.6    | 2.6    | 5.3    | 0.0    |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4896.5 | 4896.5 | 4896.5 | 4896.5 | 4896.5 | 4896.5 | 4896.5 | 4896.5 | 4896.5 | 4896.5 | 4896.5 |
| 2.5°  | 4909.5 | 4904.4 | 4904.4 | 4901.8 | 4907.0 | 4901.8 | 4904.4 | 4901.8 | 4901.8 | 4907.0 | 4901.8 |
| 5°    | 4927.8 | 4930.4 | 4925.1 | 4922.5 | 4930.4 | 4930.4 | 4930.4 | 4925.1 | 4925.1 | 4927.8 | 4925.1 |
| 7.5°  | 4953.8 | 4959.0 | 4961.5 | 4964.1 | 4969.4 | 4972.0 | 4972.0 | 4969.4 | 4966.7 | 4974.5 | 4964.1 |
| 10°   | 4982.3 | 4990.1 | 5005.7 | 5013.6 | 5026.6 | 5026.6 | 5031.7 | 5031.7 | 5026.6 | 5031.7 | 5029.1 |
| 12.5° | 4972.0 | 5018.7 | 5044.7 | 5062.9 | 5081.0 | 5096.6 | 5101.9 | 5104.5 | 5101.9 | 5112.3 | 5101.9 |
| 15°   | 4990.1 | 5029.1 | 5070.7 | 5101.9 | 5135.6 | 5153.8 | 5159.1 | 5179.8 | 5185.1 | 5187.7 | 5172.1 |
| 17.5° | 4961.5 | 5031.7 | 5075.9 | 5122.6 | 5172.1 | 5205.8 | 5237.0 | 5250.1 | 5252.7 | 5257.8 | 5237.0 |
| 20°   | 4896.5 | 4974.5 | 5042.1 | 5109.7 | 5166.9 | 5218.8 | 5244.8 | 5281.3 | 5270.8 | 5291.7 | 5263.0 |
| 22.5° | 4808.2 | 4896.5 | 4982.3 | 5070.7 | 5130.5 | 5192.9 | 5247.4 | 5273.4 | 5286.4 | 5286.4 | 5255.2 |
| 25°   | 4667.8 | 4771.9 | 4865.4 | 4956.3 | 5047.3 | 5122.6 | 5185.1 | 5224.1 | 5231.8 | 5229.2 | 5192.9 |
| 27.5° | 4449.5 | 4561.2 | 4670.4 | 4774.5 | 4886.2 | 4974.5 | 5047.3 | 5094.0 | 5107.1 | 5107.1 | 5068.2 |
| 30°   | 4148.0 | 4267.5 | 4374.1 | 4498.9 | 4613.3 | 4712.0 | 4813.5 | 4855.1 | 4878.4 | 4878.4 | 4834.2 |
| 32.5° | 3789.3 | 3890.8 | 3989.5 | 4111.6 | 4236.4 | 4348.1 | 4444.3 | 4501.5 | 4530.1 | 4527.5 | 4488.5 |
| 35°   | 3399.5 | 3448.9 | 3524.3 | 3615.2 | 3727.0 | 3830.9 | 3924.5 | 3979.1 | 4028.4 | 4025.8 | 3989.5 |
| 37.5° | 3009.7 | 2996.7 | 3004.5 | 3038.2 | 3108.4 | 3181.2 | 3253.9 | 3305.9 | 3347.5 | 3365.8 | 3358.0 |
| 40°   | 2627.6 | 2560.0 | 2495.0 | 2471.7 | 2476.8 | 2502.9 | 2541.9 | 2580.9 | 2627.6 | 2651.1 | 2661.4 |
| 42.5° | 2284.5 | 2170.1 | 2055.8 | 1970.0 | 1920.6 | 1905.0 | 1923.3 | 1936.2 | 1964.9 | 1998.6 | 2032.5 |
| 45°   | 2009.1 | 1855.7 | 1704.9 | 1572.4 | 1489.2 | 1439.8 | 1429.5 | 1439.8 | 1455.5 | 1489.2 | 1533.4 |
| 47.5° | 1783.0 | 1603.6 | 1434.7 | 1286.5 | 1164.4 | 1099.4 | 1081.2 | 1076.0 | 1091.6 | 1122.8 | 1182.5 |
| 50°   | 1582.7 | 1403.5 | 1216.4 | 1044.8 | 917.4  | 844.7  | 818.7  | 808.2  | 826.5  | 849.8  | 904.4  |
| 52.5° | 1364.5 | 1187.7 | 995.4  | 829.1  | 696.6  | 621.1  | 592.6  | 577.0  | 587.4  | 618.6  | 673.2  |
| 55°   | 1128.0 | 964.2  | 790.1  | 618.6  | 491.2  | 421.0  | 387.2  | 376.9  | 387.2  | 421.0  | 475.6  |
| 57.5° | 891.4  | 753.8  | 608.1  | 447.1  | 332.7  | 262.5  | 228.7  | 218.4  | 247.0  | 260.0  | 317.1  |
| 60°   | 696.6  | 584.8  | 460.1  | 327.6  | 228.7  | 174.1  | 140.3  | 132.5  | 145.6  | 168.9  | 215.7  |
| 62.5° | 522.4  | 452.2  | 353.5  | 234.0  | 168.9  | 111.8  | 93.5   | 85.8   | 93.5   | 111.8  | 148.2  |
| 65°   | 379.5  | 324.9  | 247.0  | 171.5  | 114.3  | 83.2   | 62.4   | 57.2   | 65.0   | 78.0   | 109.2  |
| 67.5° | 260.0  | 218.4  | 171.5  | 119.6  | 78.0   | 51.9   | 44.2   | 44.2   | 46.9   | 57.2   | 80.6   |
| 70°   | 168.9  | 142.9  | 109.2  | 78.0   | 51.9   | 39.0   | 33.7   | 28.6   | 33.7   | 41.6   | 54.6   |
| 72.5° | 106.6  | 90.9   | 70.2   | 54.6   | 39.0   | 28.6   | 23.4   | 20.9   | 26.0   | 31.2   | 41.6   |
| 75°   | 65.0   | 49.4   | 36.3   | 28.6   | 20.9   | 20.9   | 20.9   | 10.3   | 13.0   | 20.9   | 26.0   |
| 77.5° | 39.0   | 33.7   | 28.6   | 23.4   | 18.2   | 10.3   | 10.3   | 10.3   | 13.0   | 15.6   | 23.4   |
| 80°   | 20.9   | 18.2   | 13.0   | 13.0   | 10.3   | 7.8    | 10.3   | 7.8    | 5.3    | 13.0   | 15.6   |
| 82.5° | 13.0   | 10.3   | 10.3   | 10.3   | 13.0   | 5.3    | 7.8    | 5.3    | 7.8    | 10.3   | 7.8    |
| 85°   | 7.8    | 7.8    | 7.8    | 5.3    | 13.0   | 5.3    | 5.3    | 2.6    | 2.6    | 5.3    | 5.3    |
| 87.5° | 0.0    | 2.6    | 2.6    | 0.0    | 2.6    | 0.0    | 2.6    | 2.6    | 2.6    | 2.6    | 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    |



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**CANDELA DISTRIBUTION (continued):**

|       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4896.5 | 4896.5 | 4896.5 | 4896.5 | 4896.5 | 4896.5 | 4896.5 | 4896.5 | 4896.5 | 4896.5 | 4896.5 |
| 2.5°  | 4904.4 | 4901.8 | 4904.4 | 4901.8 | 4901.8 | 4901.8 | 4904.4 | 4904.4 | 4901.8 | 4901.8 | 4907.0 |
| 5°    | 4925.1 | 4925.1 | 4925.1 | 4922.5 | 4920.0 | 4920.0 | 4925.1 | 4925.1 | 4917.3 | 4925.1 | 4925.1 |
| 7.5°  | 4969.4 | 4961.5 | 4969.4 | 4959.0 | 4953.8 | 4956.3 | 4959.0 | 4953.8 | 4948.5 | 4951.1 | 4951.1 |
| 10°   | 5026.6 | 5018.7 | 5018.7 | 5011.0 | 5003.1 | 4997.9 | 4992.7 | 4979.7 | 4966.7 | 4964.1 | 4953.8 |
| 12.5° | 5094.0 | 5081.0 | 5073.3 | 5057.7 | 5044.7 | 5026.6 | 5011.0 | 4990.1 | 4964.1 | 4946.0 | 4927.8 |
| 15°   | 5161.6 | 5140.9 | 5122.6 | 5096.6 | 5068.2 | 5036.9 | 5003.1 | 4969.4 | 4927.8 | 4891.4 | 4860.1 |
| 17.5° | 5216.2 | 5187.7 | 5153.8 | 5112.3 | 5070.7 | 5023.9 | 4974.5 | 4925.1 | 4865.4 | 4818.5 | 4782.2 |
| 20°   | 5234.4 | 5192.9 | 5148.6 | 5094.0 | 5039.5 | 4974.5 | 4912.2 | 4847.2 | 4779.6 | 4730.3 | 4688.6 |
| 22.5° | 5211.1 | 5161.6 | 5107.1 | 5049.9 | 4977.1 | 4907.0 | 4834.2 | 4758.8 | 4699.0 | 4631.4 | 4592.5 |
| 25°   | 5146.1 | 5086.3 | 5026.6 | 4959.0 | 4888.8 | 4810.8 | 4732.9 | 4654.8 | 4582.1 | 4545.7 | 4496.3 |
| 27.5° | 5013.6 | 4948.5 | 4883.5 | 4813.5 | 4732.9 | 4654.8 | 4574.2 | 4498.9 | 4436.6 | 4387.1 | 4358.6 |
| 30°   | 4779.6 | 4704.2 | 4628.8 | 4553.5 | 4483.3 | 4402.7 | 4327.4 | 4265.0 | 4202.6 | 4163.6 | 4135.0 |
| 32.5° | 4420.9 | 4353.4 | 4278.0 | 4205.2 | 4140.3 | 4072.7 | 4010.3 | 3955.7 | 3911.5 | 3885.5 | 3864.8 |
| 35°   | 3937.5 | 3869.9 | 3812.7 | 3760.8 | 3706.1 | 3677.7 | 3638.7 | 3607.4 | 3589.2 | 3578.9 | 3576.2 |
| 37.5° | 3329.4 | 3290.4 | 3272.2 | 3261.8 | 3251.3 | 3243.6 | 3248.8 | 3261.8 | 3272.2 | 3290.4 | 3311.1 |
| 40°   | 2679.6 | 2713.4 | 2723.8 | 2760.1 | 2794.0 | 2838.1 | 2887.6 | 2944.8 | 2991.5 | 3051.2 | 3092.8 |
| 42.5° | 2087.0 | 2149.4 | 2222.2 | 2300.1 | 2383.2 | 2463.8 | 2562.6 | 2653.6 | 2736.8 | 2812.1 | 2877.2 |
| 45°   | 1603.6 | 1699.8 | 1809.0 | 1920.6 | 2032.5 | 2149.4 | 2268.9 | 2380.7 | 2479.4 | 2560.0 | 2627.6 |
| 47.5° | 1250.1 | 1356.7 | 1497.1 | 1634.8 | 1769.9 | 1907.7 | 2040.2 | 2157.1 | 2240.3 | 2318.3 | 2378.1 |
| 50°   | 990.2  | 1112.4 | 1265.7 | 1424.2 | 1572.4 | 1717.9 | 1858.3 | 1967.5 | 2050.6 | 2113.0 | 2157.1 |
| 52.5° | 766.7  | 912.3  | 1068.2 | 1234.6 | 1393.1 | 1551.6 | 1681.5 | 1783.0 | 1850.5 | 1905.0 | 1938.9 |
| 55°   | 571.8  | 714.7  | 881.1  | 1052.6 | 1213.7 | 1367.1 | 1489.2 | 1577.6 | 1637.4 | 1668.6 | 1686.8 |
| 57.5° | 413.2  | 543.2  | 709.5  | 881.1  | 1026.6 | 1172.1 | 1270.9 | 1351.5 | 1385.2 | 1403.5 | 1411.2 |
| 60°   | 301.5  | 421.0  | 569.1  | 717.3  | 855.1  | 972.0  | 1057.8 | 1112.4 | 1138.4 | 1148.8 | 1146.1 |
| 62.5° | 220.9  | 324.9  | 452.2  | 577.0  | 688.7  | 784.9  | 852.5  | 888.8  | 901.8  | 907.0  | 899.3  |
| 65°   | 168.9  | 249.5  | 358.7  | 454.8  | 540.7  | 610.7  | 660.2  | 683.6  | 691.3  | 688.7  | 683.6  |
| 67.5° | 124.8  | 187.2  | 267.7  | 340.4  | 402.9  | 457.5  | 483.5  | 504.2  | 509.4  | 501.6  | 493.8  |
| 70°   | 88.4   | 137.8  | 194.9  | 244.4  | 291.1  | 322.3  | 350.9  | 353.5  | 353.5  | 350.9  | 345.7  |
| 72.5° | 62.4   | 96.2   | 132.5  | 166.4  | 194.9  | 218.4  | 228.7  | 236.5  | 234.0  | 231.3  | 226.1  |
| 75°   | 41.6   | 59.7   | 96.2   | 104.0  | 129.9  | 137.8  | 148.2  | 148.2  | 150.7  | 142.9  | 142.9  |
| 77.5° | 26.0   | 41.6   | 57.2   | 67.6   | 78.0   | 88.4   | 93.5   | 93.5   | 96.2   | 93.5   | 93.5   |
| 80°   | 15.6   | 26.0   | 31.2   | 46.9   | 46.9   | 54.6   | 57.2   | 59.7   | 54.6   | 62.4   | 54.6   |
| 82.5° | 10.3   | 15.6   | 23.4   | 23.4   | 28.6   | 33.7   | 33.7   | 36.3   | 36.3   | 33.7   | 33.7   |
| 85°   | 7.8    | 10.3   | 13.0   | 15.6   | 15.6   | 18.2   | 15.6   | 15.6   | 18.2   | 20.9   | 18.2   |
| 87.5° | 2.6    | 5.3    | 2.6    | 5.3    | 5.3    | 10.3   | 7.8    | 7.8    | 7.8    | 10.3   | 10.3   |
| 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: P248429

CATALOG NUMBER: LSR8B100D010 EC8B100930 8LBDWOLI

**CANDELA DISTRIBUTION (continued):**

|       | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 4896.5 | 4896.5 | 4896.5 | 4896.5 |
| 2.5°  | 4901.8 | 4904.4 | 4901.8 | 4901.8 |
| 5°    | 4925.1 | 4922.5 | 4925.1 | 4920.0 |
| 7.5°  | 4943.4 | 4943.4 | 4940.7 | 4940.7 |
| 10°   | 4943.4 | 4933.0 | 4933.0 | 4933.0 |
| 12.5° | 4904.4 | 4891.4 | 4883.5 | 4878.4 |
| 15°   | 4836.8 | 4813.5 | 4802.9 | 4800.3 |
| 17.5° | 4748.4 | 4727.6 | 4714.7 | 4706.9 |
| 20°   | 4647.0 | 4626.3 | 4610.7 | 4613.3 |
| 22.5° | 4558.7 | 4535.3 | 4524.9 | 4519.6 |
| 25°   | 4470.3 | 4441.7 | 4433.9 | 4428.7 |
| 27.5° | 4327.4 | 4311.8 | 4304.0 | 4296.2 |
| 30°   | 4109.0 | 4101.2 | 4088.3 | 4106.4 |
| 32.5° | 3856.9 | 3843.9 | 3833.6 | 3841.3 |
| 35°   | 3578.9 | 3571.1 | 3578.9 | 3573.6 |
| 37.5° | 3324.2 | 3331.9 | 3342.4 | 3347.5 |
| 40°   | 3124.0 | 3152.6 | 3163.0 | 3168.2 |
| 42.5° | 2923.9 | 2957.6 | 2978.5 | 2991.5 |
| 45°   | 2676.9 | 2710.8 | 2734.1 | 2749.8 |
| 47.5° | 2422.3 | 2451.0 | 2474.3 | 2471.7 |
| 50°   | 2191.0 | 2206.6 | 2216.9 | 2227.3 |
| 52.5° | 1957.0 | 1957.0 | 1959.6 | 1959.6 |
| 55°   | 1691.9 | 1686.8 | 1684.2 | 1686.8 |
| 57.5° | 1400.8 | 1395.6 | 1393.1 | 1385.2 |
| 60°   | 1135.8 | 1120.2 | 1109.8 | 1109.8 |
| 62.5° | 888.8  | 870.7  | 862.9  | 860.3  |
| 65°   | 667.9  | 665.3  | 649.7  | 647.2  |
| 67.5° | 483.5  | 473.1  | 462.6  | 465.2  |
| 70°   | 340.4  | 324.9  | 324.9  | 319.7  |
| 72.5° | 220.9  | 213.1  | 210.5  | 210.5  |
| 75°   | 137.8  | 137.8  | 132.5  | 142.9  |
| 77.5° | 90.9   | 90.9   | 88.4   | 90.9   |
| 80°   | 54.6   | 54.6   | 54.6   | 51.9   |
| 82.5° | 33.7   | 36.3   | 33.7   | 33.7   |
| 85°   | 18.2   | 20.9   | 15.6   | 23.4   |
| 87.5° | 10.3   | 13.0   | 10.3   | 13.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)