

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: P249511

Luminaire Tested: **LD8B150D010 ER8B150930 8LBDW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249511  
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: LD8B150D010 ER8B150930 8LBDW0B  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12032.8 lumens  
Efficiency: N/A  
Efficacy: 75.9 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

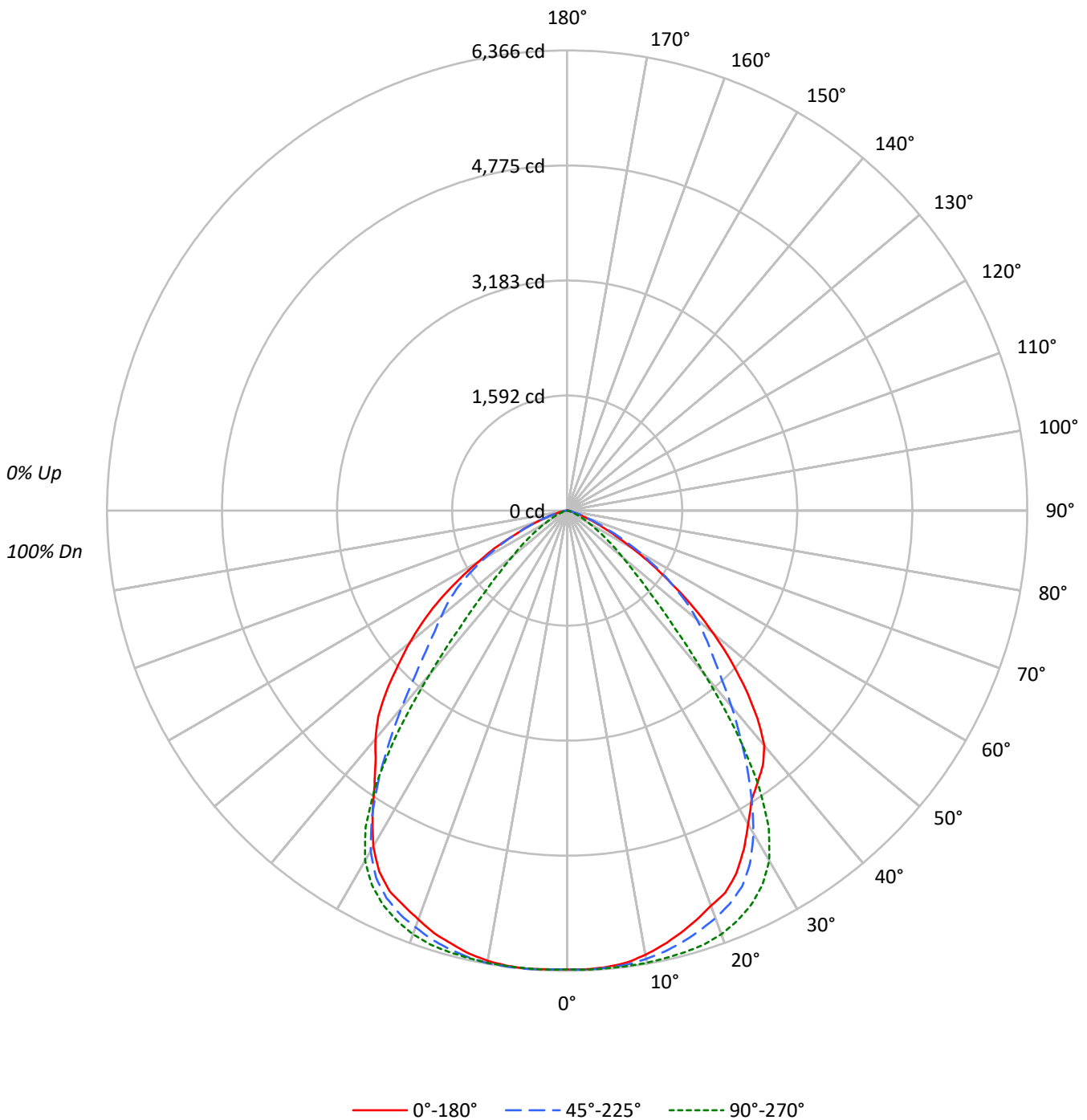
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°    | 605.9   | 5.0       |
| 10°-20°   | 1759.6  | 14.6      |
| 20°-30°   | 2670.8  | 22.2      |
| 30°-40°   | 2805.1  | 23.3      |
| 40°-50°   | 2103.1  | 17.5      |
| 50°-60°   | 1349.4  | 11.2      |
| 60°-70°   | 577.2   | 4.8       |
| 70°-80°   | 136.4   | 1.1       |
| 80°-90°   | 25.4    | 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°    | 5036.3  | 41.9      |
| 0°-40°    | 7841.4  | 65.2      |
| 0°-60°    | 11293.8 | 93.9      |
| 0°-90°    | 12032.8 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 12032.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 6349 | 6349 | 6349 | 6349 | 6349 |      |
| 5°  | 6338 | 6349 | 6356 | 6366 | 6362 | 602  |
| 15° | 6052 | 6178 | 6321 | 6281 | 6202 | 1707 |
| 25° | 5538 | 5732 | 6022 | 5913 | 5810 | 2530 |
| 35° | 4594 | 4338 | 4597 | 4543 | 4645 | 2883 |
| 45° | 3490 | 2852 | 1639 | 2771 | 3537 | 2672 |
| 55° | 1765 | 1765 | 610  | 1840 | 2150 | 1601 |
| 65° | 532  | 627  | 194  | 808  | 821  | 568  |
| 75° | 82   | 95   | 27   | 164  | 160  | 119  |
| 85° | 27   | 17   | 14   | 27   | 38   | 29   |
| 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°    | 6348.8 | 6348.8 | 6348.8 | 6348.8 | 6348.8 | 6348.8 | 6348.8 | 6348.8 | 6348.8 | 6348.8 | 6348.8 |
| 2.5°  | 6352.1 | 6359.0 | 6355.6 | 6355.6 | 6352.1 | 6355.6 | 6355.6 | 6362.5 | 6362.5 | 6355.6 | 6352.1 |
| 5°    | 6338.5 | 6345.3 | 6345.3 | 6338.5 | 6338.5 | 6355.6 | 6345.3 | 6352.1 | 6352.1 | 6348.8 | 6348.8 |
| 7.5°  | 6307.9 | 6307.9 | 6321.4 | 6311.3 | 6311.3 | 6321.4 | 6318.1 | 6324.9 | 6331.7 | 6335.1 | 6335.1 |
| 10°   | 6239.7 | 6246.5 | 6249.9 | 6249.9 | 6253.4 | 6263.6 | 6270.3 | 6284.0 | 6290.8 | 6297.7 | 6301.0 |
| 12.5° | 6154.5 | 6164.7 | 6168.2 | 6164.7 | 6175.0 | 6188.6 | 6205.6 | 6222.7 | 6232.9 | 6246.5 | 6256.7 |
| 15°   | 6052.3 | 6052.3 | 6059.1 | 6069.3 | 6076.2 | 6096.6 | 6113.6 | 6134.0 | 6161.4 | 6178.4 | 6195.4 |
| 17.5° | 5939.8 | 5946.7 | 5956.9 | 5956.9 | 5970.6 | 6004.5 | 6014.8 | 6045.4 | 6076.2 | 6093.2 | 6127.3 |
| 20°   | 5817.2 | 5823.9 | 5834.1 | 5841.0 | 5858.0 | 5885.2 | 5905.8 | 5933.0 | 5967.1 | 5997.8 | 6031.8 |
| 22.5° | 5721.7 | 5708.1 | 5714.9 | 5721.7 | 5738.8 | 5762.6 | 5786.5 | 5820.6 | 5854.6 | 5885.2 | 5919.4 |
| 25°   | 5537.6 | 5541.1 | 5551.3 | 5558.1 | 5578.7 | 5599.1 | 5626.3 | 5667.2 | 5697.8 | 5732.0 | 5769.5 |
| 27.5° | 5289.0 | 5292.4 | 5309.4 | 5309.4 | 5326.4 | 5360.5 | 5377.5 | 5411.6 | 5452.5 | 5486.5 | 5530.9 |
| 30°   | 5006.0 | 5012.9 | 5012.9 | 5026.6 | 5036.7 | 5053.8 | 5070.8 | 5104.9 | 5125.3 | 5156.0 | 5217.4 |
| 32.5° | 4747.1 | 4753.8 | 4750.5 | 4747.1 | 4736.9 | 4733.4 | 4730.1 | 4736.9 | 4743.7 | 4753.8 | 4777.7 |
| 35°   | 4593.7 | 4576.7 | 4563.1 | 4539.3 | 4512.0 | 4477.8 | 4447.2 | 4406.3 | 4368.8 | 4338.2 | 4304.1 |
| 37.5° | 4447.2 | 4443.8 | 4423.4 | 4389.3 | 4334.7 | 4273.4 | 4201.8 | 4113.3 | 4024.6 | 3929.2 | 3837.2 |
| 40°   | 4242.8 | 4232.4 | 4215.4 | 4167.8 | 4106.4 | 4031.5 | 3936.1 | 3827.0 | 3683.8 | 3537.3 | 3387.3 |
| 42.5° | 3895.1 | 3898.5 | 3878.1 | 3840.5 | 3782.7 | 3711.1 | 3612.3 | 3493.0 | 3339.7 | 3165.8 | 2971.7 |
| 45°   | 3489.6 | 3489.6 | 3482.7 | 3452.1 | 3411.2 | 3353.2 | 3278.4 | 3179.5 | 3029.6 | 2852.3 | 2644.4 |
| 47.5° | 3067.1 | 3070.4 | 3060.2 | 3053.4 | 3036.3 | 2998.9 | 2944.3 | 2869.4 | 2763.7 | 2593.3 | 2385.5 |
| 50°   | 2637.7 | 2637.7 | 2654.6 | 2651.3 | 2651.3 | 2637.7 | 2613.8 | 2569.4 | 2477.5 | 2341.2 | 2146.9 |
| 52.5° | 2208.3 | 2215.1 | 2225.3 | 2239.0 | 2255.9 | 2283.3 | 2255.9 | 2235.5 | 2177.5 | 2071.9 | 1905.0 |
| 55°   | 1765.2 | 1772.1 | 1789.1 | 1812.9 | 1833.4 | 1860.7 | 1867.5 | 1867.5 | 1836.8 | 1765.2 | 1639.1 |
| 57.5° | 1387.0 | 1376.7 | 1390.4 | 1410.9 | 1438.1 | 1465.4 | 1485.8 | 1509.7 | 1506.3 | 1458.5 | 1356.3 |
| 60°   | 1042.8 | 1046.2 | 1056.4 | 1076.9 | 1097.3 | 1121.2 | 1148.5 | 1168.9 | 1179.2 | 1155.3 | 1090.5 |
| 62.5° | 759.9  | 759.9  | 773.6  | 794.0  | 804.2  | 838.3  | 855.3  | 865.6  | 875.7  | 872.4  | 831.6  |
| 65°   | 531.7  | 538.4  | 545.3  | 555.5  | 565.7  | 586.1  | 596.4  | 616.8  | 623.6  | 627.1  | 596.4  |
| 67.5° | 374.9  | 364.7  | 371.5  | 378.2  | 388.5  | 402.1  | 422.6  | 422.6  | 432.8  | 432.8  | 412.3  |
| 70°   | 238.5  | 238.5  | 242.0  | 252.1  | 259.0  | 262.4  | 269.3  | 276.0  | 286.3  | 282.8  | 282.8  |
| 72.5° | 160.2  | 156.7  | 160.2  | 163.6  | 167.0  | 177.2  | 177.2  | 180.6  | 187.4  | 190.9  | 177.2  |
| 75°   | 81.8   | 85.2   | 91.9   | 88.7   | 98.8   | 91.9   | 95.4   | 105.6  | 102.2  | 95.4   | 95.4   |
| 77.5° | 68.2   | 68.2   | 68.2   | 64.8   | 71.5   | 71.5   | 68.2   | 75.0   | 71.5   | 71.5   | 68.2   |
| 80°   | 47.6   | 51.1   | 47.6   | 44.3   | 47.6   | 44.3   | 44.3   | 44.3   | 44.3   | 44.3   | 40.8   |
| 82.5° | 37.6   | 30.7   | 34.1   | 30.7   | 34.1   | 34.1   | 30.7   | 27.2   | 27.2   | 30.7   | 27.2   |
| 85°   | 27.2   | 20.4   | 23.9   | 23.9   | 20.4   | 20.4   | 20.4   | 20.4   | 20.4   | 17.0   | 17.0   |
| 87.5° | 17.0   | 10.2   | 10.2   | 10.2   | 13.6   | 13.6   | 13.6   | 10.2   | 13.6   | 13.6   | 6.8    |
| 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°    | 6348.8 | 6348.8 | 6348.8 | 6348.8 | 6348.8 | 6348.8 | 6348.8 | 6348.8 | 6348.8 | 6348.8 | 6348.8 |
| 2.5°  | 6359.0 | 6355.6 | 6362.5 | 6359.0 | 6359.0 | 6355.6 | 6359.0 | 6355.6 | 6362.5 | 6348.8 | 6352.1 |
| 5°    | 6359.0 | 6352.1 | 6355.6 | 6359.0 | 6362.5 | 6355.6 | 6355.6 | 6355.6 | 6362.5 | 6355.6 | 6359.0 |
| 7.5°  | 6345.3 | 6341.9 | 6352.1 | 6359.0 | 6355.6 | 6352.1 | 6359.0 | 6355.6 | 6362.5 | 6359.0 | 6365.7 |
| 10°   | 6318.1 | 6321.4 | 6328.3 | 6338.5 | 6341.9 | 6345.3 | 6352.1 | 6352.1 | 6362.5 | 6348.8 | 6355.6 |
| 12.5° | 6277.2 | 6290.8 | 6307.9 | 6314.6 | 6328.3 | 6328.3 | 6335.1 | 6338.5 | 6345.3 | 6341.9 | 6352.1 |
| 15°   | 6226.1 | 6243.1 | 6263.6 | 6280.6 | 6297.7 | 6307.9 | 6318.1 | 6321.4 | 6331.7 | 6321.4 | 6324.9 |
| 17.5° | 6164.7 | 6185.1 | 6215.8 | 6236.2 | 6263.6 | 6273.8 | 6287.4 | 6294.2 | 6304.5 | 6297.7 | 6301.0 |
| 20°   | 6079.5 | 6103.4 | 6137.5 | 6168.2 | 6185.1 | 6209.0 | 6226.1 | 6236.2 | 6243.1 | 6236.2 | 6239.7 |
| 22.5° | 5960.2 | 5994.3 | 6038.6 | 6062.5 | 6096.6 | 6117.1 | 6120.4 | 6144.3 | 6161.4 | 6144.3 | 6151.2 |
| 25°   | 5820.6 | 5854.6 | 5888.7 | 5939.8 | 5970.6 | 5994.3 | 6018.2 | 6021.7 | 6038.6 | 6035.2 | 6031.8 |
| 27.5° | 5588.7 | 5633.1 | 5691.0 | 5732.0 | 5772.8 | 5810.4 | 5837.6 | 5844.3 | 5861.5 | 5854.6 | 5858.0 |
| 30°   | 5271.8 | 5319.6 | 5374.2 | 5438.9 | 5496.8 | 5534.3 | 5568.3 | 5592.2 | 5609.3 | 5599.1 | 5595.6 |
| 32.5° | 4822.1 | 4869.7 | 4927.7 | 4992.5 | 5060.6 | 5115.1 | 5156.0 | 5186.8 | 5207.2 | 5200.3 | 5183.3 |
| 35°   | 4307.6 | 4321.1 | 4358.7 | 4409.8 | 4467.6 | 4525.6 | 4563.1 | 4597.1 | 4621.0 | 4627.8 | 4627.8 |
| 37.5° | 3779.2 | 3734.9 | 3707.7 | 3707.7 | 3741.8 | 3765.7 | 3799.7 | 3820.1 | 3857.7 | 3871.3 | 3881.5 |
| 40°   | 3268.1 | 3165.8 | 3070.4 | 2998.9 | 2951.1 | 2947.8 | 2947.8 | 2958.0 | 2992.1 | 3036.3 | 3077.3 |
| 42.5° | 2811.5 | 2647.8 | 2501.3 | 2368.4 | 2273.1 | 2218.5 | 2194.7 | 2198.1 | 2225.3 | 2266.2 | 2334.4 |
| 45°   | 2446.8 | 2242.3 | 2058.4 | 1898.2 | 1768.6 | 1683.4 | 1642.6 | 1639.1 | 1659.6 | 1707.3 | 1782.3 |
| 47.5° | 2164.0 | 1945.8 | 1738.0 | 1553.9 | 1414.3 | 1322.2 | 1274.5 | 1260.9 | 1274.5 | 1318.7 | 1407.4 |
| 50°   | 1928.8 | 1703.9 | 1489.2 | 1298.3 | 1148.5 | 1053.1 | 1008.7 | 991.6  | 1008.7 | 1046.2 | 1134.8 |
| 52.5° | 1710.6 | 1478.9 | 1277.9 | 1093.9 | 933.7  | 852.0  | 804.2  | 794.0  | 804.2  | 848.5  | 920.1  |
| 55°   | 1458.5 | 1260.9 | 1063.3 | 879.2  | 739.5  | 657.7  | 620.2  | 610.0  | 620.2  | 661.2  | 736.2  |
| 57.5° | 1209.8 | 1039.4 | 865.6  | 698.6  | 579.3  | 507.7  | 473.7  | 460.1  | 483.8  | 511.2  | 599.7  |
| 60°   | 978.0  | 841.8  | 695.1  | 548.6  | 449.9  | 385.1  | 357.8  | 354.3  | 361.2  | 395.4  | 456.6  |
| 62.5° | 766.8  | 654.3  | 538.4  | 419.1  | 337.4  | 310.1  | 276.0  | 272.6  | 279.5  | 299.9  | 347.6  |
| 65°   | 552.1  | 480.6  | 391.9  | 306.7  | 242.0  | 204.5  | 190.9  | 194.3  | 201.0  | 214.7  | 259.0  |
| 67.5° | 385.1  | 333.9  | 272.6  | 214.7  | 167.0  | 149.9  | 136.3  | 133.0  | 136.3  | 160.2  | 184.1  |
| 70°   | 259.0  | 228.3  | 184.1  | 163.6  | 115.9  | 91.9   | 95.4   | 85.2   | 98.8   | 98.8   | 119.3  |
| 72.5° | 170.4  | 149.9  | 122.6  | 95.4   | 81.8   | 64.8   | 64.8   | 61.3   | 68.2   | 71.5   | 88.7   |
| 75°   | 88.7   | 68.2   | 68.2   | 47.6   | 34.1   | 17.0   | 30.7   | 27.2   | 23.9   | 27.2   | 34.1   |
| 77.5° | 61.3   | 51.1   | 47.6   | 37.6   | 34.1   | 27.2   | 27.2   | 27.2   | 27.2   | 30.7   | 34.1   |
| 80°   | 37.6   | 37.6   | 27.2   | 23.9   | 20.4   | 17.0   | 20.4   | 20.4   | 20.4   | 20.4   | 23.9   |
| 82.5° | 23.9   | 20.4   | 20.4   | 17.0   | 17.0   | 13.6   | 13.6   | 13.6   | 13.6   | 13.6   | 20.4   |
| 85°   | 20.4   | 13.6   | 13.6   | 10.2   | 13.6   | 23.9   | 10.2   | 13.6   | 13.6   | 13.6   | 10.2   |
| 87.5° | 6.8    | 10.2   | 10.2   | 10.2   | 6.8    | 3.4    | 6.8    | 10.2   | 10.2   | 17.0   | 13.6   |
| 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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CATALOG NUMBER: LD8B150D010 ER8B150930 8LBDW0B

**CANDELA DISTRIBUTION (continued):**

|       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6348.8 | 6348.8 | 6348.8 | 6348.8 | 6348.8 | 6348.8 | 6348.8 | 6348.8 | 6348.8 | 6348.8 | 6348.8 |
| 2.5°  | 6359.0 | 6362.5 | 6362.5 | 6359.0 | 6359.0 | 6352.1 | 6365.7 | 6355.6 | 6359.0 | 6372.5 | 6362.5 |
| 5°    | 6365.7 | 6369.2 | 6369.2 | 6365.7 | 6365.7 | 6365.7 | 6369.2 | 6369.2 | 6365.7 | 6362.5 | 6369.2 |
| 7.5°  | 6379.4 | 6376.0 | 6376.0 | 6369.2 | 6369.2 | 6362.5 | 6369.2 | 6359.0 | 6365.7 | 6359.0 | 6369.2 |
| 10°   | 6362.5 | 6365.7 | 6362.5 | 6359.0 | 6359.0 | 6355.6 | 6355.6 | 6345.3 | 6348.8 | 6338.5 | 6345.3 |
| 12.5° | 6352.1 | 6348.8 | 6348.8 | 6341.9 | 6335.1 | 6328.3 | 6324.9 | 6314.6 | 6314.6 | 6290.8 | 6301.0 |
| 15°   | 6324.9 | 6328.3 | 6318.1 | 6304.5 | 6297.7 | 6280.6 | 6273.8 | 6260.1 | 6246.5 | 6229.5 | 6232.9 |
| 17.5° | 6301.0 | 6290.8 | 6277.2 | 6263.6 | 6236.2 | 6222.7 | 6209.0 | 6188.6 | 6181.8 | 6161.4 | 6154.5 |
| 20°   | 6229.5 | 6222.7 | 6205.6 | 6181.8 | 6164.7 | 6134.0 | 6120.4 | 6100.0 | 6082.9 | 6062.5 | 6052.3 |
| 22.5° | 6137.5 | 6130.6 | 6110.2 | 6086.4 | 6059.1 | 6045.4 | 6031.8 | 5994.3 | 5977.3 | 5956.9 | 5953.4 |
| 25°   | 6021.7 | 6011.4 | 5991.0 | 5963.7 | 5950.0 | 5912.6 | 5898.9 | 5871.6 | 5864.8 | 5844.3 | 5841.0 |
| 27.5° | 5844.3 | 5830.8 | 5806.9 | 5772.8 | 5748.9 | 5725.2 | 5711.5 | 5691.0 | 5684.3 | 5663.7 | 5660.4 |
| 30°   | 5578.7 | 5561.5 | 5513.9 | 5500.2 | 5459.3 | 5435.4 | 5435.4 | 5408.2 | 5411.6 | 5398.0 | 5398.0 |
| 32.5° | 5159.4 | 5132.2 | 5094.6 | 5067.4 | 5040.1 | 5026.6 | 5026.6 | 5016.3 | 5023.1 | 5023.1 | 5029.9 |
| 35°   | 4603.9 | 4566.5 | 4546.0 | 4529.0 | 4529.0 | 4542.6 | 4583.5 | 4593.7 | 4614.1 | 4631.2 | 4644.9 |
| 37.5° | 3891.7 | 3888.3 | 3912.2 | 3932.6 | 3983.7 | 4041.7 | 4113.3 | 4174.6 | 4232.4 | 4273.4 | 4314.3 |
| 40°   | 3121.5 | 3206.7 | 3274.9 | 3370.4 | 3448.6 | 3561.2 | 3690.7 | 3796.3 | 3895.1 | 3966.8 | 4041.7 |
| 42.5° | 2436.6 | 2545.6 | 2688.8 | 2828.5 | 2968.2 | 3121.5 | 3292.0 | 3438.4 | 3568.0 | 3666.8 | 3745.1 |
| 45°   | 1898.2 | 2048.1 | 2221.9 | 2399.2 | 2579.8 | 2770.6 | 2947.8 | 3097.7 | 3234.1 | 3336.2 | 3414.7 |
| 47.5° | 1530.1 | 1693.7 | 1891.4 | 2085.6 | 2290.1 | 2491.1 | 2688.8 | 2818.3 | 2930.7 | 3012.5 | 3084.1 |
| 50°   | 1264.3 | 1438.1 | 1646.0 | 1867.5 | 2071.9 | 2273.1 | 2443.4 | 2569.4 | 2661.5 | 2733.1 | 2777.4 |
| 52.5° | 1056.4 | 1240.4 | 1462.0 | 1683.4 | 1887.9 | 2071.9 | 2225.3 | 2320.7 | 2395.7 | 2446.8 | 2487.7 |
| 55°   | 872.4  | 1049.6 | 1257.5 | 1465.4 | 1666.4 | 1840.2 | 1966.2 | 2037.9 | 2095.8 | 2126.4 | 2150.3 |
| 57.5° | 712.3  | 875.7  | 1066.6 | 1257.5 | 1431.3 | 1574.4 | 1673.2 | 1744.8 | 1772.1 | 1796.0 | 1792.5 |
| 60°   | 558.9  | 712.3  | 886.0  | 1049.6 | 1199.6 | 1315.4 | 1387.0 | 1427.8 | 1448.3 | 1458.5 | 1451.7 |
| 62.5° | 439.5  | 579.3  | 712.3  | 855.3  | 964.4  | 1063.3 | 1131.4 | 1131.4 | 1141.6 | 1145.0 | 1155.3 |
| 65°   | 327.1  | 432.8  | 548.6  | 654.3  | 742.9  | 807.7  | 845.1  | 855.3  | 869.0  | 865.6  | 858.8  |
| 67.5° | 242.0  | 320.4  | 405.5  | 483.8  | 545.3  | 586.1  | 613.4  | 637.3  | 633.9  | 627.1  | 623.6  |
| 70°   | 167.0  | 218.1  | 293.1  | 340.8  | 385.1  | 426.0  | 432.8  | 436.2  | 439.5  | 443.0  | 436.2  |
| 72.5° | 115.9  | 153.4  | 194.3  | 235.2  | 262.4  | 279.5  | 296.5  | 299.9  | 299.9  | 299.9  | 296.5  |
| 75°   | 58.0   | 78.4   | 115.9  | 133.0  | 156.7  | 163.6  | 177.2  | 177.2  | 187.4  | 173.8  | 170.4  |
| 77.5° | 51.1   | 61.3   | 81.8   | 95.4   | 105.6  | 115.9  | 119.3  | 129.5  | 126.1  | 119.3  | 122.6  |
| 80°   | 30.7   | 37.6   | 51.1   | 58.0   | 71.5   | 75.0   | 78.4   | 81.8   | 78.4   | 81.8   | 81.8   |
| 82.5° | 23.9   | 27.2   | 34.1   | 34.1   | 44.3   | 44.3   | 47.6   | 47.6   | 51.1   | 51.1   | 51.1   |
| 85°   | 13.6   | 23.9   | 20.4   | 40.8   | 27.2   | 27.2   | 34.1   | 40.8   | 34.1   | 34.1   | 40.8   |
| 87.5° | 13.6   | 13.6   | 10.2   | 13.6   | 13.6   | 13.6   | 17.0   | 20.4   | 20.4   | 23.9   | 20.4   |
| 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: P249511

CATALOG NUMBER: LD8B150D010 ER8B150930 8LBDW0B

**CANDELA DISTRIBUTION (continued):**

|       | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 6348.8 | 6348.8 | 6348.8 | 6348.8 |
| 2.5°  | 6359.0 | 6365.7 | 6355.6 | 6352.1 |
| 5°    | 6369.2 | 6369.2 | 6362.5 | 6362.5 |
| 7.5°  | 6369.2 | 6369.2 | 6359.0 | 6352.1 |
| 10°   | 6341.9 | 6341.9 | 6331.7 | 6324.9 |
| 12.5° | 6290.8 | 6290.8 | 6287.4 | 6277.2 |
| 15°   | 6226.1 | 6226.1 | 6212.5 | 6202.3 |
| 17.5° | 6137.5 | 6144.3 | 6127.3 | 6127.3 |
| 20°   | 6042.1 | 6038.6 | 6025.0 | 6018.2 |
| 22.5° | 5943.2 | 5936.4 | 5933.0 | 5912.6 |
| 25°   | 5837.6 | 5830.8 | 5820.6 | 5810.4 |
| 27.5° | 5657.0 | 5653.5 | 5643.3 | 5629.8 |
| 30°   | 5380.9 | 5377.5 | 5363.9 | 5363.9 |
| 32.5° | 5023.1 | 5019.7 | 5006.0 | 5009.5 |
| 35°   | 4651.6 | 4665.3 | 4658.4 | 4644.9 |
| 37.5° | 4341.5 | 4351.8 | 4358.7 | 4351.8 |
| 40°   | 4082.6 | 4113.3 | 4116.6 | 4123.5 |
| 42.5° | 3806.6 | 3847.4 | 3861.1 | 3867.8 |
| 45°   | 3475.9 | 3513.4 | 3544.2 | 3537.3 |
| 47.5° | 3138.6 | 3165.8 | 3193.1 | 3172.7 |
| 50°   | 2814.8 | 2831.9 | 2842.2 | 2842.2 |
| 52.5° | 2508.1 | 2508.1 | 2504.8 | 2508.1 |
| 55°   | 2157.1 | 2157.1 | 2143.6 | 2150.3 |
| 57.5° | 1789.1 | 1796.0 | 1785.6 | 1768.6 |
| 60°   | 1448.3 | 1431.3 | 1424.5 | 1414.3 |
| 62.5° | 1128.1 | 1128.1 | 1104.2 | 1134.8 |
| 65°   | 845.1  | 834.9  | 824.7  | 821.2  |
| 67.5° | 613.4  | 610.0  | 599.7  | 596.4  |
| 70°   | 432.8  | 419.1  | 415.8  | 408.9  |
| 72.5° | 289.7  | 289.7  | 282.8  | 282.8  |
| 75°   | 177.2  | 160.2  | 156.7  | 160.2  |
| 77.5° | 122.6  | 119.3  | 119.3  | 115.9  |
| 80°   | 81.8   | 78.4   | 85.2   | 75.0   |
| 82.5° | 51.1   | 54.5   | 51.1   | 54.5   |
| 85°   | 34.1   | 40.8   | 37.6   | 37.6   |
| 87.5° | 20.4   | 20.4   | 20.4   | 20.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)