

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: P245501

Luminaire Tested: **LSR8B50D010 EC8B50935 8LBDW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245501  
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: LSR8B50D010 EC8B50935 8LBDW0WH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4797.0 lumens  
Efficiency: N/A  
Efficacy: 90.5 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

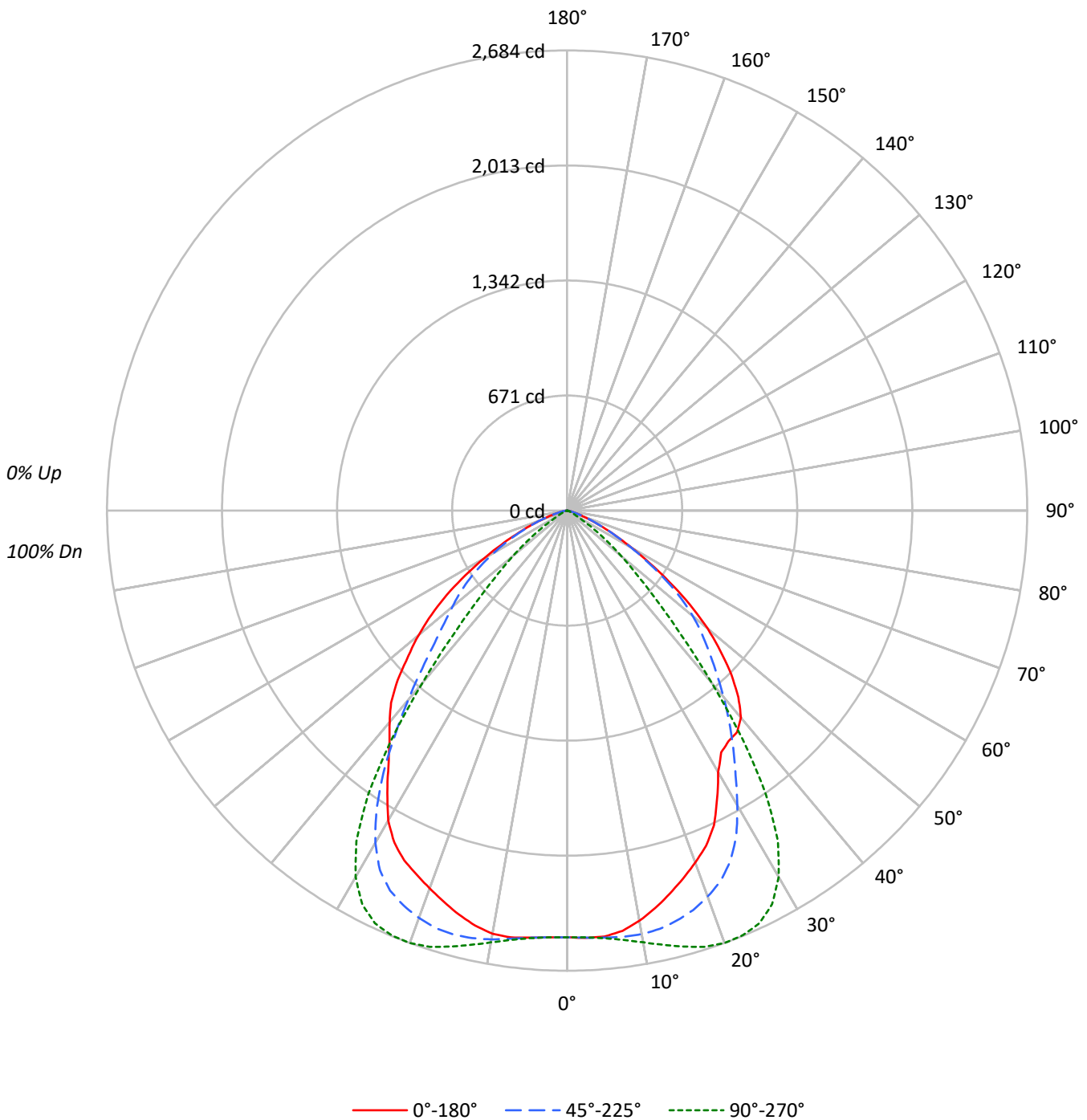
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 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  | 92  | 90  |    |    |    |    | 90  |   |  |   |
| 2   | 104 | 98  | 92  | 88  | 102 | 96  | 91  | 87  | 92  | 88  | 85  | 89  | 86  | 83  | 86  | 84  | 81  | 79  |    |    |    |    | 79  |   |  |   |
| 3   | 97  | 88  | 82  | 76  | 94  | 87  | 81  | 76  | 84  | 79  | 74  | 81  | 77  | 73  | 79  | 75  | 72  | 70  |    |    |    |    | 70  |   |  |   |
| 4   | 90  | 80  | 73  | 67  | 88  | 79  | 72  | 67  | 76  | 70  | 66  | 74  | 69  | 65  | 72  | 68  | 64  | 62  |    |    |    |    | 62  |   |  |   |
| 5   | 84  | 73  | 65  | 60  | 82  | 72  | 65  | 59  | 70  | 63  | 59  | 68  | 62  | 58  | 66  | 61  | 58  | 56  |    |    |    |    | 56  |   |  |   |
| 6   | 78  | 66  | 59  | 53  | 76  | 66  | 58  | 53  | 64  | 57  | 53  | 62  | 57  | 52  | 61  | 56  | 52  | 50  |    |    |    |    | 50  |   |  |   |
| 7   | 73  | 61  | 53  | 48  | 71  | 60  | 53  | 48  | 59  | 52  | 48  | 57  | 52  | 47  | 56  | 51  | 47  | 45  |    |    |    |    | 45  |   |  |   |
| 8   | 68  | 56  | 49  | 44  | 67  | 56  | 48  | 43  | 54  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 41  |    |    |    |    | 41  |   |  |   |
| 9   | 64  | 52  | 45  | 40  | 63  | 51  | 44  | 40  | 50  | 44  | 39  | 49  | 44  | 39  | 48  | 43  | 39  | 38  |    |    |    |    | 38  |   |  |   |
| 10  | 60  | 48  | 41  | 36  | 59  | 48  | 41  | 36  | 47  | 41  | 36  | 46  | 40  | 36  | 45  | 40  | 36  | 34  |    |    |    |    | 34  |   |  |   |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 76736 | 76736 | 76736 |
| 5°  | 77193 | 77481 | 77398 |
| 10° | 76060 | 80071 | 78499 |
| 15° | 73837 | 84040 | 77882 |
| 20° | 71692 | 88076 | 76939 |
| 25° | 68940 | 90334 | 76581 |
| 30° | 62739 | 87856 | 74311 |
| 35° | 61804 | 76128 | 68369 |
| 40° | 63485 | 52797 | 64813 |
| 45° | 59099 | 31909 | 60944 |
| 50° | 51264 | 19707 | 54305 |
| 55° | 39337 | 10295 | 46084 |
| 60° | 26803 | 4157  | 34783 |
| 65° | 16672 | 2123  | 23998 |
| 70° | 9052  | 1307  | 14651 |
| 75° | 4718  | 631   | 8662  |
| 80° | 2113  | 710   | 4688  |
| 85° | 1415  | 460   | 4210  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 239.3  | 5.0       |
| 10°-20°   | 708.9  | 14.8      |
| 20°-30°   | 1081.6 | 22.5      |
| 30°-40°   | 1128.6 | 23.5      |
| 40°-50°   | 847.8  | 17.7      |
| 50°-60°   | 521.6  | 10.9      |
| 60°-70°   | 212.3  | 4.4       |
| 70°-80°   | 50.0   | 1.0       |
| 80°-90°   | 6.9    | 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°    | 2029.8 | 42.3      |
| 0°-40°    | 3158.5 | 65.8      |
| 0°-60°    | 4527.8 | 94.4      |
| 0°-90°    | 4797.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4797.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2488 | 2488 | 2488 | 2488 | 2488 |      |
| 5°  | 2494 | 2500 | 2503 | 2500 | 2500 | 236  |
| 15° | 2313 | 2475 | 2632 | 2560 | 2440 | 652  |
| 25° | 2026 | 2253 | 2655 | 2445 | 2251 | 921  |
| 35° | 1642 | 1688 | 2022 | 1869 | 1816 | 1037 |
| 45° | 1355 | 1173 | 732  | 1092 | 1398 | 1034 |
| 55° | 732  | 695  | 192  | 695  | 857  | 658  |
| 65° | 228  | 231  | 29   | 310  | 329  | 238  |
| 75° | 40   | 40   | 5    | 70   | 73   | 48   |
| 85° | 4    | 4    | 1    | 9    | 12   | 6    |
| 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°    | 2488.5 | 2488.5 | 2488.5 | 2488.5 | 2488.5 | 2488.5 | 2488.5 | 2488.5 | 2488.5 | 2488.5 | 2488.5 |
| 2.5°  | 2495.1 | 2491.2 | 2495.1 | 2495.1 | 2496.5 | 2493.8 | 2495.1 | 2496.5 | 2493.8 | 2493.8 | 2493.8 |
| 5°    | 2493.8 | 2491.2 | 2493.8 | 2492.5 | 2495.1 | 2495.1 | 2497.8 | 2497.8 | 2500.4 | 2500.4 | 2504.4 |
| 7.5°  | 2472.7 | 2467.4 | 2472.7 | 2476.7 | 2479.3 | 2484.6 | 2491.2 | 2496.5 | 2501.7 | 2507.0 | 2513.6 |
| 10°   | 2429.1 | 2429.1 | 2433.1 | 2441.0 | 2448.9 | 2458.1 | 2470.0 | 2483.2 | 2496.5 | 2508.3 | 2520.2 |
| 12.5° | 2374.9 | 2371.0 | 2378.9 | 2389.5 | 2401.3 | 2415.9 | 2434.4 | 2454.2 | 2475.3 | 2499.1 | 2517.6 |
| 15°   | 2312.9 | 2308.9 | 2318.1 | 2328.7 | 2343.2 | 2364.4 | 2386.8 | 2413.2 | 2443.6 | 2475.3 | 2505.7 |
| 17.5° | 2249.4 | 2248.1 | 2257.4 | 2271.9 | 2283.8 | 2306.2 | 2335.3 | 2367.0 | 2401.3 | 2443.6 | 2483.2 |
| 20°   | 2184.7 | 2183.4 | 2192.7 | 2204.6 | 2220.4 | 2241.5 | 2270.6 | 2307.6 | 2348.5 | 2396.1 | 2442.3 |
| 22.5° | 2117.4 | 2118.7 | 2126.6 | 2139.8 | 2153.0 | 2175.5 | 2205.8 | 2242.9 | 2287.7 | 2339.3 | 2390.8 |
| 25°   | 2026.2 | 2019.6 | 2030.2 | 2043.4 | 2065.8 | 2084.3 | 2113.4 | 2153.0 | 2199.3 | 2253.4 | 2314.2 |
| 27.5° | 1894.1 | 1892.8 | 1902.1 | 1913.9 | 1933.7 | 1956.2 | 1987.9 | 2028.9 | 2077.7 | 2137.2 | 2196.6 |
| 30°   | 1762.0 | 1764.7 | 1768.7 | 1780.6 | 1793.7 | 1816.2 | 1847.9 | 1882.3 | 1928.5 | 1985.3 | 2048.7 |
| 32.5° | 1672.2 | 1672.2 | 1677.5 | 1685.4 | 1694.7 | 1706.6 | 1729.0 | 1754.1 | 1789.8 | 1829.4 | 1875.6 |
| 35°   | 1641.8 | 1636.6 | 1641.8 | 1643.2 | 1644.5 | 1647.1 | 1651.1 | 1659.0 | 1670.9 | 1688.1 | 1705.2 |
| 37.5° | 1628.6 | 1624.7 | 1624.7 | 1619.4 | 1612.8 | 1604.9 | 1594.3 | 1582.4 | 1569.2 | 1552.0 | 1538.8 |
| 40°   | 1577.1 | 1574.5 | 1571.8 | 1566.6 | 1552.0 | 1536.2 | 1519.0 | 1491.3 | 1460.9 | 1418.6 | 1376.4 |
| 42.5° | 1478.1 | 1475.4 | 1474.1 | 1463.5 | 1450.3 | 1431.8 | 1412.0 | 1383.0 | 1344.7 | 1290.5 | 1229.7 |
| 45°   | 1355.2 | 1349.9 | 1346.0 | 1336.7 | 1327.5 | 1311.6 | 1293.1 | 1266.7 | 1228.4 | 1172.9 | 1100.3 |
| 47.5° | 1212.6 | 1209.9 | 1208.6 | 1204.6 | 1195.4 | 1186.1 | 1174.3 | 1153.1 | 1118.8 | 1065.9 | 990.7  |
| 50°   | 1068.6 | 1063.3 | 1065.9 | 1064.6 | 1060.7 | 1054.1 | 1046.1 | 1031.6 | 1005.2 | 957.6  | 889.0  |
| 52.5° | 903.5  | 903.5  | 902.2  | 906.1  | 907.4  | 906.1  | 907.4  | 891.6  | 869.1  | 833.5  | 775.3  |
| 55°   | 731.7  | 731.7  | 735.7  | 741.0  | 746.3  | 747.6  | 746.3  | 739.7  | 723.8  | 694.8  | 643.3  |
| 57.5° | 570.6  | 568.0  | 575.9  | 583.8  | 589.1  | 594.4  | 590.4  | 585.1  | 575.9  | 552.1  | 512.5  |
| 60°   | 434.6  | 434.6  | 439.8  | 445.1  | 450.4  | 455.7  | 454.4  | 453.1  | 445.1  | 429.3  | 397.6  |
| 62.5° | 319.6  | 321.0  | 321.0  | 324.9  | 330.2  | 335.5  | 339.5  | 335.5  | 331.5  | 321.0  | 299.8  |
| 65°   | 228.5  | 227.2  | 228.5  | 232.5  | 236.4  | 241.7  | 244.4  | 243.0  | 239.1  | 231.2  | 215.3  |
| 67.5° | 153.2  | 151.9  | 157.2  | 158.5  | 161.1  | 166.4  | 165.1  | 166.4  | 165.1  | 158.5  | 145.3  |
| 70°   | 100.4  | 97.7   | 100.4  | 99.1   | 103.0  | 104.4  | 107.0  | 108.3  | 107.0  | 103.0  | 99.1   |
| 72.5° | 62.1   | 60.8   | 62.1   | 63.4   | 64.7   | 66.0   | 68.7   | 68.7   | 67.4   | 64.7   | 59.4   |
| 75°   | 39.6   | 35.6   | 37.0   | 34.4   | 37.0   | 37.0   | 39.6   | 40.9   | 39.6   | 39.6   | 37.0   |
| 77.5° | 23.8   | 23.8   | 23.8   | 23.8   | 23.8   | 23.8   | 23.8   | 25.1   | 26.4   | 23.8   | 22.5   |
| 80°   | 11.9   | 11.9   | 13.2   | 13.2   | 13.2   | 14.5   | 13.2   | 13.2   | 13.2   | 14.5   | 10.6   |
| 82.5° | 9.2    | 7.9    | 7.9    | 7.9    | 9.2    | 7.9    | 7.9    | 7.9    | 7.9    | 7.9    | 7.9    |
| 85°   | 4.0    | 5.3    | 4.0    | 2.6    | 4.0    | 4.0    | 5.3    | 4.0    | 4.0    | 4.0    | 5.3    |
| 87.5° | 1.3    | 1.3    | 0.0    | 0.0    | 0.0    | 1.3    | 0.0    | 1.3    | 1.3    | 2.6    | 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°    | 2488.5 | 2488.5 | 2488.5 | 2488.5 | 2488.5 | 2488.5 | 2488.5 | 2488.5 | 2488.5 | 2488.5 | 2488.5 |
| 2.5°  | 2495.1 | 2492.5 | 2492.5 | 2491.2 | 2493.8 | 2491.2 | 2492.5 | 2491.2 | 2491.2 | 2493.8 | 2491.2 |
| 5°    | 2504.4 | 2505.7 | 2503.1 | 2501.7 | 2505.7 | 2505.7 | 2505.7 | 2503.1 | 2503.1 | 2504.4 | 2503.1 |
| 7.5°  | 2517.6 | 2520.2 | 2521.5 | 2522.9 | 2525.5 | 2526.8 | 2526.8 | 2525.5 | 2524.2 | 2528.2 | 2522.9 |
| 10°   | 2532.1 | 2536.1 | 2544.0 | 2548.0 | 2554.6 | 2554.6 | 2557.2 | 2557.2 | 2554.6 | 2557.2 | 2555.9 |
| 12.5° | 2526.8 | 2550.6 | 2563.8 | 2573.1 | 2582.3 | 2590.2 | 2592.9 | 2594.2 | 2592.9 | 2598.2 | 2592.9 |
| 15°   | 2536.1 | 2555.9 | 2577.0 | 2592.9 | 2610.0 | 2619.3 | 2621.9 | 2632.5 | 2635.1 | 2636.5 | 2628.6 |
| 17.5° | 2521.5 | 2557.2 | 2579.7 | 2603.4 | 2628.6 | 2645.7 | 2661.6 | 2668.2 | 2669.5 | 2672.1 | 2661.6 |
| 20°   | 2488.5 | 2528.2 | 2562.5 | 2596.8 | 2625.9 | 2652.3 | 2665.5 | 2684.0 | 2678.7 | 2689.3 | 2674.8 |
| 22.5° | 2443.6 | 2488.5 | 2532.1 | 2577.0 | 2607.4 | 2639.1 | 2666.9 | 2680.0 | 2686.7 | 2686.7 | 2670.8 |
| 25°   | 2372.3 | 2425.1 | 2472.7 | 2518.9 | 2565.1 | 2603.4 | 2635.1 | 2655.0 | 2658.9 | 2657.6 | 2639.1 |
| 27.5° | 2261.3 | 2318.1 | 2373.6 | 2426.5 | 2483.2 | 2528.2 | 2565.1 | 2588.9 | 2595.5 | 2595.5 | 2575.7 |
| 30°   | 2108.1 | 2168.9 | 2223.0 | 2286.4 | 2344.6 | 2394.8 | 2446.3 | 2467.4 | 2479.3 | 2479.3 | 2456.8 |
| 32.5° | 1925.8 | 1977.3 | 2027.5 | 2089.6 | 2153.0 | 2209.8 | 2258.7 | 2287.7 | 2302.3 | 2301.0 | 2281.2 |
| 35°   | 1727.7 | 1752.8 | 1791.1 | 1837.3 | 1894.1 | 1947.0 | 1994.5 | 2022.3 | 2047.4 | 2046.0 | 2027.5 |
| 37.5° | 1529.6 | 1523.0 | 1526.9 | 1544.1 | 1579.8 | 1616.8 | 1653.7 | 1680.2 | 1701.3 | 1710.5 | 1706.6 |
| 40°   | 1335.4 | 1301.1 | 1268.0 | 1256.2 | 1258.8 | 1272.0 | 1291.8 | 1311.6 | 1335.4 | 1347.3 | 1352.6 |
| 42.5° | 1161.1 | 1102.9 | 1044.8 | 1001.2 | 976.1  | 968.2  | 977.4  | 984.0  | 998.6  | 1015.7 | 1032.9 |
| 45°   | 1021.0 | 943.1  | 866.5  | 799.1  | 756.9  | 731.7  | 726.5  | 731.7  | 739.7  | 756.9  | 779.3  |
| 47.5° | 906.1  | 815.0  | 729.1  | 653.8  | 591.7  | 558.7  | 549.5  | 546.8  | 554.8  | 570.6  | 601.0  |
| 50°   | 804.4  | 713.3  | 618.2  | 531.0  | 466.3  | 429.3  | 416.1  | 410.8  | 420.0  | 431.9  | 459.7  |
| 52.5° | 693.5  | 603.6  | 505.9  | 421.4  | 354.0  | 315.7  | 301.2  | 293.2  | 298.5  | 314.4  | 342.1  |
| 55°   | 573.3  | 490.0  | 401.5  | 314.4  | 249.6  | 214.0  | 196.8  | 191.5  | 196.8  | 214.0  | 241.7  |
| 57.5° | 453.1  | 383.1  | 309.1  | 227.2  | 169.1  | 133.4  | 116.2  | 111.0  | 125.5  | 132.1  | 161.1  |
| 60°   | 354.0  | 297.2  | 233.8  | 166.4  | 116.2  | 88.5   | 71.3   | 67.4   | 74.0   | 85.8   | 109.6  |
| 62.5° | 265.5  | 229.8  | 179.6  | 118.9  | 85.8   | 56.8   | 47.5   | 43.6   | 47.5   | 56.8   | 75.3   |
| 65°   | 192.9  | 165.1  | 125.5  | 87.2   | 58.1   | 42.3   | 31.7   | 29.1   | 33.0   | 39.6   | 55.5   |
| 67.5° | 132.1  | 111.0  | 87.2   | 60.8   | 39.6   | 26.4   | 22.5   | 22.5   | 23.8   | 29.1   | 40.9   |
| 70°   | 85.8   | 72.7   | 55.5   | 39.6   | 26.4   | 19.8   | 17.2   | 14.5   | 17.2   | 21.1   | 27.7   |
| 72.5° | 54.2   | 46.2   | 35.6   | 27.7   | 19.8   | 14.5   | 11.9   | 10.6   | 13.2   | 15.8   | 21.1   |
| 75°   | 33.0   | 25.1   | 18.5   | 14.5   | 10.6   | 10.6   | 10.6   | 5.3    | 6.6    | 10.6   | 13.2   |
| 77.5° | 19.8   | 17.2   | 14.5   | 11.9   | 9.2    | 5.3    | 5.3    | 5.3    | 6.6    | 7.9    | 11.9   |
| 80°   | 10.6   | 9.2    | 6.6    | 6.6    | 5.3    | 4.0    | 5.3    | 4.0    | 2.6    | 6.6    | 7.9    |
| 82.5° | 6.6    | 5.3    | 5.3    | 5.3    | 6.6    | 2.6    | 4.0    | 2.6    | 4.0    | 5.3    | 4.0    |
| 85°   | 4.0    | 4.0    | 4.0    | 2.6    | 6.6    | 2.6    | 2.6    | 1.3    | 1.3    | 2.6    | 2.6    |
| 87.5° | 0.0    | 1.3    | 1.3    | 0.0    | 1.3    | 0.0    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    |
| 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):**

|       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2488.5 | 2488.5 | 2488.5 | 2488.5 | 2488.5 | 2488.5 | 2488.5 | 2488.5 | 2488.5 | 2488.5 | 2488.5 |
| 2.5°  | 2492.5 | 2491.2 | 2492.5 | 2491.2 | 2491.2 | 2491.2 | 2492.5 | 2492.5 | 2491.2 | 2491.2 | 2493.8 |
| 5°    | 2503.1 | 2503.1 | 2503.1 | 2501.7 | 2500.4 | 2500.4 | 2503.1 | 2503.1 | 2499.1 | 2503.1 | 2503.1 |
| 7.5°  | 2525.5 | 2521.5 | 2525.5 | 2520.2 | 2517.6 | 2518.9 | 2520.2 | 2517.6 | 2515.0 | 2516.3 | 2516.3 |
| 10°   | 2554.6 | 2550.6 | 2550.6 | 2546.7 | 2542.7 | 2540.0 | 2537.4 | 2530.8 | 2524.2 | 2522.9 | 2517.6 |
| 12.5° | 2588.9 | 2582.3 | 2578.4 | 2570.4 | 2563.8 | 2554.6 | 2546.7 | 2536.1 | 2522.9 | 2513.6 | 2504.4 |
| 15°   | 2623.3 | 2612.7 | 2603.4 | 2590.2 | 2575.7 | 2559.8 | 2542.7 | 2525.5 | 2504.4 | 2485.9 | 2470.0 |
| 17.5° | 2651.0 | 2636.5 | 2619.3 | 2598.2 | 2577.0 | 2553.3 | 2528.2 | 2503.1 | 2472.7 | 2448.9 | 2430.4 |
| 20°   | 2660.2 | 2639.1 | 2616.7 | 2588.9 | 2561.2 | 2528.2 | 2496.5 | 2463.4 | 2429.1 | 2404.0 | 2382.9 |
| 22.5° | 2648.4 | 2623.3 | 2595.5 | 2566.5 | 2529.5 | 2493.8 | 2456.8 | 2418.5 | 2388.1 | 2353.8 | 2334.0 |
| 25°   | 2615.3 | 2585.0 | 2554.6 | 2520.2 | 2484.6 | 2444.9 | 2405.3 | 2365.7 | 2328.7 | 2310.2 | 2285.1 |
| 27.5° | 2548.0 | 2515.0 | 2481.9 | 2446.3 | 2405.3 | 2365.7 | 2324.7 | 2286.4 | 2254.7 | 2229.6 | 2215.1 |
| 30°   | 2429.1 | 2390.8 | 2352.5 | 2314.2 | 2278.5 | 2237.6 | 2199.3 | 2167.5 | 2135.8 | 2116.0 | 2101.5 |
| 32.5° | 2246.8 | 2212.5 | 2174.2 | 2137.2 | 2104.2 | 2069.8 | 2038.1 | 2010.4 | 1987.9 | 1974.7 | 1964.1 |
| 35°   | 2001.1 | 1966.8 | 1937.7 | 1911.3 | 1883.6 | 1869.0 | 1849.2 | 1833.4 | 1824.1 | 1818.9 | 1817.5 |
| 37.5° | 1692.0 | 1672.2 | 1663.0 | 1657.7 | 1652.4 | 1648.5 | 1651.1 | 1657.7 | 1663.0 | 1672.2 | 1682.8 |
| 40°   | 1361.8 | 1379.0 | 1384.3 | 1402.8 | 1419.9 | 1442.4 | 1467.5 | 1496.6 | 1520.3 | 1550.7 | 1571.8 |
| 42.5° | 1060.7 | 1092.4 | 1129.3 | 1169.0 | 1211.2 | 1252.2 | 1302.4 | 1348.6 | 1390.9 | 1429.2 | 1462.2 |
| 45°   | 815.0  | 863.8  | 919.3  | 976.1  | 1032.9 | 1092.4 | 1153.1 | 1209.9 | 1260.1 | 1301.1 | 1335.4 |
| 47.5° | 635.3  | 689.5  | 760.8  | 830.8  | 899.5  | 969.5  | 1036.9 | 1096.3 | 1138.6 | 1178.2 | 1208.6 |
| 50°   | 503.2  | 565.3  | 643.3  | 723.8  | 799.1  | 873.1  | 944.4  | 999.9  | 1042.2 | 1073.9 | 1096.3 |
| 52.5° | 389.6  | 463.6  | 542.9  | 627.4  | 708.0  | 788.6  | 854.6  | 906.1  | 940.5  | 968.2  | 985.4  |
| 55°   | 290.6  | 363.2  | 447.8  | 535.0  | 616.9  | 694.8  | 756.9  | 801.8  | 832.2  | 848.0  | 857.2  |
| 57.5° | 210.0  | 276.1  | 360.6  | 447.8  | 521.7  | 595.7  | 645.9  | 686.9  | 704.0  | 713.3  | 717.2  |
| 60°   | 153.2  | 214.0  | 289.3  | 364.6  | 434.6  | 494.0  | 537.6  | 565.3  | 578.6  | 583.8  | 582.5  |
| 62.5° | 112.3  | 165.1  | 229.8  | 293.2  | 350.0  | 398.9  | 433.2  | 451.7  | 458.4  | 461.0  | 457.0  |
| 65°   | 85.8   | 126.8  | 182.3  | 231.2  | 274.7  | 310.4  | 335.5  | 347.4  | 351.3  | 350.0  | 347.4  |
| 67.5° | 63.4   | 95.1   | 136.1  | 173.0  | 204.7  | 232.5  | 245.7  | 256.3  | 258.9  | 254.9  | 251.0  |
| 70°   | 44.9   | 70.0   | 99.1   | 124.2  | 147.9  | 163.8  | 178.3  | 179.6  | 179.6  | 178.3  | 175.7  |
| 72.5° | 31.7   | 48.9   | 67.4   | 84.5   | 99.1   | 111.0  | 116.2  | 120.2  | 118.9  | 117.5  | 114.9  |
| 75°   | 21.1   | 30.4   | 48.9   | 52.8   | 66.0   | 70.0   | 75.3   | 75.3   | 76.6   | 72.7   | 72.7   |
| 77.5° | 13.2   | 21.1   | 29.1   | 34.4   | 39.6   | 44.9   | 47.5   | 47.5   | 48.9   | 47.5   | 47.5   |
| 80°   | 7.9    | 13.2   | 15.8   | 23.8   | 23.8   | 27.7   | 29.1   | 30.4   | 27.7   | 31.7   | 27.7   |
| 82.5° | 5.3    | 7.9    | 11.9   | 11.9   | 14.5   | 17.2   | 17.2   | 18.5   | 18.5   | 17.2   | 17.2   |
| 85°   | 4.0    | 5.3    | 6.6    | 7.9    | 7.9    | 9.2    | 7.9    | 7.9    | 9.2    | 10.6   | 9.2    |
| 87.5° | 1.3    | 2.6    | 1.3    | 2.6    | 2.6    | 5.3    | 4.0    | 4.0    | 4.0    | 5.3    | 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    |





TEST NUMBER: P245501

CATALOG NUMBER: LSR8B50D010 EC8B50935 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

|       | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 2488.5 | 2488.5 | 2488.5 | 2488.5 |
| 2.5°  | 2491.2 | 2492.5 | 2491.2 | 2491.2 |
| 5°    | 2503.1 | 2501.7 | 2503.1 | 2500.4 |
| 7.5°  | 2512.3 | 2512.3 | 2511.0 | 2511.0 |
| 10°   | 2512.3 | 2507.0 | 2507.0 | 2507.0 |
| 12.5° | 2492.5 | 2485.9 | 2481.9 | 2479.3 |
| 15°   | 2458.1 | 2446.3 | 2441.0 | 2439.6 |
| 17.5° | 2413.2 | 2402.7 | 2396.1 | 2392.1 |
| 20°   | 2361.7 | 2351.2 | 2343.2 | 2344.6 |
| 22.5° | 2316.8 | 2304.9 | 2299.6 | 2297.0 |
| 25°   | 2271.9 | 2257.4 | 2253.4 | 2250.8 |
| 27.5° | 2199.3 | 2191.3 | 2187.4 | 2183.4 |
| 30°   | 2088.3 | 2084.3 | 2077.7 | 2087.0 |
| 32.5° | 1960.2 | 1953.6 | 1948.3 | 1952.3 |
| 35°   | 1818.9 | 1814.9 | 1818.9 | 1816.2 |
| 37.5° | 1689.4 | 1693.4 | 1698.7 | 1701.3 |
| 40°   | 1587.7 | 1602.2 | 1607.5 | 1610.1 |
| 42.5° | 1486.0 | 1503.2 | 1513.7 | 1520.3 |
| 45°   | 1360.5 | 1377.7 | 1389.6 | 1397.5 |
| 47.5° | 1231.1 | 1245.6 | 1257.5 | 1256.2 |
| 50°   | 1113.5 | 1121.4 | 1126.7 | 1132.0 |
| 52.5° | 994.6  | 994.6  | 995.9  | 995.9  |
| 55°   | 859.9  | 857.2  | 855.9  | 857.2  |
| 57.5° | 711.9  | 709.3  | 708.0  | 704.0  |
| 60°   | 577.2  | 569.3  | 564.0  | 564.0  |
| 62.5° | 451.7  | 442.5  | 438.5  | 437.2  |
| 65°   | 339.5  | 338.1  | 330.2  | 328.9  |
| 67.5° | 245.7  | 240.4  | 235.1  | 236.4  |
| 70°   | 173.0  | 165.1  | 165.1  | 162.5  |
| 72.5° | 112.3  | 108.3  | 107.0  | 107.0  |
| 75°   | 70.0   | 70.0   | 67.4   | 72.7   |
| 77.5° | 46.2   | 46.2   | 44.9   | 46.2   |
| 80°   | 27.7   | 27.7   | 27.7   | 26.4   |
| 82.5° | 17.2   | 18.5   | 17.2   | 17.2   |
| 85°   | 9.2    | 10.6   | 7.9    | 11.9   |
| 87.5° | 5.3    | 6.6    | 5.3    | 6.6    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)