

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: P245386

Luminaire Tested: **LSR8B40D010 EC8B40827 8LBSW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245386  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-53)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B40D010 EC8B40827 8LBSW0WH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4208.0 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

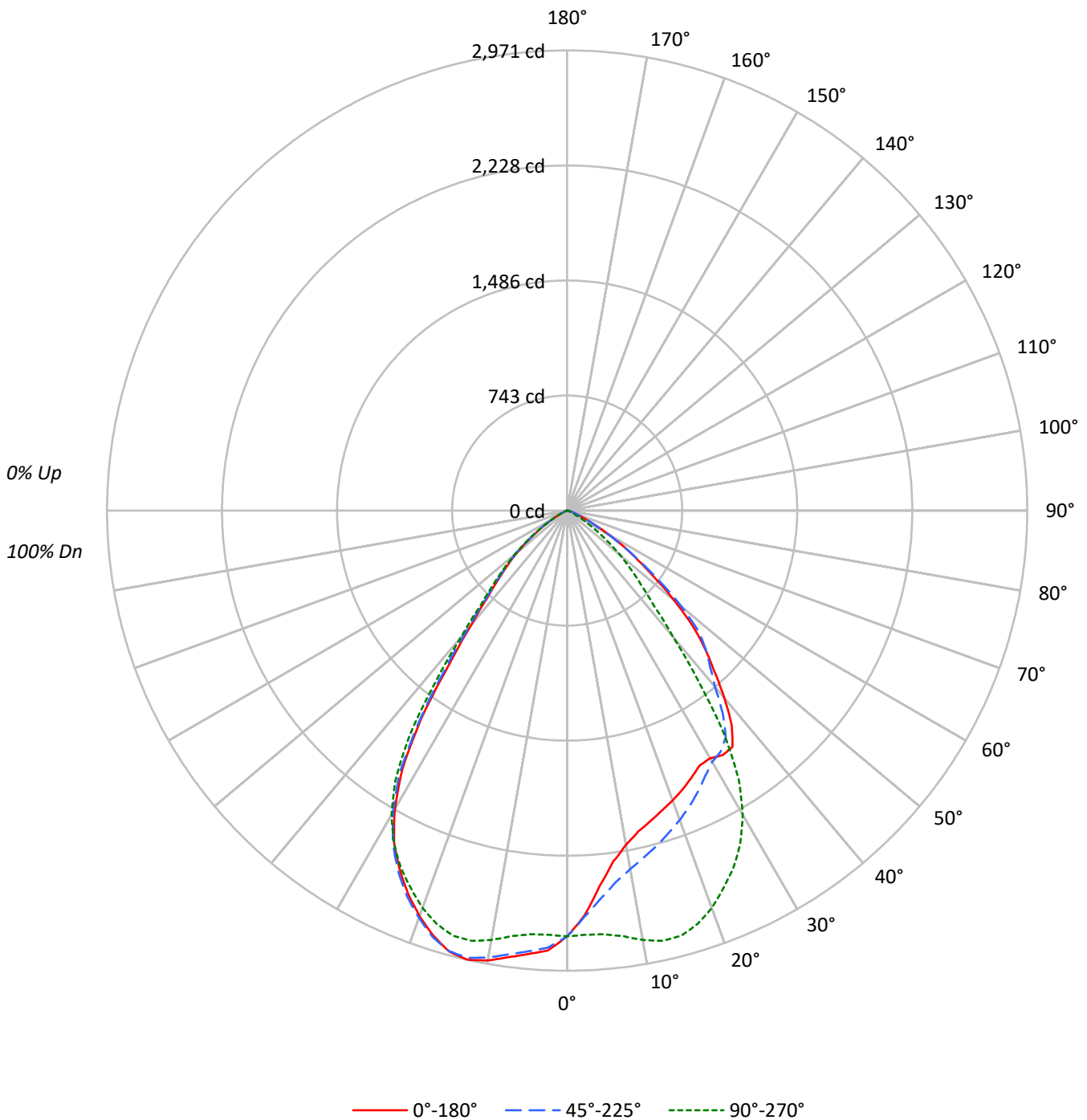
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 97  | 96  | 96  | 94  | 93  | 91  |    |    |    |    | 91  |   |  |   |
| 2   | 105 | 99  | 95  | 91  | 103 | 98  | 93  | 90  | 94  | 91  | 88  | 91  | 88  | 86  | 88  | 86  | 84  | 82  |    |    |    |    | 82  |   |  |   |
| 3   | 99  | 91  | 85  | 80  | 96  | 89  | 84  | 79  | 87  | 82  | 78  | 84  | 80  | 77  | 82  | 78  | 76  | 74  |    |    |    |    | 74  |   |  |   |
| 4   | 92  | 83  | 76  | 71  | 90  | 82  | 76  | 71  | 80  | 74  | 70  | 77  | 73  | 69  | 76  | 72  | 68  | 67  |    |    |    |    | 67  |   |  |   |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 69  | 64  | 73  | 68  | 63  | 72  | 66  | 63  | 70  | 65  | 62  | 60  |    |    |    |    | 60  |   |  |   |
| 6   | 81  | 70  | 63  | 58  | 79  | 69  | 63  | 58  | 68  | 62  | 57  | 66  | 61  | 57  | 65  | 60  | 56  | 55  |    |    |    |    | 55  |   |  |   |
| 7   | 76  | 65  | 58  | 53  | 74  | 64  | 57  | 52  | 63  | 57  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 50  |    |    |    |    | 50  |   |  |   |
| 8   | 71  | 60  | 53  | 48  | 70  | 59  | 53  | 48  | 58  | 52  | 48  | 57  | 52  | 48  | 56  | 51  | 47  | 46  |    |    |    |    | 46  |   |  |   |
| 9   | 67  | 56  | 49  | 44  | 66  | 55  | 49  | 44  | 54  | 48  | 44  | 53  | 48  | 44  | 52  | 47  | 44  | 42  |    |    |    |    | 42  |   |  |   |
| 10  | 63  | 52  | 45  | 41  | 62  | 52  | 45  | 41  | 51  | 45  | 41  | 50  | 44  | 40  | 49  | 44  | 40  | 39  |    |    |    |    | 39  |   |  |   |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 84769 | 84769 | 84769 |
| 5°  | 75212 | 84981 | 88962 |
| 10° | 68573 | 88134 | 92342 |
| 15° | 66268 | 90712 | 94099 |
| 20° | 65322 | 89592 | 91443 |
| 25° | 64680 | 86503 | 87044 |
| 30° | 65734 | 80728 | 79236 |
| 35° | 70067 | 66803 | 61966 |
| 40° | 63501 | 42770 | 38728 |
| 45° | 54808 | 29262 | 27247 |
| 50° | 43243 | 21343 | 20096 |
| 55° | 30015 | 13123 | 12349 |
| 60° | 19112 | 6636  | 5927  |
| 65° | 9537  | 2634  | 1999  |
| 70° | 5274  | 1298  | 712   |
| 75° | 3789  | 941   | 346   |
| 80° | 3072  | 639   | 124   |
| 85° | 3326  | 495   | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 256.2  | 6.1       |
| 10°-20°   | 740.0  | 17.6      |
| 20°-30°   | 1074.1 | 25.5      |
| 30°-40°   | 1057.9 | 25.1      |
| 40°-50°   | 663.1  | 15.8      |
| 50°-60°   | 320.0  | 7.6       |
| 60°-70°   | 77.4   | 1.8       |
| 70°-80°   | 15.6   | 0.4       |
| 80°-90°   | 3.6    | 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°    | 2070.3 | 49.2      |
| 0°-40°    | 3128.2 | 74.3      |
| 0°-60°    | 4111.3 | 97.7      |
| 0°-90°    | 4208.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4208.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2749 | 2749 | 2749 | 2749 | 2749 |      |
| 5°  | 2430 | 2512 | 2745 | 2857 | 2874 | 225  |
| 15° | 2076 | 2239 | 2842 | 2946 | 2948 | 587  |
| 25° | 1901 | 2000 | 2542 | 2577 | 2558 | 880  |
| 35° | 1861 | 1786 | 1775 | 1674 | 1646 | 1126 |
| 45° | 1257 | 1265 | 671  | 643  | 625  | 961  |
| 55° | 558  | 576  | 244  | 241  | 230  | 514  |
| 65° | 131  | 129  | 36   | 31   | 27   | 149  |
| 75° | 32   | 27   | 8    | 4    | 3    | 36   |
| 85° | 9    | 7    | 1    | 0    | 0    | 10   |
| 90° | 0    | 0    | 0    | 0    | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2749.0 | 2749.0 | 2749.0 | 2749.0 | 2749.0 | 2749.0 | 2749.0 | 2749.0 | 2749.0 | 2749.0 | 2749.0 |
| 2.5°  | 2613.2 | 2596.6 | 2565.5 | 2603.1 | 2603.1 | 2582.2 | 2624.0 | 2598.8 | 2619.0 | 2650.8 | 2622.6 |
| 5°    | 2429.8 | 2416.0 | 2390.0 | 2429.8 | 2434.8 | 2415.3 | 2465.9 | 2447.1 | 2476.7 | 2515.7 | 2512.1 |
| 7.5°  | 2284.6 | 2267.2 | 2243.4 | 2284.6 | 2292.5 | 2279.5 | 2327.9 | 2319.2 | 2358.2 | 2408.8 | 2417.5 |
| 10°   | 2190.0 | 2171.9 | 2151.0 | 2188.5 | 2194.3 | 2185.6 | 2234.7 | 2229.7 | 2268.0 | 2326.5 | 2349.6 |
| 12.5° | 2122.8 | 2107.6 | 2084.5 | 2124.2 | 2130.7 | 2118.4 | 2164.7 | 2162.5 | 2202.2 | 2263.6 | 2292.5 |
| 15°   | 2075.8 | 2057.8 | 2036.8 | 2070.8 | 2079.4 | 2065.7 | 2109.8 | 2105.4 | 2145.9 | 2206.6 | 2239.1 |
| 17.5° | 2031.8 | 2015.2 | 1993.5 | 2025.3 | 2033.9 | 2019.5 | 2062.8 | 2055.6 | 2090.3 | 2148.1 | 2181.3 |
| 20°   | 1990.6 | 1972.5 | 1953.0 | 1985.6 | 1990.6 | 1974.0 | 2017.3 | 2007.9 | 2039.0 | 2092.4 | 2125.0 |
| 22.5° | 1948.0 | 1929.2 | 1909.0 | 1940.8 | 1945.8 | 1929.2 | 1968.9 | 1958.1 | 1987.0 | 2035.4 | 2065.0 |
| 25°   | 1901.0 | 1883.7 | 1863.5 | 1893.1 | 1897.4 | 1879.4 | 1921.3 | 1907.5 | 1932.8 | 1975.4 | 2000.0 |
| 27.5° | 1854.1 | 1837.5 | 1815.1 | 1845.4 | 1847.6 | 1830.3 | 1868.5 | 1849.8 | 1870.7 | 1909.7 | 1930.7 |
| 30°   | 1846.1 | 1827.4 | 1804.3 | 1828.8 | 1829.5 | 1807.1 | 1843.3 | 1820.9 | 1832.4 | 1861.3 | 1873.6 |
| 32.5° | 1871.4 | 1852.7 | 1828.8 | 1849.0 | 1846.9 | 1822.3 | 1857.0 | 1829.5 | 1833.1 | 1848.3 | 1845.4 |
| 35°   | 1861.3 | 1838.9 | 1810.8 | 1832.4 | 1832.4 | 1802.8 | 1837.5 | 1805.0 | 1801.4 | 1803.5 | 1785.5 |
| 37.5° | 1746.5 | 1729.1 | 1702.4 | 1723.4 | 1721.2 | 1698.8 | 1725.5 | 1698.8 | 1686.5 | 1681.5 | 1649.0 |
| 40°   | 1577.5 | 1556.5 | 1536.3 | 1558.7 | 1560.8 | 1537.0 | 1571.7 | 1541.3 | 1537.7 | 1523.3 | 1485.0 |
| 42.5° | 1406.3 | 1399.1 | 1379.6 | 1398.3 | 1408.4 | 1388.2 | 1417.1 | 1402.7 | 1404.8 | 1401.2 | 1365.1 |
| 45°   | 1256.8 | 1244.5 | 1230.0 | 1251.7 | 1258.2 | 1248.1 | 1277.0 | 1268.3 | 1277.0 | 1295.0 | 1265.4 |
| 47.5° | 1095.7 | 1083.4 | 1067.5 | 1090.6 | 1102.2 | 1083.4 | 1108.0 | 1105.1 | 1118.1 | 1149.1 | 1146.3 |
| 50°   | 901.4  | 892.7  | 889.9  | 892.7  | 900.0  | 891.3  | 908.6  | 909.4  | 918.0  | 960.6  | 963.5  |
| 52.5° | 713.6  | 711.4  | 701.3  | 710.7  | 710.7  | 697.0  | 714.3  | 706.4  | 715.1  | 743.9  | 762.7  |
| 55°   | 558.3  | 556.2  | 549.7  | 558.3  | 548.9  | 543.9  | 548.9  | 541.0  | 534.5  | 556.9  | 576.4  |
| 57.5° | 434.8  | 427.6  | 419.6  | 423.3  | 422.5  | 411.7  | 417.5  | 408.1  | 403.0  | 411.0  | 428.3  |
| 60°   | 309.9  | 307.7  | 300.5  | 304.1  | 307.0  | 299.0  | 304.8  | 300.5  | 291.8  | 298.3  | 299.0  |
| 62.5° | 205.9  | 207.3  | 203.0  | 203.7  | 201.5  | 200.1  | 203.7  | 205.9  | 203.7  | 200.8  | 201.5  |
| 65°   | 130.7  | 130.0  | 129.3  | 130.0  | 131.5  | 128.6  | 130.7  | 132.2  | 130.0  | 130.0  | 129.3  |
| 67.5° | 86.7   | 84.5   | 82.3   | 83.8   | 85.2   | 83.1   | 85.2   | 84.5   | 85.2   | 84.5   | 82.3   |
| 70°   | 58.5   | 57.8   | 57.1   | 57.8   | 57.8   | 56.3   | 57.8   | 57.1   | 57.8   | 57.1   | 54.9   |
| 72.5° | 42.6   | 42.6   | 41.9   | 42.6   | 42.6   | 41.2   | 41.9   | 40.4   | 41.2   | 40.4   | 39.0   |
| 75°   | 31.8   | 31.8   | 31.1   | 31.8   | 31.1   | 30.3   | 31.1   | 30.3   | 28.9   | 28.9   | 27.4   |
| 77.5° | 23.1   | 23.1   | 23.1   | 23.1   | 23.1   | 22.4   | 22.4   | 21.7   | 20.9   | 20.2   | 20.2   |
| 80°   | 17.3   | 16.6   | 16.6   | 16.6   | 16.6   | 15.9   | 16.6   | 15.9   | 15.2   | 14.4   | 13.7   |
| 82.5° | 12.3   | 13.0   | 12.3   | 12.3   | 12.3   | 11.6   | 12.3   | 11.6   | 11.6   | 10.8   | 9.4    |
| 85°   | 9.4    | 9.4    | 9.4    | 9.4    | 9.4    | 8.7    | 8.7    | 8.7    | 7.9    | 7.9    | 7.2    |
| 87.5° | 5.1    | 5.1    | 5.1    | 5.8    | 5.1    | 5.1    | 5.1    | 4.3    | 4.3    | 3.6    | 3.6    |
| 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):**

|       | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2749.0 | 2749.0 | 2749.0 | 2749.0 | 2749.0 | 2749.0 | 2749.0 | 2749.0 | 2749.0 | 2749.0 | 2749.0 |
| 2.5°  | 2660.2 | 2663.8 | 2655.8 | 2668.1 | 2715.8 | 2677.5 | 2693.4 | 2698.4 | 2734.6 | 2741.1 | 2736.7 |
| 5°    | 2559.0 | 2574.9 | 2585.0 | 2612.5 | 2665.2 | 2637.8 | 2665.9 | 2684.0 | 2730.2 | 2745.4 | 2749.0 |
| 7.5°  | 2479.6 | 2512.8 | 2537.4 | 2582.2 | 2644.3 | 2623.3 | 2665.9 | 2695.6 | 2751.9 | 2771.4 | 2780.8 |
| 10°   | 2420.4 | 2470.9 | 2513.5 | 2574.9 | 2645.0 | 2631.3 | 2686.9 | 2728.8 | 2791.6 | 2814.7 | 2826.3 |
| 12.5° | 2375.6 | 2437.0 | 2494.0 | 2572.0 | 2647.9 | 2641.4 | 2708.6 | 2756.2 | 2822.7 | 2845.8 | 2859.5 |
| 15°   | 2326.5 | 2397.3 | 2463.7 | 2551.1 | 2632.7 | 2631.3 | 2703.5 | 2754.1 | 2822.0 | 2841.5 | 2854.5 |
| 17.5° | 2268.0 | 2343.8 | 2416.8 | 2511.4 | 2592.3 | 2593.7 | 2666.7 | 2716.5 | 2782.9 | 2798.8 | 2807.5 |
| 20°   | 2208.7 | 2283.9 | 2356.8 | 2454.3 | 2533.8 | 2535.9 | 2607.4 | 2653.7 | 2717.2 | 2730.2 | 2732.4 |
| 22.5° | 2145.9 | 2216.0 | 2288.9 | 2385.7 | 2462.3 | 2463.7 | 2534.5 | 2577.8 | 2632.0 | 2638.5 | 2644.3 |
| 25°   | 2074.4 | 2143.0 | 2211.6 | 2307.7 | 2380.6 | 2385.0 | 2449.3 | 2487.5 | 2537.4 | 2542.4 | 2544.6 |
| 27.5° | 2000.0 | 2056.3 | 2122.1 | 2204.4 | 2278.1 | 2275.2 | 2335.9 | 2379.2 | 2424.0 | 2421.1 | 2420.4 |
| 30°   | 1924.9 | 1971.8 | 2012.3 | 2091.7 | 2145.9 | 2148.1 | 2205.1 | 2226.1 | 2273.0 | 2267.2 | 2266.5 |
| 32.5° | 1872.2 | 1884.4 | 1895.3 | 1935.7 | 1987.0 | 1968.9 | 2007.9 | 2033.9 | 2066.4 | 2064.3 | 2065.0 |
| 35°   | 1775.4 | 1753.0 | 1720.5 | 1726.3 | 1757.3 | 1729.1 | 1750.1 | 1749.4 | 1782.6 | 1774.6 | 1784.0 |
| 37.5° | 1610.0 | 1546.4 | 1474.2 | 1433.0 | 1438.8 | 1403.4 | 1396.2 | 1413.5 | 1425.1 | 1402.7 | 1410.6 |
| 40°   | 1433.7 | 1339.8 | 1227.2 | 1133.3 | 1128.2 | 1084.1 | 1076.2 | 1058.9 | 1081.3 | 1062.5 | 1068.3 |
| 42.5° | 1303.7 | 1179.5 | 1031.4 | 917.3  | 892.7  | 855.9  | 834.2  | 831.3  | 837.8  | 824.8  | 821.2  |
| 45°   | 1204.0 | 1071.9 | 902.1  | 771.4  | 743.9  | 704.2  | 682.6  | 674.6  | 675.3  | 671.0  | 667.4  |
| 47.5° | 1087.0 | 954.1  | 782.2  | 648.6  | 617.6  | 580.0  | 558.3  | 553.3  | 556.2  | 550.4  | 546.0  |
| 50°   | 925.2  | 806.1  | 649.3  | 527.3  | 499.8  | 472.4  | 455.0  | 450.0  | 449.3  | 444.9  | 442.0  |
| 52.5° | 751.2  | 652.2  | 516.4  | 414.6  | 390.0  | 363.3  | 351.0  | 344.5  | 345.3  | 340.9  | 336.6  |
| 55°   | 581.4  | 520.0  | 400.1  | 313.5  | 291.1  | 270.1  | 258.6  | 250.6  | 248.5  | 244.1  | 242.0  |
| 57.5° | 432.6  | 391.5  | 299.7  | 226.1  | 213.1  | 192.8  | 181.3  | 171.9  | 170.5  | 168.3  | 167.6  |
| 60°   | 303.4  | 273.7  | 210.9  | 161.1  | 145.9  | 133.6  | 122.1  | 112.7  | 108.3  | 107.6  | 105.5  |
| 62.5° | 196.5  | 178.4  | 138.7  | 107.6  | 96.1   | 87.4   | 75.8   | 69.3   | 66.4   | 63.6   | 64.3   |
| 65°   | 122.1  | 108.3  | 86.7   | 69.3   | 62.8   | 56.3   | 47.7   | 41.9   | 39.0   | 36.1   | 36.8   |
| 67.5° | 75.8   | 67.9   | 54.9   | 44.8   | 40.4   | 35.4   | 28.9   | 24.6   | 22.4   | 20.2   | 18.8   |
| 70°   | 51.3   | 44.1   | 37.6   | 31.8   | 28.9   | 25.3   | 20.9   | 17.3   | 15.9   | 14.4   | 13.0   |
| 72.5° | 36.1   | 32.5   | 27.4   | 23.8   | 21.7   | 18.8   | 15.9   | 13.7   | 12.3   | 10.8   | 9.4    |
| 75°   | 26.0   | 23.1   | 20.2   | 17.3   | 15.9   | 14.4   | 12.3   | 10.8   | 9.4    | 7.9    | 6.5    |
| 77.5° | 18.8   | 16.6   | 14.4   | 13.0   | 12.3   | 10.1   | 8.7    | 7.9    | 7.2    | 5.8    | 4.3    |
| 80°   | 13.0   | 11.6   | 9.4    | 8.7    | 8.7    | 7.2    | 6.5    | 5.8    | 5.1    | 3.6    | 2.9    |
| 82.5° | 8.7    | 7.9    | 7.2    | 6.5    | 5.8    | 5.1    | 5.1    | 3.6    | 2.9    | 2.2    | 1.4    |
| 85°   | 6.5    | 5.8    | 5.1    | 4.3    | 4.3    | 3.6    | 2.9    | 2.2    | 2.2    | 1.4    | 0.7    |
| 87.5° | 3.6    | 3.6    | 2.9    | 2.2    | 2.2    | 1.4    | 1.4    | 0.7    | 0.7    | 0.7    | 0.7    |
| 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):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2749.0 | 2749.0 | 2749.0 | 2749.0 | 2749.0 | 2749.0 | 2749.0 | 2749.0 | 2749.0 | 2749.0 | 2749.0 |
| 2.5°  | 2773.6 | 2775.7 | 2788.0 | 2778.6 | 2802.4 | 2819.8 | 2811.1 | 2830.6 | 2824.1 | 2822.7 | 2845.1 |
| 5°    | 2792.3 | 2797.4 | 2814.0 | 2805.3 | 2831.3 | 2850.1 | 2841.5 | 2863.1 | 2856.6 | 2855.2 | 2878.3 |
| 7.5°  | 2828.5 | 2833.5 | 2848.0 | 2840.7 | 2868.2 | 2884.8 | 2874.0 | 2897.8 | 2889.1 | 2888.4 | 2910.8 |
| 10°   | 2874.0 | 2881.2 | 2893.5 | 2886.2 | 2911.5 | 2926.0 | 2915.1 | 2938.2 | 2930.3 | 2926.7 | 2951.2 |
| 12.5° | 2907.9 | 2913.0 | 2925.2 | 2919.5 | 2944.0 | 2954.9 | 2945.5 | 2967.9 | 2957.7 | 2954.9 | 2976.5 |
| 15°   | 2900.0 | 2905.0 | 2915.1 | 2910.1 | 2933.2 | 2943.3 | 2931.0 | 2955.6 | 2945.5 | 2939.7 | 2959.2 |
| 17.5° | 2849.4 | 2852.3 | 2859.5 | 2854.5 | 2879.0 | 2885.5 | 2871.8 | 2896.3 | 2887.0 | 2876.8 | 2895.6 |
| 20°   | 2775.0 | 2773.6 | 2777.9 | 2775.7 | 2795.9 | 2799.6 | 2790.9 | 2809.0 | 2798.1 | 2792.3 | 2803.2 |
| 22.5° | 2682.6 | 2681.1 | 2684.0 | 2678.2 | 2698.4 | 2700.6 | 2687.6 | 2709.3 | 2698.4 | 2687.6 | 2705.7 |
| 25°   | 2580.0 | 2572.0 | 2570.6 | 2572.8 | 2586.5 | 2588.7 | 2574.9 | 2590.8 | 2577.1 | 2568.4 | 2585.8 |
| 27.5° | 2453.6 | 2443.5 | 2441.3 | 2443.5 | 2457.2 | 2447.1 | 2435.5 | 2447.1 | 2433.4 | 2425.4 | 2436.3 |
| 30°   | 2297.6 | 2283.1 | 2276.6 | 2272.3 | 2286.7 | 2283.1 | 2256.4 | 2269.4 | 2247.7 | 2236.2 | 2244.1 |
| 32.5° | 2087.4 | 2079.4 | 2062.1 | 2052.0 | 2065.7 | 2038.3 | 2021.7 | 2021.7 | 2013.0 | 1993.5 | 1997.8 |
| 35°   | 1795.6 | 1783.3 | 1767.4 | 1758.8 | 1760.9 | 1724.1 | 1696.6 | 1702.4 | 1673.5 | 1668.5 | 1670.6 |
| 37.5° | 1426.5 | 1406.3 | 1400.5 | 1382.4 | 1386.8 | 1354.3 | 1316.7 | 1317.4 | 1302.3 | 1286.4 | 1281.3 |
| 40°   | 1071.9 | 1068.3 | 1062.5 | 1047.3 | 1053.1 | 1017.7 | 1003.2 | 1004.0 | 993.9  | 982.3  | 988.1  |
| 42.5° | 828.5  | 816.9  | 813.3  | 808.2  | 809.7  | 803.9  | 785.1  | 787.3  | 778.6  | 775.7  | 772.8  |
| 45°   | 673.2  | 660.9  | 652.2  | 656.6  | 656.6  | 650.1  | 642.8  | 647.2  | 642.8  | 637.1  | 639.9  |
| 47.5° | 554.7  | 543.2  | 538.8  | 538.1  | 543.2  | 538.8  | 531.6  | 533.0  | 532.3  | 530.2  | 528.7  |
| 50°   | 442.8  | 439.9  | 436.3  | 434.1  | 436.3  | 434.8  | 428.3  | 431.9  | 434.1  | 426.9  | 429.0  |
| 52.5° | 337.3  | 337.3  | 336.6  | 331.5  | 335.9  | 331.5  | 330.8  | 332.2  | 330.1  | 327.2  | 326.5  |
| 55°   | 247.0  | 244.9  | 241.2  | 240.5  | 242.0  | 240.5  | 239.1  | 239.8  | 241.2  | 234.0  | 234.0  |
| 57.5° | 169.0  | 167.6  | 165.4  | 165.4  | 168.3  | 164.7  | 162.5  | 165.4  | 162.5  | 159.6  | 159.6  |
| 60°   | 108.3  | 107.6  | 105.5  | 105.5  | 105.5  | 104.7  | 102.6  | 103.3  | 104.7  | 100.4  | 101.1  |
| 62.5° | 65.0   | 62.8   | 62.1   | 61.4   | 62.1   | 61.4   | 61.4   | 60.7   | 59.9   | 59.9   | 57.8   |
| 65°   | 35.4   | 33.9   | 32.5   | 33.2   | 33.2   | 32.5   | 32.5   | 32.5   | 31.1   | 30.3   | 29.6   |
| 67.5° | 18.1   | 16.6   | 16.6   | 15.9   | 15.9   | 15.9   | 15.9   | 15.2   | 15.2   | 15.2   | 14.4   |
| 70°   | 11.6   | 10.8   | 10.1   | 10.1   | 10.1   | 9.4    | 9.4    | 9.4    | 9.4    | 9.4    | 8.7    |
| 72.5° | 7.9    | 7.2    | 6.5    | 6.5    | 6.5    | 5.8    | 5.8    | 5.8    | 5.8    | 5.1    | 5.1    |
| 75°   | 5.8    | 5.1    | 4.3    | 4.3    | 4.3    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    | 3.6    |
| 77.5° | 3.6    | 2.9    | 2.9    | 2.9    | 2.9    | 2.2    | 2.2    | 2.2    | 2.2    | 2.2    | 1.4    |
| 80°   | 2.2    | 2.2    | 1.4    | 1.4    | 1.4    | 1.4    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 82.5° | 1.4    | 1.4    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.0    |
| 85°   | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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    |





TEST NUMBER: P245386

CATALOG NUMBER: LSR8B40D010 EC8B40827 8LBSW0WH

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2749.0 | 2749.0 | 2749.0 | 2749.0 | 2749.0 | 2749.0 | 2749.0 | 2749.0 |
| 2.5°  | 2837.1 | 2831.3 | 2835.0 | 2861.7 | 2850.1 | 2846.5 | 2816.2 | 2842.9 |
| 5°    | 2871.1 | 2866.7 | 2866.7 | 2897.1 | 2883.3 | 2880.5 | 2850.8 | 2874.0 |
| 7.5°  | 2902.8 | 2898.5 | 2899.2 | 2930.3 | 2919.5 | 2915.1 | 2885.5 | 2908.6 |
| 10°   | 2944.0 | 2941.1 | 2941.9 | 2971.5 | 2959.9 | 2955.6 | 2925.2 | 2949.1 |
| 12.5° | 2968.6 | 2964.2 | 2964.2 | 2996.0 | 2983.0 | 2976.5 | 2947.6 | 2970.7 |
| 15°   | 2949.8 | 2943.3 | 2943.3 | 2975.1 | 2960.6 | 2951.2 | 2926.0 | 2947.6 |
| 17.5° | 2885.5 | 2879.0 | 2879.0 | 2906.5 | 2895.6 | 2881.9 | 2855.9 | 2876.1 |
| 20°   | 2795.9 | 2788.0 | 2785.8 | 2817.6 | 2802.4 | 2790.2 | 2767.1 | 2786.6 |
| 22.5° | 2694.8 | 2691.2 | 2684.7 | 2716.5 | 2702.8 | 2689.8 | 2665.2 | 2680.4 |
| 25°   | 2573.5 | 2567.7 | 2561.2 | 2592.3 | 2578.5 | 2565.5 | 2546.0 | 2558.3 |
| 27.5° | 2422.5 | 2423.3 | 2419.6 | 2444.2 | 2430.5 | 2423.3 | 2399.4 | 2419.6 |
| 30°   | 2239.8 | 2231.8 | 2229.0 | 2257.9 | 2244.8 | 2235.5 | 2205.8 | 2225.3 |
| 32.5° | 2001.4 | 1989.9 | 1974.7 | 2007.2 | 1984.8 | 1976.9 | 1951.6 | 1979.8 |
| 35°   | 1654.7 | 1651.1 | 1637.4 | 1664.9 | 1652.6 | 1638.1 | 1622.2 | 1646.1 |
| 37.5° | 1279.2 | 1282.0 | 1280.6 | 1287.8 | 1280.6 | 1271.2 | 1253.9 | 1245.2 |
| 40°   | 976.5  | 969.3  | 963.5  | 976.5  | 961.4  | 961.4  | 951.2  | 962.1  |
| 42.5° | 765.6  | 762.7  | 770.0  | 772.8  | 764.2  | 762.7  | 761.3  | 760.6  |
| 45°   | 632.0  | 632.0  | 633.4  | 636.3  | 633.4  | 632.0  | 627.7  | 624.8  |
| 47.5° | 520.8  | 523.7  | 520.8  | 530.2  | 525.1  | 523.7  | 515.0  | 518.6  |
| 50°   | 421.8  | 418.2  | 421.8  | 424.7  | 425.4  | 421.1  | 416.8  | 418.9  |
| 52.5° | 327.2  | 321.4  | 320.0  | 324.3  | 321.4  | 321.4  | 318.5  | 317.8  |
| 55°   | 230.4  | 232.6  | 229.0  | 232.6  | 231.1  | 229.0  | 226.8  | 229.7  |
| 57.5° | 156.0  | 156.7  | 155.3  | 157.5  | 153.8  | 154.6  | 153.8  | 153.1  |
| 60°   | 101.1  | 98.2   | 98.2   | 100.4  | 96.8   | 96.8   | 96.1   | 96.1   |
| 62.5° | 57.8   | 57.1   | 57.1   | 56.3   | 55.6   | 55.6   | 55.6   | 54.2   |
| 65°   | 29.6   | 28.9   | 28.2   | 28.2   | 28.2   | 28.2   | 27.4   | 27.4   |
| 67.5° | 14.4   | 13.7   | 13.7   | 14.4   | 13.7   | 13.7   | 13.7   | 13.7   |
| 70°   | 8.7    | 8.7    | 7.9    | 8.7    | 7.9    | 7.9    | 7.9    | 7.9    |
| 72.5° | 5.1    | 5.1    | 5.1    | 5.1    | 5.1    | 5.1    | 5.1    | 5.1    |
| 75°   | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    | 2.9    |
| 77.5° | 2.2    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    | 1.4    |
| 80°   | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    | 0.7    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)