

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P252388

Luminaire Tested: **LE\_6B40D010 EC6B30508027 6LBLWW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252388  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B40D010 EC6B30508027 6LBLWW1LI  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4517.5 lumens  
Efficiency: N/A  
Efficacy: 105.1 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

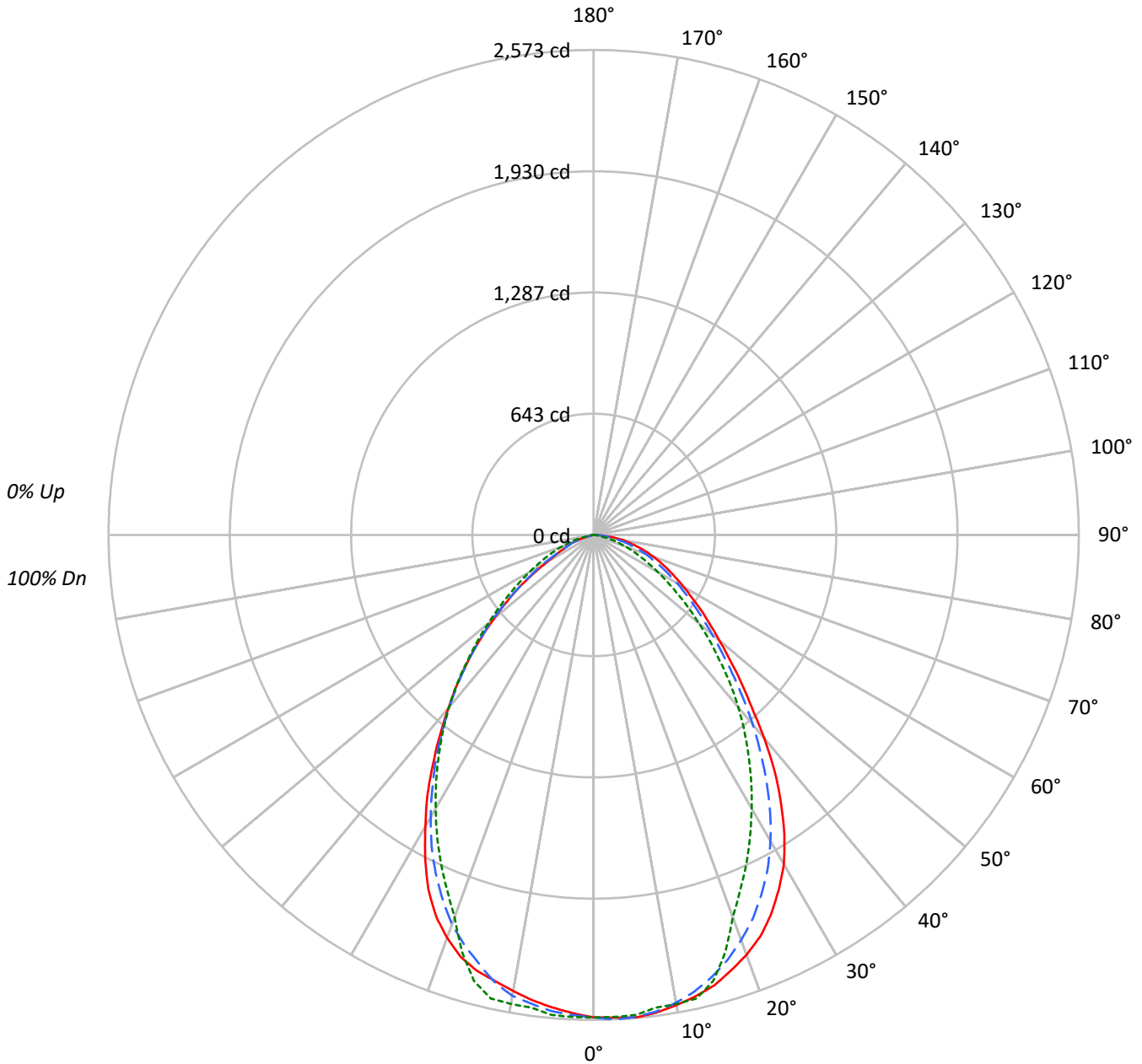
Input Watts (W): 43  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF  | 20  |     |     |     |     |     |     |     |     | 20  |     |     |     |     |     |     |     |     | 20 |    |   |  |  |  |  |  |  | 20 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |     | 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 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 93  | 92  | 90  | 88  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 103 | 96  | 90  | 86  | 100 | 94  | 89  | 85  | 91  | 86  | 83  | 88  | 84  | 81  | 85  | 82  | 79  | 77  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 95  | 86  | 80  | 74  | 93  | 85  | 79  | 73  | 82  | 77  | 72  | 79  | 75  | 71  | 77  | 73  | 70  | 68  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 88  | 78  | 71  | 65  | 86  | 77  | 70  | 64  | 74  | 68  | 64  | 72  | 67  | 63  | 70  | 66  | 62  | 60  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 82  | 71  | 63  | 57  | 80  | 70  | 63  | 57  | 68  | 62  | 57  | 66  | 60  | 56  | 64  | 59  | 55  | 54  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 77  | 65  | 57  | 51  | 75  | 64  | 57  | 51  | 62  | 56  | 51  | 61  | 55  | 50  | 59  | 54  | 50  | 48  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 72  | 60  | 52  | 46  | 70  | 59  | 51  | 46  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 49  | 45  | 44  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 67  | 55  | 47  | 42  | 66  | 54  | 47  | 42  | 53  | 46  | 42  | 52  | 46  | 42  | 51  | 45  | 41  | 40  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 63  | 51  | 43  | 38  | 62  | 50  | 43  | 38  | 49  | 43  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 36  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 59  | 47  | 40  | 35  | 58  | 47  | 40  | 35  | 46  | 40  | 35  | 45  | 39  | 35  | 44  | 39  | 35  | 33  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°     | 90°    | 180°   |
|-----|--------|--------|--------|
| 0°  | 166990 | 166990 | 166990 |
| 5°  | 168283 | 167418 | 164805 |
| 10° | 167804 | 167367 | 162743 |
| 15° | 167045 | 165478 | 161662 |
| 20° | 164550 | 149783 | 157865 |
| 25° | 160088 | 138075 | 149326 |
| 30° | 152008 | 126214 | 134478 |
| 35° | 137936 | 114114 | 118343 |
| 40° | 119751 | 101637 | 101926 |
| 45° | 102136 | 87411  | 86488  |
| 50° | 88403  | 73889  | 69840  |
| 55° | 79029  | 61638  | 54074  |
| 60° | 72013  | 51175  | 36430  |
| 65° | 67229  | 42082  | 27185  |
| 70° | 64054  | 34240  | 22814  |
| 75° | 60346  | 24300  | 7537   |
| 80° | 57445  | 12473  | 2480   |
| 85° | 47234  | 7486   | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 241.7  | 5.4       |
| 10°-20°   | 676.1  | 15.0      |
| 20°-30°   | 933.2  | 20.7      |
| 30°-40°   | 949.6  | 21.0      |
| 40°-50°   | 763.2  | 16.9      |
| 50°-60°   | 507.4  | 11.2      |
| 60°-70°   | 289.2  | 6.4       |
| 70°-80°   | 129.9  | 2.9       |
| 80°-90°   | 27.4   | 0.6       |
| 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°    | 1850.9 | 41.0      |
| 0°-40°    | 2800.5 | 62.0      |
| 0°-60°    | 4071.1 | 90.1      |
| 0°-90°    | 4517.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4517.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 2560 | 2560 | 2560 | 2560 | 2560 |      |
| 5°  | 2570 | 2566 | 2556 | 2536 | 2516 | 244  |
| 15° | 2473 | 2427 | 2450 | 2354 | 2394 | 696  |
| 25° | 2224 | 2104 | 1918 | 1981 | 2074 | 1019 |
| 35° | 1732 | 1599 | 1433 | 1459 | 1486 | 1076 |
| 45° | 1107 | 1040 | 947  | 937  | 937  | 858  |
| 55° | 695  | 648  | 542  | 482  | 475  | 624  |
| 65° | 436  | 389  | 273  | 176  | 176  | 434  |
| 75° | 239  | 200  | 96   | 40   | 30   | 256  |
| 85° | 63   | 43   | 10   | 3    | 0    | 75   |
| 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°    | 2559.6 | 2559.6 | 2559.6 | 2559.6 | 2559.6 | 2559.6 | 2559.6 | 2559.6 | 2559.6 | 2559.6 | 2559.6 |
| 2.5°  | 2563.0 | 2576.2 | 2573.0 | 2569.6 | 2573.0 | 2569.6 | 2563.0 | 2563.0 | 2556.4 | 2556.4 | 2573.0 |
| 5°    | 2569.6 | 2576.2 | 2573.0 | 2569.6 | 2569.6 | 2573.0 | 2559.6 | 2559.6 | 2553.0 | 2549.6 | 2566.2 |
| 7.5°  | 2556.4 | 2566.2 | 2559.6 | 2559.6 | 2556.4 | 2559.6 | 2546.4 | 2546.4 | 2536.4 | 2533.0 | 2549.6 |
| 10°   | 2533.0 | 2546.4 | 2539.8 | 2539.8 | 2539.8 | 2533.0 | 2526.4 | 2523.1 | 2513.1 | 2509.8 | 2519.8 |
| 12.5° | 2506.5 | 2516.5 | 2513.1 | 2506.5 | 2506.5 | 2506.5 | 2493.1 | 2489.9 | 2476.5 | 2469.9 | 2479.9 |
| 15°   | 2473.2 | 2479.9 | 2476.5 | 2473.2 | 2466.6 | 2466.6 | 2453.2 | 2446.6 | 2433.4 | 2420.0 | 2426.6 |
| 17.5° | 2423.4 | 2433.4 | 2426.6 | 2423.4 | 2413.4 | 2413.4 | 2400.1 | 2393.5 | 2373.5 | 2360.2 | 2363.5 |
| 20°   | 2370.1 | 2373.5 | 2370.1 | 2363.5 | 2353.5 | 2350.2 | 2336.9 | 2323.6 | 2307.0 | 2290.4 | 2287.1 |
| 22.5° | 2307.0 | 2310.4 | 2300.4 | 2293.8 | 2283.8 | 2280.4 | 2263.8 | 2253.9 | 2227.2 | 2207.2 | 2204.0 |
| 25°   | 2223.9 | 2227.2 | 2227.2 | 2210.6 | 2204.0 | 2197.4 | 2180.8 | 2164.1 | 2140.8 | 2114.2 | 2104.2 |
| 27.5° | 2124.1 | 2134.1 | 2127.5 | 2110.9 | 2097.6 | 2094.2 | 2077.6 | 2064.4 | 2034.4 | 2011.1 | 1997.9 |
| 30°   | 2017.8 | 2014.5 | 2011.1 | 2001.1 | 1981.2 | 1977.9 | 1961.2 | 1944.6 | 1921.4 | 1891.5 | 1874.9 |
| 32.5° | 1881.5 | 1881.5 | 1878.1 | 1868.2 | 1848.2 | 1841.6 | 1828.4 | 1808.4 | 1781.8 | 1758.5 | 1741.9 |
| 35°   | 1731.9 | 1735.2 | 1731.9 | 1712.0 | 1698.6 | 1692.0 | 1685.4 | 1662.1 | 1638.9 | 1612.2 | 1599.0 |
| 37.5° | 1575.6 | 1565.8 | 1569.0 | 1552.4 | 1535.8 | 1542.5 | 1522.5 | 1512.5 | 1485.9 | 1466.0 | 1452.6 |
| 40°   | 1406.1 | 1412.8 | 1399.5 | 1392.9 | 1382.9 | 1372.9 | 1372.9 | 1356.2 | 1343.0 | 1319.8 | 1313.1 |
| 42.5° | 1239.9 | 1249.9 | 1246.6 | 1239.9 | 1226.6 | 1230.0 | 1213.4 | 1206.8 | 1190.1 | 1180.1 | 1170.1 |
| 45°   | 1107.0 | 1107.0 | 1107.0 | 1100.4 | 1097.0 | 1090.4 | 1080.4 | 1070.4 | 1060.4 | 1047.1 | 1040.5 |
| 47.5° | 977.4  | 977.4  | 980.6  | 974.0  | 967.4  | 964.0  | 957.4  | 957.4  | 940.8  | 927.5  | 920.8  |
| 50°   | 871.0  | 871.0  | 871.0  | 864.2  | 857.6  | 857.6  | 851.0  | 844.4  | 834.4  | 824.4  | 817.8  |
| 52.5° | 774.5  | 774.5  | 774.5  | 767.9  | 764.6  | 761.2  | 757.9  | 754.6  | 741.2  | 734.6  | 728.0  |
| 55°   | 694.8  | 691.5  | 691.5  | 688.1  | 681.5  | 681.5  | 678.1  | 671.5  | 661.5  | 651.5  | 648.2  |
| 57.5° | 615.0  | 618.2  | 615.0  | 615.0  | 608.4  | 608.4  | 601.6  | 598.4  | 588.4  | 581.8  | 575.1  |
| 60°   | 551.9  | 551.9  | 551.9  | 548.5  | 541.9  | 545.1  | 538.5  | 535.2  | 525.2  | 515.2  | 508.6  |
| 62.5° | 488.6  | 492.0  | 492.0  | 488.6  | 482.0  | 482.0  | 478.8  | 475.4  | 465.4  | 455.4  | 445.5  |
| 65°   | 435.5  | 435.5  | 435.5  | 432.1  | 428.9  | 428.9  | 425.5  | 422.1  | 412.2  | 398.9  | 388.9  |
| 67.5° | 385.6  | 382.2  | 382.2  | 382.2  | 379.0  | 375.6  | 372.4  | 369.0  | 359.0  | 349.0  | 335.8  |
| 70°   | 335.8  | 335.8  | 335.8  | 332.4  | 325.8  | 329.1  | 325.8  | 322.5  | 312.5  | 302.5  | 292.5  |
| 72.5° | 289.2  | 289.2  | 285.9  | 282.5  | 282.5  | 279.2  | 279.2  | 275.9  | 266.0  | 252.6  | 242.6  |
| 75°   | 239.4  | 239.4  | 239.4  | 239.4  | 232.8  | 236.0  | 229.4  | 226.0  | 219.4  | 209.4  | 199.5  |
| 77.5° | 196.1  | 196.1  | 196.1  | 192.8  | 189.5  | 189.5  | 186.1  | 182.9  | 172.9  | 166.2  | 152.9  |
| 80°   | 152.9  | 152.9  | 152.9  | 152.9  | 149.6  | 146.2  | 143.0  | 139.6  | 133.0  | 123.0  | 113.0  |
| 82.5° | 113.0  | 113.0  | 109.8  | 109.8  | 109.8  | 106.4  | 103.0  | 99.8   | 93.1   | 86.4   | 79.8   |
| 85°   | 63.1   | 66.5   | 66.5   | 59.9   | 63.1   | 59.9   | 59.9   | 53.2   | 53.2   | 46.5   | 43.2   |
| 87.5° | 23.2   | 20.0   | 20.0   | 20.0   | 20.0   | 20.0   | 20.0   | 16.6   | 16.6   | 16.6   | 13.2   |
| 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):**

|       | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2559.6 | 2559.6 | 2559.6 | 2559.6 | 2559.6 | 2559.6 | 2559.6 | 2559.6 | 2559.6 | 2559.6 | 2559.6 |
| 2.5°  | 2559.6 | 2556.4 | 2569.6 | 2569.6 | 2549.6 | 2559.6 | 2563.0 | 2556.4 | 2556.4 | 2559.6 | 2549.6 |
| 5°    | 2553.0 | 2546.4 | 2559.6 | 2563.0 | 2543.0 | 2553.0 | 2556.4 | 2549.6 | 2553.0 | 2556.4 | 2543.0 |
| 7.5°  | 2529.8 | 2529.8 | 2539.8 | 2543.0 | 2523.1 | 2533.0 | 2533.0 | 2526.4 | 2529.8 | 2529.8 | 2519.8 |
| 10°   | 2506.5 | 2496.5 | 2506.5 | 2506.5 | 2489.9 | 2493.1 | 2499.9 | 2496.5 | 2509.8 | 2526.4 | 2526.4 |
| 12.5° | 2463.2 | 2453.2 | 2469.9 | 2469.9 | 2459.9 | 2473.2 | 2489.9 | 2499.9 | 2513.1 | 2519.8 | 2499.9 |
| 15°   | 2410.1 | 2413.4 | 2443.2 | 2466.6 | 2456.6 | 2476.5 | 2493.1 | 2486.5 | 2469.9 | 2450.0 | 2420.0 |
| 17.5° | 2340.2 | 2330.2 | 2356.9 | 2370.1 | 2356.9 | 2363.5 | 2376.9 | 2363.5 | 2336.9 | 2320.2 | 2280.4 |
| 20°   | 2260.5 | 2233.9 | 2233.9 | 2227.2 | 2204.0 | 2204.0 | 2200.6 | 2177.4 | 2167.4 | 2157.4 | 2140.8 |
| 22.5° | 2170.8 | 2140.8 | 2130.9 | 2110.9 | 2091.0 | 2087.6 | 2077.6 | 2054.4 | 2041.1 | 2034.4 | 2014.5 |
| 25°   | 2067.6 | 2041.1 | 2024.5 | 2004.5 | 1974.6 | 1968.0 | 1958.0 | 1934.8 | 1928.0 | 1918.1 | 1901.5 |
| 27.5° | 1961.2 | 1928.0 | 1904.8 | 1884.9 | 1858.2 | 1854.9 | 1835.0 | 1818.4 | 1805.0 | 1798.4 | 1785.1 |
| 30°   | 1838.2 | 1801.8 | 1785.1 | 1758.5 | 1738.6 | 1731.9 | 1715.2 | 1692.0 | 1682.0 | 1675.4 | 1665.4 |
| 32.5° | 1702.0 | 1672.1 | 1655.5 | 1632.2 | 1605.6 | 1608.9 | 1589.0 | 1569.0 | 1562.4 | 1555.8 | 1545.8 |
| 35°   | 1569.0 | 1539.1 | 1519.1 | 1499.2 | 1482.6 | 1476.0 | 1462.6 | 1446.0 | 1436.1 | 1432.8 | 1426.1 |
| 37.5° | 1422.8 | 1399.5 | 1382.9 | 1362.9 | 1349.6 | 1343.0 | 1336.4 | 1319.8 | 1313.1 | 1313.1 | 1299.8 |
| 40°   | 1279.9 | 1259.9 | 1246.6 | 1236.6 | 1220.0 | 1216.6 | 1210.0 | 1200.0 | 1196.8 | 1193.4 | 1183.4 |
| 42.5° | 1150.1 | 1123.6 | 1113.6 | 1107.0 | 1097.0 | 1090.4 | 1087.0 | 1080.4 | 1077.0 | 1073.8 | 1063.8 |
| 45°   | 1027.1 | 1003.9 | 994.0  | 987.2  | 977.4  | 974.0  | 970.6  | 960.8  | 954.0  | 947.4  | 944.1  |
| 47.5° | 907.5  | 890.9  | 887.6  | 871.0  | 864.2  | 857.6  | 851.0  | 844.4  | 841.0  | 837.8  | 824.4  |
| 50°   | 804.5  | 794.5  | 777.9  | 767.9  | 761.2  | 757.9  | 744.6  | 734.6  | 731.4  | 728.0  | 718.0  |
| 52.5° | 711.4  | 698.1  | 688.1  | 671.5  | 668.1  | 661.5  | 654.9  | 641.6  | 634.9  | 631.6  | 621.6  |
| 55°   | 628.2  | 618.2  | 605.0  | 591.8  | 581.8  | 578.4  | 568.5  | 555.1  | 548.5  | 541.9  | 535.2  |
| 57.5° | 558.5  | 541.9  | 528.5  | 515.2  | 508.6  | 498.6  | 488.6  | 482.0  | 472.0  | 462.1  | 452.1  |
| 60°   | 492.0  | 478.8  | 462.1  | 448.8  | 442.1  | 435.5  | 422.1  | 412.2  | 402.2  | 392.2  | 382.2  |
| 62.5° | 428.9  | 415.5  | 398.9  | 385.6  | 379.0  | 372.4  | 359.0  | 349.0  | 339.1  | 329.1  | 315.8  |
| 65°   | 372.4  | 359.0  | 345.8  | 332.4  | 325.8  | 319.1  | 305.9  | 292.5  | 282.5  | 272.6  | 259.2  |
| 67.5° | 325.8  | 309.1  | 295.9  | 282.5  | 275.9  | 269.2  | 256.0  | 246.0  | 232.8  | 222.8  | 209.4  |
| 70°   | 275.9  | 262.6  | 252.6  | 239.4  | 232.8  | 226.0  | 212.8  | 199.5  | 189.5  | 179.5  | 166.2  |
| 72.5° | 232.8  | 216.1  | 206.1  | 192.8  | 186.1  | 182.9  | 169.5  | 159.6  | 149.6  | 136.2  | 126.4  |
| 75°   | 186.1  | 172.9  | 159.6  | 149.6  | 143.0  | 139.6  | 126.4  | 116.4  | 106.4  | 96.4   | 86.4   |
| 77.5° | 143.0  | 133.0  | 119.6  | 109.8  | 103.0  | 99.8   | 86.4   | 76.5   | 66.5   | 59.9   | 49.9   |
| 80°   | 106.4  | 93.1   | 86.4   | 76.5   | 73.1   | 66.5   | 59.9   | 49.9   | 43.2   | 33.2   | 26.6   |
| 82.5° | 73.1   | 63.1   | 56.5   | 49.9   | 46.5   | 43.2   | 36.6   | 29.9   | 23.2   | 20.0   | 16.6   |
| 85°   | 39.9   | 33.2   | 29.9   | 26.6   | 23.2   | 23.2   | 20.0   | 16.6   | 13.2   | 10.0   | 6.6    |
| 87.5° | 13.2   | 10.0   | 10.0   | 10.0   | 10.0   | 6.6    | 6.6    | 6.6    | 3.4    | 3.4    | 3.4    |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2559.6 | 2559.6 | 2559.6 | 2559.6 | 2559.6 | 2559.6 | 2559.6 | 2559.6 | 2559.6 | 2559.6 | 2559.6 |
| 2.5°  | 2556.4 | 2556.4 | 2556.4 | 2553.0 | 2553.0 | 2553.0 | 2549.6 | 2563.0 | 2549.6 | 2546.4 | 2556.4 |
| 5°    | 2553.0 | 2546.4 | 2546.4 | 2546.4 | 2546.4 | 2543.0 | 2539.8 | 2546.4 | 2536.4 | 2533.0 | 2533.0 |
| 7.5°  | 2533.0 | 2529.8 | 2529.8 | 2526.4 | 2523.1 | 2519.8 | 2516.5 | 2519.8 | 2509.8 | 2506.5 | 2506.5 |
| 10°   | 2536.4 | 2529.8 | 2529.8 | 2519.8 | 2513.1 | 2503.1 | 2493.1 | 2496.5 | 2483.2 | 2473.2 | 2473.2 |
| 12.5° | 2496.5 | 2479.9 | 2469.9 | 2459.9 | 2453.2 | 2450.0 | 2436.6 | 2443.2 | 2430.0 | 2426.6 | 2426.6 |
| 15°   | 2406.8 | 2386.8 | 2370.1 | 2363.5 | 2363.5 | 2356.9 | 2346.9 | 2360.2 | 2353.5 | 2356.9 | 2373.5 |
| 17.5° | 2267.1 | 2257.1 | 2247.1 | 2243.9 | 2247.1 | 2253.9 | 2260.5 | 2280.4 | 2280.4 | 2290.4 | 2307.0 |
| 20°   | 2144.1 | 2137.5 | 2144.1 | 2144.1 | 2147.5 | 2160.8 | 2174.0 | 2190.6 | 2197.4 | 2207.2 | 2230.5 |
| 22.5° | 2024.5 | 2024.5 | 2031.1 | 2041.1 | 2037.8 | 2061.0 | 2064.4 | 2094.2 | 2094.2 | 2114.2 | 2134.1 |
| 25°   | 1908.1 | 1908.1 | 1914.8 | 1918.1 | 1924.8 | 1938.0 | 1951.4 | 1974.6 | 1981.2 | 2001.1 | 2017.8 |
| 27.5° | 1795.1 | 1791.8 | 1791.8 | 1795.1 | 1801.8 | 1818.4 | 1825.0 | 1851.6 | 1861.6 | 1874.9 | 1891.5 |
| 30°   | 1668.8 | 1665.4 | 1672.1 | 1678.8 | 1675.4 | 1692.0 | 1702.0 | 1722.0 | 1728.6 | 1741.9 | 1755.2 |
| 32.5° | 1549.1 | 1549.1 | 1549.1 | 1555.8 | 1555.8 | 1569.0 | 1569.0 | 1592.2 | 1592.2 | 1602.2 | 1615.6 |
| 35°   | 1426.1 | 1426.1 | 1429.4 | 1432.8 | 1436.1 | 1439.4 | 1442.8 | 1456.0 | 1459.4 | 1462.6 | 1469.2 |
| 37.5° | 1309.8 | 1306.4 | 1309.8 | 1309.8 | 1303.1 | 1316.4 | 1316.4 | 1329.8 | 1319.8 | 1329.8 | 1333.0 |
| 40°   | 1190.1 | 1190.1 | 1186.8 | 1186.8 | 1186.8 | 1193.4 | 1186.8 | 1196.8 | 1190.1 | 1196.8 | 1193.4 |
| 42.5° | 1067.1 | 1067.1 | 1060.4 | 1067.1 | 1063.8 | 1063.8 | 1063.8 | 1070.4 | 1060.4 | 1067.1 | 1070.4 |
| 45°   | 944.1  | 940.8  | 940.8  | 937.4  | 937.4  | 937.4  | 940.8  | 940.8  | 937.4  | 944.1  | 944.1  |
| 47.5° | 824.4  | 821.1  | 821.1  | 821.1  | 821.1  | 824.4  | 814.4  | 821.1  | 814.4  | 814.4  | 814.4  |
| 50°   | 721.4  | 718.0  | 714.8  | 711.4  | 708.0  | 708.0  | 704.8  | 704.8  | 698.1  | 694.8  | 691.5  |
| 52.5° | 621.6  | 618.2  | 611.6  | 611.6  | 608.4  | 605.0  | 595.0  | 595.0  | 585.1  | 581.8  | 581.8  |
| 55°   | 531.9  | 521.9  | 518.6  | 511.9  | 511.9  | 505.2  | 498.6  | 492.0  | 482.0  | 475.4  | 475.4  |
| 57.5° | 448.8  | 438.8  | 432.1  | 428.9  | 425.5  | 418.9  | 405.5  | 402.2  | 388.9  | 385.6  | 382.2  |
| 60°   | 375.6  | 365.6  | 355.8  | 349.0  | 345.8  | 335.8  | 322.5  | 315.8  | 309.1  | 299.1  | 289.2  |
| 62.5° | 305.9  | 295.9  | 282.5  | 279.2  | 272.6  | 262.6  | 252.6  | 242.6  | 236.0  | 226.0  | 219.4  |
| 65°   | 246.0  | 236.0  | 226.0  | 219.4  | 212.8  | 202.8  | 192.8  | 182.9  | 176.1  | 172.9  | 169.5  |
| 67.5° | 199.5  | 186.1  | 176.1  | 172.9  | 166.2  | 159.6  | 149.6  | 146.2  | 139.6  | 139.6  | 139.6  |
| 70°   | 156.2  | 146.2  | 136.2  | 133.0  | 129.6  | 123.0  | 116.4  | 116.4  | 116.4  | 116.4  | 116.4  |
| 72.5° | 116.4  | 109.8  | 99.8   | 96.4   | 93.1   | 89.8   | 83.1   | 86.4   | 83.1   | 83.1   | 83.1   |
| 75°   | 73.1   | 66.5   | 59.9   | 56.5   | 53.2   | 49.9   | 46.5   | 43.2   | 39.9   | 36.6   | 36.6   |
| 77.5° | 39.9   | 33.2   | 29.9   | 26.6   | 26.6   | 23.2   | 20.0   | 20.0   | 16.6   | 16.6   | 16.6   |
| 80°   | 23.2   | 20.0   | 16.6   | 13.2   | 13.2   | 10.0   | 10.0   | 10.0   | 10.0   | 6.6    | 6.6    |
| 82.5° | 13.2   | 10.0   | 6.6    | 6.6    | 6.6    | 6.6    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    |
| 85°   | 6.6    | 6.6    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 0.0    |
| 87.5° | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    |
| 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: P252388

CATALOG NUMBER: LE\_6B40D010 EC6B30508027 6LBLWW1LI

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2559.6 | 2559.6 | 2559.6 | 2559.6 | 2559.6 | 2559.6 | 2559.6 | 2559.6 |
| 2.5°  | 2539.8 | 2549.6 | 2539.8 | 2549.6 | 2549.6 | 2549.6 | 2549.6 | 2539.8 |
| 5°    | 2523.1 | 2529.8 | 2519.8 | 2526.4 | 2529.8 | 2526.4 | 2526.4 | 2516.5 |
| 7.5°  | 2493.1 | 2499.9 | 2489.9 | 2499.9 | 2503.1 | 2499.9 | 2496.5 | 2489.9 |
| 10°   | 2463.2 | 2466.6 | 2456.6 | 2463.2 | 2469.9 | 2469.9 | 2466.6 | 2456.6 |
| 12.5° | 2416.8 | 2426.6 | 2416.8 | 2423.4 | 2430.0 | 2433.4 | 2433.4 | 2423.4 |
| 15°   | 2363.5 | 2380.1 | 2373.5 | 2383.5 | 2393.5 | 2396.8 | 2396.8 | 2393.5 |
| 17.5° | 2310.4 | 2327.0 | 2317.0 | 2333.6 | 2343.6 | 2350.2 | 2353.5 | 2346.9 |
| 20°   | 2233.9 | 2253.9 | 2247.1 | 2260.5 | 2273.8 | 2283.8 | 2283.8 | 2273.8 |
| 22.5° | 2134.1 | 2160.8 | 2157.4 | 2167.4 | 2184.0 | 2187.4 | 2194.0 | 2187.4 |
| 25°   | 2024.5 | 2044.4 | 2041.1 | 2051.0 | 2071.0 | 2071.0 | 2074.4 | 2074.4 |
| 27.5° | 1898.1 | 1918.1 | 1914.8 | 1921.4 | 1934.8 | 1938.0 | 1941.4 | 1934.8 |
| 30°   | 1761.9 | 1771.8 | 1771.8 | 1781.8 | 1791.8 | 1795.1 | 1795.1 | 1785.1 |
| 32.5° | 1612.2 | 1625.5 | 1632.2 | 1628.9 | 1638.9 | 1645.5 | 1642.1 | 1642.1 |
| 35°   | 1476.0 | 1479.2 | 1482.6 | 1485.9 | 1489.2 | 1495.9 | 1489.2 | 1485.9 |
| 37.5° | 1329.8 | 1339.6 | 1333.0 | 1339.6 | 1346.2 | 1343.0 | 1339.6 | 1339.6 |
| 40°   | 1196.8 | 1200.0 | 1193.4 | 1200.0 | 1203.4 | 1203.4 | 1203.4 | 1196.8 |
| 42.5° | 1063.8 | 1070.4 | 1063.8 | 1070.4 | 1070.4 | 1070.4 | 1070.4 | 1067.1 |
| 45°   | 930.8  | 937.4  | 937.4  | 940.8  | 940.8  | 937.4  | 937.4  | 937.4  |
| 47.5° | 807.8  | 814.4  | 807.8  | 814.4  | 817.8  | 811.1  | 811.1  | 811.1  |
| 50°   | 691.5  | 688.1  | 688.1  | 691.5  | 691.5  | 691.5  | 691.5  | 688.1  |
| 52.5° | 571.8  | 575.1  | 575.1  | 575.1  | 578.4  | 575.1  | 578.4  | 578.4  |
| 55°   | 468.8  | 468.8  | 468.8  | 472.0  | 468.8  | 468.8  | 472.0  | 475.4  |
| 57.5° | 375.6  | 372.4  | 369.0  | 369.0  | 372.4  | 369.0  | 369.0  | 369.0  |
| 60°   | 289.2  | 285.9  | 282.5  | 282.5  | 282.5  | 282.5  | 282.5  | 279.2  |
| 62.5° | 216.1  | 216.1  | 216.1  | 219.4  | 219.4  | 219.4  | 219.4  | 222.8  |
| 65°   | 172.9  | 172.9  | 172.9  | 172.9  | 172.9  | 172.9  | 172.9  | 176.1  |
| 67.5° | 139.6  | 139.6  | 139.6  | 143.0  | 143.0  | 143.0  | 143.0  | 143.0  |
| 70°   | 116.4  | 116.4  | 119.6  | 116.4  | 119.6  | 119.6  | 119.6  | 119.6  |
| 72.5° | 79.8   | 79.8   | 79.8   | 79.8   | 79.8   | 76.5   | 79.8   | 76.5   |
| 75°   | 33.2   | 33.2   | 33.2   | 33.2   | 33.2   | 33.2   | 33.2   | 29.9   |
| 77.5° | 13.2   | 13.2   | 13.2   | 13.2   | 13.2   | 13.2   | 13.2   | 13.2   |
| 80°   | 6.6    | 6.6    | 6.6    | 6.6    | 6.6    | 6.6    | 6.6    | 6.6    |
| 82.5° | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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— 0°-180°    - - 45°-225°    - - - - 90°-270°















(END OF REPORT)