

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: P249508

Luminaire Tested: **LSR8B90D010 EC8B90930 8LBDW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249508  
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: LSR8B90D010 EC8B90930 8LBDW0B  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6986.1 lumens  
Efficiency: N/A  
Efficacy: 81.1 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

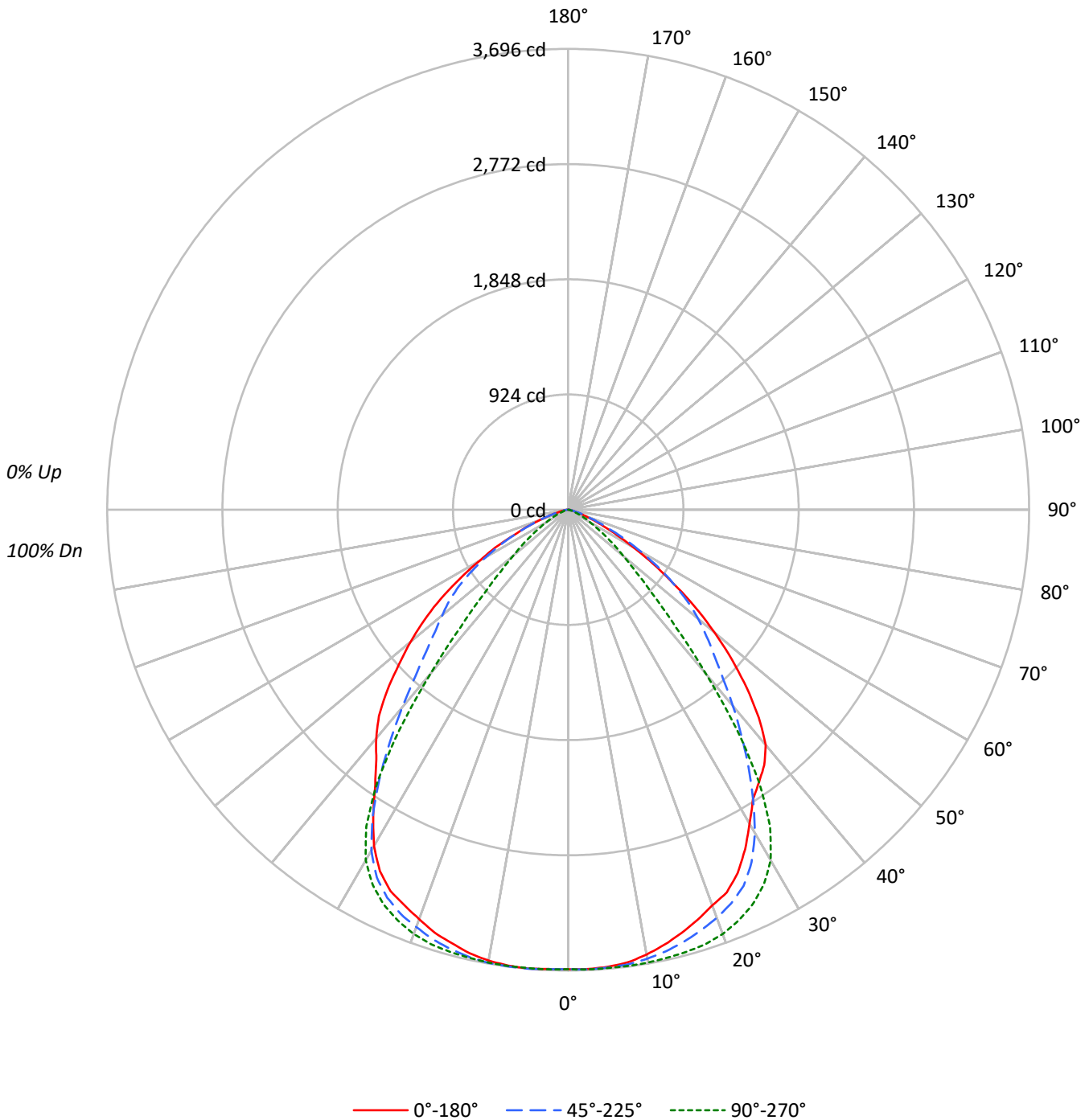
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 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°    | 351.8  | 5.0       |
| 10°-20°   | 1021.6 | 14.6      |
| 20°-30°   | 1550.6 | 22.2      |
| 30°-40°   | 1628.6 | 23.3      |
| 40°-50°   | 1221.0 | 17.5      |
| 50°-60°   | 783.4  | 11.2      |
| 60°-70°   | 335.1  | 4.8       |
| 70°-80°   | 79.2   | 1.1       |
| 80°-90°   | 14.7   | 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°    | 2924.0 | 41.9      |
| 0°-40°    | 4552.6 | 65.2      |
| 0°-60°    | 6557.0 | 93.9      |
| 0°-90°    | 6986.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6986.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 3686 | 3686 | 3686 | 3686 | 3686 |      |
| 5°  | 3680 | 3686 | 3690 | 3696 | 3694 | 350  |
| 15° | 3514 | 3587 | 3670 | 3646 | 3601 | 991  |
| 25° | 3215 | 3328 | 3496 | 3433 | 3373 | 1469 |
| 35° | 2667 | 2519 | 2669 | 2637 | 2697 | 1674 |
| 45° | 2026 | 1656 | 952  | 1608 | 2054 | 1552 |
| 55° | 1025 | 1025 | 354  | 1068 | 1248 | 930  |
| 65° | 309  | 364  | 113  | 469  | 477  | 330  |
| 75° | 48   | 55   | 16   | 95   | 93   | 69   |
| 85° | 16   | 10   | 8    | 16   | 22   | 17   |
| 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°    | 3686.0 | 3686.0 | 3686.0 | 3686.0 | 3686.0 | 3686.0 | 3686.0 | 3686.0 | 3686.0 | 3686.0 | 3686.0 |
| 2.5°  | 3688.0 | 3691.9 | 3690.0 | 3690.0 | 3688.0 | 3690.0 | 3690.0 | 3693.9 | 3693.9 | 3690.0 | 3688.0 |
| 5°    | 3680.0 | 3684.1 | 3684.1 | 3680.0 | 3680.0 | 3690.0 | 3684.1 | 3688.0 | 3688.0 | 3686.0 | 3686.0 |
| 7.5°  | 3662.3 | 3662.3 | 3670.2 | 3664.2 | 3664.2 | 3670.2 | 3668.1 | 3672.2 | 3676.1 | 3678.1 | 3678.1 |
| 10°   | 3622.6 | 3626.7 | 3628.7 | 3628.7 | 3630.6 | 3636.5 | 3640.4 | 3648.4 | 3652.3 | 3656.4 | 3658.3 |
| 12.5° | 3573.2 | 3579.1 | 3581.1 | 3579.1 | 3585.1 | 3593.0 | 3602.9 | 3612.8 | 3618.7 | 3626.7 | 3632.6 |
| 15°   | 3513.9 | 3513.9 | 3517.8 | 3523.8 | 3527.8 | 3539.6 | 3549.4 | 3561.3 | 3577.1 | 3587.1 | 3597.0 |
| 17.5° | 3448.5 | 3452.6 | 3458.5 | 3458.5 | 3466.4 | 3486.2 | 3492.1 | 3510.0 | 3527.8 | 3537.7 | 3557.4 |
| 20°   | 3377.3 | 3381.3 | 3387.2 | 3391.2 | 3401.1 | 3416.9 | 3428.8 | 3444.6 | 3464.5 | 3482.3 | 3502.0 |
| 22.5° | 3322.0 | 3314.0 | 3317.9 | 3322.0 | 3331.8 | 3345.7 | 3359.5 | 3379.3 | 3399.1 | 3416.9 | 3436.8 |
| 25°   | 3215.1 | 3217.0 | 3223.0 | 3226.9 | 3238.9 | 3250.7 | 3266.6 | 3290.2 | 3308.1 | 3327.9 | 3349.7 |
| 27.5° | 3070.6 | 3072.7 | 3082.5 | 3082.5 | 3092.4 | 3112.2 | 3122.1 | 3141.9 | 3165.7 | 3185.4 | 3211.2 |
| 30°   | 2906.4 | 2910.3 | 2910.3 | 2918.3 | 2924.2 | 2934.1 | 2944.1 | 2963.8 | 2975.7 | 2993.5 | 3029.2 |
| 32.5° | 2756.1 | 2760.0 | 2758.0 | 2756.1 | 2750.1 | 2748.1 | 2746.2 | 2750.1 | 2754.1 | 2760.0 | 2773.9 |
| 35°   | 2667.1 | 2657.1 | 2649.3 | 2635.4 | 2619.6 | 2599.8 | 2582.0 | 2558.2 | 2536.5 | 2518.7 | 2498.9 |
| 37.5° | 2582.0 | 2580.0 | 2568.1 | 2548.4 | 2516.6 | 2481.1 | 2439.5 | 2388.1 | 2336.6 | 2281.2 | 2227.9 |
| 40°   | 2463.3 | 2457.3 | 2447.5 | 2419.8 | 2384.1 | 2340.5 | 2285.2 | 2221.9 | 2138.8 | 2053.7 | 1966.7 |
| 42.5° | 2261.4 | 2263.4 | 2251.5 | 2229.8 | 2196.2 | 2154.6 | 2097.3 | 2028.0 | 1939.0 | 1838.0 | 1725.3 |
| 45°   | 2026.0 | 2026.0 | 2022.1 | 2004.2 | 1980.5 | 1946.8 | 1903.3 | 1846.0 | 1759.0 | 1656.1 | 1535.3 |
| 47.5° | 1780.7 | 1782.6 | 1776.7 | 1772.7 | 1762.9 | 1741.1 | 1709.4 | 1665.9 | 1604.6 | 1505.6 | 1385.0 |
| 50°   | 1531.4 | 1531.4 | 1541.3 | 1539.2 | 1539.2 | 1531.4 | 1517.5 | 1491.8 | 1438.4 | 1359.2 | 1246.4 |
| 52.5° | 1282.1 | 1286.0 | 1292.0 | 1299.9 | 1309.8 | 1325.6 | 1309.8 | 1297.9 | 1264.3 | 1202.9 | 1106.0 |
| 55°   | 1024.8 | 1028.9 | 1038.7 | 1052.5 | 1064.5 | 1080.3 | 1084.2 | 1084.2 | 1066.4 | 1024.8 | 951.6  |
| 57.5° | 805.3  | 799.3  | 807.2  | 819.1  | 834.9  | 850.7  | 862.6  | 876.5  | 874.5  | 846.8  | 787.5  |
| 60°   | 605.5  | 607.5  | 613.3  | 625.2  | 637.1  | 651.0  | 666.8  | 678.7  | 684.6  | 670.7  | 633.1  |
| 62.5° | 441.2  | 441.2  | 449.1  | 461.0  | 466.9  | 486.7  | 496.6  | 502.5  | 508.5  | 506.5  | 482.7  |
| 65°   | 308.7  | 312.6  | 316.6  | 322.5  | 328.5  | 340.3  | 346.3  | 358.0  | 362.1  | 364.1  | 346.3  |
| 67.5° | 217.7  | 211.8  | 215.7  | 219.6  | 225.5  | 233.5  | 245.4  | 245.4  | 251.2  | 251.2  | 239.4  |
| 70°   | 138.6  | 138.6  | 140.5  | 146.4  | 150.3  | 152.3  | 156.3  | 160.2  | 166.2  | 164.2  | 164.2  |
| 72.5° | 93.0   | 91.0   | 93.0   | 94.9   | 97.0   | 102.9  | 102.9  | 104.8  | 108.8  | 110.9  | 102.9  |
| 75°   | 47.5   | 49.4   | 53.4   | 51.5   | 57.4   | 53.4   | 55.4   | 61.3   | 59.3   | 55.4   | 55.4   |
| 77.5° | 39.6   | 39.6   | 39.6   | 37.7   | 41.6   | 41.6   | 39.6   | 43.5   | 41.6   | 41.6   | 39.6   |
| 80°   | 27.7   | 29.7   | 27.7   | 25.7   | 27.7   | 25.7   | 25.7   | 25.7   | 25.7   | 25.7   | 23.8   |
| 82.5° | 21.7   | 17.8   | 19.8   | 17.8   | 19.8   | 19.8   | 17.8   | 15.8   | 15.8   | 17.8   | 15.8   |
| 85°   | 15.8   | 11.9   | 13.9   | 13.9   | 11.9   | 11.9   | 11.9   | 11.9   | 11.9   | 9.9    | 9.9    |
| 87.5° | 9.9    | 5.9    | 5.9    | 5.9    | 7.8    | 7.8    | 7.8    | 5.9    | 7.8    | 7.8    | 3.9    |
| 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°    | 3686.0 | 3686.0 | 3686.0 | 3686.0 | 3686.0 | 3686.0 | 3686.0 | 3686.0 | 3686.0 | 3686.0 | 3686.0 |
| 2.5°  | 3691.9 | 3690.0 | 3693.9 | 3691.9 | 3691.9 | 3690.0 | 3691.9 | 3690.0 | 3693.9 | 3686.0 | 3688.0 |
| 5°    | 3691.9 | 3688.0 | 3690.0 | 3691.9 | 3693.9 | 3690.0 | 3690.0 | 3690.0 | 3693.9 | 3690.0 | 3691.9 |
| 7.5°  | 3684.1 | 3682.0 | 3688.0 | 3691.9 | 3690.0 | 3688.0 | 3691.9 | 3690.0 | 3693.9 | 3691.9 | 3695.8 |
| 10°   | 3668.1 | 3670.2 | 3674.1 | 3680.0 | 3682.0 | 3684.1 | 3688.0 | 3688.0 | 3693.9 | 3686.0 | 3690.0 |
| 12.5° | 3644.5 | 3652.3 | 3662.3 | 3666.2 | 3674.1 | 3674.1 | 3678.1 | 3680.0 | 3684.1 | 3682.0 | 3688.0 |
| 15°   | 3614.8 | 3624.6 | 3636.5 | 3646.4 | 3656.4 | 3662.3 | 3668.1 | 3670.2 | 3676.1 | 3670.2 | 3672.2 |
| 17.5° | 3579.1 | 3591.0 | 3608.8 | 3620.7 | 3636.5 | 3642.5 | 3650.3 | 3654.3 | 3660.3 | 3656.4 | 3658.3 |
| 20°   | 3529.7 | 3543.6 | 3563.3 | 3581.1 | 3591.0 | 3604.8 | 3614.8 | 3620.7 | 3624.6 | 3620.7 | 3622.6 |
| 22.5° | 3460.4 | 3480.3 | 3505.9 | 3519.8 | 3539.6 | 3551.4 | 3553.5 | 3567.2 | 3577.1 | 3567.2 | 3571.3 |
| 25°   | 3379.3 | 3399.1 | 3418.9 | 3448.5 | 3466.4 | 3480.3 | 3494.0 | 3496.1 | 3505.9 | 3503.9 | 3502.0 |
| 27.5° | 3244.7 | 3270.5 | 3304.1 | 3327.9 | 3351.6 | 3373.4 | 3389.2 | 3393.2 | 3403.0 | 3399.1 | 3401.1 |
| 30°   | 3060.8 | 3088.5 | 3120.2 | 3157.7 | 3191.4 | 3213.1 | 3232.9 | 3246.8 | 3256.6 | 3250.7 | 3248.8 |
| 32.5° | 2799.6 | 2827.3 | 2861.0 | 2898.6 | 2938.1 | 2969.8 | 2993.5 | 3011.3 | 3023.2 | 3019.2 | 3009.3 |
| 35°   | 2500.8 | 2508.8 | 2530.5 | 2560.3 | 2593.9 | 2627.5 | 2649.3 | 2669.0 | 2682.9 | 2686.8 | 2686.8 |
| 37.5° | 2194.2 | 2168.5 | 2152.7 | 2152.7 | 2172.4 | 2186.3 | 2206.0 | 2217.9 | 2239.6 | 2247.6 | 2253.5 |
| 40°   | 1897.4 | 1838.0 | 1782.6 | 1741.1 | 1713.4 | 1711.4 | 1711.4 | 1717.4 | 1737.1 | 1762.9 | 1786.6 |
| 42.5° | 1632.3 | 1537.3 | 1452.3 | 1375.1 | 1319.6 | 1288.0 | 1274.2 | 1276.1 | 1292.0 | 1315.7 | 1355.3 |
| 45°   | 1420.5 | 1301.9 | 1195.0 | 1102.1 | 1026.8 | 977.4  | 953.6  | 951.6  | 963.5  | 991.2  | 1034.8 |
| 47.5° | 1256.4 | 1129.7 | 1009.0 | 902.2  | 821.1  | 767.7  | 740.0  | 732.1  | 740.0  | 765.6  | 817.1  |
| 50°   | 1119.9 | 989.3  | 864.6  | 753.8  | 666.8  | 611.4  | 585.6  | 575.7  | 585.6  | 607.5  | 658.8  |
| 52.5° | 993.2  | 858.7  | 742.0  | 635.2  | 542.1  | 494.6  | 466.9  | 461.0  | 466.9  | 492.7  | 534.3  |
| 55°   | 846.8  | 732.1  | 617.3  | 510.5  | 429.3  | 381.8  | 360.1  | 354.1  | 360.1  | 383.8  | 427.3  |
| 57.5° | 702.4  | 603.4  | 502.5  | 405.6  | 336.4  | 294.8  | 275.0  | 267.1  | 280.9  | 296.7  | 348.2  |
| 60°   | 567.8  | 488.8  | 403.6  | 318.6  | 261.2  | 223.5  | 207.7  | 205.7  | 209.7  | 229.5  | 265.1  |
| 62.5° | 445.1  | 379.9  | 312.6  | 243.4  | 195.8  | 180.0  | 160.2  | 158.3  | 162.2  | 174.1  | 201.8  |
| 65°   | 320.5  | 279.0  | 227.6  | 178.0  | 140.5  | 118.7  | 110.9  | 112.8  | 116.7  | 124.7  | 150.3  |
| 67.5° | 223.5  | 193.9  | 158.3  | 124.7  | 97.0   | 87.0   | 79.1   | 77.1   | 79.1   | 93.0   | 106.8  |
| 70°   | 150.3  | 132.5  | 106.8  | 94.9   | 67.3   | 53.4   | 55.4   | 49.4   | 57.4   | 57.4   | 69.3   |
| 72.5° | 98.9   | 87.0   | 71.2   | 55.4   | 47.5   | 37.7   | 37.7   | 35.6   | 39.6   | 41.6   | 51.5   |
| 75°   | 51.5   | 39.6   | 39.6   | 27.7   | 19.8   | 9.9    | 17.8   | 15.8   | 13.9   | 15.8   | 19.8   |
| 77.5° | 35.6   | 29.7   | 27.7   | 21.7   | 19.8   | 15.8   | 15.8   | 15.8   | 15.8   | 17.8   | 19.8   |
| 80°   | 21.7   | 21.7   | 15.8   | 13.9   | 11.9   | 9.9    | 11.9   | 11.9   | 11.9   | 11.9   | 13.9   |
| 82.5° | 13.9   | 11.9   | 11.9   | 9.9    | 9.9    | 7.8    | 7.8    | 7.8    | 7.8    | 7.8    | 11.9   |
| 85°   | 11.9   | 7.8    | 7.8    | 5.9    | 7.8    | 13.9   | 5.9    | 7.8    | 7.8    | 7.8    | 5.9    |
| 87.5° | 3.9    | 5.9    | 5.9    | 5.9    | 3.9    | 2.0    | 3.9    | 5.9    | 5.9    | 9.9    | 7.8    |
| 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):**

|       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3686.0 | 3686.0 | 3686.0 | 3686.0 | 3686.0 | 3686.0 | 3686.0 | 3686.0 | 3686.0 | 3686.0 | 3686.0 |
| 2.5°  | 3691.9 | 3693.9 | 3693.9 | 3691.9 | 3691.9 | 3688.0 | 3695.8 | 3690.0 | 3691.9 | 3699.9 | 3693.9 |
| 5°    | 3695.8 | 3697.8 | 3697.8 | 3695.8 | 3695.8 | 3695.8 | 3697.8 | 3697.8 | 3695.8 | 3693.9 | 3697.8 |
| 7.5°  | 3703.8 | 3701.8 | 3701.8 | 3697.8 | 3697.8 | 3693.9 | 3697.8 | 3691.9 | 3695.8 | 3691.9 | 3697.8 |
| 10°   | 3693.9 | 3695.8 | 3693.9 | 3691.9 | 3691.9 | 3690.0 | 3690.0 | 3684.1 | 3686.0 | 3680.0 | 3684.1 |
| 12.5° | 3688.0 | 3686.0 | 3686.0 | 3682.0 | 3678.1 | 3674.1 | 3672.2 | 3666.2 | 3666.2 | 3652.3 | 3658.3 |
| 15°   | 3672.2 | 3674.1 | 3668.1 | 3660.3 | 3656.4 | 3646.4 | 3642.5 | 3634.5 | 3626.7 | 3616.8 | 3618.7 |
| 17.5° | 3658.3 | 3652.3 | 3644.5 | 3636.5 | 3620.7 | 3612.8 | 3604.8 | 3593.0 | 3589.0 | 3577.1 | 3573.2 |
| 20°   | 3616.8 | 3612.8 | 3602.9 | 3589.0 | 3579.1 | 3561.3 | 3553.5 | 3541.6 | 3531.6 | 3519.8 | 3513.9 |
| 22.5° | 3563.3 | 3559.4 | 3547.5 | 3533.6 | 3517.8 | 3510.0 | 3502.0 | 3480.3 | 3470.3 | 3458.5 | 3456.5 |
| 25°   | 3496.1 | 3490.1 | 3478.2 | 3462.4 | 3454.5 | 3432.7 | 3424.8 | 3409.0 | 3405.0 | 3393.2 | 3391.2 |
| 27.5° | 3393.2 | 3385.3 | 3371.4 | 3351.6 | 3337.8 | 3323.9 | 3316.0 | 3304.1 | 3300.2 | 3288.3 | 3286.3 |
| 30°   | 3238.9 | 3228.9 | 3201.2 | 3193.4 | 3169.6 | 3155.7 | 3155.7 | 3139.9 | 3141.9 | 3134.0 | 3134.0 |
| 32.5° | 2995.5 | 2979.6 | 2957.9 | 2942.1 | 2926.3 | 2918.3 | 2918.3 | 2912.4 | 2916.4 | 2916.4 | 2920.3 |
| 35°   | 2673.0 | 2651.3 | 2639.3 | 2629.4 | 2629.4 | 2637.4 | 2661.1 | 2667.1 | 2679.0 | 2688.8 | 2696.8 |
| 37.5° | 2259.5 | 2257.5 | 2271.4 | 2283.3 | 2312.8 | 2346.6 | 2388.1 | 2423.7 | 2457.3 | 2481.1 | 2504.8 |
| 40°   | 1812.3 | 1861.8 | 1901.3 | 1956.8 | 2002.2 | 2067.6 | 2142.7 | 2204.1 | 2261.4 | 2303.0 | 2346.6 |
| 42.5° | 1414.6 | 1477.9 | 1561.1 | 1642.2 | 1723.3 | 1812.3 | 1911.3 | 1996.4 | 2071.5 | 2128.9 | 2174.4 |
| 45°   | 1102.1 | 1189.0 | 1290.0 | 1392.8 | 1497.8 | 1608.5 | 1711.4 | 1798.5 | 1877.7 | 1937.0 | 1982.5 |
| 47.5° | 888.4  | 983.3  | 1098.0 | 1210.9 | 1329.6 | 1446.3 | 1561.1 | 1636.2 | 1701.6 | 1749.0 | 1790.6 |
| 50°   | 734.0  | 834.9  | 955.7  | 1084.2 | 1202.9 | 1319.6 | 1418.6 | 1491.8 | 1545.2 | 1586.8 | 1612.4 |
| 52.5° | 613.3  | 720.1  | 848.8  | 977.4  | 1096.1 | 1202.9 | 1292.0 | 1347.3 | 1390.9 | 1420.5 | 1444.3 |
| 55°   | 506.5  | 609.4  | 730.1  | 850.7  | 967.5  | 1068.4 | 1141.6 | 1183.2 | 1216.7 | 1234.6 | 1248.5 |
| 57.5° | 413.5  | 508.5  | 619.2  | 730.1  | 831.0  | 914.1  | 971.5  | 1013.0 | 1028.9 | 1042.6 | 1040.7 |
| 60°   | 324.5  | 413.5  | 514.4  | 609.4  | 696.5  | 763.7  | 805.3  | 829.0  | 840.9  | 846.8  | 842.9  |
| 62.5° | 255.3  | 336.4  | 413.5  | 496.6  | 559.9  | 617.3  | 656.9  | 656.9  | 662.8  | 664.8  | 670.7  |
| 65°   | 189.9  | 251.2  | 318.6  | 379.9  | 431.2  | 468.9  | 490.7  | 496.6  | 504.6  | 502.5  | 498.6  |
| 67.5° | 140.5  | 186.0  | 235.4  | 280.9  | 316.6  | 340.3  | 356.1  | 370.0  | 368.0  | 364.1  | 362.1  |
| 70°   | 97.0   | 126.7  | 170.2  | 197.9  | 223.5  | 247.3  | 251.2  | 253.2  | 255.3  | 257.2  | 253.2  |
| 72.5° | 67.3   | 89.0   | 112.8  | 136.5  | 152.3  | 162.2  | 172.2  | 174.1  | 174.1  | 174.1  | 172.2  |
| 75°   | 33.6   | 45.5   | 67.3   | 77.1   | 91.0   | 94.9   | 102.9  | 102.9  | 108.8  | 100.9  | 98.9   |
| 77.5° | 29.7   | 35.6   | 47.5   | 55.4   | 61.3   | 67.3   | 69.3   | 75.2   | 73.2   | 69.3   | 71.2   |
| 80°   | 17.8   | 21.7   | 29.7   | 33.6   | 41.6   | 43.5   | 45.5   | 47.5   | 45.5   | 47.5   | 47.5   |
| 82.5° | 13.9   | 15.8   | 19.8   | 19.8   | 25.7   | 25.7   | 27.7   | 27.7   | 29.7   | 29.7   | 29.7   |
| 85°   | 7.8    | 13.9   | 11.9   | 23.8   | 15.8   | 15.8   | 19.8   | 23.8   | 19.8   | 19.8   | 23.8   |
| 87.5° | 7.8    | 7.8    | 5.9    | 7.8    | 7.8    | 7.8    | 9.9    | 11.9   | 11.9   | 13.9   | 11.9   |
| 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: P249508

CATALOG NUMBER: LSR8B90D010 EC8B90930 8LBDW0B

**CANDELA DISTRIBUTION (continued):**

|       | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 3686.0 | 3686.0 | 3686.0 | 3686.0 |
| 2.5°  | 3691.9 | 3695.8 | 3690.0 | 3688.0 |
| 5°    | 3697.8 | 3697.8 | 3693.9 | 3693.9 |
| 7.5°  | 3697.8 | 3697.8 | 3691.9 | 3688.0 |
| 10°   | 3682.0 | 3682.0 | 3676.1 | 3672.2 |
| 12.5° | 3652.3 | 3652.3 | 3650.3 | 3644.5 |
| 15°   | 3614.8 | 3614.8 | 3606.8 | 3600.9 |
| 17.5° | 3563.3 | 3567.2 | 3557.4 | 3557.4 |
| 20°   | 3507.9 | 3505.9 | 3498.1 | 3494.0 |
| 22.5° | 3450.6 | 3446.6 | 3444.6 | 3432.7 |
| 25°   | 3389.2 | 3385.3 | 3379.3 | 3373.4 |
| 27.5° | 3284.4 | 3282.4 | 3276.5 | 3268.5 |
| 30°   | 3124.1 | 3122.1 | 3114.3 | 3114.3 |
| 32.5° | 2916.4 | 2914.4 | 2906.4 | 2908.4 |
| 35°   | 2700.7 | 2708.6 | 2704.6 | 2696.8 |
| 37.5° | 2520.7 | 2526.6 | 2530.5 | 2526.6 |
| 40°   | 2370.2 | 2388.1 | 2390.1 | 2394.0 |
| 42.5° | 2210.1 | 2233.7 | 2241.7 | 2245.6 |
| 45°   | 2018.0 | 2039.9 | 2057.7 | 2053.7 |
| 47.5° | 1822.2 | 1838.0 | 1853.9 | 1842.0 |
| 50°   | 1634.3 | 1644.2 | 1650.1 | 1650.1 |
| 52.5° | 1456.2 | 1456.2 | 1454.3 | 1456.2 |
| 55°   | 1252.4 | 1252.4 | 1244.5 | 1248.5 |
| 57.5° | 1038.7 | 1042.6 | 1036.7 | 1026.8 |
| 60°   | 840.9  | 831.0  | 827.0  | 821.1  |
| 62.5° | 654.9  | 654.9  | 641.1  | 658.8  |
| 65°   | 490.7  | 484.7  | 478.8  | 476.8  |
| 67.5° | 356.1  | 354.1  | 348.2  | 346.3  |
| 70°   | 251.2  | 243.4  | 241.4  | 237.4  |
| 72.5° | 168.2  | 168.2  | 164.2  | 164.2  |
| 75°   | 102.9  | 93.0   | 91.0   | 93.0   |
| 77.5° | 71.2   | 69.3   | 69.3   | 67.3   |
| 80°   | 47.5   | 45.5   | 49.4   | 43.5   |
| 82.5° | 29.7   | 31.6   | 29.7   | 31.6   |
| 85°   | 19.8   | 23.8   | 21.7   | 21.7   |
| 87.5° | 11.9   | 11.9   | 11.9   | 11.9   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)