

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: P249308

Luminaire Tested: **LD8B70D010 ER8B70830 8LBDW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249308  
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: LD8B70D010 ER8B70830 8LBDW0GPH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 3000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7175.0 lumens  
Efficiency: N/A  
Efficacy: 94.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

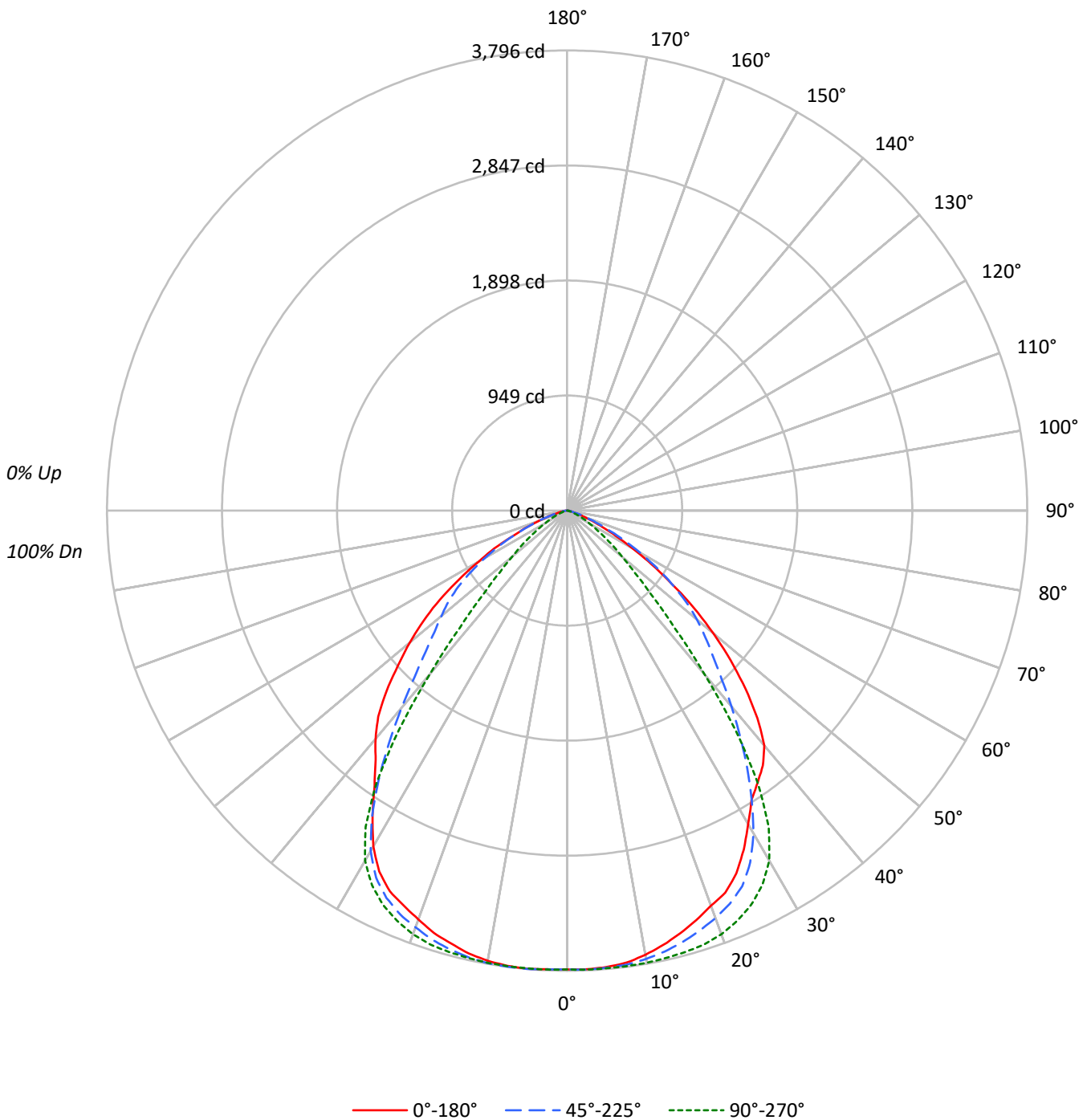
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 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°  | 116737 | 116737 | 116737 |
| 5°  | 116994 | 117307 | 117434 |
| 10° | 116499 | 118601 | 118093 |
| 15° | 115211 | 120335 | 118065 |
| 20° | 113827 | 122027 | 117761 |
| 25° | 112348 | 122167 | 117880 |
| 30° | 106290 | 118734 | 113884 |
| 35° | 103115 | 103190 | 104263 |
| 40° | 101838 | 71000  | 98976  |
| 45° | 90742  | 42624  | 91980  |
| 50° | 75452  | 28366  | 81299  |
| 55° | 56589  | 19558  | 68933  |
| 60° | 38348  | 13031  | 52009  |
| 65° | 23130  | 8449   | 35731  |
| 70° | 12830  | 4580   | 21981  |
| 75° | 5814   | 1942   | 11378  |
| 80° | 5043   | 2166   | 7938   |
| 85° | 5767   | 2866   | 7925   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 361.3  | 5.0       |
| 10°-20°   | 1049.2 | 14.6      |
| 20°-30°   | 1592.5 | 22.2      |
| 30°-40°   | 1672.6 | 23.3      |
| 40°-50°   | 1254.0 | 17.5      |
| 50°-60°   | 804.6  | 11.2      |
| 60°-70°   | 344.2  | 4.8       |
| 70°-80°   | 81.3   | 1.1       |
| 80°-90°   | 15.1   | 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°    | 3003.1 | 41.9      |
| 0°-40°    | 4675.7 | 65.2      |
| 0°-60°    | 6734.4 | 93.9      |
| 0°-90°    | 7175.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7175.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 3786 | 3786 | 3786 | 3786 | 3786 |      |
| 5°  | 3780 | 3786 | 3790 | 3796 | 3794 | 359  |
| 15° | 3609 | 3684 | 3769 | 3745 | 3698 | 1018 |
| 25° | 3302 | 3418 | 3591 | 3526 | 3465 | 1509 |
| 35° | 2739 | 2587 | 2741 | 2709 | 2770 | 1719 |
| 45° | 2081 | 1701 | 977  | 1652 | 2109 | 1594 |
| 55° | 1053 | 1053 | 364  | 1097 | 1282 | 955  |
| 65° | 317  | 374  | 116  | 482  | 490  | 338  |
| 75° | 49   | 57   | 16   | 98   | 96   | 71   |
| 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°    | 3785.7 | 3785.7 | 3785.7 | 3785.7 | 3785.7 | 3785.7 | 3785.7 | 3785.7 | 3785.7 | 3785.7 | 3785.7 |
| 2.5°  | 3787.7 | 3791.8 | 3789.7 | 3789.7 | 3787.7 | 3789.7 | 3789.7 | 3793.8 | 3793.8 | 3789.7 | 3787.7 |
| 5°    | 3779.6 | 3783.6 | 3783.6 | 3779.6 | 3779.6 | 3789.7 | 3783.6 | 3787.7 | 3787.7 | 3785.7 | 3785.7 |
| 7.5°  | 3761.3 | 3761.3 | 3769.4 | 3763.3 | 3763.3 | 3769.4 | 3767.4 | 3771.5 | 3775.5 | 3777.6 | 3777.6 |
| 10°   | 3720.6 | 3724.7 | 3726.8 | 3726.8 | 3728.8 | 3734.9 | 3738.9 | 3747.1 | 3751.1 | 3755.2 | 3757.2 |
| 12.5° | 3669.9 | 3675.9 | 3678.0 | 3675.9 | 3682.1 | 3690.2 | 3700.3 | 3710.5 | 3716.6 | 3724.7 | 3730.8 |
| 15°   | 3608.9 | 3608.9 | 3612.9 | 3619.1 | 3623.1 | 3635.3 | 3645.5 | 3657.6 | 3673.9 | 3684.1 | 3694.2 |
| 17.5° | 3541.8 | 3545.9 | 3552.0 | 3552.0 | 3560.1 | 3580.4 | 3586.5 | 3604.8 | 3623.1 | 3633.3 | 3653.6 |
| 20°   | 3468.7 | 3472.7 | 3478.8 | 3482.9 | 3493.1 | 3509.3 | 3521.5 | 3537.8 | 3558.1 | 3576.4 | 3596.7 |
| 22.5° | 3411.8 | 3403.7 | 3407.7 | 3411.8 | 3422.0 | 3436.2 | 3450.4 | 3470.7 | 3491.0 | 3509.3 | 3529.7 |
| 25°   | 3302.0 | 3304.1 | 3310.2 | 3314.2 | 3326.5 | 3338.6 | 3354.9 | 3379.3 | 3397.6 | 3417.9 | 3440.2 |
| 27.5° | 3153.7 | 3155.8 | 3165.9 | 3165.9 | 3176.0 | 3196.4 | 3206.5 | 3226.9 | 3251.3 | 3271.6 | 3298.0 |
| 30°   | 2985.1 | 2989.1 | 2989.1 | 2997.3 | 3003.3 | 3013.5 | 3023.7 | 3044.0 | 3056.2 | 3074.5 | 3111.1 |
| 32.5° | 2830.6 | 2834.7 | 2832.6 | 2830.6 | 2824.5 | 2822.5 | 2820.4 | 2824.5 | 2828.6 | 2834.7 | 2848.9 |
| 35°   | 2739.2 | 2729.0 | 2720.9 | 2706.7 | 2690.4 | 2670.1 | 2651.8 | 2627.4 | 2605.1 | 2586.8 | 2566.5 |
| 37.5° | 2651.8 | 2649.8 | 2637.6 | 2617.2 | 2584.7 | 2548.2 | 2505.5 | 2452.7 | 2399.8 | 2342.9 | 2288.1 |
| 40°   | 2529.9 | 2523.8 | 2513.6 | 2485.2 | 2448.6 | 2403.9 | 2347.0 | 2282.0 | 2196.6 | 2109.2 | 2019.8 |
| 42.5° | 2322.6 | 2324.6 | 2312.5 | 2290.1 | 2255.6 | 2212.9 | 2153.9 | 2082.8 | 1991.4 | 1887.7 | 1771.9 |
| 45°   | 2080.8 | 2080.8 | 2076.7 | 2058.4 | 2034.1 | 1999.5 | 1954.8 | 1895.9 | 1806.5 | 1700.8 | 1576.8 |
| 47.5° | 1828.8 | 1830.9 | 1824.7 | 1820.7 | 1810.5 | 1788.2 | 1755.7 | 1711.0 | 1648.0 | 1546.4 | 1422.4 |
| 50°   | 1572.8 | 1572.8 | 1583.0 | 1580.9 | 1580.9 | 1572.8 | 1558.6 | 1532.1 | 1477.3 | 1396.0 | 1280.2 |
| 52.5° | 1316.7 | 1320.8 | 1326.9 | 1335.0 | 1345.2 | 1361.4 | 1345.2 | 1333.0 | 1298.5 | 1235.5 | 1135.9 |
| 55°   | 1052.6 | 1056.7 | 1066.8 | 1081.0 | 1093.3 | 1109.5 | 1113.5 | 1113.5 | 1095.2 | 1052.6 | 977.4  |
| 57.5° | 827.1  | 820.9  | 829.1  | 841.3  | 857.5  | 873.8  | 886.0  | 900.2  | 898.2  | 869.7  | 808.8  |
| 60°   | 621.8  | 623.8  | 629.9  | 642.1  | 654.3  | 668.5  | 684.8  | 697.0  | 703.1  | 688.9  | 650.2  |
| 62.5° | 453.2  | 453.2  | 461.3  | 473.4  | 479.6  | 499.9  | 510.0  | 516.1  | 522.2  | 520.2  | 495.8  |
| 65°   | 317.0  | 321.0  | 325.1  | 331.2  | 337.3  | 349.5  | 355.6  | 367.8  | 371.9  | 373.9  | 355.6  |
| 67.5° | 223.5  | 217.4  | 221.5  | 225.5  | 231.6  | 239.8  | 252.0  | 252.0  | 258.1  | 258.1  | 245.9  |
| 70°   | 142.3  | 142.3  | 144.3  | 150.4  | 154.4  | 156.5  | 160.5  | 164.6  | 170.7  | 168.7  | 168.7  |
| 72.5° | 95.5   | 93.5   | 95.5   | 97.6   | 99.6   | 105.7  | 105.7  | 107.7  | 111.8  | 113.8  | 105.7  |
| 75°   | 48.8   | 50.8   | 54.8   | 52.9   | 58.9   | 54.8   | 56.9   | 63.0   | 61.0   | 56.9   | 56.9   |
| 77.5° | 40.6   | 40.6   | 40.6   | 38.6   | 42.7   | 42.7   | 40.6   | 44.7   | 42.7   | 42.7   | 40.6   |
| 80°   | 28.4   | 30.5   | 28.4   | 26.4   | 28.4   | 26.4   | 26.4   | 26.4   | 26.4   | 26.4   | 24.4   |
| 82.5° | 22.4   | 18.3   | 20.3   | 18.3   | 20.3   | 20.3   | 18.3   | 16.3   | 16.3   | 18.3   | 16.3   |
| 85°   | 16.3   | 12.2   | 14.2   | 14.2   | 12.2   | 12.2   | 12.2   | 12.2   | 12.2   | 10.1   | 10.1   |
| 87.5° | 10.1   | 6.1    | 6.1    | 6.1    | 8.1    | 8.1    | 8.1    | 6.1    | 8.1    | 8.1    | 4.1    |
| 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°    | 3785.7 | 3785.7 | 3785.7 | 3785.7 | 3785.7 | 3785.7 | 3785.7 | 3785.7 | 3785.7 | 3785.7 | 3785.7 |
| 2.5°  | 3791.8 | 3789.7 | 3793.8 | 3791.8 | 3791.8 | 3789.7 | 3791.8 | 3789.7 | 3793.8 | 3785.7 | 3787.7 |
| 5°    | 3791.8 | 3787.7 | 3789.7 | 3791.8 | 3793.8 | 3789.7 | 3789.7 | 3789.7 | 3793.8 | 3789.7 | 3791.8 |
| 7.5°  | 3783.6 | 3781.6 | 3787.7 | 3791.8 | 3789.7 | 3787.7 | 3791.8 | 3789.7 | 3793.8 | 3791.8 | 3795.8 |
| 10°   | 3767.4 | 3769.4 | 3773.5 | 3779.6 | 3781.6 | 3783.6 | 3787.7 | 3787.7 | 3793.8 | 3785.7 | 3789.7 |
| 12.5° | 3743.0 | 3751.1 | 3761.3 | 3765.3 | 3773.5 | 3773.5 | 3777.6 | 3779.6 | 3783.6 | 3781.6 | 3787.7 |
| 15°   | 3712.5 | 3722.7 | 3734.9 | 3745.0 | 3755.2 | 3761.3 | 3767.4 | 3769.4 | 3775.5 | 3769.4 | 3771.5 |
| 17.5° | 3675.9 | 3688.1 | 3706.4 | 3718.6 | 3734.9 | 3741.0 | 3749.1 | 3753.2 | 3759.3 | 3755.2 | 3757.2 |
| 20°   | 3625.1 | 3639.4 | 3659.7 | 3678.0 | 3688.1 | 3702.3 | 3712.5 | 3718.6 | 3722.7 | 3718.6 | 3720.6 |
| 22.5° | 3554.0 | 3574.4 | 3600.8 | 3615.0 | 3635.3 | 3647.5 | 3649.5 | 3663.8 | 3673.9 | 3663.8 | 3667.8 |
| 25°   | 3470.7 | 3491.0 | 3511.4 | 3541.8 | 3560.1 | 3574.4 | 3588.6 | 3590.6 | 3600.8 | 3598.7 | 3596.7 |
| 27.5° | 3332.5 | 3359.0 | 3393.5 | 3417.9 | 3442.3 | 3464.6 | 3480.9 | 3484.9 | 3495.1 | 3491.0 | 3493.1 |
| 30°   | 3143.5 | 3172.0 | 3204.5 | 3243.1 | 3277.7 | 3300.0 | 3320.3 | 3334.6 | 3344.7 | 3338.6 | 3336.6 |
| 32.5° | 2875.3 | 2903.8 | 2938.3 | 2976.9 | 3017.6 | 3050.1 | 3074.5 | 3092.8 | 3104.9 | 3100.9 | 3090.7 |
| 35°   | 2568.5 | 2576.6 | 2599.0 | 2629.5 | 2664.0 | 2698.5 | 2720.9 | 2741.2 | 2755.4 | 2759.5 | 2759.5 |
| 37.5° | 2253.5 | 2227.1 | 2210.9 | 2210.9 | 2231.2 | 2245.4 | 2265.7 | 2277.9 | 2300.3 | 2308.4 | 2314.5 |
| 40°   | 1948.7 | 1887.7 | 1830.9 | 1788.2 | 1759.8 | 1757.7 | 1757.7 | 1763.8 | 1784.1 | 1810.5 | 1834.9 |
| 42.5° | 1676.4 | 1578.9 | 1491.5 | 1412.3 | 1355.4 | 1322.9 | 1308.6 | 1310.7 | 1326.9 | 1351.3 | 1391.9 |
| 45°   | 1459.0 | 1337.1 | 1227.4 | 1131.8 | 1054.6 | 1003.8 | 979.4  | 977.4  | 989.6  | 1018.0 | 1062.8 |
| 47.5° | 1290.3 | 1160.3 | 1036.3 | 926.6  | 843.3  | 788.4  | 760.0  | 751.9  | 760.0  | 786.4  | 839.2  |
| 50°   | 1150.1 | 1016.0 | 888.0  | 774.2  | 684.8  | 627.9  | 601.5  | 591.3  | 601.5  | 623.8  | 676.6  |
| 52.5° | 1020.1 | 881.9  | 762.0  | 652.3  | 556.8  | 508.0  | 479.6  | 473.4  | 479.6  | 506.0  | 548.7  |
| 55°   | 869.7  | 751.9  | 634.0  | 524.3  | 441.0  | 392.2  | 369.8  | 363.8  | 369.8  | 394.2  | 438.9  |
| 57.5° | 721.4  | 619.8  | 516.1  | 416.6  | 345.5  | 302.7  | 282.5  | 274.3  | 288.5  | 304.8  | 357.6  |
| 60°   | 583.2  | 501.9  | 414.5  | 327.2  | 268.2  | 229.6  | 213.4  | 211.3  | 215.4  | 235.7  | 272.3  |
| 62.5° | 457.2  | 390.2  | 321.0  | 249.9  | 201.2  | 184.9  | 164.6  | 162.6  | 166.6  | 178.8  | 207.3  |
| 65°   | 329.2  | 286.5  | 233.7  | 182.9  | 144.3  | 121.9  | 113.8  | 115.8  | 119.9  | 128.0  | 154.4  |
| 67.5° | 229.6  | 199.1  | 162.6  | 128.0  | 99.6   | 89.4   | 81.3   | 79.3   | 81.3   | 95.5   | 109.7  |
| 70°   | 154.4  | 136.1  | 109.7  | 97.6   | 69.1   | 54.8   | 56.9   | 50.8   | 58.9   | 58.9   | 71.1   |
| 72.5° | 101.6  | 89.4   | 73.1   | 56.9   | 48.8   | 38.6   | 38.6   | 36.6   | 40.6   | 42.7   | 52.9   |
| 75°   | 52.9   | 40.6   | 40.6   | 28.4   | 20.3   | 10.1   | 18.3   | 16.3   | 14.2   | 16.3   | 20.3   |
| 77.5° | 36.6   | 30.5   | 28.4   | 22.4   | 20.3   | 16.3   | 16.3   | 16.3   | 16.3   | 18.3   | 20.3   |
| 80°   | 22.4   | 22.4   | 16.3   | 14.2   | 12.2   | 10.1   | 12.2   | 12.2   | 12.2   | 12.2   | 14.2   |
| 82.5° | 14.2   | 12.2   | 12.2   | 10.1   | 10.1   | 8.1    | 8.1    | 8.1    | 8.1    | 8.1    | 12.2   |
| 85°   | 12.2   | 8.1    | 8.1    | 6.1    | 8.1    | 14.2   | 6.1    | 8.1    | 8.1    | 8.1    | 6.1    |
| 87.5° | 4.1    | 6.1    | 6.1    | 6.1    | 4.1    | 2.0    | 4.1    | 6.1    | 6.1    | 10.1   | 8.1    |
| 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°    | 3785.7 | 3785.7 | 3785.7 | 3785.7 | 3785.7 | 3785.7 | 3785.7 | 3785.7 | 3785.7 | 3785.7 | 3785.7 |
| 2.5°  | 3791.8 | 3793.8 | 3793.8 | 3791.8 | 3791.8 | 3787.7 | 3795.8 | 3789.7 | 3791.8 | 3799.9 | 3793.8 |
| 5°    | 3795.8 | 3797.9 | 3797.9 | 3795.8 | 3795.8 | 3795.8 | 3797.9 | 3797.9 | 3795.8 | 3793.8 | 3797.9 |
| 7.5°  | 3804.0 | 3801.9 | 3801.9 | 3797.9 | 3797.9 | 3793.8 | 3797.9 | 3791.8 | 3795.8 | 3791.8 | 3797.9 |
| 10°   | 3793.8 | 3795.8 | 3793.8 | 3791.8 | 3791.8 | 3789.7 | 3789.7 | 3783.6 | 3785.7 | 3779.6 | 3783.6 |
| 12.5° | 3787.7 | 3785.7 | 3785.7 | 3781.6 | 3777.6 | 3773.5 | 3771.5 | 3765.3 | 3765.3 | 3751.1 | 3757.2 |
| 15°   | 3771.5 | 3773.5 | 3767.4 | 3759.3 | 3755.2 | 3745.0 | 3741.0 | 3732.8 | 3724.7 | 3714.6 | 3716.6 |
| 17.5° | 3757.2 | 3751.1 | 3743.0 | 3734.9 | 3718.6 | 3710.5 | 3702.3 | 3690.2 | 3686.1 | 3673.9 | 3669.9 |
| 20°   | 3714.6 | 3710.5 | 3700.3 | 3686.1 | 3675.9 | 3657.6 | 3649.5 | 3637.4 | 3627.2 | 3615.0 | 3608.9 |
| 22.5° | 3659.7 | 3655.6 | 3643.4 | 3629.2 | 3612.9 | 3604.8 | 3596.7 | 3574.4 | 3564.2 | 3552.0 | 3549.9 |
| 25°   | 3590.6 | 3584.5 | 3572.3 | 3556.1 | 3547.9 | 3525.6 | 3517.4 | 3501.2 | 3497.1 | 3484.9 | 3482.9 |
| 27.5° | 3484.9 | 3476.8 | 3462.6 | 3442.3 | 3428.0 | 3413.8 | 3405.7 | 3393.5 | 3389.4 | 3377.2 | 3375.2 |
| 30°   | 3326.5 | 3316.3 | 3287.8 | 3279.7 | 3255.3 | 3241.1 | 3241.1 | 3224.8 | 3226.9 | 3218.8 | 3218.8 |
| 32.5° | 3076.5 | 3060.2 | 3037.9 | 3021.6 | 3005.4 | 2997.3 | 2997.3 | 2991.1 | 2995.2 | 2995.2 | 2999.3 |
| 35°   | 2745.3 | 2722.9 | 2710.7 | 2700.6 | 2700.6 | 2708.7 | 2733.1 | 2739.2 | 2751.4 | 2761.5 | 2769.7 |
| 37.5° | 2320.6 | 2318.6 | 2332.8 | 2345.0 | 2375.4 | 2410.0 | 2452.7 | 2489.3 | 2523.8 | 2548.2 | 2572.5 |
| 40°   | 1861.3 | 1912.2 | 1952.8 | 2009.7 | 2056.4 | 2123.5 | 2200.7 | 2263.7 | 2322.6 | 2365.3 | 2410.0 |
| 42.5° | 1452.9 | 1517.9 | 1603.3 | 1686.6 | 1769.9 | 1861.3 | 1963.0 | 2050.3 | 2127.5 | 2186.5 | 2233.2 |
| 45°   | 1131.8 | 1221.2 | 1324.9 | 1430.6 | 1538.3 | 1652.1 | 1757.7 | 1847.1 | 1928.4 | 1989.4 | 2036.1 |
| 47.5° | 912.4  | 1009.9 | 1127.8 | 1243.6 | 1365.5 | 1485.4 | 1603.3 | 1680.5 | 1747.5 | 1796.3 | 1839.0 |
| 50°   | 753.9  | 857.5  | 981.5  | 1113.5 | 1235.5 | 1355.4 | 1457.0 | 1532.1 | 1587.0 | 1629.7 | 1656.1 |
| 52.5° | 629.9  | 739.6  | 871.7  | 1003.8 | 1125.7 | 1235.5 | 1326.9 | 1383.8 | 1428.5 | 1459.0 | 1483.4 |
| 55°   | 520.2  | 625.9  | 749.8  | 873.8  | 993.7  | 1097.3 | 1172.5 | 1215.2 | 1249.7 | 1268.0 | 1282.2 |
| 57.5° | 424.7  | 522.2  | 636.0  | 749.8  | 853.5  | 938.8  | 997.7  | 1040.4 | 1056.7 | 1070.9 | 1068.8 |
| 60°   | 333.3  | 424.7  | 528.3  | 625.9  | 715.3  | 784.3  | 827.1  | 851.4  | 863.6  | 869.7  | 865.6  |
| 62.5° | 262.1  | 345.5  | 424.7  | 510.0  | 575.1  | 634.0  | 674.7  | 674.7  | 680.7  | 682.8  | 688.9  |
| 65°   | 195.1  | 258.1  | 327.2  | 390.2  | 443.0  | 481.6  | 504.0  | 510.0  | 518.2  | 516.1  | 512.1  |
| 67.5° | 144.3  | 191.0  | 241.8  | 288.5  | 325.1  | 349.5  | 365.7  | 380.0  | 378.0  | 373.9  | 371.9  |
| 70°   | 99.6   | 130.1  | 174.8  | 203.2  | 229.6  | 254.0  | 258.1  | 260.1  | 262.1  | 264.2  | 260.1  |
| 72.5° | 69.1   | 91.4   | 115.8  | 140.2  | 156.5  | 166.6  | 176.8  | 178.8  | 178.8  | 178.8  | 176.8  |
| 75°   | 34.6   | 46.7   | 69.1   | 79.3   | 93.5   | 97.6   | 105.7  | 105.7  | 111.8  | 103.6  | 101.6  |
| 77.5° | 30.5   | 36.6   | 48.8   | 56.9   | 63.0   | 69.1   | 71.1   | 77.2   | 75.2   | 71.1   | 73.1   |
| 80°   | 18.3   | 22.4   | 30.5   | 34.6   | 42.7   | 44.7   | 46.7   | 48.8   | 46.7   | 48.8   | 48.8   |
| 82.5° | 14.2   | 16.3   | 20.3   | 20.3   | 26.4   | 26.4   | 28.4   | 28.4   | 30.5   | 30.5   | 30.5   |
| 85°   | 8.1    | 14.2   | 12.2   | 24.4   | 16.3   | 16.3   | 20.3   | 24.4   | 20.3   | 20.3   | 24.4   |
| 87.5° | 8.1    | 8.1    | 6.1    | 8.1    | 8.1    | 8.1    | 10.1   | 12.2   | 12.2   | 14.2   | 12.2   |
| 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: P249308

CATALOG NUMBER: LD8B70D010 ER8B70830 8LBDW0GPH

**CANDELA DISTRIBUTION (continued):**

|       | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 3785.7 | 3785.7 | 3785.7 | 3785.7 |
| 2.5°  | 3791.8 | 3795.8 | 3789.7 | 3787.7 |
| 5°    | 3797.9 | 3797.9 | 3793.8 | 3793.8 |
| 7.5°  | 3797.9 | 3797.9 | 3791.8 | 3787.7 |
| 10°   | 3781.6 | 3781.6 | 3775.5 | 3771.5 |
| 12.5° | 3751.1 | 3751.1 | 3749.1 | 3743.0 |
| 15°   | 3712.5 | 3712.5 | 3704.4 | 3698.3 |
| 17.5° | 3659.7 | 3663.8 | 3653.6 | 3653.6 |
| 20°   | 3602.8 | 3600.8 | 3592.7 | 3588.6 |
| 22.5° | 3543.9 | 3539.8 | 3537.8 | 3525.6 |
| 25°   | 3480.9 | 3476.8 | 3470.7 | 3464.6 |
| 27.5° | 3373.2 | 3371.2 | 3365.0 | 3356.9 |
| 30°   | 3208.6 | 3206.5 | 3198.4 | 3198.4 |
| 32.5° | 2995.2 | 2993.2 | 2985.1 | 2987.1 |
| 35°   | 2773.7 | 2781.9 | 2777.8 | 2769.7 |
| 37.5° | 2588.8 | 2594.9 | 2599.0 | 2594.9 |
| 40°   | 2434.4 | 2452.7 | 2454.7 | 2458.8 |
| 42.5° | 2269.8 | 2294.2 | 2302.3 | 2306.3 |
| 45°   | 2072.7 | 2095.0 | 2113.3 | 2109.2 |
| 47.5° | 1871.5 | 1887.7 | 1904.0 | 1891.8 |
| 50°   | 1678.5 | 1688.6 | 1694.7 | 1694.7 |
| 52.5° | 1495.6 | 1495.6 | 1493.6 | 1495.6 |
| 55°   | 1286.3 | 1286.3 | 1278.2 | 1282.2 |
| 57.5° | 1066.8 | 1070.9 | 1064.8 | 1054.6 |
| 60°   | 863.6  | 853.5  | 849.4  | 843.3  |
| 62.5° | 672.6  | 672.6  | 658.4  | 676.6  |
| 65°   | 504.0  | 497.9  | 491.7  | 489.7  |
| 67.5° | 365.7  | 363.8  | 357.6  | 355.6  |
| 70°   | 258.1  | 249.9  | 247.9  | 243.8  |
| 72.5° | 172.7  | 172.7  | 168.7  | 168.7  |
| 75°   | 105.7  | 95.5   | 93.5   | 95.5   |
| 77.5° | 73.1   | 71.1   | 71.1   | 69.1   |
| 80°   | 48.8   | 46.7   | 50.8   | 44.7   |
| 82.5° | 30.5   | 32.5   | 30.5   | 32.5   |
| 85°   | 20.3   | 24.4   | 22.4   | 22.4   |
| 87.5° | 12.2   | 12.2   | 12.2   | 12.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)