

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: P249363

Luminaire Tested: **LD8B80D010 ER8B80935 8LBDW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249363  
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: LD8B80D010 ER8B80935 8LBDW0GPH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 3500 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7075.0 lumens  
Efficiency: N/A  
Efficacy: 95.1 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

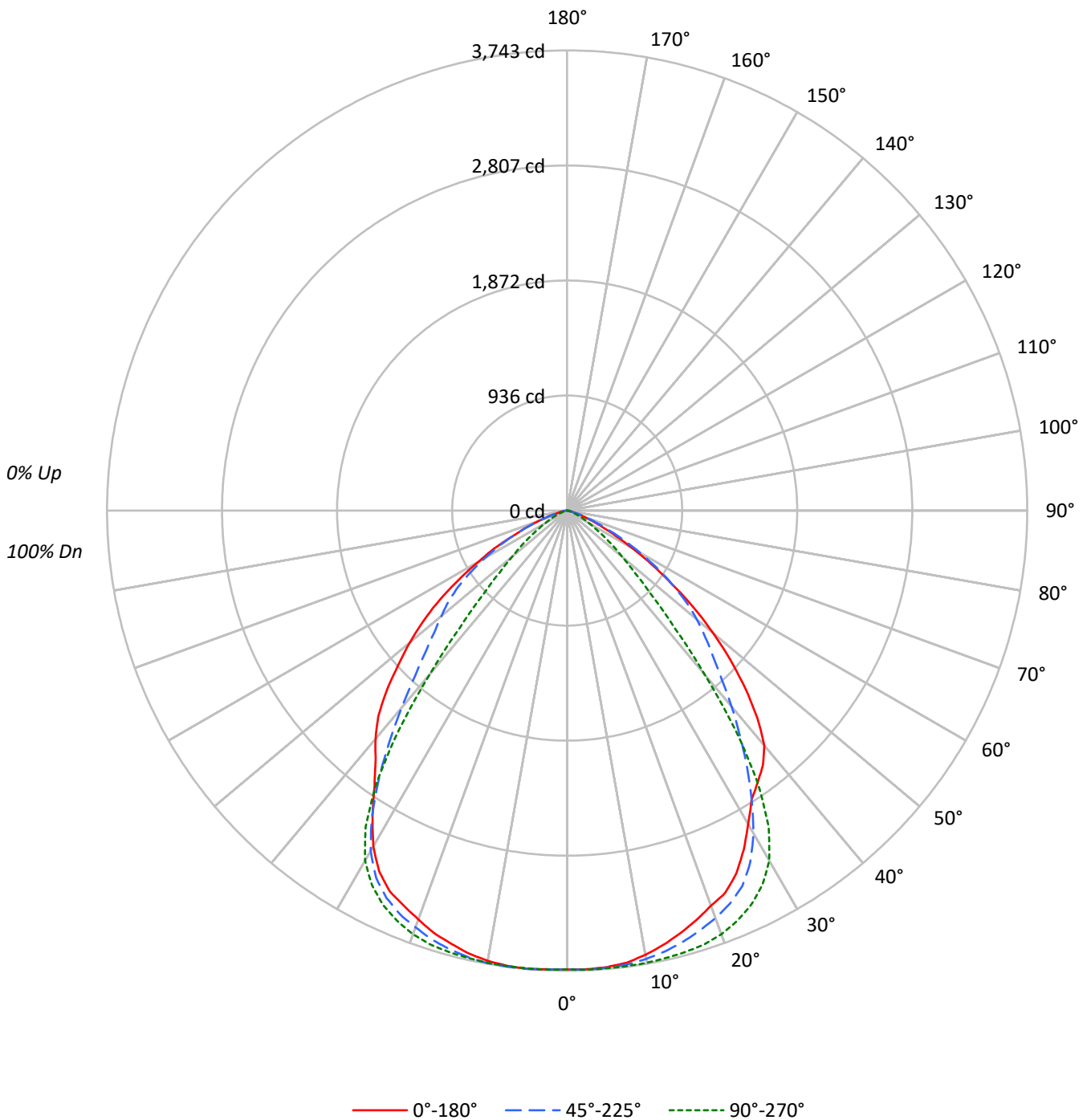
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 91  | 90  |    |    |    |    | 90  |   |  |   |
| 2   | 104 | 97  | 92  | 88  | 101 | 96  | 91  | 87  | 92  | 88  | 85  | 89  | 86  | 83  | 86  | 83  | 81  | 79  |    |    |    |    | 79  |   |  |   |
| 3   | 96  | 88  | 81  | 76  | 94  | 86  | 80  | 75  | 84  | 78  | 74  | 81  | 77  | 73  | 79  | 75  | 72  | 70  |    |    |    |    | 70  |   |  |   |
| 4   | 89  | 80  | 72  | 67  | 87  | 78  | 72  | 66  | 76  | 70  | 66  | 74  | 69  | 65  | 72  | 67  | 64  | 62  |    |    |    |    | 62  |   |  |   |
| 5   | 83  | 72  | 65  | 59  | 81  | 71  | 64  | 59  | 69  | 63  | 58  | 68  | 62  | 58  | 66  | 61  | 57  | 55  |    |    |    |    | 55  |   |  |   |
| 6   | 78  | 66  | 58  | 53  | 76  | 65  | 58  | 53  | 64  | 57  | 52  | 62  | 56  | 52  | 61  | 55  | 51  | 50  |    |    |    |    | 50  |   |  |   |
| 7   | 72  | 61  | 53  | 48  | 71  | 60  | 53  | 48  | 59  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 45  |    |    |    |    | 45  |   |  |   |
| 8   | 68  | 56  | 48  | 43  | 66  | 55  | 48  | 43  | 54  | 48  | 43  | 53  | 47  | 43  | 52  | 46  | 42  | 41  |    |    |    |    | 41  |   |  |   |
| 9   | 64  | 52  | 44  | 39  | 62  | 51  | 44  | 39  | 50  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 37  |    |    |    |    | 37  |   |  |   |
| 10  | 60  | 48  | 41  | 36  | 59  | 48  | 41  | 36  | 47  | 40  | 36  | 46  | 40  | 36  | 45  | 40  | 36  | 34  |    |    |    |    | 34  |   |  |   |

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

|     | 0°     | 90°    | 180°   |
|-----|--------|--------|--------|
| 0°  | 115109 | 115109 | 115109 |
| 5°  | 115363 | 115672 | 115796 |
| 10° | 114878 | 116947 | 116446 |
| 15° | 113605 | 118659 | 116421 |
| 20° | 112242 | 120327 | 116120 |
| 25° | 110782 | 120466 | 116237 |
| 30° | 104808 | 117078 | 112296 |
| 35° | 101677 | 101752 | 102810 |
| 40° | 100418 | 70010  | 97596  |
| 45° | 89477  | 42030  | 90698  |
| 50° | 74401  | 27973  | 80167  |
| 55° | 55799  | 19284  | 67971  |
| 60° | 37811  | 12853  | 51287  |
| 65° | 22809  | 8333   | 35235  |
| 70° | 12649  | 4517   | 21674  |
| 75° | 5731   | 1906   | 11223  |
| 80° | 4972   | 2131   | 7831   |
| 85° | 5661   | 2830   | 7819   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 356.3  | 5.0       |
| 10°-20°   | 1034.6 | 14.6      |
| 20°-30°   | 1570.3 | 22.2      |
| 30°-40°   | 1649.3 | 23.3      |
| 40°-50°   | 1236.6 | 17.5      |
| 50°-60°   | 793.4  | 11.2      |
| 60°-70°   | 339.4  | 4.8       |
| 70°-80°   | 80.2   | 1.1       |
| 80°-90°   | 14.9   | 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°    | 2961.2 | 41.9      |
| 0°-40°    | 4610.5 | 65.2      |
| 0°-60°    | 6640.5 | 93.9      |
| 0°-90°    | 7075.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7075.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 3733 | 3733 | 3733 | 3733 | 3733 |      |
| 5°  | 3727 | 3733 | 3737 | 3743 | 3741 | 354  |
| 15° | 3559 | 3633 | 3717 | 3693 | 3647 | 1004 |
| 25° | 3256 | 3370 | 3541 | 3476 | 3416 | 1487 |
| 35° | 2701 | 2551 | 2703 | 2671 | 2731 | 1695 |
| 45° | 2052 | 1677 | 964  | 1629 | 2080 | 1571 |
| 55° | 1038 | 1038 | 359  | 1082 | 1264 | 941  |
| 65° | 313  | 369  | 114  | 475  | 483  | 334  |
| 75° | 48   | 56   | 16   | 96   | 94   | 70   |
| 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°    | 3732.9 | 3732.9 | 3732.9 | 3732.9 | 3732.9 | 3732.9 | 3732.9 | 3732.9 | 3732.9 | 3732.9 | 3732.9 |
| 2.5°  | 3734.9 | 3738.9 | 3736.9 | 3736.9 | 3734.9 | 3736.9 | 3736.9 | 3740.9 | 3740.9 | 3736.9 | 3734.9 |
| 5°    | 3726.9 | 3730.9 | 3730.9 | 3726.9 | 3726.9 | 3736.9 | 3730.9 | 3734.9 | 3734.9 | 3732.9 | 3732.9 |
| 7.5°  | 3708.9 | 3708.9 | 3716.9 | 3710.9 | 3710.9 | 3716.9 | 3714.9 | 3718.9 | 3722.9 | 3724.9 | 3724.9 |
| 10°   | 3668.8 | 3672.8 | 3674.8 | 3674.8 | 3676.8 | 3682.8 | 3686.8 | 3694.9 | 3698.8 | 3702.9 | 3704.9 |
| 12.5° | 3618.7 | 3624.7 | 3626.7 | 3624.7 | 3630.7 | 3638.7 | 3648.8 | 3658.8 | 3664.8 | 3672.8 | 3678.8 |
| 15°   | 3558.6 | 3558.6 | 3562.6 | 3568.6 | 3572.6 | 3584.6 | 3594.7 | 3606.7 | 3622.7 | 3632.7 | 3642.7 |
| 17.5° | 3492.5 | 3496.5 | 3502.5 | 3502.5 | 3510.5 | 3530.5 | 3536.6 | 3554.6 | 3572.6 | 3582.6 | 3602.7 |
| 20°   | 3420.4 | 3424.3 | 3430.4 | 3434.4 | 3444.4 | 3460.4 | 3472.4 | 3488.5 | 3508.5 | 3526.6 | 3546.6 |
| 22.5° | 3364.2 | 3356.2 | 3360.2 | 3364.2 | 3374.3 | 3388.3 | 3402.3 | 3422.3 | 3442.4 | 3460.4 | 3480.5 |
| 25°   | 3256.0 | 3258.0 | 3264.1 | 3268.0 | 3280.1 | 3292.1 | 3308.1 | 3332.2 | 3350.2 | 3370.3 | 3392.3 |
| 27.5° | 3109.8 | 3111.8 | 3121.8 | 3121.8 | 3131.8 | 3151.8 | 3161.8 | 3181.9 | 3206.0 | 3226.0 | 3252.0 |
| 30°   | 2943.5 | 2947.4 | 2947.4 | 2955.5 | 2961.5 | 2971.5 | 2981.5 | 3001.6 | 3013.6 | 3031.6 | 3067.7 |
| 32.5° | 2791.2 | 2795.2 | 2793.1 | 2791.2 | 2785.2 | 2783.1 | 2781.1 | 2785.2 | 2789.2 | 2795.2 | 2809.2 |
| 35°   | 2701.0 | 2691.0 | 2683.0 | 2669.0 | 2652.9 | 2632.9 | 2614.8 | 2590.8 | 2568.8 | 2550.7 | 2530.7 |
| 37.5° | 2614.8 | 2612.8 | 2600.8 | 2580.8 | 2548.7 | 2512.7 | 2470.6 | 2418.5 | 2366.4 | 2310.3 | 2256.2 |
| 40°   | 2494.6 | 2488.6 | 2478.6 | 2450.5 | 2414.5 | 2370.4 | 2314.3 | 2250.2 | 2166.0 | 2079.8 | 1991.7 |
| 42.5° | 2290.2 | 2292.2 | 2280.2 | 2258.2 | 2224.1 | 2182.0 | 2123.9 | 2053.8 | 1963.7 | 1861.4 | 1747.2 |
| 45°   | 2051.8 | 2051.8 | 2047.8 | 2029.7 | 2005.7 | 1971.6 | 1927.6 | 1869.5 | 1781.3 | 1677.1 | 1554.9 |
| 47.5° | 1803.3 | 1805.3 | 1799.3 | 1795.3 | 1785.3 | 1763.3 | 1731.2 | 1687.1 | 1625.0 | 1524.8 | 1402.6 |
| 50°   | 1550.9 | 1550.9 | 1560.9 | 1558.9 | 1558.9 | 1550.9 | 1536.9 | 1510.8 | 1456.7 | 1376.5 | 1262.4 |
| 52.5° | 1298.4 | 1302.4 | 1308.4 | 1316.4 | 1326.4 | 1342.5 | 1326.4 | 1314.4 | 1280.4 | 1218.2 | 1120.1 |
| 55°   | 1037.9 | 1041.9 | 1051.9 | 1066.0 | 1078.0 | 1094.0 | 1098.0 | 1098.0 | 1080.0 | 1037.9 | 963.8  |
| 57.5° | 815.5  | 809.5  | 817.5  | 829.5  | 845.6  | 861.6  | 873.6  | 887.6  | 885.6  | 857.6  | 797.5  |
| 60°   | 613.1  | 615.1  | 621.1  | 633.2  | 645.2  | 659.2  | 675.3  | 687.3  | 693.3  | 679.3  | 641.2  |
| 62.5° | 446.8  | 446.8  | 454.8  | 466.8  | 472.9  | 492.9  | 502.9  | 509.0  | 514.9  | 512.9  | 488.9  |
| 65°   | 312.6  | 316.6  | 320.6  | 326.6  | 332.6  | 344.6  | 350.6  | 362.7  | 366.7  | 368.7  | 350.6  |
| 67.5° | 220.4  | 214.4  | 218.4  | 222.4  | 228.4  | 236.5  | 248.5  | 248.5  | 254.5  | 254.5  | 242.4  |
| 70°   | 140.3  | 140.3  | 142.3  | 148.3  | 152.3  | 154.3  | 158.3  | 162.3  | 168.3  | 166.3  | 166.3  |
| 72.5° | 94.2   | 92.2   | 94.2   | 96.2   | 98.2   | 104.2  | 104.2  | 106.2  | 110.2  | 112.2  | 104.2  |
| 75°   | 48.1   | 50.1   | 54.1   | 52.1   | 58.1   | 54.1   | 56.1   | 62.1   | 60.1   | 56.1   | 56.1   |
| 77.5° | 40.1   | 40.1   | 40.1   | 38.1   | 42.1   | 42.1   | 40.1   | 44.1   | 42.1   | 42.1   | 40.1   |
| 80°   | 28.0   | 30.1   | 28.0   | 26.0   | 28.0   | 26.0   | 26.0   | 26.0   | 26.0   | 26.0   | 24.0   |
| 82.5° | 22.1   | 18.0   | 20.1   | 18.0   | 20.1   | 20.1   | 18.0   | 16.0   | 16.0   | 18.0   | 16.0   |
| 85°   | 16.0   | 12.0   | 14.0   | 14.0   | 12.0   | 12.0   | 12.0   | 12.0   | 12.0   | 10.0   | 10.0   |
| 87.5° | 10.0   | 6.0    | 6.0    | 6.0    | 8.0    | 8.0    | 8.0    | 6.0    | 8.0    | 8.0    | 4.0    |
| 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°    | 3732.9 | 3732.9 | 3732.9 | 3732.9 | 3732.9 | 3732.9 | 3732.9 | 3732.9 | 3732.9 | 3732.9 | 3732.9 |
| 2.5°  | 3738.9 | 3736.9 | 3740.9 | 3738.9 | 3738.9 | 3736.9 | 3738.9 | 3736.9 | 3740.9 | 3732.9 | 3734.9 |
| 5°    | 3738.9 | 3734.9 | 3736.9 | 3738.9 | 3740.9 | 3736.9 | 3736.9 | 3736.9 | 3740.9 | 3736.9 | 3738.9 |
| 7.5°  | 3730.9 | 3728.9 | 3734.9 | 3738.9 | 3736.9 | 3734.9 | 3738.9 | 3736.9 | 3740.9 | 3738.9 | 3742.9 |
| 10°   | 3714.9 | 3716.9 | 3720.9 | 3726.9 | 3728.9 | 3730.9 | 3734.9 | 3734.9 | 3740.9 | 3732.9 | 3736.9 |
| 12.5° | 3690.8 | 3698.8 | 3708.9 | 3712.9 | 3720.9 | 3720.9 | 3724.9 | 3726.9 | 3730.9 | 3728.9 | 3734.9 |
| 15°   | 3660.8 | 3670.8 | 3682.8 | 3692.9 | 3702.9 | 3708.9 | 3714.9 | 3716.9 | 3722.9 | 3716.9 | 3718.9 |
| 17.5° | 3624.7 | 3636.7 | 3654.8 | 3666.8 | 3682.8 | 3688.8 | 3696.8 | 3700.8 | 3706.9 | 3702.9 | 3704.9 |
| 20°   | 3574.6 | 3588.7 | 3608.7 | 3626.7 | 3636.7 | 3650.7 | 3660.8 | 3666.8 | 3670.8 | 3666.8 | 3668.8 |
| 22.5° | 3504.5 | 3524.5 | 3550.6 | 3564.6 | 3584.6 | 3596.7 | 3598.7 | 3612.7 | 3622.7 | 3612.7 | 3616.7 |
| 25°   | 3422.3 | 3442.4 | 3462.4 | 3492.5 | 3510.5 | 3524.5 | 3538.6 | 3540.6 | 3550.6 | 3548.6 | 3546.6 |
| 27.5° | 3286.1 | 3312.2 | 3346.2 | 3370.3 | 3394.3 | 3416.3 | 3432.4 | 3436.3 | 3446.4 | 3442.4 | 3444.4 |
| 30°   | 3099.7 | 3127.8 | 3159.9 | 3197.9 | 3232.0 | 3254.0 | 3274.1 | 3288.1 | 3298.1 | 3292.1 | 3290.1 |
| 32.5° | 2835.3 | 2863.3 | 2897.4 | 2935.4 | 2975.5 | 3007.5 | 3031.6 | 3049.7 | 3061.7 | 3057.7 | 3047.7 |
| 35°   | 2532.7 | 2540.7 | 2562.8 | 2592.8 | 2626.8 | 2660.9 | 2683.0 | 2703.0 | 2717.0 | 2721.0 | 2721.0 |
| 37.5° | 2222.1 | 2196.1 | 2180.1 | 2180.1 | 2200.1 | 2214.1 | 2234.1 | 2246.1 | 2268.2 | 2276.2 | 2282.2 |
| 40°   | 1921.5 | 1861.4 | 1805.3 | 1763.3 | 1735.2 | 1733.2 | 1733.2 | 1739.2 | 1759.3 | 1785.3 | 1809.4 |
| 42.5° | 1653.1 | 1556.9 | 1470.7 | 1392.6 | 1336.5 | 1304.4 | 1290.4 | 1292.4 | 1308.4 | 1332.5 | 1372.5 |
| 45°   | 1438.7 | 1318.4 | 1210.2 | 1116.1 | 1039.9 | 989.8  | 965.8  | 963.8  | 975.8  | 1003.8 | 1048.0 |
| 47.5° | 1272.4 | 1144.1 | 1021.9 | 913.7  | 831.6  | 777.4  | 749.4  | 741.4  | 749.4  | 775.4  | 827.5  |
| 50°   | 1134.1 | 1001.9 | 875.6  | 763.4  | 675.3  | 619.2  | 593.1  | 583.1  | 593.1  | 615.1  | 667.2  |
| 52.5° | 1005.8 | 869.6  | 751.4  | 643.2  | 549.0  | 500.9  | 472.9  | 466.8  | 472.9  | 498.9  | 541.0  |
| 55°   | 857.6  | 741.4  | 625.2  | 516.9  | 434.8  | 386.7  | 364.7  | 358.7  | 364.7  | 388.7  | 432.8  |
| 57.5° | 711.3  | 611.1  | 509.0  | 410.8  | 340.6  | 298.5  | 278.5  | 270.5  | 284.5  | 300.5  | 352.7  |
| 60°   | 575.0  | 494.9  | 408.7  | 322.6  | 264.5  | 226.4  | 210.4  | 208.4  | 212.4  | 232.4  | 268.5  |
| 62.5° | 450.9  | 384.7  | 316.6  | 246.5  | 198.4  | 182.3  | 162.3  | 160.3  | 164.3  | 176.3  | 204.4  |
| 65°   | 324.6  | 282.5  | 230.4  | 180.3  | 142.3  | 120.2  | 112.2  | 114.2  | 118.2  | 126.2  | 152.3  |
| 67.5° | 226.4  | 196.4  | 160.3  | 126.2  | 98.2   | 88.2   | 80.2   | 78.1   | 80.2   | 94.2   | 108.2  |
| 70°   | 152.3  | 134.2  | 108.2  | 96.2   | 68.1   | 54.1   | 56.1   | 50.1   | 58.1   | 58.1   | 70.1   |
| 72.5° | 100.2  | 88.2   | 72.1   | 56.1   | 48.1   | 38.1   | 38.1   | 36.1   | 40.1   | 42.1   | 52.1   |
| 75°   | 52.1   | 40.1   | 40.1   | 28.0   | 20.1   | 10.0   | 18.0   | 16.0   | 14.0   | 16.0   | 20.1   |
| 77.5° | 36.1   | 30.1   | 28.0   | 22.1   | 20.1   | 16.0   | 16.0   | 16.0   | 16.0   | 18.0   | 20.1   |
| 80°   | 22.1   | 22.1   | 16.0   | 14.0   | 12.0   | 10.0   | 12.0   | 12.0   | 12.0   | 12.0   | 14.0   |
| 82.5° | 14.0   | 12.0   | 12.0   | 10.0   | 10.0   | 8.0    | 8.0    | 8.0    | 8.0    | 8.0    | 12.0   |
| 85°   | 12.0   | 8.0    | 8.0    | 6.0    | 8.0    | 14.0   | 6.0    | 8.0    | 8.0    | 8.0    | 6.0    |
| 87.5° | 4.0    | 6.0    | 6.0    | 6.0    | 4.0    | 2.0    | 4.0    | 6.0    | 6.0    | 10.0   | 8.0    |
| 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):**

|       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3732.9 | 3732.9 | 3732.9 | 3732.9 | 3732.9 | 3732.9 | 3732.9 | 3732.9 | 3732.9 | 3732.9 | 3732.9 |
| 2.5°  | 3738.9 | 3740.9 | 3740.9 | 3738.9 | 3738.9 | 3734.9 | 3742.9 | 3736.9 | 3738.9 | 3746.9 | 3740.9 |
| 5°    | 3742.9 | 3744.9 | 3744.9 | 3742.9 | 3742.9 | 3742.9 | 3744.9 | 3744.9 | 3742.9 | 3740.9 | 3744.9 |
| 7.5°  | 3751.0 | 3748.9 | 3748.9 | 3744.9 | 3744.9 | 3740.9 | 3744.9 | 3738.9 | 3742.9 | 3738.9 | 3744.9 |
| 10°   | 3740.9 | 3742.9 | 3740.9 | 3738.9 | 3738.9 | 3736.9 | 3736.9 | 3730.9 | 3732.9 | 3726.9 | 3730.9 |
| 12.5° | 3734.9 | 3732.9 | 3732.9 | 3728.9 | 3724.9 | 3720.9 | 3718.9 | 3712.9 | 3712.9 | 3698.8 | 3704.9 |
| 15°   | 3718.9 | 3720.9 | 3714.9 | 3706.9 | 3702.9 | 3692.9 | 3688.8 | 3680.8 | 3672.8 | 3662.8 | 3664.8 |
| 17.5° | 3704.9 | 3698.8 | 3690.8 | 3682.8 | 3666.8 | 3658.8 | 3650.7 | 3638.7 | 3634.7 | 3622.7 | 3618.7 |
| 20°   | 3662.8 | 3658.8 | 3648.8 | 3634.7 | 3624.7 | 3606.7 | 3598.7 | 3586.7 | 3576.6 | 3564.6 | 3558.6 |
| 22.5° | 3608.7 | 3604.7 | 3592.6 | 3578.6 | 3562.6 | 3554.6 | 3546.6 | 3524.5 | 3514.5 | 3502.5 | 3500.5 |
| 25°   | 3540.6 | 3534.5 | 3522.5 | 3506.5 | 3498.5 | 3476.4 | 3468.4 | 3452.4 | 3448.4 | 3436.3 | 3434.4 |
| 27.5° | 3436.3 | 3428.3 | 3414.3 | 3394.3 | 3380.3 | 3366.2 | 3358.2 | 3346.2 | 3342.2 | 3330.1 | 3328.2 |
| 30°   | 3280.1 | 3270.0 | 3242.0 | 3234.0 | 3209.9 | 3195.9 | 3195.9 | 3179.9 | 3181.9 | 3173.9 | 3173.9 |
| 32.5° | 3033.6 | 3017.6 | 2995.5 | 2979.5 | 2963.5 | 2955.5 | 2955.5 | 2949.4 | 2953.5 | 2953.5 | 2957.5 |
| 35°   | 2707.0 | 2685.0 | 2672.9 | 2662.9 | 2662.9 | 2670.9 | 2695.0 | 2701.0 | 2713.0 | 2723.0 | 2731.1 |
| 37.5° | 2288.2 | 2286.3 | 2300.3 | 2312.3 | 2342.3 | 2376.4 | 2418.5 | 2454.6 | 2488.6 | 2512.7 | 2536.7 |
| 40°   | 1835.4 | 1885.5 | 1925.6 | 1981.7 | 2027.7 | 2093.9 | 2170.0 | 2232.1 | 2290.2 | 2332.3 | 2376.4 |
| 42.5° | 1432.6 | 1496.8 | 1580.9 | 1663.1 | 1745.2 | 1835.4 | 1935.6 | 2021.7 | 2097.9 | 2156.0 | 2202.1 |
| 45°   | 1116.1 | 1204.2 | 1306.4 | 1410.6 | 1516.8 | 1629.0 | 1733.2 | 1821.4 | 1901.5 | 1961.6 | 2007.7 |
| 47.5° | 899.7  | 995.8  | 1112.0 | 1226.3 | 1346.5 | 1464.7 | 1580.9 | 1657.1 | 1723.2 | 1771.3 | 1813.4 |
| 50°   | 743.4  | 845.6  | 967.8  | 1098.0 | 1218.2 | 1336.5 | 1436.7 | 1510.8 | 1564.9 | 1607.0 | 1633.0 |
| 52.5° | 621.1  | 729.3  | 859.6  | 989.8  | 1110.0 | 1218.2 | 1308.4 | 1364.5 | 1408.6 | 1438.7 | 1462.7 |
| 55°   | 512.9  | 617.2  | 739.4  | 861.6  | 979.8  | 1082.0 | 1156.1 | 1198.2 | 1232.3 | 1250.3 | 1264.3 |
| 57.5° | 418.8  | 514.9  | 627.2  | 739.4  | 841.6  | 925.7  | 983.8  | 1025.9 | 1041.9 | 1056.0 | 1053.9 |
| 60°   | 328.6  | 418.8  | 521.0  | 617.2  | 705.3  | 773.4  | 815.5  | 839.5  | 851.6  | 857.6  | 853.6  |
| 62.5° | 258.5  | 340.6  | 418.8  | 502.9  | 567.1  | 625.2  | 665.3  | 665.3  | 671.2  | 673.2  | 679.3  |
| 65°   | 192.3  | 254.5  | 322.6  | 384.7  | 436.8  | 474.9  | 496.9  | 502.9  | 511.0  | 509.0  | 504.9  |
| 67.5° | 142.3  | 188.4  | 238.4  | 284.5  | 320.6  | 344.6  | 360.6  | 374.7  | 372.7  | 368.7  | 366.7  |
| 70°   | 98.2   | 128.3  | 172.3  | 200.4  | 226.4  | 250.5  | 254.5  | 256.5  | 258.5  | 260.5  | 256.5  |
| 72.5° | 68.1   | 90.2   | 114.2  | 138.3  | 154.3  | 164.3  | 174.3  | 176.3  | 176.3  | 176.3  | 174.3  |
| 75°   | 34.1   | 46.1   | 68.1   | 78.1   | 92.2   | 96.2   | 104.2  | 104.2  | 110.2  | 102.2  | 100.2  |
| 77.5° | 30.1   | 36.1   | 48.1   | 56.1   | 62.1   | 68.1   | 70.1   | 76.1   | 74.1   | 70.1   | 72.1   |
| 80°   | 18.0   | 22.1   | 30.1   | 34.1   | 42.1   | 44.1   | 46.1   | 48.1   | 46.1   | 48.1   | 48.1   |
| 82.5° | 14.0   | 16.0   | 20.1   | 20.1   | 26.0   | 26.0   | 28.0   | 28.0   | 30.1   | 30.1   | 30.1   |
| 85°   | 8.0    | 14.0   | 12.0   | 24.0   | 16.0   | 16.0   | 20.1   | 24.0   | 20.1   | 20.1   | 24.0   |
| 87.5° | 8.0    | 8.0    | 6.0    | 8.0    | 8.0    | 8.0    | 10.0   | 12.0   | 12.0   | 14.0   | 12.0   |
| 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: P249363

CATALOG NUMBER: LD8B80D010 ER8B80935 8LBDW0GPH

**CANDELA DISTRIBUTION (continued):**

|       | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 3732.9 | 3732.9 | 3732.9 | 3732.9 |
| 2.5°  | 3738.9 | 3742.9 | 3736.9 | 3734.9 |
| 5°    | 3744.9 | 3744.9 | 3740.9 | 3740.9 |
| 7.5°  | 3744.9 | 3744.9 | 3738.9 | 3734.9 |
| 10°   | 3728.9 | 3728.9 | 3722.9 | 3718.9 |
| 12.5° | 3698.8 | 3698.8 | 3696.8 | 3690.8 |
| 15°   | 3660.8 | 3660.8 | 3652.7 | 3646.8 |
| 17.5° | 3608.7 | 3612.7 | 3602.7 | 3602.7 |
| 20°   | 3552.6 | 3550.6 | 3542.6 | 3538.6 |
| 22.5° | 3494.5 | 3490.5 | 3488.5 | 3476.4 |
| 25°   | 3432.4 | 3428.3 | 3422.3 | 3416.3 |
| 27.5° | 3326.2 | 3324.2 | 3318.1 | 3310.1 |
| 30°   | 3163.8 | 3161.8 | 3153.8 | 3153.8 |
| 32.5° | 2953.5 | 2951.5 | 2943.5 | 2945.5 |
| 35°   | 2735.1 | 2743.1 | 2739.1 | 2731.1 |
| 37.5° | 2552.7 | 2558.7 | 2562.8 | 2558.7 |
| 40°   | 2400.4 | 2418.5 | 2420.5 | 2424.5 |
| 42.5° | 2238.2 | 2262.2 | 2270.2 | 2274.2 |
| 45°   | 2043.8 | 2065.8 | 2083.9 | 2079.8 |
| 47.5° | 1845.4 | 1861.4 | 1877.5 | 1865.4 |
| 50°   | 1655.1 | 1665.1 | 1671.1 | 1671.1 |
| 52.5° | 1474.7 | 1474.7 | 1472.7 | 1474.7 |
| 55°   | 1268.3 | 1268.3 | 1260.4 | 1264.3 |
| 57.5° | 1051.9 | 1056.0 | 1049.9 | 1039.9 |
| 60°   | 851.6  | 841.6  | 837.5  | 831.6  |
| 62.5° | 663.2  | 663.2  | 649.2  | 667.2  |
| 65°   | 496.9  | 490.9  | 484.9  | 482.9  |
| 67.5° | 360.6  | 358.7  | 352.7  | 350.6  |
| 70°   | 254.5  | 246.5  | 244.5  | 240.4  |
| 72.5° | 170.3  | 170.3  | 166.3  | 166.3  |
| 75°   | 104.2  | 94.2   | 92.2   | 94.2   |
| 77.5° | 72.1   | 70.1   | 70.1   | 68.1   |
| 80°   | 48.1   | 46.1   | 50.1   | 44.1   |
| 82.5° | 30.1   | 32.1   | 30.1   | 32.1   |
| 85°   | 20.1   | 24.0   | 22.1   | 22.1   |
| 87.5° | 12.0   | 12.0   | 12.0   | 12.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)