

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: P249579

Luminaire Tested: **LSR8B80D010 EC8B80935 8LBDW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249579  
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: LSR8B80D010 EC8B80935 8LBDW0MW  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7157.0 lumens  
Efficiency: N/A  
Efficacy: 96.2 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

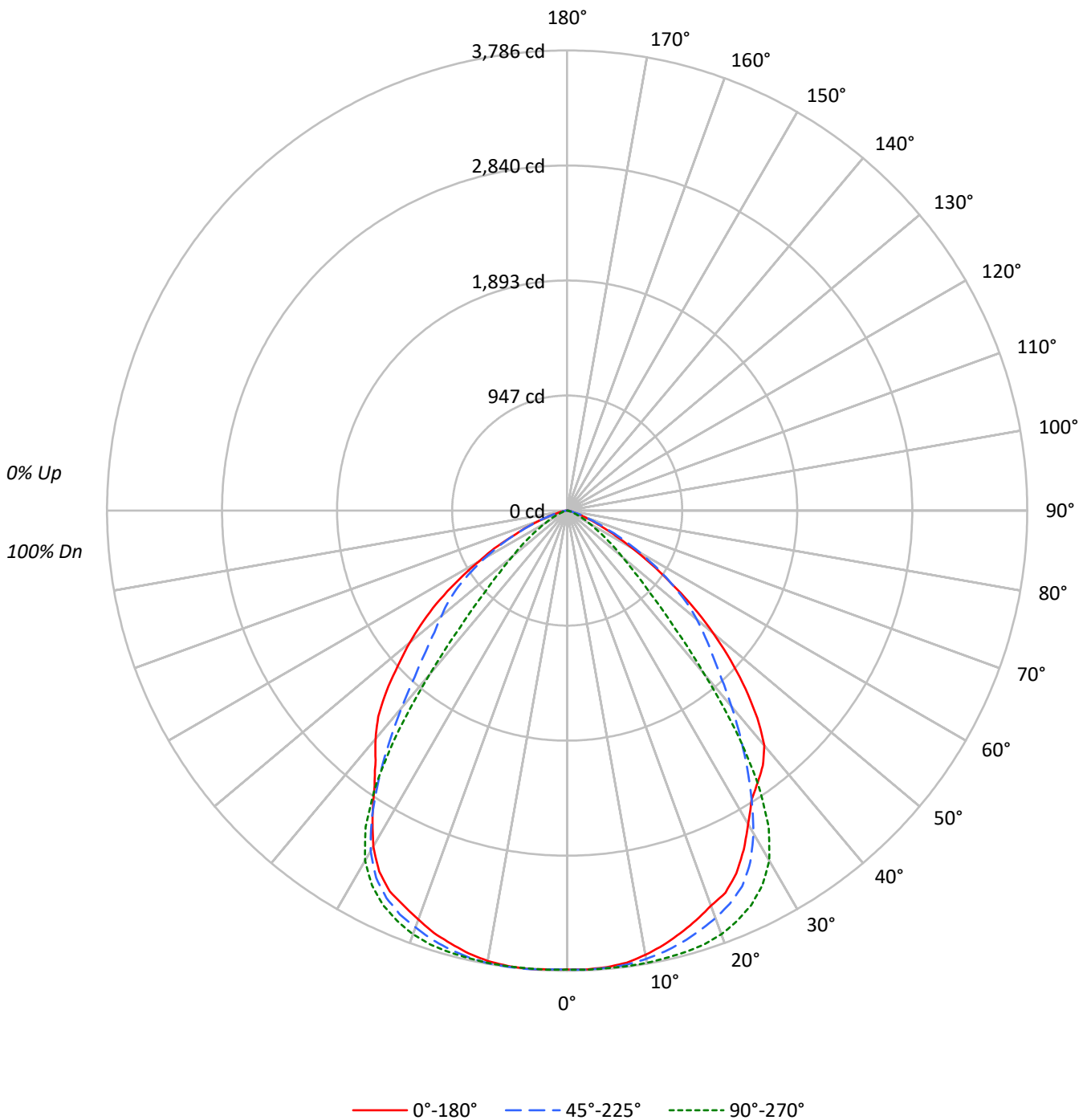
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°  | 116444 | 116444 | 116444 |
| 5°  | 116700 | 117013 | 117140 |
| 10° | 116208 | 118303 | 117796 |
| 15° | 114920 | 120035 | 117768 |
| 20° | 113541 | 121722 | 117466 |
| 25° | 112069 | 121861 | 117584 |
| 30° | 106023 | 118435 | 113600 |
| 35° | 102855 | 102931 | 104000 |
| 40° | 101581 | 70823  | 98727  |
| 45° | 90515  | 42519  | 91754  |
| 50° | 75265  | 28294  | 81098  |
| 55° | 56444  | 19505  | 68761  |
| 60° | 38249  | 13001  | 51879  |
| 65° | 23072  | 8435   | 35643  |
| 70° | 12794  | 4571   | 21927  |
| 75° | 5802   | 1930   | 11354  |
| 80° | 5043   | 2166   | 7920   |
| 85° | 5732   | 2866   | 7890   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 360.4  | 5.0       |
| 10°-20°   | 1046.6 | 14.6      |
| 20°-30°   | 1588.5 | 22.2      |
| 30°-40°   | 1668.4 | 23.3      |
| 40°-50°   | 1250.9 | 17.5      |
| 50°-60°   | 802.6  | 11.2      |
| 60°-70°   | 343.3  | 4.8       |
| 70°-80°   | 81.1   | 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°    | 2995.5 | 41.9      |
| 0°-40°    | 4664.0 | 65.2      |
| 0°-60°    | 6717.5 | 93.9      |
| 0°-90°    | 7157.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7157.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 3776 | 3776 | 3776 | 3776 | 3776 |      |
| 5°  | 3770 | 3776 | 3780 | 3786 | 3784 | 358  |
| 15° | 3600 | 3675 | 3760 | 3736 | 3689 | 1015 |
| 25° | 3294 | 3409 | 3582 | 3517 | 3456 | 1505 |
| 35° | 2732 | 2580 | 2734 | 2702 | 2763 | 1715 |
| 45° | 2076 | 1696 | 975  | 1648 | 2104 | 1590 |
| 55° | 1050 | 1050 | 363  | 1094 | 1279 | 952  |
| 65° | 316  | 373  | 116  | 480  | 488  | 338  |
| 75° | 49   | 57   | 16   | 97   | 95   | 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°    | 3776.2 | 3776.2 | 3776.2 | 3776.2 | 3776.2 | 3776.2 | 3776.2 | 3776.2 | 3776.2 | 3776.2 | 3776.2 |
| 2.5°  | 3778.2 | 3782.3 | 3780.2 | 3780.2 | 3778.2 | 3780.2 | 3780.2 | 3784.3 | 3784.3 | 3780.2 | 3778.2 |
| 5°    | 3770.1 | 3774.1 | 3774.1 | 3770.1 | 3770.1 | 3780.2 | 3774.1 | 3778.2 | 3778.2 | 3776.2 | 3776.2 |
| 7.5°  | 3751.9 | 3751.9 | 3760.0 | 3753.9 | 3753.9 | 3760.0 | 3757.9 | 3762.0 | 3766.1 | 3768.1 | 3768.1 |
| 10°   | 3711.3 | 3715.4 | 3717.4 | 3717.4 | 3719.4 | 3725.5 | 3729.6 | 3737.7 | 3741.7 | 3745.8 | 3747.8 |
| 12.5° | 3660.7 | 3666.7 | 3668.7 | 3666.7 | 3672.8 | 3680.9 | 3691.1 | 3701.2 | 3707.3 | 3715.4 | 3721.5 |
| 15°   | 3599.8 | 3599.8 | 3603.9 | 3610.0 | 3614.0 | 3626.2 | 3636.3 | 3648.5 | 3664.7 | 3674.8 | 3685.0 |
| 17.5° | 3533.0 | 3537.0 | 3543.1 | 3543.1 | 3551.2 | 3571.4 | 3577.5 | 3595.8 | 3614.0 | 3624.2 | 3644.4 |
| 20°   | 3460.0 | 3464.0 | 3470.1 | 3474.2 | 3484.3 | 3500.5 | 3512.7 | 3528.9 | 3549.2 | 3567.4 | 3587.7 |
| 22.5° | 3403.2 | 3395.1 | 3399.1 | 3403.2 | 3413.4 | 3427.6 | 3441.7 | 3462.0 | 3482.3 | 3500.5 | 3520.8 |
| 25°   | 3293.8 | 3295.8 | 3301.9 | 3305.9 | 3318.1 | 3330.3 | 3346.5 | 3370.8 | 3389.0 | 3409.3 | 3431.6 |
| 27.5° | 3145.8 | 3147.8 | 3158.0 | 3158.0 | 3168.1 | 3188.4 | 3198.5 | 3218.8 | 3243.1 | 3263.4 | 3289.7 |
| 30°   | 2977.6 | 2981.6 | 2981.6 | 2989.7 | 2995.8 | 3006.0 | 3016.1 | 3036.4 | 3048.5 | 3066.8 | 3103.3 |
| 32.5° | 2823.5 | 2827.6 | 2825.5 | 2823.5 | 2817.4 | 2815.4 | 2813.4 | 2817.4 | 2821.5 | 2827.6 | 2841.7 |
| 35°   | 2732.3 | 2722.2 | 2714.1 | 2699.9 | 2683.7 | 2663.4 | 2645.1 | 2620.8 | 2598.5 | 2580.3 | 2560.0 |
| 37.5° | 2645.1 | 2643.1 | 2631.0 | 2610.7 | 2578.2 | 2541.8 | 2499.2 | 2446.5 | 2393.8 | 2337.1 | 2282.3 |
| 40°   | 2523.5 | 2517.4 | 2507.3 | 2478.9 | 2442.4 | 2397.9 | 2341.1 | 2276.2 | 2191.1 | 2104.0 | 2014.8 |
| 42.5° | 2316.8 | 2318.8 | 2306.7 | 2284.3 | 2249.9 | 2207.3 | 2148.5 | 2077.6 | 1986.4 | 1883.0 | 1767.5 |
| 45°   | 2075.6 | 2075.6 | 2071.5 | 2053.3 | 2029.0 | 1994.5 | 1949.9 | 1891.1 | 1802.0 | 1696.5 | 1572.9 |
| 47.5° | 1824.2 | 1826.3 | 1820.2 | 1816.1 | 1806.0 | 1783.7 | 1751.3 | 1706.7 | 1643.9 | 1542.5 | 1418.8 |
| 50°   | 1568.9 | 1568.9 | 1579.0 | 1576.9 | 1576.9 | 1568.9 | 1554.7 | 1528.3 | 1473.6 | 1392.5 | 1277.0 |
| 52.5° | 1313.4 | 1317.5 | 1323.6 | 1331.7 | 1341.8 | 1358.0 | 1341.8 | 1329.7 | 1295.2 | 1232.4 | 1133.1 |
| 55°   | 1049.9 | 1054.0 | 1064.1 | 1078.3 | 1090.5 | 1106.7 | 1110.7 | 1110.7 | 1092.5 | 1049.9 | 975.0  |
| 57.5° | 825.0  | 818.9  | 827.0  | 839.2  | 855.4  | 871.6  | 883.7  | 897.9  | 895.9  | 867.5  | 806.7  |
| 60°   | 620.2  | 622.3  | 628.3  | 640.5  | 652.7  | 666.9  | 683.1  | 695.2  | 701.3  | 687.1  | 648.6  |
| 62.5° | 452.0  | 452.0  | 460.1  | 472.3  | 478.4  | 498.6  | 508.8  | 514.9  | 520.9  | 518.9  | 494.6  |
| 65°   | 316.2  | 320.2  | 324.3  | 330.4  | 336.5  | 348.6  | 354.7  | 366.9  | 370.9  | 373.0  | 354.7  |
| 67.5° | 223.0  | 216.9  | 220.9  | 225.0  | 231.1  | 239.2  | 251.4  | 251.4  | 257.4  | 257.4  | 245.3  |
| 70°   | 141.9  | 141.9  | 143.9  | 150.0  | 154.0  | 156.1  | 160.1  | 164.2  | 170.3  | 168.2  | 168.2  |
| 72.5° | 95.3   | 93.2   | 95.3   | 97.3   | 99.3   | 105.4  | 105.4  | 107.4  | 111.5  | 113.5  | 105.4  |
| 75°   | 48.7   | 50.7   | 54.7   | 52.7   | 58.8   | 54.7   | 56.7   | 62.8   | 60.8   | 56.7   | 56.7   |
| 77.5° | 40.5   | 40.5   | 40.5   | 38.5   | 42.6   | 42.6   | 40.5   | 44.6   | 42.6   | 42.6   | 40.5   |
| 80°   | 28.4   | 30.4   | 28.4   | 26.3   | 28.4   | 26.3   | 26.3   | 26.3   | 26.3   | 26.3   | 24.3   |
| 82.5° | 22.3   | 18.3   | 20.3   | 18.3   | 20.3   | 20.3   | 18.3   | 16.2   | 16.2   | 18.3   | 16.2   |
| 85°   | 16.2   | 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°    | 3776.2 | 3776.2 | 3776.2 | 3776.2 | 3776.2 | 3776.2 | 3776.2 | 3776.2 | 3776.2 | 3776.2 | 3776.2 |
| 2.5°  | 3782.3 | 3780.2 | 3784.3 | 3782.3 | 3782.3 | 3780.2 | 3782.3 | 3780.2 | 3784.3 | 3776.2 | 3778.2 |
| 5°    | 3782.3 | 3778.2 | 3780.2 | 3782.3 | 3784.3 | 3780.2 | 3780.2 | 3780.2 | 3784.3 | 3780.2 | 3782.3 |
| 7.5°  | 3774.1 | 3772.1 | 3778.2 | 3782.3 | 3780.2 | 3778.2 | 3782.3 | 3780.2 | 3784.3 | 3782.3 | 3786.3 |
| 10°   | 3757.9 | 3760.0 | 3764.0 | 3770.1 | 3772.1 | 3774.1 | 3778.2 | 3778.2 | 3784.3 | 3776.2 | 3780.2 |
| 12.5° | 3733.6 | 3741.7 | 3751.9 | 3755.9 | 3764.0 | 3764.0 | 3768.1 | 3770.1 | 3774.1 | 3772.1 | 3778.2 |
| 15°   | 3703.2 | 3713.3 | 3725.5 | 3735.7 | 3745.8 | 3751.9 | 3757.9 | 3760.0 | 3766.1 | 3760.0 | 3762.0 |
| 17.5° | 3666.7 | 3678.9 | 3697.1 | 3709.3 | 3725.5 | 3731.6 | 3739.7 | 3743.7 | 3749.8 | 3745.8 | 3747.8 |
| 20°   | 3616.0 | 3630.3 | 3650.5 | 3668.7 | 3678.9 | 3693.1 | 3703.2 | 3709.3 | 3713.3 | 3709.3 | 3711.3 |
| 22.5° | 3545.1 | 3565.4 | 3591.7 | 3605.9 | 3626.2 | 3638.3 | 3640.4 | 3654.6 | 3664.7 | 3654.6 | 3658.6 |
| 25°   | 3462.0 | 3482.3 | 3502.6 | 3533.0 | 3551.2 | 3565.4 | 3579.6 | 3581.6 | 3591.7 | 3589.7 | 3587.7 |
| 27.5° | 3324.2 | 3350.5 | 3385.0 | 3409.3 | 3433.6 | 3455.9 | 3472.2 | 3476.2 | 3486.3 | 3482.3 | 3484.3 |
| 30°   | 3135.6 | 3164.1 | 3196.5 | 3235.0 | 3269.5 | 3291.7 | 3312.0 | 3326.2 | 3336.3 | 3330.3 | 3328.2 |
| 32.5° | 2868.1 | 2896.5 | 2931.0 | 2969.4 | 3010.0 | 3042.4 | 3066.8 | 3085.0 | 3097.2 | 3093.1 | 3083.0 |
| 35°   | 2562.1 | 2570.2 | 2592.5 | 2622.9 | 2657.3 | 2691.8 | 2714.1 | 2734.3 | 2748.5 | 2752.6 | 2752.6 |
| 37.5° | 2247.9 | 2221.5 | 2205.3 | 2205.3 | 2225.6 | 2239.7 | 2260.0 | 2272.2 | 2294.5 | 2302.6 | 2308.7 |
| 40°   | 1943.8 | 1883.0 | 1826.3 | 1783.7 | 1755.3 | 1753.3 | 1753.3 | 1759.4 | 1779.6 | 1806.0 | 1830.3 |
| 42.5° | 1672.2 | 1574.9 | 1487.8 | 1408.7 | 1352.0 | 1319.5 | 1305.4 | 1307.4 | 1323.6 | 1347.9 | 1388.4 |
| 45°   | 1455.3 | 1333.7 | 1224.3 | 1129.0 | 1052.0 | 1001.3 | 977.0  | 975.0  | 987.1  | 1015.5 | 1060.1 |
| 47.5° | 1287.1 | 1157.4 | 1033.7 | 924.3  | 841.2  | 786.4  | 758.1  | 750.0  | 758.1  | 784.4  | 837.1  |
| 50°   | 1147.2 | 1013.5 | 885.8  | 772.3  | 683.1  | 626.3  | 600.0  | 589.8  | 600.0  | 622.3  | 675.0  |
| 52.5° | 1017.5 | 879.7  | 760.1  | 650.6  | 555.4  | 506.7  | 478.4  | 472.3  | 478.4  | 504.7  | 547.3  |
| 55°   | 867.5  | 750.0  | 632.4  | 522.9  | 439.9  | 391.2  | 368.9  | 362.8  | 368.9  | 393.2  | 437.8  |
| 57.5° | 719.6  | 618.2  | 514.9  | 415.5  | 344.6  | 302.0  | 281.8  | 273.6  | 287.8  | 304.0  | 356.7  |
| 60°   | 581.7  | 500.7  | 413.5  | 326.3  | 267.6  | 229.0  | 212.8  | 210.8  | 214.8  | 235.1  | 271.6  |
| 62.5° | 456.1  | 389.2  | 320.2  | 249.3  | 200.7  | 184.4  | 164.2  | 162.2  | 166.2  | 178.3  | 206.8  |
| 65°   | 328.4  | 285.8  | 233.1  | 182.4  | 143.9  | 121.6  | 113.5  | 115.6  | 119.6  | 127.7  | 154.0  |
| 67.5° | 229.0  | 198.6  | 162.2  | 127.7  | 99.3   | 89.2   | 81.1   | 79.1   | 81.1   | 95.3   | 109.5  |
| 70°   | 154.0  | 135.8  | 109.5  | 97.3   | 68.9   | 54.7   | 56.7   | 50.7   | 58.8   | 58.8   | 70.9   |
| 72.5° | 101.3  | 89.2   | 73.0   | 56.7   | 48.7   | 38.5   | 38.5   | 36.5   | 40.5   | 42.6   | 52.7   |
| 75°   | 52.7   | 40.5   | 40.5   | 28.4   | 20.3   | 10.1   | 18.3   | 16.2   | 14.2   | 16.2   | 20.3   |
| 77.5° | 36.5   | 30.4   | 28.4   | 22.3   | 20.3   | 16.2   | 16.2   | 16.2   | 16.2   | 18.3   | 20.3   |
| 80°   | 22.3   | 22.3   | 16.2   | 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°    | 3776.2 | 3776.2 | 3776.2 | 3776.2 | 3776.2 | 3776.2 | 3776.2 | 3776.2 | 3776.2 | 3776.2 | 3776.2 |
| 2.5°  | 3782.3 | 3784.3 | 3784.3 | 3782.3 | 3782.3 | 3778.2 | 3786.3 | 3780.2 | 3782.3 | 3790.4 | 3784.3 |
| 5°    | 3786.3 | 3788.3 | 3788.3 | 3786.3 | 3786.3 | 3786.3 | 3788.3 | 3788.3 | 3786.3 | 3784.3 | 3788.3 |
| 7.5°  | 3794.4 | 3792.4 | 3792.4 | 3788.3 | 3788.3 | 3784.3 | 3788.3 | 3782.3 | 3786.3 | 3782.3 | 3788.3 |
| 10°   | 3784.3 | 3786.3 | 3784.3 | 3782.3 | 3782.3 | 3780.2 | 3780.2 | 3774.1 | 3776.2 | 3770.1 | 3774.1 |
| 12.5° | 3778.2 | 3776.2 | 3776.2 | 3772.1 | 3768.1 | 3764.0 | 3762.0 | 3755.9 | 3755.9 | 3741.7 | 3747.8 |
| 15°   | 3762.0 | 3764.0 | 3757.9 | 3749.8 | 3745.8 | 3735.7 | 3731.6 | 3723.5 | 3715.4 | 3705.3 | 3707.3 |
| 17.5° | 3747.8 | 3741.7 | 3733.6 | 3725.5 | 3709.3 | 3701.2 | 3693.1 | 3680.9 | 3676.8 | 3664.7 | 3660.7 |
| 20°   | 3705.3 | 3701.2 | 3691.1 | 3676.8 | 3666.7 | 3648.5 | 3640.4 | 3628.2 | 3618.1 | 3605.9 | 3599.8 |
| 22.5° | 3650.5 | 3646.4 | 3634.3 | 3620.1 | 3603.9 | 3595.8 | 3587.7 | 3565.4 | 3555.2 | 3543.1 | 3541.0 |
| 25°   | 3581.6 | 3575.5 | 3563.4 | 3547.1 | 3539.0 | 3516.7 | 3508.6 | 3492.4 | 3488.4 | 3476.2 | 3474.2 |
| 27.5° | 3476.2 | 3468.1 | 3453.9 | 3433.6 | 3419.4 | 3405.2 | 3397.2 | 3385.0 | 3380.9 | 3368.7 | 3366.8 |
| 30°   | 3318.1 | 3307.9 | 3279.6 | 3271.5 | 3247.1 | 3233.0 | 3233.0 | 3216.7 | 3218.8 | 3210.7 | 3210.7 |
| 32.5° | 3068.8 | 3052.6 | 3030.3 | 3014.0 | 2997.8 | 2989.7 | 2989.7 | 2983.6 | 2987.7 | 2987.7 | 2991.8 |
| 35°   | 2738.4 | 2716.1 | 2703.9 | 2693.8 | 2693.8 | 2701.9 | 2726.2 | 2732.3 | 2744.5 | 2754.6 | 2762.7 |
| 37.5° | 2314.7 | 2312.7 | 2326.9 | 2339.1 | 2369.5 | 2404.0 | 2446.5 | 2483.0 | 2517.4 | 2541.8 | 2566.1 |
| 40°   | 1856.7 | 1907.4 | 1947.9 | 2004.7 | 2051.2 | 2118.1 | 2195.2 | 2258.0 | 2316.8 | 2359.4 | 2404.0 |
| 42.5° | 1449.2 | 1514.1 | 1599.3 | 1682.3 | 1765.5 | 1856.7 | 1958.0 | 2045.2 | 2122.2 | 2181.0 | 2227.6 |
| 45°   | 1129.0 | 1218.2 | 1321.6 | 1427.0 | 1534.4 | 1647.9 | 1753.3 | 1842.5 | 1923.6 | 1984.4 | 2031.0 |
| 47.5° | 910.1  | 1007.4 | 1124.9 | 1240.5 | 1362.1 | 1481.7 | 1599.3 | 1676.3 | 1743.1 | 1791.8 | 1834.4 |
| 50°   | 752.0  | 855.4  | 979.0  | 1110.7 | 1232.4 | 1352.0 | 1453.3 | 1528.3 | 1583.0 | 1625.6 | 1651.9 |
| 52.5° | 628.3  | 737.8  | 869.6  | 1001.3 | 1122.9 | 1232.4 | 1323.6 | 1380.3 | 1424.9 | 1455.3 | 1479.6 |
| 55°   | 518.9  | 624.3  | 748.0  | 871.6  | 991.2  | 1094.5 | 1169.5 | 1212.1 | 1246.5 | 1264.8 | 1279.0 |
| 57.5° | 423.6  | 520.9  | 634.4  | 748.0  | 851.3  | 936.5  | 995.2  | 1037.8 | 1054.0 | 1068.2 | 1066.2 |
| 60°   | 332.4  | 423.6  | 527.0  | 624.3  | 713.5  | 782.4  | 825.0  | 849.3  | 861.4  | 867.5  | 863.5  |
| 62.5° | 261.5  | 344.6  | 423.6  | 508.8  | 573.6  | 632.4  | 673.0  | 673.0  | 679.0  | 681.0  | 687.1  |
| 65°   | 194.6  | 257.4  | 326.3  | 389.2  | 441.8  | 480.4  | 502.7  | 508.8  | 516.9  | 514.9  | 510.8  |
| 67.5° | 143.9  | 190.5  | 241.2  | 287.8  | 324.3  | 348.6  | 364.8  | 379.1  | 377.0  | 373.0  | 370.9  |
| 70°   | 99.3   | 129.7  | 174.3  | 202.7  | 229.0  | 253.4  | 257.4  | 259.4  | 261.5  | 263.5  | 259.4  |
| 72.5° | 68.9   | 91.2   | 115.6  | 139.9  | 156.1  | 166.2  | 176.4  | 178.3  | 178.3  | 178.3  | 176.4  |
| 75°   | 34.5   | 46.6   | 68.9   | 79.1   | 93.2   | 97.3   | 105.4  | 105.4  | 111.5  | 103.4  | 101.3  |
| 77.5° | 30.4   | 36.5   | 48.7   | 56.7   | 62.8   | 68.9   | 70.9   | 77.0   | 75.0   | 70.9   | 73.0   |
| 80°   | 18.3   | 22.3   | 30.4   | 34.5   | 42.6   | 44.6   | 46.6   | 48.7   | 46.6   | 48.7   | 48.7   |
| 82.5° | 14.2   | 16.2   | 20.3   | 20.3   | 26.3   | 26.3   | 28.4   | 28.4   | 30.4   | 30.4   | 30.4   |
| 85°   | 8.1    | 14.2   | 12.2   | 24.3   | 16.2   | 16.2   | 20.3   | 24.3   | 20.3   | 20.3   | 24.3   |
| 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: P249579

CATALOG NUMBER: LSR8B80D010 EC8B80935 8LBDW0MW

**CANDELA DISTRIBUTION (continued):**

|       | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 3776.2 | 3776.2 | 3776.2 | 3776.2 |
| 2.5°  | 3782.3 | 3786.3 | 3780.2 | 3778.2 |
| 5°    | 3788.3 | 3788.3 | 3784.3 | 3784.3 |
| 7.5°  | 3788.3 | 3788.3 | 3782.3 | 3778.2 |
| 10°   | 3772.1 | 3772.1 | 3766.1 | 3762.0 |
| 12.5° | 3741.7 | 3741.7 | 3739.7 | 3733.6 |
| 15°   | 3703.2 | 3703.2 | 3695.1 | 3689.0 |
| 17.5° | 3650.5 | 3654.6 | 3644.4 | 3644.4 |
| 20°   | 3593.8 | 3591.7 | 3583.6 | 3579.6 |
| 22.5° | 3535.0 | 3530.9 | 3528.9 | 3516.7 |
| 25°   | 3472.2 | 3468.1 | 3462.0 | 3455.9 |
| 27.5° | 3364.7 | 3362.7 | 3356.6 | 3348.5 |
| 30°   | 3200.5 | 3198.5 | 3190.4 | 3190.4 |
| 32.5° | 2987.7 | 2985.7 | 2977.6 | 2979.6 |
| 35°   | 2766.8 | 2774.9 | 2770.8 | 2762.7 |
| 37.5° | 2582.3 | 2588.4 | 2592.5 | 2588.4 |
| 40°   | 2428.3 | 2446.5 | 2448.5 | 2452.6 |
| 42.5° | 2264.1 | 2288.4 | 2296.5 | 2300.6 |
| 45°   | 2067.5 | 2089.8 | 2108.0 | 2104.0 |
| 47.5° | 1866.8 | 1883.0 | 1899.2 | 1887.1 |
| 50°   | 1674.3 | 1684.4 | 1690.5 | 1690.5 |
| 52.5° | 1491.8 | 1491.8 | 1489.8 | 1491.8 |
| 55°   | 1283.0 | 1283.0 | 1275.0 | 1279.0 |
| 57.5° | 1064.1 | 1068.2 | 1062.1 | 1052.0 |
| 60°   | 861.4  | 851.3  | 847.2  | 841.2  |
| 62.5° | 670.9  | 670.9  | 656.7  | 675.0  |
| 65°   | 502.7  | 496.6  | 490.5  | 488.5  |
| 67.5° | 364.8  | 362.8  | 356.7  | 354.7  |
| 70°   | 257.4  | 249.3  | 247.3  | 243.2  |
| 72.5° | 172.3  | 172.3  | 168.2  | 168.2  |
| 75°   | 105.4  | 95.3   | 93.2   | 95.3   |
| 77.5° | 73.0   | 70.9   | 70.9   | 68.9   |
| 80°   | 48.7   | 46.6   | 50.7   | 44.6   |
| 82.5° | 30.4   | 32.4   | 30.4   | 32.4   |
| 85°   | 20.3   | 24.3   | 22.3   | 22.3   |
| 87.5° | 12.2   | 12.2   | 12.2   | 12.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)