

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: P#

Luminaire Tested: **LD4C60D010 EX4C609040 4LBSQLWWLI**

Issue Date: 2/18/2022



**Test Information**

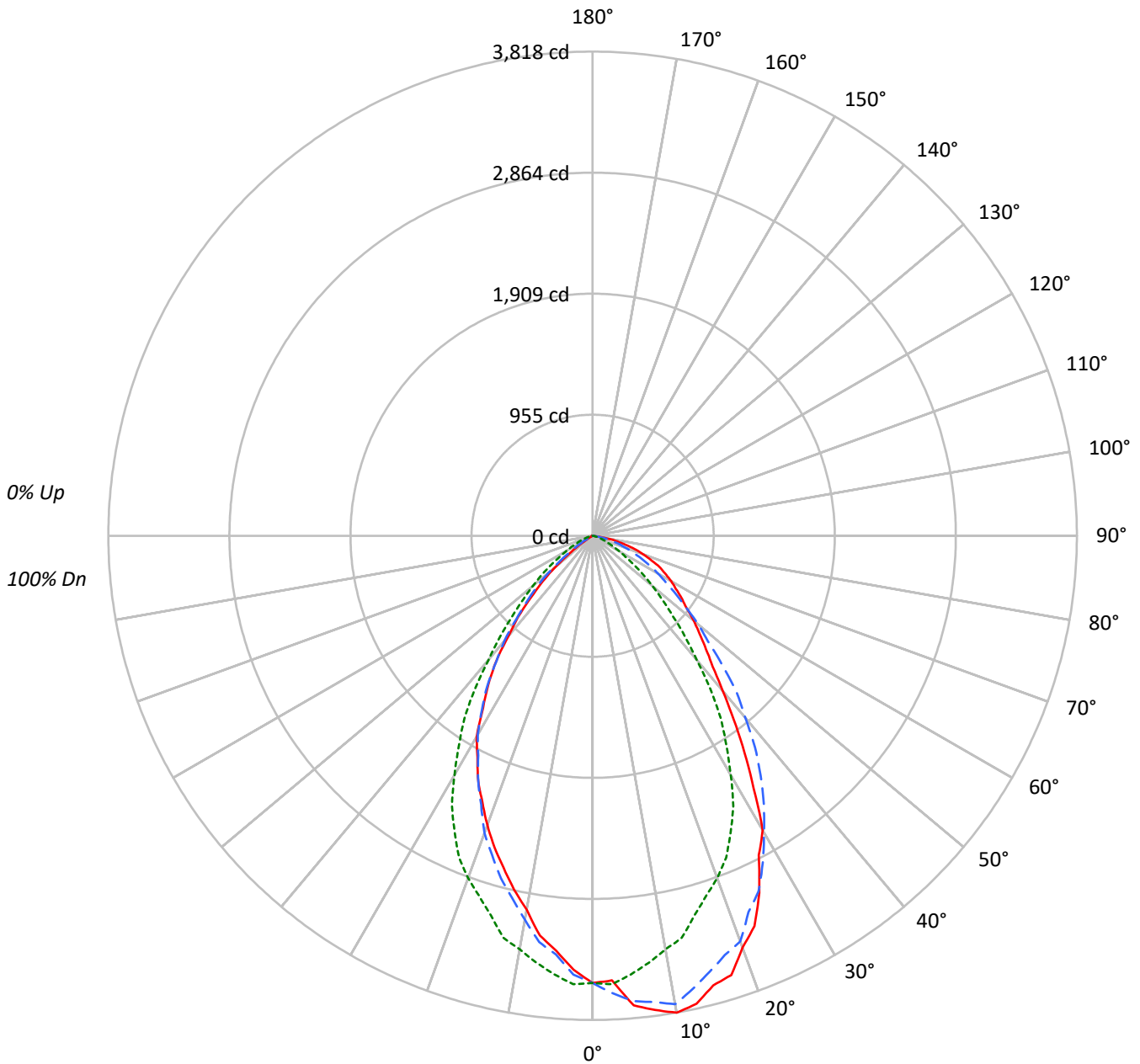
Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P219529)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C60D010 EX4C609040 4LBSQLWWLI  
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LBSQLWW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5055.0 lumens  
Efficiency: N/A  
Efficacy: 70.2 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1 / 1.06  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 72  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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





TEST NUMBER: P#

CATALOG NUMBER: LD4C60D010 EX4C609040 4LBSQLWWLI

**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   | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 98  | 98  | 96  | 95  | 95  | 93  | 92  | 90  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 104 | 98  | 93  | 89  | 102 | 96  | 92  | 88  | 93  | 89  | 86  | 90  | 87  | 84  | 87  | 84  | 82  | 80  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 97  | 89  | 83  | 78  | 95  | 88  | 82  | 77  | 85  | 80  | 76  | 82  | 78  | 75  | 80  | 77  | 74  | 72  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 91  | 81  | 74  | 69  | 89  | 80  | 74  | 69  | 78  | 72  | 68  | 76  | 71  | 67  | 74  | 70  | 66  | 64  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 85  | 75  | 67  | 62  | 83  | 74  | 67  | 62  | 72  | 66  | 61  | 70  | 65  | 60  | 68  | 64  | 60  | 58  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 80  | 69  | 61  | 56  | 78  | 68  | 61  | 56  | 66  | 60  | 55  | 65  | 59  | 55  | 63  | 58  | 54  | 53  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 75  | 63  | 56  | 51  | 73  | 63  | 56  | 51  | 61  | 55  | 50  | 60  | 54  | 50  | 59  | 54  | 50  | 48  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 70  | 59  | 52  | 47  | 69  | 58  | 51  | 46  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 44  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 47  | 43  | 53  | 47  | 43  | 52  | 46  | 42  | 51  | 46  | 42  | 41  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 62  | 51  | 44  | 40  | 61  | 51  | 44  | 40  | 50  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 38  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°     | 90°    | 180°   |
|-----|--------|--------|--------|
| 0°  | 340268 | 340268 | 340268 |
| 5°  | 360000 | 336250 | 318235 |
| 10° | 374117 | 324403 | 293315 |
| 15° | 366636 | 309607 | 270749 |
| 20° | 354743 | 294808 | 249218 |
| 25° | 330889 | 274155 | 227343 |
| 30° | 298695 | 242619 | 203534 |
| 35° | 246054 | 207701 | 168854 |
| 40° | 200801 | 160318 | 129963 |
| 45° | 172521 | 121760 | 93472  |
| 50° | 156144 | 92678  | 59038  |
| 55° | 143696 | 66852  | 21348  |
| 60° | 137921 | 45678  | 3261   |
| 65° | 133220 | 30891  | 982    |
| 70° | 119278 | 21441  | 1213   |
| 75° | 97749  | 11072  | 0      |
| 80° | 61122  | 4668   | 0      |
| 85° | 0      | 0      | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 330.4  | 6.5       |
| 10°-20°   | 890.2  | 17.6      |
| 20°-30°   | 1188.7 | 23.5      |
| 30°-40°   | 1128.4 | 22.3      |
| 40°-50°   | 780.0  | 15.4      |
| 50°-60°   | 431.0  | 8.5       |
| 60°-70°   | 214.0  | 4.2       |
| 70°-80°   | 84.3   | 1.7       |
| 80°-90°   | 8.0    | 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°    | 2409.3 | 47.7      |
| 0°-40°    | 3537.7 | 70.0      |
| 0°-60°    | 4748.6 | 93.9      |
| 0°-90°    | 5055.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5055.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 3526 | 3526 | 3526 | 3526 | 3526 |      |
| 5°  | 3717 | 3683 | 3472 | 3315 | 3286 | 356  |
| 15° | 3670 | 3560 | 3099 | 2795 | 2710 | 1038 |
| 25° | 3108 | 3095 | 2575 | 2135 | 2135 | 1417 |
| 35° | 2089 | 2309 | 1763 | 1450 | 1434 | 1309 |
| 45° | 1264 | 1450 | 892  | 732  | 685  | 986  |
| 55° | 854  | 804  | 397  | 203  | 127  | 769  |
| 65° | 584  | 423  | 135  | 4    | 4    | 566  |
| 75° | 262  | 161  | 30   | 0    | 0    | 279  |
| 85° | 0    | 4    | 0    | 0    | 0    | 24   |
| 90° | 0    | 0    | 0    | 0    | 0    |      |



TEST NUMBER: P#

CATALOG NUMBER: LD4C60D010 EX4C609040 4LBSQLWWLI

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3526.5 | 3526.5 | 3526.5 | 3526.5 | 3526.5 | 3526.5 | 3526.5 | 3526.5 | 3526.5 | 3526.5 | 3526.5 |
| 2.5°  | 3509.6 | 3606.8 | 3615.3 | 3606.8 | 3619.6 | 3615.3 | 3636.5 | 3615.3 | 3640.8 | 3602.7 | 3611.1 |
| 5°    | 3716.8 | 3678.7 | 3759.1 | 3716.8 | 3716.8 | 3712.7 | 3699.9 | 3695.6 | 3712.7 | 3657.7 | 3683.0 |
| 7.5°  | 3771.8 | 3826.8 | 3898.7 | 3809.9 | 3814.1 | 3814.1 | 3788.7 | 3780.3 | 3780.3 | 3678.7 | 3708.4 |
| 10°   | 3818.4 | 3784.4 | 3822.5 | 3788.7 | 3818.4 | 3814.1 | 3831.0 | 3776.0 | 3814.1 | 3754.9 | 3750.6 |
| 12.5° | 3780.3 | 3767.5 | 3818.4 | 3763.4 | 3746.5 | 3750.6 | 3729.6 | 3716.8 | 3729.6 | 3661.8 | 3657.7 |
| 15°   | 3670.3 | 3683.0 | 3759.1 | 3699.9 | 3691.5 | 3683.0 | 3657.7 | 3615.3 | 3649.2 | 3556.1 | 3560.4 |
| 17.5° | 3632.3 | 3611.1 | 3623.9 | 3573.0 | 3585.8 | 3577.3 | 3573.0 | 3535.1 | 3526.5 | 3467.3 | 3467.3 |
| 20°   | 3454.8 | 3501.1 | 3501.1 | 3467.3 | 3467.3 | 3463.2 | 3408.2 | 3442.0 | 3403.9 | 3387.0 | 3403.9 |
| 22.5° | 3332.0 | 3336.3 | 3336.3 | 3306.6 | 3311.0 | 3294.1 | 3264.4 | 3243.2 | 3264.4 | 3243.2 | 3209.4 |
| 25°   | 3108.0 | 3116.5 | 3167.2 | 3112.2 | 3103.7 | 3120.6 | 3095.3 | 3082.5 | 3078.4 | 3027.7 | 3095.3 |
| 27.5° | 2837.3 | 2921.8 | 2917.7 | 2896.5 | 2921.8 | 2888.0 | 2875.4 | 2879.6 | 2892.3 | 2888.0 | 2904.9 |
| 30°   | 2680.9 | 2693.5 | 2706.3 | 2689.4 | 2693.5 | 2680.9 | 2680.9 | 2685.1 | 2718.9 | 2706.3 | 2702.0 |
| 32.5° | 2363.7 | 2405.9 | 2439.9 | 2439.9 | 2444.0 | 2456.8 | 2452.5 | 2541.3 | 2562.5 | 2520.2 | 2511.8 |
| 35°   | 2088.9 | 2118.5 | 2148.0 | 2152.3 | 2207.3 | 2211.4 | 2215.8 | 2241.1 | 2300.2 | 2313.0 | 2308.7 |
| 37.5° | 1826.8 | 1856.3 | 1864.7 | 1902.8 | 1932.5 | 1962.0 | 1995.9 | 2029.7 | 2080.4 | 2122.6 | 2101.6 |
| 40°   | 1594.2 | 1606.8 | 1628.0 | 1644.9 | 1704.0 | 1704.0 | 1720.9 | 1788.7 | 1843.7 | 1877.5 | 1873.2 |
| 42.5° | 1399.7 | 1403.8 | 1420.7 | 1450.4 | 1505.4 | 1492.6 | 1505.4 | 1551.9 | 1632.1 | 1636.4 | 1683.0 |
| 45°   | 1264.3 | 1260.0 | 1272.8 | 1276.9 | 1310.9 | 1327.8 | 1336.2 | 1370.0 | 1437.6 | 1446.1 | 1450.4 |
| 47.5° | 1141.8 | 1137.4 | 1158.7 | 1167.1 | 1179.7 | 1196.6 | 1196.6 | 1200.9 | 1226.2 | 1247.4 | 1230.6 |
| 50°   | 1040.2 | 1040.2 | 1040.2 | 1048.7 | 1069.9 | 1065.5 | 1069.9 | 1086.8 | 1099.3 | 1090.9 | 1086.8 |
| 52.5° | 930.2  | 947.1  | 959.9  | 964.2  | 968.3  | 968.3  | 972.6  | 964.2  | 959.9  | 947.1  | 921.8  |
| 55°   | 854.2  | 871.1  | 871.1  | 871.1  | 871.1  | 888.0  | 866.9  | 871.1  | 871.1  | 837.3  | 803.5  |
| 57.5° | 778.1  | 795.0  | 807.6  | 790.7  | 807.6  | 790.7  | 782.3  | 778.1  | 769.5  | 735.7  | 685.0  |
| 60°   | 714.7  | 723.1  | 718.8  | 714.7  | 723.1  | 710.4  | 701.9  | 685.0  | 676.6  | 630.0  | 596.2  |
| 62.5° | 642.8  | 646.9  | 651.2  | 642.8  | 634.3  | 630.0  | 613.1  | 587.8  | 570.9  | 532.8  | 503.1  |
| 65°   | 583.5  | 570.9  | 566.6  | 562.4  | 554.0  | 541.2  | 528.6  | 499.0  | 486.2  | 452.4  | 422.8  |
| 67.5° | 494.7  | 490.5  | 499.0  | 486.2  | 465.2  | 465.2  | 452.4  | 427.1  | 397.4  | 376.4  | 346.7  |
| 70°   | 422.8  | 418.6  | 410.2  | 397.4  | 393.3  | 376.4  | 376.4  | 346.7  | 338.3  | 300.2  | 274.8  |
| 72.5° | 346.7  | 346.7  | 334.0  | 321.4  | 308.6  | 300.2  | 296.0  | 274.8  | 262.2  | 241.0  | 219.8  |
| 75°   | 262.2  | 262.2  | 257.9  | 245.2  | 236.7  | 228.3  | 224.1  | 207.2  | 194.5  | 173.4  | 160.7  |
| 77.5° | 186.0  | 186.0  | 169.1  | 160.7  | 164.8  | 156.4  | 147.9  | 143.8  | 139.5  | 126.9  | 110.0  |
| 80°   | 110.0  | 105.7  | 93.1   | 97.2   | 93.1   | 93.1   | 88.8   | 84.5   | 76.0   | 67.6   | 59.1   |
| 82.5° | 29.7   | 33.8   | 33.8   | 33.8   | 38.1   | 29.7   | 29.7   | 29.7   | 33.8   | 33.8   | 21.2   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 4.3    | 4.3    | 4.3    |
| 87.5° | 4.3    | 8.4    | 16.9   | 16.9   | 16.9   | 16.9   | 16.9   | 12.8   | 12.8   | 12.8   | 8.4    |
| 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):**

|       | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3526.5 | 3526.5 | 3526.5 | 3526.5 | 3526.5 | 3526.5 | 3526.5 | 3526.5 | 3526.5 | 3526.5 | 3526.5 |
| 2.5°  | 3568.9 | 3564.6 | 3568.9 | 3539.2 | 3606.8 | 3556.1 | 3547.7 | 3539.2 | 3568.9 | 3539.2 | 3497.0 |
| 5°    | 3644.9 | 3602.7 | 3589.9 | 3577.3 | 3615.3 | 3556.1 | 3543.5 | 3547.7 | 3526.5 | 3471.6 | 3475.8 |
| 7.5°  | 3670.3 | 3632.3 | 3594.2 | 3513.9 | 3547.7 | 3535.1 | 3501.1 | 3475.8 | 3442.0 | 3395.4 | 3387.0 |
| 10°   | 3678.7 | 3636.5 | 3581.5 | 3556.1 | 3505.4 | 3488.5 | 3475.8 | 3433.5 | 3391.3 | 3311.0 | 3289.8 |
| 12.5° | 3653.4 | 3602.7 | 3535.1 | 3513.9 | 3475.8 | 3420.8 | 3391.3 | 3348.9 | 3311.0 | 3247.5 | 3201.0 |
| 15°   | 3543.5 | 3501.1 | 3480.1 | 3408.2 | 3391.3 | 3357.3 | 3298.2 | 3239.1 | 3184.1 | 3099.4 | 3074.1 |
| 17.5° | 3416.6 | 3399.8 | 3378.5 | 3323.5 | 3319.4 | 3285.6 | 3230.6 | 3179.7 | 3108.0 | 2976.8 | 2934.6 |
| 20°   | 3285.6 | 3285.6 | 3217.9 | 3196.8 | 3239.1 | 3171.3 | 3129.1 | 3082.5 | 2934.6 | 2871.1 | 2795.1 |
| 22.5° | 3188.4 | 3141.8 | 3103.7 | 3069.9 | 3074.1 | 3031.8 | 2972.7 | 2879.6 | 2824.6 | 2748.5 | 2659.7 |
| 25°   | 2998.0 | 3014.9 | 2930.4 | 2917.7 | 2930.4 | 2833.0 | 2803.5 | 2727.3 | 2647.0 | 2575.1 | 2507.5 |
| 27.5° | 2879.6 | 2833.0 | 2778.2 | 2731.6 | 2731.6 | 2693.5 | 2609.0 | 2592.1 | 2469.4 | 2401.8 | 2317.1 |
| 30°   | 2702.0 | 2668.2 | 2621.6 | 2554.0 | 2545.6 | 2515.9 | 2448.3 | 2405.9 | 2279.2 | 2177.6 | 2131.1 |
| 32.5° | 2477.8 | 2465.2 | 2427.1 | 2351.1 | 2325.8 | 2291.8 | 2207.3 | 2135.4 | 2076.3 | 1962.0 | 1907.1 |
| 35°   | 2317.1 | 2270.8 | 2190.4 | 2127.0 | 2105.8 | 2046.6 | 1978.9 | 1928.2 | 1864.7 | 1763.3 | 1691.4 |
| 37.5° | 2076.3 | 2029.7 | 1953.5 | 1877.5 | 1877.5 | 1818.3 | 1725.2 | 1674.5 | 1585.7 | 1526.4 | 1467.3 |
| 40°   | 1864.7 | 1805.6 | 1729.5 | 1640.7 | 1628.0 | 1543.3 | 1505.4 | 1420.7 | 1365.7 | 1272.8 | 1264.3 |
| 42.5° | 1628.0 | 1573.0 | 1505.4 | 1437.6 | 1386.9 | 1344.7 | 1247.4 | 1184.0 | 1124.9 | 1078.3 | 1065.5 |
| 45°   | 1412.3 | 1340.4 | 1281.2 | 1196.6 | 1145.9 | 1095.2 | 1031.8 | 989.5  | 943.0  | 892.3  | 862.6  |
| 47.5° | 1226.2 | 1167.1 | 1082.4 | 1006.4 | 955.7  | 930.2  | 858.3  | 811.9  | 773.8  | 740.0  | 718.8  |
| 50°   | 1036.1 | 964.2  | 917.6  | 833.0  | 824.5  | 765.4  | 706.2  | 668.1  | 646.9  | 617.4  | 587.8  |
| 52.5° | 892.3  | 824.5  | 761.1  | 697.8  | 663.8  | 642.8  | 587.8  | 549.7  | 520.2  | 499.0  | 482.1  |
| 55°   | 752.6  | 693.5  | 642.8  | 579.3  | 558.1  | 528.6  | 465.2  | 456.7  | 427.1  | 397.4  | 376.4  |
| 57.5° | 646.9  | 591.9  | 532.8  | 490.5  | 452.4  | 431.4  | 380.5  | 346.7  | 329.8  | 304.5  | 283.3  |
| 60°   | 549.7  | 490.5  | 444.0  | 393.3  | 376.4  | 346.7  | 308.6  | 279.1  | 257.9  | 236.7  | 215.7  |
| 62.5° | 460.9  | 410.2  | 359.5  | 317.1  | 291.7  | 274.8  | 245.2  | 219.8  | 198.8  | 181.9  | 164.8  |
| 65°   | 380.5  | 334.0  | 291.7  | 249.5  | 236.7  | 215.7  | 194.5  | 173.4  | 156.4  | 135.3  | 118.4  |
| 67.5° | 312.9  | 270.7  | 228.3  | 198.8  | 186.0  | 177.6  | 152.2  | 131.0  | 118.4  | 105.7  | 88.8   |
| 70°   | 245.2  | 215.7  | 181.9  | 156.4  | 143.8  | 131.0  | 114.1  | 101.6  | 84.5   | 76.0   | 63.4   |
| 72.5° | 190.3  | 164.8  | 135.3  | 114.1  | 105.7  | 97.2   | 80.3   | 67.6   | 59.1   | 50.7   | 42.2   |
| 75°   | 135.3  | 114.1  | 97.2   | 76.0   | 71.9   | 67.6   | 55.0   | 46.6   | 38.1   | 29.7   | 25.3   |
| 77.5° | 93.1   | 76.0   | 59.1   | 50.7   | 46.6   | 38.1   | 33.8   | 25.3   | 21.2   | 16.9   | 12.8   |
| 80°   | 50.7   | 38.1   | 29.7   | 25.3   | 21.2   | 16.9   | 16.9   | 12.8   | 8.4    | 8.4    | 4.3    |
| 82.5° | 16.9   | 12.8   | 8.4    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 0.0    | 4.3    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 0.0    | 0.0    | 0.0    |
| 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: P#

CATALOG NUMBER: LD4C60D010 EX4C609040 4LBSQLWWLI

**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3526.5 | 3526.5 | 3526.5 | 3526.5 | 3526.5 | 3526.5 | 3526.5 | 3526.5 | 3526.5 | 3526.5 | 3526.5 |
| 2.5°  | 3522.3 | 3475.8 | 3488.5 | 3488.5 | 3480.1 | 3480.1 | 3471.6 | 3458.9 | 3463.2 | 3437.7 | 3382.9 |
| 5°    | 3484.2 | 3425.1 | 3416.6 | 3425.1 | 3391.3 | 3382.9 | 3366.0 | 3391.3 | 3315.1 | 3344.8 | 3311.0 |
| 7.5°  | 3374.4 | 3319.4 | 3306.6 | 3336.3 | 3294.1 | 3268.5 | 3264.4 | 3298.2 | 3230.6 | 3196.8 | 3158.7 |
| 10°   | 3251.6 | 3230.6 | 3192.5 | 3171.3 | 3158.7 | 3162.9 | 3129.1 | 3086.8 | 3074.1 | 3065.6 | 3031.8 |
| 12.5° | 3141.8 | 3095.3 | 3061.5 | 3036.1 | 3027.7 | 3027.7 | 2972.7 | 2964.2 | 2926.1 | 2917.7 | 2867.0 |
| 15°   | 3010.6 | 2955.8 | 2934.6 | 2900.8 | 2871.1 | 2888.0 | 2824.6 | 2807.7 | 2795.1 | 2740.1 | 2748.5 |
| 17.5° | 2896.5 | 2837.3 | 2786.6 | 2765.4 | 2740.1 | 2714.7 | 2655.4 | 2668.2 | 2638.5 | 2638.5 | 2562.5 |
| 20°   | 2748.5 | 2685.1 | 2647.0 | 2604.7 | 2604.7 | 2570.9 | 2528.7 | 2532.8 | 2494.7 | 2456.8 | 2389.0 |
| 22.5° | 2592.1 | 2524.4 | 2477.8 | 2460.9 | 2418.7 | 2410.2 | 2359.5 | 2346.8 | 2296.1 | 2300.2 | 2241.1 |
| 25°   | 2427.1 | 2359.5 | 2296.1 | 2300.2 | 2262.3 | 2245.4 | 2215.8 | 2156.6 | 2135.4 | 2110.1 | 2093.2 |
| 27.5° | 2232.6 | 2186.1 | 2131.1 | 2127.0 | 2055.1 | 2059.2 | 2021.3 | 2004.4 | 1953.5 | 1966.3 | 1928.2 |
| 30°   | 2055.1 | 1987.5 | 1936.6 | 1924.0 | 1894.4 | 1885.9 | 1826.8 | 1801.3 | 1809.9 | 1775.9 | 1754.9 |
| 32.5° | 1873.2 | 1771.8 | 1750.6 | 1725.2 | 1708.3 | 1687.1 | 1644.9 | 1661.8 | 1623.7 | 1632.1 | 1598.3 |
| 35°   | 1632.1 | 1589.9 | 1534.9 | 1534.9 | 1518.0 | 1501.1 | 1471.6 | 1488.5 | 1450.4 | 1433.5 | 1399.7 |
| 37.5° | 1429.2 | 1391.2 | 1336.2 | 1353.1 | 1323.5 | 1298.1 | 1272.8 | 1276.9 | 1243.1 | 1239.0 | 1205.0 |
| 40°   | 1209.3 | 1188.1 | 1150.2 | 1150.2 | 1129.0 | 1129.0 | 1116.2 | 1103.7 | 1082.4 | 1057.1 | 1019.0 |
| 42.5° | 1002.1 | 985.2  | 968.3  | 972.6  | 943.0  | 968.3  | 934.5  | 955.7  | 888.0  | 883.8  | 858.3  |
| 45°   | 849.9  | 811.9  | 816.1  | 799.2  | 782.3  | 790.7  | 761.1  | 769.5  | 731.6  | 723.1  | 697.8  |
| 47.5° | 689.3  | 676.6  | 651.2  | 642.8  | 642.8  | 630.0  | 617.4  | 613.1  | 596.2  | 575.0  | 541.2  |
| 50°   | 566.6  | 520.2  | 511.6  | 499.0  | 490.5  | 490.5  | 473.6  | 448.3  | 452.4  | 431.4  | 397.4  |
| 52.5° | 444.0  | 405.9  | 389.0  | 384.8  | 367.9  | 359.5  | 338.3  | 321.4  | 308.6  | 300.2  | 279.1  |
| 55°   | 342.4  | 308.6  | 287.6  | 287.6  | 262.2  | 262.2  | 232.6  | 219.8  | 202.9  | 186.0  | 173.4  |
| 57.5° | 257.9  | 241.0  | 219.8  | 202.9  | 194.5  | 173.4  | 156.4  | 135.3  | 122.6  | 97.2   | 80.3   |
| 60°   | 194.5  | 177.6  | 156.4  | 143.8  | 135.3  | 114.1  | 93.1   | 76.0   | 46.6   | 38.1   | 33.8   |
| 62.5° | 143.8  | 126.9  | 105.7  | 97.2   | 88.8   | 71.9   | 50.7   | 25.3   | 12.8   | 12.8   | 12.8   |
| 65°   | 105.7  | 84.5   | 67.6   | 59.1   | 50.7   | 38.1   | 16.9   | 8.4    | 4.3    | 4.3    | 4.3    |
| 67.5° | 71.9   | 55.0   | 38.1   | 33.8   | 25.3   | 12.8   | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    |
| 70°   | 46.6   | 33.8   | 16.9   | 12.8   | 8.4    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    |
| 72.5° | 29.7   | 16.9   | 8.4    | 4.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 16.9   | 8.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 8.4    | 4.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 4.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 4.3    | 4.3    | 4.3    |
| 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: P#

CATALOG NUMBER: LD4C60D010 EX4C609040 4LBSQLWWLI

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3526.5 | 3526.5 | 3526.5 | 3526.5 | 3526.5 | 3526.5 | 3526.5 | 3526.5 |
| 2.5°  | 3442.0 | 3412.3 | 3429.2 | 3391.3 | 3408.2 | 3437.7 | 3416.6 | 3425.1 |
| 5°    | 3323.5 | 3306.6 | 3285.6 | 3230.6 | 3272.9 | 3306.6 | 3289.8 | 3285.6 |
| 7.5°  | 3196.8 | 3137.5 | 3167.2 | 3150.3 | 3141.8 | 3175.6 | 3137.5 | 3179.7 |
| 10°   | 3065.6 | 3023.4 | 3019.2 | 2989.6 | 2989.6 | 3014.9 | 3019.2 | 2993.7 |
| 12.5° | 2871.1 | 2850.1 | 2850.1 | 2845.8 | 2841.5 | 2867.0 | 2871.1 | 2858.5 |
| 15°   | 2731.6 | 2723.2 | 2702.0 | 2697.8 | 2672.5 | 2710.4 | 2714.7 | 2710.4 |
| 17.5° | 2562.5 | 2566.6 | 2545.6 | 2545.6 | 2562.5 | 2575.1 | 2541.3 | 2575.1 |
| 20°   | 2448.3 | 2427.1 | 2418.7 | 2380.6 | 2401.8 | 2423.0 | 2423.0 | 2427.1 |
| 22.5° | 2283.3 | 2249.5 | 2262.3 | 2241.1 | 2228.3 | 2258.0 | 2258.0 | 2270.8 |
| 25°   | 2097.3 | 2097.3 | 2105.8 | 2093.2 | 2101.6 | 2118.5 | 2105.8 | 2135.4 |
| 27.5° | 1919.7 | 1936.6 | 1936.6 | 1919.7 | 1928.2 | 1978.9 | 2000.1 | 1966.3 |
| 30°   | 1754.9 | 1759.0 | 1771.8 | 1763.3 | 1788.7 | 1805.6 | 1801.3 | 1826.8 |
| 32.5° | 1568.8 | 1589.9 | 1598.3 | 1585.7 | 1594.2 | 1632.1 | 1611.1 | 1606.8 |
| 35°   | 1425.0 | 1386.9 | 1382.8 | 1386.9 | 1403.8 | 1412.3 | 1403.8 | 1433.5 |
| 37.5° | 1217.8 | 1205.0 | 1188.1 | 1192.4 | 1205.0 | 1222.1 | 1230.6 | 1251.6 |
| 40°   | 1019.0 | 1002.1 | 1002.1 | 998.0  | 985.2  | 1031.8 | 1031.8 | 1031.8 |
| 42.5° | 845.7  | 841.4  | 820.4  | 820.4  | 837.3  | 849.9  | 841.4  | 871.1  |
| 45°   | 693.5  | 676.6  | 663.8  | 663.8  | 676.6  | 676.6  | 689.3  | 685.0  |
| 47.5° | 545.5  | 528.6  | 532.8  | 520.2  | 532.8  | 549.7  | 528.6  | 532.8  |
| 50°   | 410.2  | 410.2  | 401.7  | 410.2  | 405.9  | 410.2  | 401.7  | 393.3  |
| 52.5° | 279.1  | 317.1  | 321.4  | 304.5  | 266.4  | 232.6  | 211.4  | 228.3  |
| 55°   | 160.7  | 143.8  | 143.8  | 139.5  | 131.0  | 126.9  | 114.1  | 126.9  |
| 57.5° | 80.3   | 71.9   | 71.9   | 71.9   | 67.6   | 63.4   | 55.0   | 55.0   |
| 60°   | 33.8   | 29.7   | 29.7   | 25.3   | 21.2   | 16.9   | 12.8   | 16.9   |
| 62.5° | 12.8   | 8.4    | 8.4    | 8.4    | 8.4    | 8.4    | 8.4    | 8.4    |
| 65°   | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    |
| 67.5° | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    |
| 70°   | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    | 4.3    |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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)