

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: **LD4C100D010 EX4C1009035 4LBSQLWWH**

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: LD4C100D010 EX4C1009035 4LBSQLWWH  
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBSQLWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

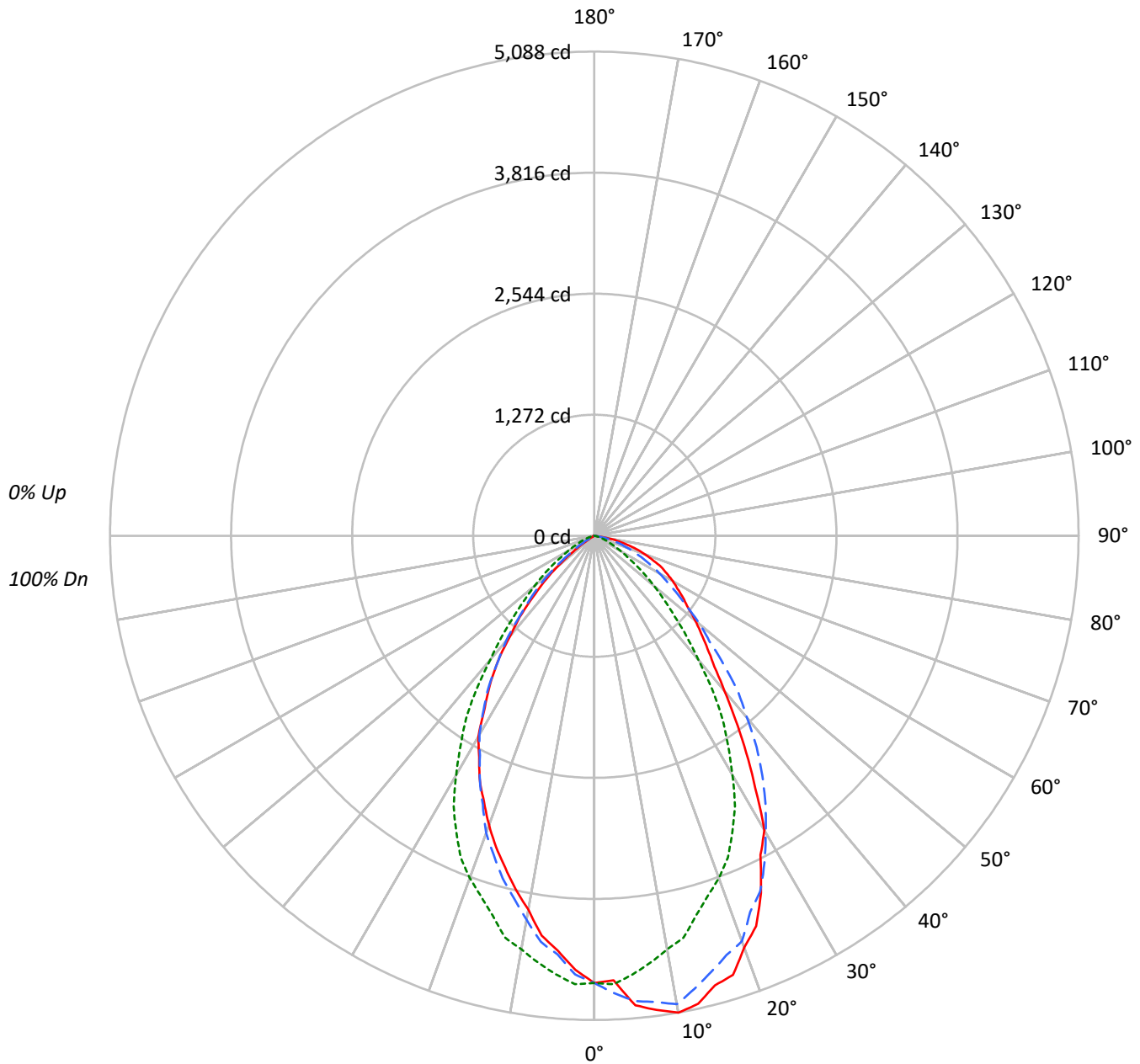
Lumens per Lamp: N/A  
Luminaire Lumens: 6736.0 lumens  
Efficiency: N/A  
Efficacy: 58.9 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1 / 1.06  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 114.4  
Input Voltage (V):  
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

TEST NUMBER: P#

CATALOG NUMBER: LD4C100D010 EX4C1009035 4LBSQLWWH

### Luminous Intensity Polar Plot





TEST NUMBER: P#

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|--|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |  | 20  |     |     |  | 20  |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |  | 30  |     |     |  | 10  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 98  |  | 98  | 96  | 95  |  | 95  |
| 2   | 104 | 98  | 93  | 89  | 102 | 96  | 92  | 88  | 93  | 89  | 86  |  | 90  | 87  | 84  |  | 87  |
| 3   | 97  | 89  | 83  | 78  | 95  | 88  | 82  | 77  | 85  | 80  | 76  |  | 82  | 78  | 75  |  | 80  |
| 4   | 91  | 81  | 74  | 69  | 89  | 80  | 74  | 69  | 78  | 72  | 68  |  | 76  | 71  | 67  |  | 74  |
| 5   | 85  | 75  | 67  | 62  | 83  | 74  | 67  | 62  | 72  | 66  | 61  |  | 70  | 65  | 60  |  | 68  |
| 6   | 80  | 69  | 61  | 56  | 78  | 68  | 61  | 56  | 66  | 60  | 55  |  | 65  | 59  | 55  |  | 63  |
| 7   | 75  | 63  | 56  | 51  | 73  | 63  | 56  | 51  | 61  | 55  | 50  |  | 60  | 54  | 50  |  | 59  |
| 8   | 70  | 59  | 52  | 47  | 69  | 58  | 51  | 46  | 57  | 51  | 46  |  | 56  | 50  | 46  |  | 55  |
| 9   | 66  | 55  | 48  | 43  | 65  | 54  | 47  | 43  | 53  | 47  | 43  |  | 52  | 46  | 42  |  | 51  |
| 10  | 62  | 51  | 44  | 40  | 61  | 51  | 44  | 40  | 50  | 44  | 39  |  | 49  | 43  | 39  |  | 48  |

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

|     | 0°     | 90°    | 180°   |
|-----|--------|--------|--------|
| 0°  | 453421 | 453421 | 453421 |
| 5°  | 479716 | 448072 | 424061 |
| 10° | 498529 | 432276 | 390851 |
| 15° | 488555 | 412567 | 360792 |
| 20° | 472704 | 392849 | 332102 |
| 25° | 440930 | 365320 | 302943 |
| 30° | 398033 | 323306 | 271219 |
| 35° | 327872 | 276774 | 225005 |
| 40° | 267571 | 213636 | 173179 |
| 45° | 229901 | 162246 | 124557 |
| 50° | 208068 | 123496 | 78673  |
| 55° | 191472 | 89091  | 28447  |
| 60° | 183773 | 60884  | 4342   |
| 65° | 177513 | 41188  | 1301   |
| 70° | 158943 | 28578  | 1608   |
| 75° | 130295 | 14726  | 0      |
| 80° | 81459  | 6279   | 0      |
| 85° | 0      | 0      | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 440.3  | 6.5       |
| 10°-20°   | 1186.2 | 17.6      |
| 20°-30°   | 1584.0 | 23.5      |
| 30°-40°   | 1503.6 | 22.3      |
| 40°-50°   | 1039.4 | 15.4      |
| 50°-60°   | 574.3  | 8.5       |
| 60°-70°   | 285.2  | 4.2       |
| 70°-80°   | 112.4  | 1.7       |
| 80°-90°   | 10.7   | 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°    | 3210.5 | 47.7      |
| 0°-40°    | 4714.1 | 70.0      |
| 0°-60°    | 6327.8 | 93.9      |
| 0°-90°    | 6736.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6736.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 4699 | 4699 | 4699 | 4699 | 4699 |      |
| 5°  | 4953 | 4908 | 4626 | 4418 | 4378 | 474  |
| 15° | 4891 | 4744 | 4130 | 3725 | 3612 | 1384 |
| 25° | 4142 | 4125 | 3431 | 2846 | 2846 | 1888 |
| 35° | 2784 | 3076 | 2350 | 1933 | 1910 | 1744 |
| 45° | 1685 | 1933 | 1189 | 975  | 913  | 1314 |
| 55° | 1138 | 1071 | 530  | 270  | 169  | 1024 |
| 65° | 778  | 563  | 180  | 6    | 6    | 755  |
| 75° | 350  | 214  | 40   | 0    | 0    | 372  |
| 85° | 0    | 6    | 0    | 0    | 0    | 32   |
| 90° | 0    | 0    | 0    | 0    | 0    |      |



TEST NUMBER: P#

CATALOG NUMBER: LD4C100D010 EX4C1009035 4LBSQLWWH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4699.2 | 4699.2 | 4699.2 | 4699.2 | 4699.2 | 4699.2 | 4699.2 | 4699.2 | 4699.2 | 4699.2 | 4699.2 |
| 2.5°  | 4676.7 | 4806.3 | 4817.5 | 4806.3 | 4823.3 | 4817.5 | 4845.8 | 4817.5 | 4851.5 | 4800.7 | 4812.0 |
| 5°    | 4952.8 | 4902.1 | 5009.1 | 4952.8 | 4952.8 | 4947.3 | 4930.3 | 4924.6 | 4947.3 | 4874.0 | 4907.8 |
| 7.5°  | 5026.1 | 5099.4 | 5195.2 | 5076.9 | 5082.4 | 5082.4 | 5048.6 | 5037.4 | 5037.4 | 4902.1 | 4941.6 |
| 10°   | 5088.2 | 5042.9 | 5093.7 | 5048.6 | 5088.2 | 5082.4 | 5104.9 | 5031.6 | 5082.4 | 5003.6 | 4997.9 |
| 12.5° | 5037.4 | 5020.4 | 5088.2 | 5014.9 | 4992.3 | 4997.9 | 4969.8 | 4952.8 | 4969.8 | 4879.5 | 4874.0 |
| 15°   | 4890.8 | 4907.8 | 5009.1 | 4930.3 | 4919.1 | 4907.8 | 4874.0 | 4817.5 | 4862.8 | 4738.7 | 4744.4 |
| 17.5° | 4840.2 | 4812.0 | 4829.0 | 4761.2 | 4778.2 | 4767.0 | 4761.2 | 4710.7 | 4699.2 | 4620.4 | 4620.4 |
| 20°   | 4603.6 | 4665.4 | 4665.4 | 4620.4 | 4620.4 | 4614.9 | 4541.6 | 4586.6 | 4535.8 | 4513.3 | 4535.8 |
| 22.5° | 4440.0 | 4445.8 | 4445.8 | 4406.2 | 4412.0 | 4389.5 | 4350.0 | 4321.7 | 4350.0 | 4321.7 | 4276.7 |
| 25°   | 4141.6 | 4152.8 | 4220.4 | 4147.1 | 4135.8 | 4158.3 | 4124.6 | 4107.6 | 4102.0 | 4034.5 | 4124.6 |
| 27.5° | 3780.9 | 3893.4 | 3887.9 | 3859.7 | 3893.4 | 3848.4 | 3831.6 | 3837.1 | 3854.1 | 3848.4 | 3870.9 |
| 30°   | 3572.5 | 3589.2 | 3606.2 | 3583.7 | 3589.2 | 3572.5 | 3572.5 | 3578.0 | 3623.0 | 3606.2 | 3600.5 |
| 32.5° | 3149.7 | 3206.0 | 3251.3 | 3251.3 | 3256.8 | 3273.8 | 3268.0 | 3386.4 | 3414.6 | 3358.3 | 3347.1 |
| 35°   | 2783.5 | 2823.0 | 2862.3 | 2868.0 | 2941.3 | 2946.8 | 2952.6 | 2986.4 | 3065.2 | 3082.2 | 3076.4 |
| 37.5° | 2434.3 | 2473.5 | 2484.8 | 2535.6 | 2575.1 | 2614.4 | 2659.6 | 2704.7 | 2772.2 | 2828.5 | 2800.5 |
| 40°   | 2124.3 | 2141.1 | 2169.3 | 2191.9 | 2270.7 | 2270.7 | 2293.2 | 2383.5 | 2456.8 | 2501.8 | 2496.1 |
| 42.5° | 1865.1 | 1870.7 | 1893.2 | 1932.7 | 2006.0 | 1989.0 | 2006.0 | 2068.0 | 2174.9 | 2180.6 | 2242.6 |
| 45°   | 1684.8 | 1679.1 | 1696.1 | 1701.6 | 1746.8 | 1769.3 | 1780.6 | 1825.6 | 1915.7 | 1927.0 | 1932.7 |
| 47.5° | 1521.4 | 1515.7 | 1544.0 | 1555.2 | 1572.0 | 1594.5 | 1594.5 | 1600.2 | 1634.0 | 1662.3 | 1639.8 |
| 50°   | 1386.1 | 1386.1 | 1386.1 | 1397.4 | 1425.6 | 1419.9 | 1425.6 | 1448.1 | 1464.9 | 1453.7 | 1448.1 |
| 52.5° | 1239.5 | 1262.0 | 1279.0 | 1284.8 | 1290.3 | 1290.3 | 1296.0 | 1284.8 | 1279.0 | 1262.0 | 1228.3 |
| 55°   | 1138.2 | 1160.7 | 1160.7 | 1160.7 | 1160.7 | 1183.2 | 1155.2 | 1160.7 | 1160.7 | 1115.7 | 1070.7 |
| 57.5° | 1036.9 | 1059.4 | 1076.2 | 1053.7 | 1076.2 | 1053.7 | 1042.4 | 1036.9 | 1025.4 | 980.4  | 912.8  |
| 60°   | 952.3  | 963.6  | 957.9  | 952.3  | 963.6  | 946.6  | 935.3  | 912.8  | 901.6  | 839.5  | 794.5  |
| 62.5° | 856.5  | 862.0  | 867.8  | 856.5  | 845.3  | 839.5  | 817.0  | 783.2  | 760.7  | 709.9  | 670.4  |
| 65°   | 777.5  | 760.7  | 755.0  | 749.5  | 738.2  | 721.2  | 704.4  | 664.9  | 647.9  | 602.9  | 563.4  |
| 67.5° | 659.2  | 653.7  | 664.9  | 647.9  | 619.9  | 619.9  | 602.9  | 569.1  | 529.6  | 501.6  | 462.0  |
| 70°   | 563.4  | 557.8  | 546.6  | 529.6  | 524.1  | 501.6  | 501.6  | 462.0  | 450.8  | 400.0  | 366.2  |
| 72.5° | 462.0  | 462.0  | 445.0  | 428.3  | 411.3  | 400.0  | 394.5  | 366.2  | 349.5  | 321.2  | 292.9  |
| 75°   | 349.5  | 349.5  | 343.7  | 326.7  | 315.5  | 304.2  | 298.7  | 276.2  | 259.2  | 231.1  | 214.1  |
| 77.5° | 247.9  | 247.9  | 225.4  | 214.1  | 219.7  | 208.4  | 197.1  | 191.6  | 185.9  | 169.1  | 146.6  |
| 80°   | 146.6  | 140.8  | 124.1  | 129.6  | 124.1  | 124.1  | 118.3  | 112.6  | 101.3  | 90.1   | 78.8   |
| 82.5° | 39.5   | 45.0   | 45.0   | 45.0   | 50.8   | 39.5   | 39.5   | 39.5   | 45.0   | 45.0   | 28.3   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 5.7    | 5.7    | 5.7    |
| 87.5° | 5.7    | 11.3   | 22.5   | 22.5   | 22.5   | 22.5   | 22.5   | 17.0   | 17.0   | 17.0   | 11.3   |
| 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°    | 4699.2 | 4699.2 | 4699.2 | 4699.2 | 4699.2 | 4699.2 | 4699.2 | 4699.2 | 4699.2 | 4699.2 | 4699.2 |
| 2.5°  | 4755.7 | 4750.0 | 4755.7 | 4716.2 | 4806.3 | 4738.7 | 4727.4 | 4716.2 | 4755.7 | 4716.2 | 4659.9 |
| 5°    | 4857.0 | 4800.7 | 4783.7 | 4767.0 | 4817.5 | 4738.7 | 4721.9 | 4727.4 | 4699.2 | 4626.1 | 4631.6 |
| 7.5°  | 4890.8 | 4840.2 | 4789.5 | 4682.4 | 4727.4 | 4710.7 | 4665.4 | 4631.6 | 4586.6 | 4524.6 | 4513.3 |
| 10°   | 4902.1 | 4845.8 | 4772.5 | 4738.7 | 4671.2 | 4648.6 | 4631.6 | 4575.3 | 4519.1 | 4412.0 | 4383.7 |
| 12.5° | 4868.3 | 4800.7 | 4710.7 | 4682.4 | 4631.6 | 4558.3 | 4519.1 | 4462.5 | 4412.0 | 4327.4 | 4265.4 |
| 15°   | 4721.9 | 4665.4 | 4637.4 | 4541.6 | 4519.1 | 4473.8 | 4395.0 | 4316.2 | 4242.9 | 4130.1 | 4096.3 |
| 17.5° | 4552.8 | 4530.3 | 4502.1 | 4428.8 | 4423.2 | 4378.2 | 4304.9 | 4237.1 | 4141.6 | 3966.7 | 3910.4 |
| 20°   | 4378.2 | 4378.2 | 4287.9 | 4259.9 | 4316.2 | 4225.9 | 4169.6 | 4107.6 | 3910.4 | 3825.9 | 3724.6 |
| 22.5° | 4248.6 | 4186.6 | 4135.8 | 4090.8 | 4096.3 | 4040.0 | 3961.2 | 3837.1 | 3763.9 | 3662.5 | 3544.2 |
| 25°   | 3995.0 | 4017.5 | 3904.9 | 3887.9 | 3904.9 | 3775.1 | 3735.8 | 3634.3 | 3527.2 | 3431.4 | 3341.3 |
| 27.5° | 3837.1 | 3775.1 | 3702.0 | 3640.0 | 3640.0 | 3589.2 | 3476.7 | 3454.1 | 3290.6 | 3200.5 | 3087.7 |
| 30°   | 3600.5 | 3555.5 | 3493.4 | 3403.4 | 3392.1 | 3352.6 | 3262.5 | 3206.0 | 3037.1 | 2901.8 | 2839.8 |
| 32.5° | 3301.8 | 3285.0 | 3234.3 | 3132.9 | 3099.2 | 3053.9 | 2941.3 | 2845.5 | 2766.7 | 2614.4 | 2541.3 |
| 35°   | 3087.7 | 3025.9 | 2918.8 | 2834.3 | 2806.0 | 2727.2 | 2636.9 | 2569.4 | 2484.8 | 2349.7 | 2253.9 |
| 37.5° | 2766.7 | 2704.7 | 2603.1 | 2501.8 | 2501.8 | 2423.0 | 2298.9 | 2231.4 | 2113.1 | 2034.0 | 1955.2 |
| 40°   | 2484.8 | 2406.0 | 2304.7 | 2186.3 | 2169.3 | 2056.5 | 2006.0 | 1893.2 | 1819.9 | 1696.1 | 1684.8 |
| 42.5° | 2169.3 | 2096.1 | 2006.0 | 1915.7 | 1848.2 | 1791.9 | 1662.3 | 1577.7 | 1498.9 | 1436.9 | 1419.9 |
| 45°   | 1881.9 | 1786.1 | 1707.3 | 1594.5 | 1527.0 | 1459.4 | 1374.9 | 1318.6 | 1256.5 | 1189.0 | 1149.5 |
| 47.5° | 1634.0 | 1555.2 | 1442.4 | 1341.1 | 1273.5 | 1239.5 | 1143.7 | 1081.9 | 1031.1 | 986.1  | 957.9  |
| 50°   | 1380.6 | 1284.8 | 1222.8 | 1110.0 | 1098.7 | 1019.9 | 941.1  | 890.3  | 862.0  | 822.7  | 783.2  |
| 52.5° | 1189.0 | 1098.7 | 1014.1 | 929.8  | 884.6  | 856.5  | 783.2  | 732.5  | 693.2  | 664.9  | 642.4  |
| 55°   | 1002.9 | 924.1  | 856.5  | 772.0  | 743.7  | 704.4  | 619.9  | 608.6  | 569.1  | 529.6  | 501.6  |
| 57.5° | 862.0  | 788.8  | 709.9  | 653.7  | 602.9  | 574.8  | 507.1  | 462.0  | 439.5  | 405.7  | 377.5  |
| 60°   | 732.5  | 653.7  | 591.6  | 524.1  | 501.6  | 462.0  | 411.3  | 372.0  | 343.7  | 315.5  | 287.4  |
| 62.5° | 614.1  | 546.6  | 479.0  | 422.5  | 388.7  | 366.2  | 326.7  | 292.9  | 264.9  | 242.4  | 219.7  |
| 65°   | 507.1  | 445.0  | 388.7  | 332.5  | 315.5  | 287.4  | 259.2  | 231.1  | 208.4  | 180.4  | 157.8  |
| 67.5° | 417.0  | 360.7  | 304.2  | 264.9  | 247.9  | 236.6  | 202.9  | 174.6  | 157.8  | 140.8  | 118.3  |
| 70°   | 326.7  | 287.4  | 242.4  | 208.4  | 191.6  | 174.6  | 152.1  | 135.3  | 112.6  | 101.3  | 84.5   |
| 72.5° | 253.6  | 219.7  | 180.4  | 152.1  | 140.8  | 129.6  | 107.1  | 90.1   | 78.8   | 67.6   | 56.3   |
| 75°   | 180.4  | 152.1  | 129.6  | 101.3  | 95.8   | 90.1   | 73.3   | 62.0   | 50.8   | 39.5   | 33.8   |
| 77.5° | 124.1  | 101.3  | 78.8   | 67.6   | 62.0   | 50.8   | 45.0   | 33.8   | 28.3   | 22.5   | 17.0   |
| 80°   | 67.6   | 50.8   | 39.5   | 33.8   | 28.3   | 22.5   | 22.5   | 17.0   | 11.3   | 11.3   | 5.7    |
| 82.5° | 22.5   | 17.0   | 11.3   | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    | 0.0    | 5.7    |
| 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° | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    | 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: LD4C100D010 EX4C1009035 4LBSQLWWH

**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4699.2 | 4699.2 | 4699.2 | 4699.2 | 4699.2 | 4699.2 | 4699.2 | 4699.2 | 4699.2 | 4699.2 | 4699.2 |
| 2.5°  | 4693.7 | 4631.6 | 4648.6 | 4648.6 | 4637.4 | 4637.4 | 4626.1 | 4609.1 | 4614.9 | 4580.9 | 4507.8 |
| 5°    | 4642.9 | 4564.1 | 4552.8 | 4564.1 | 4519.1 | 4507.8 | 4485.3 | 4519.1 | 4417.5 | 4457.0 | 4412.0 |
| 7.5°  | 4496.5 | 4423.2 | 4406.2 | 4445.8 | 4389.5 | 4355.5 | 4350.0 | 4395.0 | 4304.9 | 4259.9 | 4209.1 |
| 10°   | 4333.0 | 4304.9 | 4254.1 | 4225.9 | 4209.1 | 4214.6 | 4169.6 | 4113.3 | 4096.3 | 4085.1 | 4040.0 |
| 12.5° | 4186.6 | 4124.6 | 4079.5 | 4045.8 | 4034.5 | 4034.5 | 3961.2 | 3949.9 | 3899.2 | 3887.9 | 3820.4 |
| 15°   | 4011.8 | 3938.7 | 3910.4 | 3865.4 | 3825.9 | 3848.4 | 3763.9 | 3741.3 | 3724.6 | 3651.3 | 3662.5 |
| 17.5° | 3859.7 | 3780.9 | 3713.3 | 3685.0 | 3651.3 | 3617.5 | 3538.5 | 3555.5 | 3515.9 | 3515.9 | 3414.6 |
| 20°   | 3662.5 | 3578.0 | 3527.2 | 3470.9 | 3470.9 | 3425.9 | 3369.6 | 3375.1 | 3324.3 | 3273.8 | 3183.5 |
| 22.5° | 3454.1 | 3363.8 | 3301.8 | 3279.3 | 3223.0 | 3211.7 | 3144.2 | 3127.2 | 3059.6 | 3065.2 | 2986.4 |
| 25°   | 3234.3 | 3144.2 | 3059.6 | 3065.2 | 3014.6 | 2992.1 | 2952.6 | 2873.8 | 2845.5 | 2811.7 | 2789.2 |
| 27.5° | 2975.1 | 2913.1 | 2839.8 | 2834.3 | 2738.5 | 2744.0 | 2693.4 | 2670.9 | 2603.1 | 2620.1 | 2569.4 |
| 30°   | 2738.5 | 2648.4 | 2580.6 | 2563.8 | 2524.3 | 2513.1 | 2434.3 | 2400.3 | 2411.7 | 2366.5 | 2338.4 |
| 32.5° | 2496.1 | 2361.0 | 2332.7 | 2298.9 | 2276.4 | 2248.2 | 2191.9 | 2214.4 | 2163.6 | 2174.9 | 2129.8 |
| 35°   | 2174.9 | 2118.6 | 2045.3 | 2045.3 | 2022.8 | 2000.3 | 1961.0 | 1983.5 | 1932.7 | 1910.2 | 1865.1 |
| 37.5° | 1904.4 | 1853.9 | 1780.6 | 1803.1 | 1763.6 | 1729.8 | 1696.1 | 1701.6 | 1656.5 | 1651.0 | 1605.8 |
| 40°   | 1611.5 | 1583.2 | 1532.7 | 1532.7 | 1504.4 | 1504.4 | 1487.4 | 1470.7 | 1442.4 | 1408.6 | 1357.9 |
| 42.5° | 1335.3 | 1312.8 | 1290.3 | 1296.0 | 1256.5 | 1290.3 | 1245.3 | 1273.5 | 1183.2 | 1177.7 | 1143.7 |
| 45°   | 1132.5 | 1081.9 | 1087.4 | 1064.9 | 1042.4 | 1053.7 | 1014.1 | 1025.4 | 974.8  | 963.6  | 929.8  |
| 47.5° | 918.6  | 901.6  | 867.8  | 856.5  | 856.5  | 839.5  | 822.7  | 817.0  | 794.5  | 766.2  | 721.2  |
| 50°   | 755.0  | 693.2  | 681.7  | 664.9  | 653.7  | 653.7  | 631.1  | 597.4  | 602.9  | 574.8  | 529.6  |
| 52.5° | 591.6  | 540.8  | 518.3  | 512.8  | 490.3  | 479.0  | 450.8  | 428.3  | 411.3  | 400.0  | 372.0  |
| 55°   | 456.3  | 411.3  | 383.2  | 383.2  | 349.5  | 349.5  | 309.9  | 292.9  | 270.4  | 247.9  | 231.1  |
| 57.5° | 343.7  | 321.2  | 292.9  | 270.4  | 259.2  | 231.1  | 208.4  | 180.4  | 163.4  | 129.6  | 107.1  |
| 60°   | 259.2  | 236.6  | 208.4  | 191.6  | 180.4  | 152.1  | 124.1  | 101.3  | 62.0   | 50.8   | 45.0   |
| 62.5° | 191.6  | 169.1  | 140.8  | 129.6  | 118.3  | 95.8   | 67.6   | 33.8   | 17.0   | 17.0   | 17.0   |
| 65°   | 140.8  | 112.6  | 90.1   | 78.8   | 67.6   | 50.8   | 22.5   | 11.3   | 5.7    | 5.7    | 5.7    |
| 67.5° | 95.8   | 73.3   | 50.8   | 45.0   | 33.8   | 17.0   | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    |
| 70°   | 62.0   | 45.0   | 22.5   | 17.0   | 11.3   | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    |
| 72.5° | 39.5   | 22.5   | 11.3   | 5.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 22.5   | 11.3   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 11.3   | 5.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 5.7    | 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    | 5.7    | 5.7    | 5.7    |
| 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: LD4C100D010 EX4C1009035 4LBSQLWWH

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4699.2 | 4699.2 | 4699.2 | 4699.2 | 4699.2 | 4699.2 | 4699.2 | 4699.2 |
| 2.5°  | 4586.6 | 4547.1 | 4569.6 | 4519.1 | 4541.6 | 4580.9 | 4552.8 | 4564.1 |
| 5°    | 4428.8 | 4406.2 | 4378.2 | 4304.9 | 4361.2 | 4406.2 | 4383.7 | 4378.2 |
| 7.5°  | 4259.9 | 4180.9 | 4220.4 | 4197.9 | 4186.6 | 4231.6 | 4180.9 | 4237.1 |
| 10°   | 4085.1 | 4028.8 | 4023.2 | 3983.7 | 3983.7 | 4017.5 | 4023.2 | 3989.2 |
| 12.5° | 3825.9 | 3797.8 | 3797.8 | 3792.1 | 3786.4 | 3820.4 | 3825.9 | 3809.1 |
| 15°   | 3640.0 | 3628.8 | 3600.5 | 3595.0 | 3561.2 | 3611.8 | 3617.5 | 3611.8 |
| 17.5° | 3414.6 | 3420.1 | 3392.1 | 3392.1 | 3414.6 | 3431.4 | 3386.4 | 3431.4 |
| 20°   | 3262.5 | 3234.3 | 3223.0 | 3172.2 | 3200.5 | 3228.7 | 3228.7 | 3234.3 |
| 22.5° | 3042.7 | 2997.6 | 3014.6 | 2986.4 | 2969.4 | 3008.9 | 3008.9 | 3025.9 |
| 25°   | 2794.7 | 2794.7 | 2806.0 | 2789.2 | 2800.5 | 2823.0 | 2806.0 | 2845.5 |
| 27.5° | 2558.1 | 2580.6 | 2580.6 | 2558.1 | 2569.4 | 2636.9 | 2665.2 | 2620.1 |
| 30°   | 2338.4 | 2344.0 | 2361.0 | 2349.7 | 2383.5 | 2406.0 | 2400.3 | 2434.3 |
| 32.5° | 2090.5 | 2118.6 | 2129.8 | 2113.1 | 2124.3 | 2174.9 | 2146.8 | 2141.1 |
| 35°   | 1898.9 | 1848.2 | 1842.6 | 1848.2 | 1870.7 | 1881.9 | 1870.7 | 1910.2 |
| 37.5° | 1622.8 | 1605.8 | 1583.2 | 1589.0 | 1605.8 | 1628.5 | 1639.8 | 1667.8 |
| 40°   | 1357.9 | 1335.3 | 1335.3 | 1329.8 | 1312.8 | 1374.9 | 1374.9 | 1374.9 |
| 42.5° | 1126.9 | 1121.2 | 1093.2 | 1093.2 | 1115.7 | 1132.5 | 1121.2 | 1160.7 |
| 45°   | 924.1  | 901.6  | 884.6  | 884.6  | 901.6  | 901.6  | 918.6  | 912.8  |
| 47.5° | 726.9  | 704.4  | 709.9  | 693.2  | 709.9  | 732.5  | 704.4  | 709.9  |
| 50°   | 546.6  | 546.6  | 535.3  | 546.6  | 540.8  | 546.6  | 535.3  | 524.1  |
| 52.5° | 372.0  | 422.5  | 428.3  | 405.7  | 355.0  | 309.9  | 281.7  | 304.2  |
| 55°   | 214.1  | 191.6  | 191.6  | 185.9  | 174.6  | 169.1  | 152.1  | 169.1  |
| 57.5° | 107.1  | 95.8   | 95.8   | 95.8   | 90.1   | 84.5   | 73.3   | 73.3   |
| 60°   | 45.0   | 39.5   | 39.5   | 33.8   | 28.3   | 22.5   | 17.0   | 22.5   |
| 62.5° | 17.0   | 11.3   | 11.3   | 11.3   | 11.3   | 11.3   | 11.3   | 11.3   |
| 65°   | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    |
| 67.5° | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    |
| 70°   | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    | 5.7    |
| 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)