

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: **LD4C90D010 EX4C909040 4LBSQLWWH**

Issue Date: 2/18/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



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: LD4C90D010 EX4C909040 4LBSQLWWH
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBSQLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

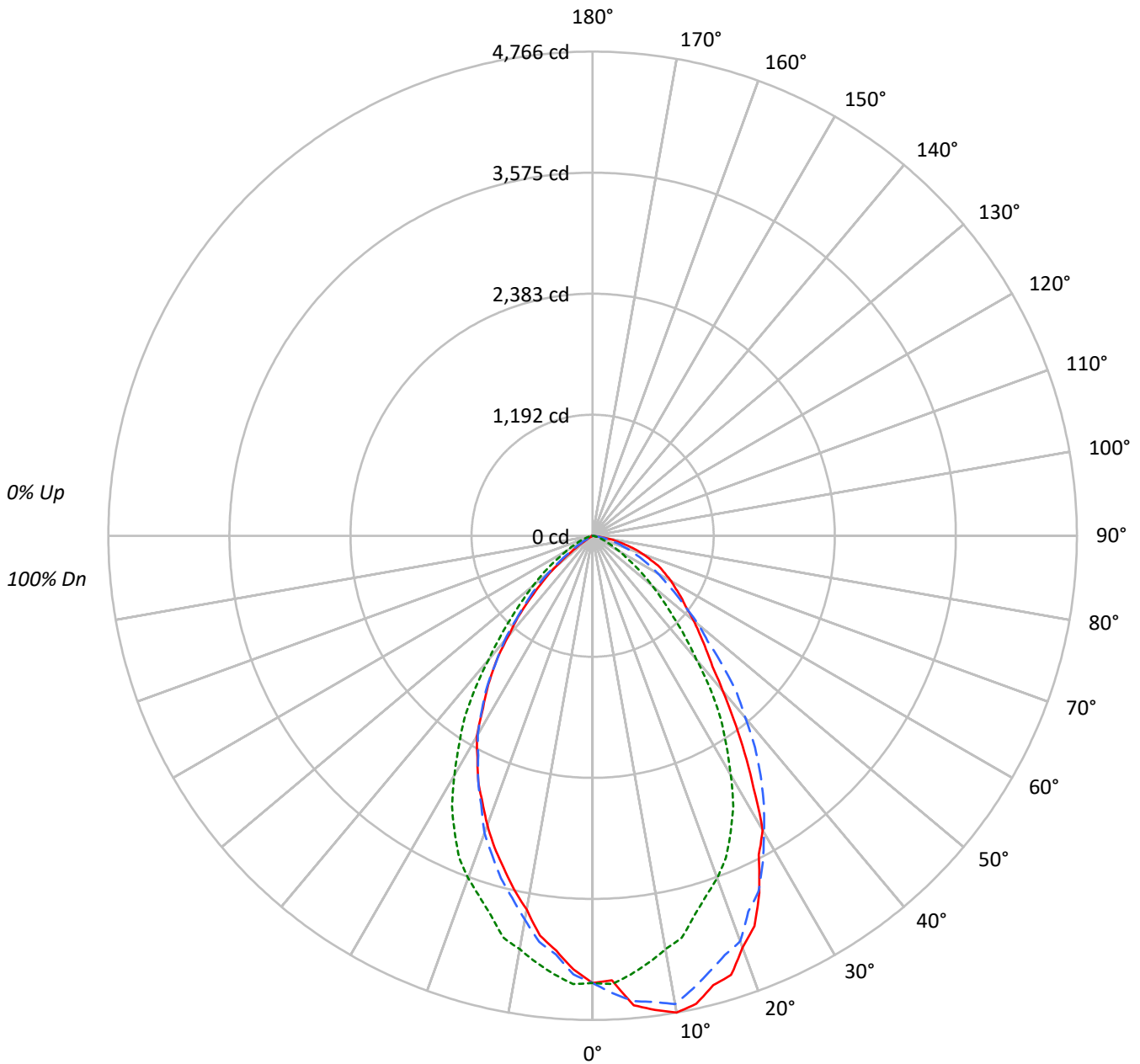
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6309.0 lumens
Efficiency: N/A
Efficacy: 65.0 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): 97.1
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: LD4C90D010 EX4C909040 4LBSQLWWH

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD4C90D010 EX4C909040 4LBSQLWWH

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° | 424677 | 424677 | 424677 |
| 5° | 449312 | 419674 | 397183 |
| 10° | 466921 | 404872 | 366083 |
| 15° | 457588 | 386415 | 337917 |
| 20° | 442741 | 367948 | 311042 |
| 25° | 412973 | 342164 | 283736 |
| 30° | 372797 | 302817 | 254017 |
| 35° | 307082 | 259235 | 210740 |
| 40° | 250617 | 200083 | 162195 |
| 45° | 215327 | 151957 | 116670 |
| 50° | 194873 | 115675 | 73674 |
| 55° | 179343 | 83439 | 26647 |
| 60° | 172136 | 57025 | 4072 |
| 65° | 166257 | 38562 | 1233 |
| 70° | 148872 | 26773 | 1523 |
| 75° | 122019 | 13794 | 0 |
| 80° | 76292 | 5834 | 0 |
| 85° | 0 | 0 | 0 |



TEST NUMBER: P#

CATALOG NUMBER: LD4C90D010 EX4C909040 4LBSQLWWH

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 412.4 | 6.5 |
| 10°-20° | 1111.0 | 17.6 |
| 20°-30° | 1483.6 | 23.5 |
| 30°-40° | 1408.3 | 22.3 |
| 40°-50° | 973.5 | 15.4 |
| 50°-60° | 537.9 | 8.5 |
| 60°-70° | 267.1 | 4.2 |
| 70°-80° | 105.2 | 1.7 |
| 80°-90° | 10.0 | 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° | 3006.9 | 47.7 |
| 0°-40° | 4415.3 | 70.0 |
| 0°-60° | 5926.6 | 93.9 |
| 0°-90° | 6309.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6309.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 4401 | 4401 | 4401 | 4401 | 4401 | |
| 5° | 4639 | 4597 | 4333 | 4138 | 4101 | 444 |
| 15° | 4581 | 4444 | 3868 | 3488 | 3383 | 1296 |
| 25° | 3879 | 3863 | 3214 | 2665 | 2665 | 1768 |
| 35° | 2607 | 2881 | 2201 | 1810 | 1789 | 1633 |
| 45° | 1578 | 1810 | 1114 | 913 | 855 | 1231 |
| 55° | 1066 | 1003 | 496 | 253 | 158 | 960 |
| 65° | 728 | 528 | 169 | 5 | 5 | 707 |
| 75° | 327 | 201 | 37 | 0 | 0 | 349 |
| 85° | 0 | 5 | 0 | 0 | 0 | 30 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P#

CATALOG NUMBER: LD4C90D010 EX4C909040 4LBSQLWWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4401.3 | 4401.3 | 4401.3 | 4401.3 | 4401.3 | 4401.3 | 4401.3 | 4401.3 | 4401.3 | 4401.3 | 4401.3 |
| 2.5° | 4380.2 | 4501.6 | 4512.1 | 4501.6 | 4517.5 | 4512.1 | 4538.6 | 4512.1 | 4544.0 | 4496.4 | 4507.0 |
| 5° | 4638.9 | 4591.3 | 4691.6 | 4638.9 | 4638.9 | 4633.7 | 4617.8 | 4612.4 | 4633.7 | 4565.1 | 4596.7 |
| 7.5° | 4707.5 | 4776.2 | 4865.9 | 4755.1 | 4760.2 | 4760.2 | 4728.6 | 4718.1 | 4718.1 | 4591.3 | 4628.3 |
| 10° | 4765.6 | 4723.2 | 4770.8 | 4728.6 | 4765.6 | 4760.2 | 4781.3 | 4712.7 | 4760.2 | 4686.4 | 4681.0 |
| 12.5° | 4718.1 | 4702.1 | 4765.6 | 4697.0 | 4675.9 | 4681.0 | 4654.8 | 4638.9 | 4654.8 | 4570.2 | 4565.1 |
| 15° | 4580.8 | 4596.7 | 4691.6 | 4617.8 | 4607.2 | 4596.7 | 4565.1 | 4512.1 | 4554.5 | 4438.3 | 4443.7 |
| 17.5° | 4533.4 | 4507.0 | 4522.9 | 4459.4 | 4475.3 | 4464.8 | 4459.4 | 4412.1 | 4401.3 | 4327.5 | 4327.5 |
| 20° | 4311.8 | 4369.7 | 4369.7 | 4327.5 | 4327.5 | 4322.3 | 4253.7 | 4295.9 | 4248.3 | 4227.2 | 4248.3 |
| 22.5° | 4158.6 | 4163.9 | 4163.9 | 4126.9 | 4132.3 | 4111.2 | 4074.2 | 4047.7 | 4074.2 | 4047.7 | 4005.6 |
| 25° | 3879.0 | 3889.6 | 3952.8 | 3884.2 | 3873.7 | 3894.7 | 3863.1 | 3847.2 | 3842.0 | 3778.7 | 3863.1 |
| 27.5° | 3541.2 | 3646.6 | 3641.5 | 3615.0 | 3646.6 | 3604.4 | 3588.7 | 3593.9 | 3609.8 | 3604.4 | 3625.5 |
| 30° | 3346.0 | 3361.7 | 3377.6 | 3356.5 | 3361.7 | 3346.0 | 3346.0 | 3351.2 | 3393.3 | 3377.6 | 3372.3 |
| 32.5° | 2950.1 | 3002.8 | 3045.2 | 3045.2 | 3050.3 | 3066.3 | 3060.9 | 3171.7 | 3198.2 | 3145.4 | 3134.9 |
| 35° | 2607.0 | 2644.0 | 2680.9 | 2686.2 | 2754.9 | 2760.0 | 2765.4 | 2797.1 | 2870.9 | 2886.8 | 2881.4 |
| 37.5° | 2279.9 | 2316.7 | 2327.3 | 2374.8 | 2411.9 | 2448.7 | 2491.0 | 2533.2 | 2596.5 | 2649.2 | 2623.0 |
| 40° | 1989.7 | 2005.4 | 2031.8 | 2052.9 | 2126.7 | 2126.7 | 2147.8 | 2232.4 | 2301.0 | 2343.2 | 2337.8 |
| 42.5° | 1746.9 | 1752.1 | 1773.2 | 1810.2 | 1878.8 | 1862.9 | 1878.8 | 1936.9 | 2037.0 | 2042.4 | 2100.5 |
| 45° | 1578.0 | 1572.6 | 1588.5 | 1593.7 | 1636.1 | 1657.2 | 1667.7 | 1709.9 | 1794.3 | 1804.8 | 1810.2 |
| 47.5° | 1425.0 | 1419.6 | 1446.1 | 1456.6 | 1472.3 | 1493.4 | 1493.4 | 1498.8 | 1530.4 | 1556.9 | 1535.8 |
| 50° | 1298.2 | 1298.2 | 1298.2 | 1308.8 | 1335.3 | 1329.9 | 1335.3 | 1356.3 | 1372.1 | 1361.5 | 1356.3 |
| 52.5° | 1161.0 | 1182.0 | 1198.0 | 1203.3 | 1208.5 | 1208.5 | 1213.9 | 1203.3 | 1198.0 | 1182.0 | 1150.4 |
| 55° | 1066.1 | 1087.1 | 1087.1 | 1087.1 | 1087.1 | 1108.2 | 1082.0 | 1087.1 | 1087.1 | 1045.0 | 1002.8 |
| 57.5° | 971.2 | 992.2 | 1008.0 | 986.9 | 1008.0 | 986.9 | 976.3 | 971.2 | 960.4 | 918.2 | 855.0 |
| 60° | 892.0 | 902.5 | 897.1 | 892.0 | 902.5 | 886.6 | 876.0 | 855.0 | 844.4 | 786.3 | 744.1 |
| 62.5° | 802.2 | 807.4 | 812.8 | 802.2 | 791.7 | 786.3 | 765.2 | 733.6 | 712.5 | 664.9 | 627.9 |
| 65° | 728.2 | 712.5 | 707.1 | 702.0 | 691.4 | 675.5 | 659.8 | 622.8 | 606.8 | 564.7 | 527.7 |
| 67.5° | 617.4 | 612.2 | 622.8 | 606.8 | 580.6 | 580.6 | 564.7 | 533.0 | 496.0 | 469.8 | 432.7 |
| 70° | 527.7 | 522.5 | 511.9 | 496.0 | 490.8 | 469.8 | 469.8 | 432.7 | 422.2 | 374.6 | 343.0 |
| 72.5° | 432.7 | 432.7 | 416.8 | 401.1 | 385.2 | 374.6 | 369.5 | 343.0 | 327.3 | 300.8 | 274.4 |
| 75° | 327.3 | 327.3 | 321.9 | 306.0 | 295.5 | 284.9 | 279.7 | 258.7 | 242.7 | 216.5 | 200.6 |
| 77.5° | 232.2 | 232.2 | 211.1 | 200.6 | 205.7 | 195.2 | 184.6 | 179.5 | 174.1 | 158.4 | 137.3 |
| 80° | 137.3 | 131.9 | 116.2 | 121.4 | 116.2 | 116.2 | 110.8 | 105.4 | 94.9 | 84.4 | 73.8 |
| 82.5° | 37.0 | 42.2 | 42.2 | 42.2 | 47.6 | 37.0 | 37.0 | 37.0 | 42.2 | 42.2 | 26.5 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.4 | 5.4 | 5.4 |
| 87.5° | 5.4 | 10.5 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 15.9 | 15.9 | 15.9 | 10.5 |
| 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: LD4C90D010 EX4C909040 4LBSQLWWH

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4401.3 | 4401.3 | 4401.3 | 4401.3 | 4401.3 | 4401.3 | 4401.3 | 4401.3 | 4401.3 | 4401.3 | 4401.3 |
| 2.5° | 4454.2 | 4448.9 | 4454.2 | 4417.2 | 4501.6 | 4438.3 | 4427.8 | 4417.2 | 4454.2 | 4417.2 | 4364.5 |
| 5° | 4549.1 | 4496.4 | 4480.5 | 4464.8 | 4512.1 | 4438.3 | 4422.6 | 4427.8 | 4401.3 | 4332.9 | 4338.0 |
| 7.5° | 4580.8 | 4533.4 | 4485.9 | 4385.6 | 4427.8 | 4412.1 | 4369.7 | 4338.0 | 4295.9 | 4237.8 | 4227.2 |
| 10° | 4591.3 | 4538.6 | 4469.9 | 4438.3 | 4375.0 | 4354.0 | 4338.0 | 4285.3 | 4232.6 | 4132.3 | 4105.8 |
| 12.5° | 4559.7 | 4496.4 | 4412.1 | 4385.6 | 4338.0 | 4269.4 | 4232.6 | 4179.7 | 4132.3 | 4053.1 | 3995.0 |
| 15° | 4422.6 | 4369.7 | 4343.4 | 4253.7 | 4232.6 | 4190.2 | 4116.4 | 4042.6 | 3973.9 | 3868.3 | 3836.6 |
| 17.5° | 4264.2 | 4243.1 | 4216.7 | 4148.0 | 4142.9 | 4100.7 | 4032.0 | 3968.6 | 3879.0 | 3715.3 | 3662.5 |
| 20° | 4100.7 | 4100.7 | 4016.1 | 3989.9 | 4042.6 | 3958.0 | 3905.3 | 3847.2 | 3662.5 | 3583.4 | 3488.5 |
| 22.5° | 3979.3 | 3921.2 | 3873.7 | 3831.5 | 3836.6 | 3783.9 | 3710.1 | 3593.9 | 3525.3 | 3430.4 | 3319.5 |
| 25° | 3741.7 | 3762.8 | 3657.4 | 3641.5 | 3657.4 | 3535.8 | 3499.0 | 3403.9 | 3303.6 | 3213.9 | 3129.5 |
| 27.5° | 3593.9 | 3535.8 | 3467.4 | 3409.3 | 3409.3 | 3361.7 | 3256.3 | 3235.2 | 3082.0 | 2997.6 | 2892.0 |
| 30° | 3372.3 | 3330.1 | 3272.0 | 3187.6 | 3177.1 | 3140.1 | 3055.7 | 3002.8 | 2844.6 | 2717.9 | 2659.8 |
| 32.5° | 3092.5 | 3076.8 | 3029.2 | 2934.3 | 2902.7 | 2860.3 | 2754.9 | 2665.1 | 2591.3 | 2448.7 | 2380.2 |
| 35° | 2892.0 | 2834.1 | 2733.8 | 2654.6 | 2628.1 | 2554.3 | 2469.7 | 2406.5 | 2327.3 | 2200.8 | 2111.0 |
| 37.5° | 2591.3 | 2533.2 | 2438.1 | 2343.2 | 2343.2 | 2269.4 | 2153.2 | 2089.9 | 1979.1 | 1905.1 | 1831.3 |
| 40° | 2327.3 | 2253.5 | 2158.6 | 2047.8 | 2031.8 | 1926.2 | 1878.8 | 1773.2 | 1704.5 | 1588.5 | 1578.0 |
| 42.5° | 2031.8 | 1963.2 | 1878.8 | 1794.3 | 1731.0 | 1678.3 | 1556.9 | 1477.7 | 1403.9 | 1345.8 | 1329.9 |
| 45° | 1762.6 | 1672.9 | 1599.1 | 1493.4 | 1430.2 | 1366.9 | 1287.7 | 1235.0 | 1176.9 | 1113.6 | 1076.6 |
| 47.5° | 1530.4 | 1456.6 | 1351.0 | 1256.1 | 1192.8 | 1161.0 | 1071.2 | 1013.3 | 965.8 | 923.6 | 897.1 |
| 50° | 1293.1 | 1203.3 | 1145.2 | 1039.6 | 1029.0 | 955.2 | 881.4 | 833.9 | 807.4 | 770.6 | 733.6 |
| 52.5° | 1113.6 | 1029.0 | 949.9 | 870.9 | 828.5 | 802.2 | 733.6 | 686.0 | 649.2 | 622.8 | 601.7 |
| 55° | 939.3 | 865.5 | 802.2 | 723.0 | 696.6 | 659.8 | 580.6 | 570.0 | 533.0 | 496.0 | 469.8 |
| 57.5° | 807.4 | 738.8 | 664.9 | 612.2 | 564.7 | 538.4 | 474.9 | 432.7 | 411.7 | 380.0 | 353.6 |
| 60° | 686.0 | 612.2 | 554.1 | 490.8 | 469.8 | 432.7 | 385.2 | 348.4 | 321.9 | 295.5 | 269.2 |
| 62.5° | 575.2 | 511.9 | 448.7 | 395.7 | 364.1 | 343.0 | 306.0 | 274.4 | 248.1 | 227.0 | 205.7 |
| 65° | 474.9 | 416.8 | 364.1 | 311.4 | 295.5 | 269.2 | 242.7 | 216.5 | 195.2 | 168.9 | 147.8 |
| 67.5° | 390.6 | 337.8 | 284.9 | 248.1 | 232.2 | 221.6 | 190.0 | 163.5 | 147.8 | 131.9 | 110.8 |
| 70° | 306.0 | 269.2 | 227.0 | 195.2 | 179.5 | 163.5 | 142.5 | 126.7 | 105.4 | 94.9 | 79.2 |
| 72.5° | 237.6 | 205.7 | 168.9 | 142.5 | 131.9 | 121.4 | 100.3 | 84.4 | 73.8 | 63.3 | 52.7 |
| 75° | 168.9 | 142.5 | 121.4 | 94.9 | 89.7 | 84.4 | 68.6 | 58.1 | 47.6 | 37.0 | 31.6 |
| 77.5° | 116.2 | 94.9 | 73.8 | 63.3 | 58.1 | 47.6 | 42.2 | 31.6 | 26.5 | 21.1 | 15.9 |
| 80° | 63.3 | 47.6 | 37.0 | 31.6 | 26.5 | 21.1 | 21.1 | 15.9 | 10.5 | 10.5 | 5.4 |
| 82.5° | 21.1 | 15.9 | 10.5 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 0.0 | 5.4 |
| 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° | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 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: LD4C90D010 EX4C909040 4LBSQLWWH

CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4401.3 | 4401.3 | 4401.3 | 4401.3 | 4401.3 | 4401.3 | 4401.3 | 4401.3 | 4401.3 | 4401.3 | 4401.3 |
| 2.5° | 4396.1 | 4338.0 | 4354.0 | 4354.0 | 4343.4 | 4343.4 | 4332.9 | 4316.9 | 4322.3 | 4290.5 | 4222.0 |
| 5° | 4348.6 | 4274.8 | 4264.2 | 4274.8 | 4232.6 | 4222.0 | 4201.0 | 4232.6 | 4137.5 | 4174.5 | 4132.3 |
| 7.5° | 4211.5 | 4142.9 | 4126.9 | 4163.9 | 4111.2 | 4079.4 | 4074.2 | 4116.4 | 4032.0 | 3989.9 | 3942.3 |
| 10° | 4058.3 | 4032.0 | 3984.5 | 3958.0 | 3942.3 | 3947.5 | 3905.3 | 3852.6 | 3836.6 | 3826.1 | 3783.9 |
| 12.5° | 3921.2 | 3863.1 | 3820.9 | 3789.3 | 3778.7 | 3778.7 | 3710.1 | 3699.6 | 3652.0 | 3641.5 | 3578.2 |
| 15° | 3757.5 | 3689.0 | 3662.5 | 3620.4 | 3583.4 | 3604.4 | 3525.3 | 3504.2 | 3488.5 | 3419.8 | 3430.4 |
| 17.5° | 3615.0 | 3541.2 | 3477.9 | 3451.4 | 3419.8 | 3388.2 | 3314.2 | 3330.1 | 3293.1 | 3293.1 | 3198.2 |
| 20° | 3430.4 | 3351.2 | 3303.6 | 3250.9 | 3250.9 | 3208.7 | 3156.0 | 3161.2 | 3113.6 | 3066.3 | 2981.7 |
| 22.5° | 3235.2 | 3150.6 | 3092.5 | 3071.4 | 3018.7 | 3008.2 | 2944.9 | 2929.0 | 2865.7 | 2870.9 | 2797.1 |
| 25° | 3029.2 | 2944.9 | 2865.7 | 2870.9 | 2823.5 | 2802.4 | 2765.4 | 2691.6 | 2665.1 | 2633.5 | 2612.4 |
| 27.5° | 2786.5 | 2728.4 | 2659.8 | 2654.6 | 2564.9 | 2570.0 | 2522.7 | 2501.6 | 2438.1 | 2454.0 | 2406.5 |
| 30° | 2564.9 | 2480.5 | 2417.0 | 2401.3 | 2364.3 | 2353.8 | 2279.9 | 2248.1 | 2258.9 | 2216.5 | 2190.2 |
| 32.5° | 2337.8 | 2211.3 | 2184.8 | 2153.2 | 2132.1 | 2105.6 | 2052.9 | 2074.0 | 2026.5 | 2037.0 | 1994.8 |
| 35° | 2037.0 | 1984.3 | 1915.6 | 1915.6 | 1894.5 | 1873.5 | 1836.7 | 1857.7 | 1810.2 | 1789.1 | 1746.9 |
| 37.5° | 1783.7 | 1736.4 | 1667.7 | 1688.8 | 1651.8 | 1620.2 | 1588.5 | 1593.7 | 1551.5 | 1546.4 | 1504.0 |
| 40° | 1509.3 | 1482.9 | 1435.5 | 1435.5 | 1409.1 | 1409.1 | 1393.1 | 1377.4 | 1351.0 | 1319.3 | 1271.8 |
| 42.5° | 1250.7 | 1229.6 | 1208.5 | 1213.9 | 1176.9 | 1208.5 | 1166.3 | 1192.8 | 1108.2 | 1103.1 | 1071.2 |
| 45° | 1060.7 | 1013.3 | 1018.5 | 997.4 | 976.3 | 986.9 | 949.9 | 960.4 | 913.1 | 902.5 | 870.9 |
| 47.5° | 860.3 | 844.4 | 812.8 | 802.2 | 802.2 | 786.3 | 770.6 | 765.2 | 744.1 | 717.7 | 675.5 |
| 50° | 707.1 | 649.2 | 638.5 | 622.8 | 612.2 | 612.2 | 591.1 | 559.5 | 564.7 | 538.4 | 496.0 |
| 52.5° | 554.1 | 506.6 | 485.5 | 480.3 | 459.2 | 448.7 | 422.2 | 401.1 | 385.2 | 374.6 | 348.4 |
| 55° | 427.4 | 385.2 | 358.9 | 358.9 | 327.3 | 327.3 | 290.3 | 274.4 | 253.3 | 232.2 | 216.5 |
| 57.5° | 321.9 | 300.8 | 274.4 | 253.3 | 242.7 | 216.5 | 195.2 | 168.9 | 153.0 | 121.4 | 100.3 |
| 60° | 242.7 | 221.6 | 195.2 | 179.5 | 168.9 | 142.5 | 116.2 | 94.9 | 58.1 | 47.6 | 42.2 |
| 62.5° | 179.5 | 158.4 | 131.9 | 121.4 | 110.8 | 89.7 | 63.3 | 31.6 | 15.9 | 15.9 | 15.9 |
| 65° | 131.9 | 105.4 | 84.4 | 73.8 | 63.3 | 47.6 | 21.1 | 10.5 | 5.4 | 5.4 | 5.4 |
| 67.5° | 89.7 | 68.6 | 47.6 | 42.2 | 31.6 | 15.9 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 |
| 70° | 58.1 | 42.2 | 21.1 | 15.9 | 10.5 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 |
| 72.5° | 37.0 | 21.1 | 10.5 | 5.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 21.1 | 10.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 10.5 | 5.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 5.4 | 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 | 5.4 | 5.4 | 5.4 |
| 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: LD4C90D010 EX4C909040 4LBSQLWWH

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4401.3 | 4401.3 | 4401.3 | 4401.3 | 4401.3 | 4401.3 | 4401.3 | 4401.3 |
| 2.5° | 4295.9 | 4258.8 | 4279.9 | 4232.6 | 4253.7 | 4290.5 | 4264.2 | 4274.8 |
| 5° | 4148.0 | 4126.9 | 4100.7 | 4032.0 | 4084.8 | 4126.9 | 4105.8 | 4100.7 |
| 7.5° | 3989.9 | 3915.8 | 3952.8 | 3931.8 | 3921.2 | 3963.4 | 3915.8 | 3968.6 |
| 10° | 3826.1 | 3773.4 | 3768.2 | 3731.2 | 3731.2 | 3762.8 | 3768.2 | 3736.4 |
| 12.5° | 3583.4 | 3557.1 | 3557.1 | 3551.7 | 3546.3 | 3578.2 | 3583.4 | 3567.6 |
| 15° | 3409.3 | 3398.7 | 3372.3 | 3367.1 | 3335.5 | 3382.8 | 3388.2 | 3382.8 |
| 17.5° | 3198.2 | 3203.3 | 3177.1 | 3177.1 | 3198.2 | 3213.9 | 3171.7 | 3213.9 |
| 20° | 3055.7 | 3029.2 | 3018.7 | 2971.1 | 2997.6 | 3024.1 | 3024.1 | 3029.2 |
| 22.5° | 2849.8 | 2807.6 | 2823.5 | 2797.1 | 2781.1 | 2818.1 | 2818.1 | 2834.1 |
| 25° | 2617.6 | 2617.6 | 2628.1 | 2612.4 | 2623.0 | 2644.0 | 2628.1 | 2665.1 |
| 27.5° | 2395.9 | 2417.0 | 2417.0 | 2395.9 | 2406.5 | 2469.7 | 2496.2 | 2454.0 |
| 30° | 2190.2 | 2195.4 | 2211.3 | 2200.8 | 2232.4 | 2253.5 | 2248.1 | 2279.9 |
| 32.5° | 1958.0 | 1984.3 | 1994.8 | 1979.1 | 1989.7 | 2037.0 | 2010.7 | 2005.4 |
| 35° | 1778.6 | 1731.0 | 1725.8 | 1731.0 | 1752.1 | 1762.6 | 1752.1 | 1789.1 |
| 37.5° | 1519.9 | 1504.0 | 1482.9 | 1488.3 | 1504.0 | 1525.3 | 1535.8 | 1562.1 |
| 40° | 1271.8 | 1250.7 | 1250.7 | 1245.5 | 1229.6 | 1287.7 | 1287.7 | 1287.7 |
| 42.5° | 1055.5 | 1050.1 | 1023.9 | 1023.9 | 1045.0 | 1060.7 | 1050.1 | 1087.1 |
| 45° | 865.5 | 844.4 | 828.5 | 828.5 | 844.4 | 844.4 | 860.3 | 855.0 |
| 47.5° | 680.9 | 659.8 | 664.9 | 649.2 | 664.9 | 686.0 | 659.8 | 664.9 |
| 50° | 511.9 | 511.9 | 501.4 | 511.9 | 506.6 | 511.9 | 501.4 | 490.8 |
| 52.5° | 348.4 | 395.7 | 401.1 | 380.0 | 332.5 | 290.3 | 263.8 | 284.9 |
| 55° | 200.6 | 179.5 | 179.5 | 174.1 | 163.5 | 158.4 | 142.5 | 158.4 |
| 57.5° | 100.3 | 89.7 | 89.7 | 89.7 | 84.4 | 79.2 | 68.6 | 68.6 |
| 60° | 42.2 | 37.0 | 37.0 | 31.6 | 26.5 | 21.1 | 15.9 | 21.1 |
| 62.5° | 15.9 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 |
| 65° | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 |
| 67.5° | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 |
| 70° | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 | 5.4 |
| 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)