

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: **LD4C20D010 EX4C209040 4LBSQLWWLI**

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: LD4C20D010 EX4C209040 4LBSQLWWLI  
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LBSQLWW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

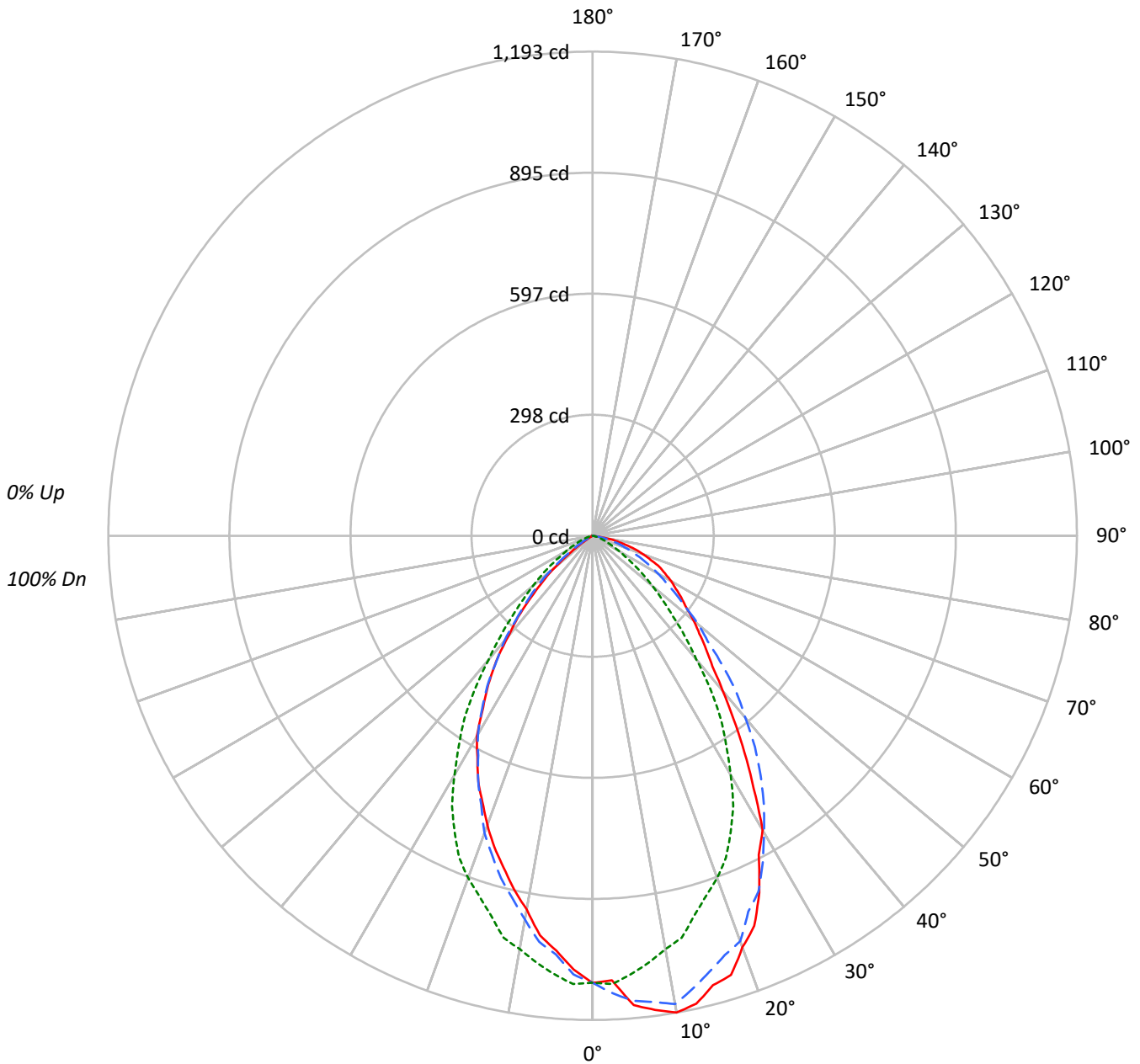
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1579.0 lumens  
Efficiency: N/A  
Efficacy: 72.4 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): 21.8  
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#

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**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°  | 106283 | 106283 | 106283 |
| 5°  | 112452 | 105032 | 99405  |
| 10° | 116858 | 101328 | 91619  |
| 15° | 114527 | 96706  | 84569  |
| 20° | 110803 | 92085  | 77853  |
| 25° | 103355 | 85639  | 71011  |
| 30° | 93300  | 75785  | 63574  |
| 35° | 76859  | 64879  | 52747  |
| 40° | 62727  | 50081  | 40596  |
| 45° | 53886  | 38030  | 29202  |
| 50° | 48771  | 28956  | 18434  |
| 55° | 44882  | 20877  | 6662   |
| 60° | 43073  | 14261  | 1023   |
| 65° | 41621  | 9658   | 297    |
| 70° | 37267  | 6714   | 367    |
| 75° | 30533  | 3467   | 0      |
| 80° | 19115  | 1445   | 0      |
| 85° | 0      | 0      | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 103.2  | 6.5       |
| 10°-20°   | 278.1  | 17.6      |
| 20°-30°   | 371.3  | 23.5      |
| 30°-40°   | 352.5  | 22.3      |
| 40°-50°   | 243.6  | 15.4      |
| 50°-60°   | 134.6  | 8.5       |
| 60°-70°   | 66.8   | 4.2       |
| 70°-80°   | 26.3   | 1.7       |
| 80°-90°   | 2.5    | 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°    | 752.6  | 47.7      |
| 0°-40°    | 1105.0 | 70.0      |
| 0°-60°    | 1483.3 | 93.9      |
| 0°-90°    | 1579.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1579.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 1102 | 1102 | 1102 | 1102 | 1102 |      |
| 5°  | 1161 | 1150 | 1084 | 1036 | 1026 | 111  |
| 15° | 1146 | 1112 | 968  | 873  | 847  | 324  |
| 25° | 971  | 967  | 804  | 667  | 667  | 443  |
| 35° | 652  | 721  | 551  | 453  | 448  | 409  |
| 45° | 395  | 453  | 279  | 228  | 214  | 308  |
| 55° | 267  | 251  | 124  | 63   | 40   | 240  |
| 65° | 182  | 132  | 42   | 1    | 1    | 177  |
| 75° | 82   | 50   | 9    | 0    | 0    | 87   |
| 85° | 0    | 1    | 0    | 0    | 0    | 8    |
| 90° | 0    | 0    | 0    | 0    | 0    |      |



TEST NUMBER: P#

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 40°    | 45°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1101.5 | 1101.5 | 1101.5 | 1101.5 | 1101.5 | 1101.5 | 1101.5 | 1101.5 | 1101.5 | 1101.5 | 1101.5 |
| 2.5°  | 1096.3 | 1126.6 | 1129.3 | 1126.6 | 1130.6 | 1129.3 | 1135.9 | 1129.3 | 1137.3 | 1125.4 | 1128.0 |
| 5°    | 1161.0 | 1149.1 | 1174.2 | 1161.0 | 1161.0 | 1159.7 | 1155.7 | 1154.4 | 1159.7 | 1142.5 | 1150.4 |
| 7.5°  | 1178.2 | 1195.4 | 1217.8 | 1190.1 | 1191.4 | 1191.4 | 1183.5 | 1180.8 | 1180.8 | 1149.1 | 1158.4 |
| 10°   | 1192.7 | 1182.1 | 1194.0 | 1183.5 | 1192.7 | 1191.4 | 1196.7 | 1179.5 | 1191.4 | 1172.9 | 1171.6 |
| 12.5° | 1180.8 | 1176.8 | 1192.7 | 1175.5 | 1170.3 | 1171.6 | 1165.0 | 1161.0 | 1165.0 | 1143.8 | 1142.5 |
| 15°   | 1146.5 | 1150.4 | 1174.2 | 1155.7 | 1153.1 | 1150.4 | 1142.5 | 1129.3 | 1139.9 | 1110.8 | 1112.2 |
| 17.5° | 1134.6 | 1128.0 | 1132.0 | 1116.1 | 1120.1 | 1117.4 | 1116.1 | 1104.2 | 1101.5 | 1083.1 | 1083.1 |
| 20°   | 1079.1 | 1093.6 | 1093.6 | 1083.1 | 1083.1 | 1081.8 | 1064.6 | 1075.2 | 1063.3 | 1058.0 | 1063.3 |
| 22.5° | 1040.8 | 1042.1 | 1042.1 | 1032.9 | 1034.2 | 1028.9 | 1019.7 | 1013.1 | 1019.7 | 1013.1 | 1002.5 |
| 25°   | 970.8  | 973.5  | 989.3  | 972.1  | 969.5  | 974.8  | 966.8  | 962.9  | 961.6  | 945.7  | 966.8  |
| 27.5° | 886.3  | 912.7  | 911.4  | 904.8  | 912.7  | 902.1  | 898.2  | 899.5  | 903.5  | 902.1  | 907.4  |
| 30°   | 837.4  | 841.4  | 845.3  | 840.1  | 841.4  | 837.4  | 837.4  | 838.7  | 849.3  | 845.3  | 844.0  |
| 32.5° | 738.3  | 751.5  | 762.1  | 762.1  | 763.4  | 767.4  | 766.1  | 793.8  | 800.4  | 787.2  | 784.6  |
| 35°   | 652.5  | 661.7  | 671.0  | 672.3  | 689.5  | 690.8  | 692.1  | 700.0  | 718.5  | 722.5  | 721.2  |
| 37.5° | 570.6  | 579.8  | 582.5  | 594.4  | 603.6  | 612.8  | 623.5  | 634.0  | 649.8  | 663.0  | 656.5  |
| 40°   | 498.0  | 501.9  | 508.5  | 513.8  | 532.3  | 532.3  | 537.6  | 558.7  | 575.9  | 586.5  | 585.1  |
| 42.5° | 437.2  | 438.5  | 443.8  | 453.0  | 470.2  | 466.2  | 470.2  | 484.8  | 509.8  | 511.2  | 525.7  |
| 45°   | 394.9  | 393.6  | 397.6  | 398.9  | 409.5  | 414.8  | 417.4  | 428.0  | 449.1  | 451.7  | 453.0  |
| 47.5° | 356.6  | 355.3  | 361.9  | 364.6  | 368.5  | 373.8  | 373.8  | 375.1  | 383.0  | 389.7  | 384.4  |
| 50°   | 324.9  | 324.9  | 324.9  | 327.6  | 334.2  | 332.8  | 334.2  | 339.5  | 343.4  | 340.8  | 339.5  |
| 52.5° | 290.6  | 295.8  | 299.8  | 301.2  | 302.5  | 302.5  | 303.8  | 301.2  | 299.8  | 295.8  | 287.9  |
| 55°   | 266.8  | 272.1  | 272.1  | 272.1  | 272.1  | 277.4  | 270.8  | 272.1  | 272.1  | 261.5  | 251.0  |
| 57.5° | 243.1  | 248.3  | 252.3  | 247.0  | 252.3  | 247.0  | 244.4  | 243.1  | 240.4  | 229.8  | 214.0  |
| 60°   | 223.2  | 225.9  | 224.5  | 223.2  | 225.9  | 221.9  | 219.3  | 214.0  | 211.3  | 196.8  | 186.2  |
| 62.5° | 200.8  | 202.1  | 203.4  | 200.8  | 198.1  | 196.8  | 191.5  | 183.6  | 178.3  | 166.4  | 157.2  |
| 65°   | 182.3  | 178.3  | 177.0  | 175.7  | 173.0  | 169.1  | 165.1  | 155.9  | 151.9  | 141.3  | 132.1  |
| 67.5° | 154.5  | 153.2  | 155.9  | 151.9  | 145.3  | 145.3  | 141.3  | 133.4  | 124.1  | 117.6  | 108.3  |
| 70°   | 132.1  | 130.8  | 128.1  | 124.1  | 122.8  | 117.6  | 117.6  | 108.3  | 105.7  | 93.8   | 85.8   |
| 72.5° | 108.3  | 108.3  | 104.3  | 100.4  | 96.4   | 93.8   | 92.5   | 85.8   | 81.9   | 75.3   | 68.7   |
| 75°   | 81.9   | 81.9   | 80.6   | 76.6   | 73.9   | 71.3   | 70.0   | 64.7   | 60.8   | 54.2   | 50.2   |
| 77.5° | 58.1   | 58.1   | 52.8   | 50.2   | 51.5   | 48.8   | 46.2   | 44.9   | 43.6   | 39.6   | 34.4   |
| 80°   | 34.4   | 33.0   | 29.1   | 30.4   | 29.1   | 29.1   | 27.7   | 26.4   | 23.8   | 21.1   | 18.5   |
| 82.5° | 9.3    | 10.6   | 10.6   | 10.6   | 11.9   | 9.3    | 9.3    | 9.3    | 10.6   | 10.6   | 6.6    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.3    | 1.3    | 1.3    |
| 87.5° | 1.3    | 2.6    | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    | 4.0    | 4.0    | 4.0    | 2.6    |
| 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°    | 1101.5 | 1101.5 | 1101.5 | 1101.5 | 1101.5 | 1101.5 | 1101.5 | 1101.5 | 1101.5 | 1101.5 | 1101.5 |
| 2.5°  | 1114.8 | 1113.4 | 1114.8 | 1105.5 | 1126.6 | 1110.8 | 1108.2 | 1105.5 | 1114.8 | 1105.5 | 1092.3 |
| 5°    | 1138.5 | 1125.4 | 1121.4 | 1117.4 | 1129.3 | 1110.8 | 1106.9 | 1108.2 | 1101.5 | 1084.4 | 1085.7 |
| 7.5°  | 1146.5 | 1134.6 | 1122.7 | 1097.6 | 1108.2 | 1104.2 | 1093.6 | 1085.7 | 1075.2 | 1060.6 | 1058.0 |
| 10°   | 1149.1 | 1135.9 | 1118.7 | 1110.8 | 1095.0 | 1089.7 | 1085.7 | 1072.5 | 1059.3 | 1034.2 | 1027.6 |
| 12.5° | 1141.2 | 1125.4 | 1104.2 | 1097.6 | 1085.7 | 1068.5 | 1059.3 | 1046.1 | 1034.2 | 1014.4 | 999.9  |
| 15°   | 1106.9 | 1093.6 | 1087.1 | 1064.6 | 1059.3 | 1048.7 | 1030.2 | 1011.8 | 994.6  | 968.1  | 960.2  |
| 17.5° | 1067.2 | 1062.0 | 1055.3 | 1038.2 | 1036.9 | 1026.3 | 1009.1 | 993.2  | 970.8  | 929.8  | 916.7  |
| 20°   | 1026.3 | 1026.3 | 1005.1 | 998.6  | 1011.8 | 990.6  | 977.4  | 962.9  | 916.7  | 896.8  | 873.1  |
| 22.5° | 995.9  | 981.4  | 969.5  | 958.9  | 960.2  | 947.0  | 928.6  | 899.5  | 882.3  | 858.5  | 830.8  |
| 25°   | 936.5  | 941.8  | 915.4  | 911.4  | 915.4  | 884.9  | 875.7  | 851.9  | 826.8  | 804.4  | 783.2  |
| 27.5° | 899.5  | 884.9  | 867.8  | 853.3  | 853.3  | 841.4  | 815.0  | 809.7  | 771.3  | 750.2  | 723.8  |
| 30°   | 844.0  | 833.4  | 818.9  | 797.8  | 795.2  | 785.9  | 764.8  | 751.5  | 711.9  | 680.2  | 665.7  |
| 32.5° | 774.0  | 770.1  | 758.2  | 734.4  | 726.5  | 715.9  | 689.5  | 667.0  | 648.5  | 612.8  | 595.7  |
| 35°   | 723.8  | 709.3  | 684.2  | 664.4  | 657.8  | 639.3  | 618.1  | 602.3  | 582.5  | 550.8  | 528.3  |
| 37.5° | 648.5  | 634.0  | 610.2  | 586.5  | 586.5  | 568.0  | 538.9  | 523.1  | 495.3  | 476.8  | 458.3  |
| 40°   | 582.5  | 564.0  | 540.2  | 512.5  | 508.5  | 482.1  | 470.2  | 443.8  | 426.6  | 397.6  | 394.9  |
| 42.5° | 508.5  | 491.3  | 470.2  | 449.1  | 433.2  | 420.0  | 389.7  | 369.8  | 351.4  | 336.8  | 332.8  |
| 45°   | 441.1  | 418.7  | 400.2  | 373.8  | 357.9  | 342.1  | 322.3  | 309.1  | 294.5  | 278.7  | 269.4  |
| 47.5° | 383.0  | 364.6  | 338.1  | 314.4  | 298.5  | 290.6  | 268.1  | 253.6  | 241.7  | 231.2  | 224.5  |
| 50°   | 323.6  | 301.2  | 286.6  | 260.2  | 257.5  | 239.1  | 220.6  | 208.7  | 202.1  | 192.9  | 183.6  |
| 52.5° | 278.7  | 257.5  | 237.7  | 218.0  | 207.4  | 200.8  | 183.6  | 171.7  | 162.5  | 155.9  | 150.6  |
| 55°   | 235.1  | 216.6  | 200.8  | 181.0  | 174.3  | 165.1  | 145.3  | 142.7  | 133.4  | 124.1  | 117.6  |
| 57.5° | 202.1  | 184.9  | 166.4  | 153.2  | 141.3  | 134.8  | 118.9  | 108.3  | 103.0  | 95.1   | 88.5   |
| 60°   | 171.7  | 153.2  | 138.7  | 122.8  | 117.6  | 108.3  | 96.4   | 87.2   | 80.6   | 73.9   | 67.4   |
| 62.5° | 144.0  | 128.1  | 112.3  | 99.0   | 91.1   | 85.8   | 76.6   | 68.7   | 62.1   | 56.8   | 51.5   |
| 65°   | 118.9  | 104.3  | 91.1   | 77.9   | 73.9   | 67.4   | 60.8   | 54.2   | 48.8   | 42.3   | 37.0   |
| 67.5° | 97.8   | 84.6   | 71.3   | 62.1   | 58.1   | 55.5   | 47.6   | 40.9   | 37.0   | 33.0   | 27.7   |
| 70°   | 76.6   | 67.4   | 56.8   | 48.8   | 44.9   | 40.9   | 35.7   | 31.7   | 26.4   | 23.8   | 19.8   |
| 72.5° | 59.5   | 51.5   | 42.3   | 35.7   | 33.0   | 30.4   | 25.1   | 21.1   | 18.5   | 15.8   | 13.2   |
| 75°   | 42.3   | 35.7   | 30.4   | 23.8   | 22.5   | 21.1   | 17.2   | 14.5   | 11.9   | 9.3    | 7.9    |
| 77.5° | 29.1   | 23.8   | 18.5   | 15.8   | 14.5   | 11.9   | 10.6   | 7.9    | 6.6    | 5.3    | 4.0    |
| 80°   | 15.8   | 11.9   | 9.3    | 7.9    | 6.6    | 5.3    | 5.3    | 4.0    | 2.6    | 2.6    | 1.3    |
| 82.5° | 5.3    | 4.0    | 2.6    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 0.0    | 1.3    |
| 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° | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 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: LD4C20D010 EX4C209040 4LBSQLWWLI

**CANDELA DISTRIBUTION (continued):**

|       | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1101.5 | 1101.5 | 1101.5 | 1101.5 | 1101.5 | 1101.5 | 1101.5 | 1101.5 | 1101.5 | 1101.5 | 1101.5 |
| 2.5°  | 1100.3 | 1085.7 | 1089.7 | 1089.7 | 1087.1 | 1087.1 | 1084.4 | 1080.4 | 1081.8 | 1073.8 | 1056.7 |
| 5°    | 1088.4 | 1069.9 | 1067.2 | 1069.9 | 1059.3 | 1056.7 | 1051.4 | 1059.3 | 1035.5 | 1044.8 | 1034.2 |
| 7.5°  | 1054.0 | 1036.9 | 1032.9 | 1042.1 | 1028.9 | 1021.0 | 1019.7 | 1030.2 | 1009.1 | 998.6  | 986.7  |
| 10°   | 1015.7 | 1009.1 | 997.2  | 990.6  | 986.7  | 988.0  | 977.4  | 964.2  | 960.2  | 957.6  | 947.0  |
| 12.5° | 981.4  | 966.8  | 956.3  | 948.4  | 945.7  | 945.7  | 928.6  | 925.9  | 914.0  | 911.4  | 895.5  |
| 15°   | 940.4  | 923.3  | 916.7  | 906.1  | 896.8  | 902.1  | 882.3  | 877.0  | 873.1  | 855.9  | 858.5  |
| 17.5° | 904.8  | 886.3  | 870.4  | 863.8  | 855.9  | 848.0  | 829.5  | 833.4  | 824.2  | 824.2  | 800.4  |
| 20°   | 858.5  | 838.7  | 826.8  | 813.6  | 813.6  | 803.1  | 789.9  | 791.2  | 779.3  | 767.4  | 746.2  |
| 22.5° | 809.7  | 788.5  | 774.0  | 768.7  | 755.5  | 752.9  | 737.0  | 733.1  | 717.2  | 718.5  | 700.0  |
| 25°   | 758.2  | 737.0  | 717.2  | 718.5  | 706.7  | 701.4  | 692.1  | 673.6  | 667.0  | 659.1  | 653.8  |
| 27.5° | 697.4  | 682.9  | 665.7  | 664.4  | 641.9  | 643.2  | 631.4  | 626.1  | 610.2  | 614.2  | 602.3  |
| 30°   | 641.9  | 620.8  | 604.9  | 601.0  | 591.7  | 589.1  | 570.6  | 562.6  | 565.3  | 554.7  | 548.2  |
| 32.5° | 585.1  | 553.4  | 546.8  | 538.9  | 533.6  | 527.0  | 513.8  | 519.1  | 507.2  | 509.8  | 499.3  |
| 35°   | 509.8  | 496.6  | 479.4  | 479.4  | 474.2  | 468.9  | 459.7  | 465.0  | 453.0  | 447.8  | 437.2  |
| 37.5° | 446.4  | 434.6  | 417.4  | 422.7  | 413.4  | 405.5  | 397.6  | 398.9  | 388.3  | 387.0  | 376.4  |
| 40°   | 377.8  | 371.1  | 359.3  | 359.3  | 352.7  | 352.7  | 348.7  | 344.7  | 338.1  | 330.2  | 318.3  |
| 42.5° | 313.0  | 307.7  | 302.5  | 303.8  | 294.5  | 302.5  | 291.9  | 298.5  | 277.4  | 276.1  | 268.1  |
| 45°   | 265.5  | 253.6  | 254.9  | 249.6  | 244.4  | 247.0  | 237.7  | 240.4  | 228.5  | 225.9  | 218.0  |
| 47.5° | 215.3  | 211.3  | 203.4  | 200.8  | 200.8  | 196.8  | 192.9  | 191.5  | 186.2  | 179.6  | 169.1  |
| 50°   | 177.0  | 162.5  | 159.8  | 155.9  | 153.2  | 153.2  | 147.9  | 140.0  | 141.3  | 134.8  | 124.1  |
| 52.5° | 138.7  | 126.8  | 121.5  | 120.2  | 114.9  | 112.3  | 105.7  | 100.4  | 96.4   | 93.8   | 87.2   |
| 55°   | 107.0  | 96.4   | 89.8   | 89.8   | 81.9   | 81.9   | 72.7   | 68.7   | 63.4   | 58.1   | 54.2   |
| 57.5° | 80.6   | 75.3   | 68.7   | 63.4   | 60.8   | 54.2   | 48.8   | 42.3   | 38.3   | 30.4   | 25.1   |
| 60°   | 60.8   | 55.5   | 48.8   | 44.9   | 42.3   | 35.7   | 29.1   | 23.8   | 14.5   | 11.9   | 10.6   |
| 62.5° | 44.9   | 39.6   | 33.0   | 30.4   | 27.7   | 22.5   | 15.8   | 7.9    | 4.0    | 4.0    | 4.0    |
| 65°   | 33.0   | 26.4   | 21.1   | 18.5   | 15.8   | 11.9   | 5.3    | 2.6    | 1.3    | 1.3    | 1.3    |
| 67.5° | 22.5   | 17.2   | 11.9   | 10.6   | 7.9    | 4.0    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    |
| 70°   | 14.5   | 10.6   | 5.3    | 4.0    | 2.6    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    |
| 72.5° | 9.3    | 5.3    | 2.6    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 5.3    | 2.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 2.6    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 1.3    | 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    | 1.3    | 1.3    | 1.3    |
| 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: LD4C20D010 EX4C209040 4LBSQLWWLI

**CANDELA DISTRIBUTION (continued):**

|       | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1101.5 | 1101.5 | 1101.5 | 1101.5 | 1101.5 | 1101.5 | 1101.5 | 1101.5 |
| 2.5°  | 1075.2 | 1065.9 | 1071.2 | 1059.3 | 1064.6 | 1073.8 | 1067.2 | 1069.9 |
| 5°    | 1038.2 | 1032.9 | 1026.3 | 1009.1 | 1022.3 | 1032.9 | 1027.6 | 1026.3 |
| 7.5°  | 998.6  | 980.0  | 989.3  | 984.0  | 981.4  | 991.9  | 980.0  | 993.2  |
| 10°   | 957.6  | 944.4  | 943.1  | 933.8  | 933.8  | 941.8  | 943.1  | 935.1  |
| 12.5° | 896.8  | 890.3  | 890.3  | 888.9  | 887.6  | 895.5  | 896.8  | 892.9  |
| 15°   | 853.3  | 850.6  | 844.0  | 842.7  | 834.8  | 846.6  | 848.0  | 846.6  |
| 17.5° | 800.4  | 801.7  | 795.2  | 795.2  | 800.4  | 804.4  | 793.8  | 804.4  |
| 20°   | 764.8  | 758.2  | 755.5  | 743.6  | 750.2  | 756.9  | 756.9  | 758.2  |
| 22.5° | 713.2  | 702.7  | 706.7  | 700.0  | 696.1  | 705.3  | 705.3  | 709.3  |
| 25°   | 655.1  | 655.1  | 657.8  | 653.8  | 656.5  | 661.7  | 657.8  | 667.0  |
| 27.5° | 599.6  | 604.9  | 604.9  | 599.6  | 602.3  | 618.1  | 624.7  | 614.2  |
| 30°   | 548.2  | 549.5  | 553.4  | 550.8  | 558.7  | 564.0  | 562.6  | 570.6  |
| 32.5° | 490.0  | 496.6  | 499.3  | 495.3  | 498.0  | 509.8  | 503.2  | 501.9  |
| 35°   | 445.1  | 433.2  | 431.9  | 433.2  | 438.5  | 441.1  | 438.5  | 447.8  |
| 37.5° | 380.4  | 376.4  | 371.1  | 372.5  | 376.4  | 381.7  | 384.4  | 391.0  |
| 40°   | 318.3  | 313.0  | 313.0  | 311.7  | 307.7  | 322.3  | 322.3  | 322.3  |
| 42.5° | 264.2  | 262.8  | 256.3  | 256.3  | 261.5  | 265.5  | 262.8  | 272.1  |
| 45°   | 216.6  | 211.3  | 207.4  | 207.4  | 211.3  | 211.3  | 215.3  | 214.0  |
| 47.5° | 170.4  | 165.1  | 166.4  | 162.5  | 166.4  | 171.7  | 165.1  | 166.4  |
| 50°   | 128.1  | 128.1  | 125.5  | 128.1  | 126.8  | 128.1  | 125.5  | 122.8  |
| 52.5° | 87.2   | 99.0   | 100.4  | 95.1   | 83.2   | 72.7   | 66.0   | 71.3   |
| 55°   | 50.2   | 44.9   | 44.9   | 43.6   | 40.9   | 39.6   | 35.7   | 39.6   |
| 57.5° | 25.1   | 22.5   | 22.5   | 22.5   | 21.1   | 19.8   | 17.2   | 17.2   |
| 60°   | 10.6   | 9.3    | 9.3    | 7.9    | 6.6    | 5.3    | 4.0    | 5.3    |
| 62.5° | 4.0    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    |
| 65°   | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    |
| 67.5° | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    |
| 70°   | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    |
| 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)