

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P226278

Luminaire Tested: **LD2B20D010 EU2B20WW9040 2LBSW***

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P226278
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14828)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD2B20D010 EU2B20WW9040 2LBSW*
Description: 2000 Lumen, 2inch Portfolio LED Downlight
WALL WASH OPTIC
WALL WASH LENSED TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1139.0 lumens
Efficiency: N/A
Efficacy: 54.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 0.79 / 1.02
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

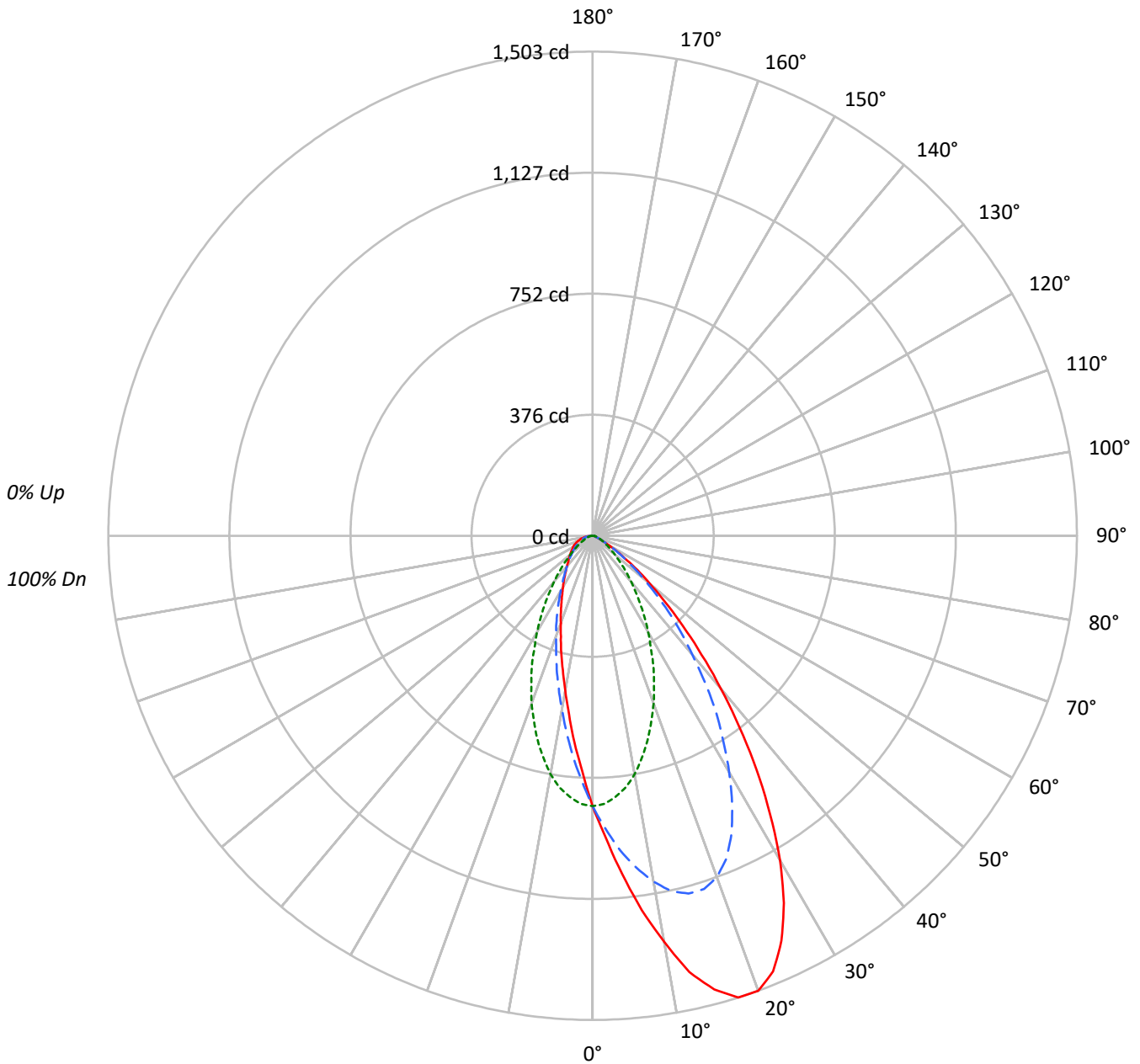
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P226278

CATALOG NUMBER: LD2B20D010 EU2B20WW9040 2LBSW*

Luminous Intensity Polar Plot





TEST NUMBER: P226278

CATALOG NUMBER: LD2B20D010 EU2B20WW9040 2LBSW*

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 | 0 | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | | | | |
| 1 | 112 | 109 | 105 | 103 | 109 | 106 | 104 | 101 | 102 | 100 | 98 | 98 | 97 | 95 | 95 | 94 | 92 | 90 | | | | | | | | |
| 2 | 105 | 99 | 94 | 90 | 102 | 97 | 92 | 89 | 94 | 90 | 87 | 91 | 87 | 85 | 88 | 85 | 83 | 81 | | | | | | | | |
| 3 | 98 | 90 | 84 | 79 | 96 | 89 | 83 | 79 | 86 | 81 | 77 | 83 | 79 | 76 | 81 | 78 | 75 | 73 | | | | | | | | |
| 4 | 92 | 83 | 76 | 71 | 90 | 81 | 75 | 70 | 79 | 74 | 69 | 77 | 72 | 69 | 75 | 71 | 68 | 66 | | | | | | | | |
| 5 | 86 | 76 | 69 | 64 | 84 | 75 | 68 | 63 | 73 | 67 | 63 | 71 | 66 | 62 | 70 | 65 | 62 | 60 | | | | | | | | |
| 6 | 81 | 70 | 63 | 58 | 79 | 69 | 63 | 58 | 68 | 62 | 57 | 66 | 61 | 57 | 65 | 60 | 56 | 55 | | | | | | | | |
| 7 | 76 | 65 | 58 | 53 | 75 | 64 | 58 | 53 | 63 | 57 | 52 | 62 | 56 | 52 | 60 | 56 | 52 | 50 | | | | | | | | |
| 8 | 72 | 60 | 53 | 49 | 70 | 60 | 53 | 49 | 59 | 53 | 48 | 58 | 52 | 48 | 57 | 52 | 48 | 46 | | | | | | | | |
| 9 | 68 | 56 | 50 | 45 | 66 | 56 | 49 | 45 | 55 | 49 | 45 | 54 | 48 | 44 | 53 | 48 | 44 | 43 | | | | | | | | |
| 10 | 64 | 53 | 46 | 42 | 63 | 52 | 46 | 42 | 51 | 46 | 41 | 51 | 45 | 41 | 50 | 45 | 41 | 40 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 325022 | 325022 | 325022 |
| 5° | 409744 | 316387 | 250481 |
| 10° | 503373 | 295581 | 192256 |
| 15° | 584592 | 263985 | 150700 |
| 20° | 619544 | 228238 | 118797 |
| 25° | 592874 | 190786 | 97787 |
| 30° | 520621 | 154173 | 82119 |
| 35° | 419476 | 121573 | 70787 |
| 40° | 312842 | 94303 | 62852 |
| 45° | 216651 | 71213 | 57244 |
| 50° | 139623 | 52788 | 54475 |
| 55° | 82051 | 40046 | 53418 |
| 60° | 43770 | 32847 | 54693 |
| 65° | 20714 | 25938 | 54351 |
| 70° | 9626 | 22424 | 54361 |
| 75° | 12721 | 21102 | 59265 |
| 80° | 12715 | 18960 | 56658 |
| 85° | 12444 | 25332 | 50221 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 79.3 | 7.0 |
| 10°-20° | 221.3 | 19.4 |
| 20°-30° | 288.7 | 25.3 |
| 30°-40° | 249.9 | 21.9 |
| 40°-50° | 158.2 | 13.9 |
| 50°-60° | 79.2 | 7.0 |
| 60°-70° | 36.5 | 3.2 |
| 70°-80° | 19.6 | 1.7 |
| 80°-90° | 6.3 | 0.6 |
| 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° | 589.2 | 51.7 |
| 0°-40° | 839.2 | 73.7 |
| 0°-60° | 1076.6 | 94.5 |
| 0°-90° | 1139.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1139.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0° | 839 | 839 | 839 | 839 | 839 | |
| 5° | 1054 | 980 | 814 | 689 | 644 | 108 |
| 15° | 1458 | 1150 | 658 | 429 | 376 | 410 |
| 25° | 1387 | 1020 | 446 | 257 | 229 | 628 |
| 35° | 887 | 667 | 257 | 155 | 150 | 551 |
| 45° | 396 | 331 | 130 | 102 | 104 | 311 |
| 55° | 122 | 113 | 59 | 68 | 79 | 116 |
| 65° | 23 | 25 | 28 | 48 | 59 | 26 |
| 75° | 8 | 8 | 14 | 28 | 40 | 8 |
| 85° | 3 | 3 | 6 | 8 | 11 | 2 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 839.1 | 839.1 | 839.1 | 839.1 | 839.1 | 839.1 | 839.1 | 839.1 | 839.1 | 839.1 | 839.1 |
| 2.5° | 938.0 | 943.6 | 943.6 | 946.5 | 935.2 | 938.0 | 938.0 | 932.3 | 923.8 | 918.2 | 909.7 |
| 5° | 1053.8 | 1053.8 | 1051.0 | 1053.8 | 1045.3 | 1039.7 | 1042.5 | 1031.2 | 1008.6 | 997.3 | 980.4 |
| 7.5° | 1172.5 | 1166.8 | 1166.8 | 1164.0 | 1149.9 | 1141.4 | 1138.6 | 1118.8 | 1087.7 | 1065.1 | 1039.7 |
| 10° | 1279.8 | 1279.8 | 1274.2 | 1268.5 | 1248.8 | 1237.5 | 1229.0 | 1197.9 | 1164.0 | 1127.3 | 1090.5 |
| 12.5° | 1387.2 | 1381.5 | 1373.1 | 1361.8 | 1333.5 | 1322.2 | 1308.1 | 1271.4 | 1220.5 | 1178.1 | 1130.1 |
| 15° | 1457.8 | 1460.6 | 1446.5 | 1432.4 | 1401.3 | 1384.4 | 1367.4 | 1322.2 | 1262.9 | 1209.2 | 1149.9 |
| 17.5° | 1503.0 | 1500.2 | 1486.1 | 1469.1 | 1435.2 | 1415.4 | 1395.7 | 1342.0 | 1279.8 | 1214.8 | 1149.9 |
| 20° | 1503.0 | 1503.0 | 1486.1 | 1469.1 | 1432.4 | 1409.8 | 1390.0 | 1333.5 | 1265.7 | 1197.9 | 1127.3 |
| 22.5° | 1463.5 | 1457.8 | 1446.5 | 1429.6 | 1392.8 | 1373.1 | 1350.5 | 1294.0 | 1223.3 | 1158.3 | 1084.9 |
| 25° | 1387.2 | 1387.2 | 1373.1 | 1353.3 | 1322.2 | 1299.6 | 1279.8 | 1223.3 | 1155.5 | 1090.5 | 1019.9 |
| 27.5° | 1285.5 | 1282.7 | 1268.5 | 1254.4 | 1220.5 | 1203.5 | 1183.8 | 1130.1 | 1070.8 | 1011.4 | 938.0 |
| 30° | 1164.0 | 1158.3 | 1152.7 | 1130.1 | 1107.5 | 1093.4 | 1076.4 | 1028.4 | 969.1 | 912.5 | 847.6 |
| 32.5° | 1025.6 | 1034.0 | 1019.9 | 1005.8 | 986.0 | 971.9 | 957.8 | 921.0 | 867.3 | 816.5 | 754.3 |
| 35° | 887.1 | 892.8 | 884.3 | 873.0 | 853.2 | 844.7 | 830.6 | 799.5 | 760.0 | 712.0 | 666.8 |
| 37.5° | 748.7 | 748.7 | 748.7 | 740.2 | 728.9 | 720.4 | 712.0 | 683.7 | 649.8 | 613.1 | 570.7 |
| 40° | 618.7 | 627.2 | 615.9 | 613.1 | 604.6 | 601.8 | 593.3 | 573.5 | 545.3 | 519.8 | 480.3 |
| 42.5° | 500.1 | 500.1 | 502.9 | 497.2 | 494.4 | 488.8 | 483.1 | 471.8 | 452.0 | 429.4 | 404.0 |
| 45° | 395.5 | 398.4 | 401.2 | 392.7 | 392.7 | 392.7 | 389.9 | 378.6 | 361.6 | 347.5 | 330.6 |
| 47.5° | 307.9 | 307.9 | 310.8 | 307.9 | 307.9 | 307.9 | 302.3 | 302.3 | 291.0 | 276.9 | 262.7 |
| 50° | 231.7 | 234.5 | 237.3 | 237.3 | 237.3 | 234.5 | 234.5 | 228.8 | 223.2 | 217.5 | 203.4 |
| 52.5° | 175.2 | 175.2 | 172.3 | 175.2 | 175.2 | 175.2 | 175.2 | 172.3 | 169.5 | 163.9 | 155.4 |
| 55° | 121.5 | 121.5 | 124.3 | 124.3 | 124.3 | 127.1 | 127.1 | 127.1 | 124.3 | 121.5 | 113.0 |
| 57.5° | 84.8 | 84.8 | 84.8 | 87.6 | 90.4 | 90.4 | 90.4 | 90.4 | 87.6 | 84.8 | 81.9 |
| 60° | 56.5 | 56.5 | 56.5 | 59.3 | 59.3 | 59.3 | 59.3 | 62.2 | 59.3 | 59.3 | 56.5 |
| 62.5° | 36.7 | 36.7 | 36.7 | 36.7 | 36.7 | 39.6 | 39.6 | 39.6 | 39.6 | 39.6 | 36.7 |
| 65° | 22.6 | 22.6 | 22.6 | 22.6 | 22.6 | 22.6 | 25.4 | 25.4 | 25.4 | 25.4 | 25.4 |
| 67.5° | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 | 17.0 | 17.0 | 17.0 | 17.0 | 17.0 | 17.0 |
| 70° | 8.5 | 8.5 | 8.5 | 8.5 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 |
| 72.5° | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 |
| 75° | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 |
| 77.5° | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 8.5 | 8.5 | 8.5 |
| 80° | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 |
| 82.5° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 5.7 | 5.7 | 2.8 |
| 85° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 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 | 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° | 839.1 | 839.1 | 839.1 | 839.1 | 839.1 | 839.1 | 839.1 | 839.1 | 839.1 | 839.1 | 839.1 |
| 2.5° | 909.7 | 898.4 | 892.8 | 878.6 | 875.8 | 864.5 | 864.5 | 853.2 | 839.1 | 833.4 | 819.3 |
| 5° | 969.1 | 946.5 | 935.2 | 909.7 | 901.2 | 884.3 | 875.8 | 853.2 | 830.6 | 813.7 | 793.9 |
| 7.5° | 1019.9 | 986.0 | 963.4 | 929.5 | 915.4 | 889.9 | 873.0 | 844.7 | 813.7 | 788.2 | 760.0 |
| 10° | 1059.5 | 1014.3 | 980.4 | 935.2 | 918.2 | 887.1 | 861.7 | 822.1 | 782.6 | 751.5 | 717.6 |
| 12.5° | 1084.9 | 1031.2 | 983.2 | 929.5 | 906.9 | 873.0 | 836.3 | 791.1 | 745.9 | 706.3 | 669.6 |
| 15° | 1096.2 | 1031.2 | 974.7 | 909.7 | 884.3 | 847.6 | 805.2 | 751.5 | 700.7 | 658.3 | 618.7 |
| 17.5° | 1087.7 | 1011.4 | 952.1 | 878.6 | 850.4 | 808.0 | 760.0 | 703.5 | 649.8 | 604.6 | 565.0 |
| 20° | 1059.5 | 980.4 | 912.5 | 836.3 | 805.2 | 762.8 | 709.1 | 652.6 | 598.9 | 553.7 | 511.4 |
| 22.5° | 1011.4 | 929.5 | 858.9 | 782.6 | 751.5 | 709.1 | 652.6 | 596.1 | 542.4 | 497.2 | 457.7 |
| 25° | 952.1 | 864.5 | 793.9 | 720.4 | 686.5 | 649.8 | 593.3 | 536.8 | 485.9 | 446.4 | 406.8 |
| 27.5° | 873.0 | 796.7 | 726.1 | 652.6 | 621.6 | 587.6 | 531.1 | 480.3 | 429.4 | 389.9 | 356.0 |
| 30° | 788.2 | 714.8 | 655.5 | 584.8 | 556.6 | 522.7 | 474.6 | 423.8 | 381.4 | 344.7 | 313.6 |
| 32.5° | 703.5 | 632.9 | 576.3 | 517.0 | 491.6 | 457.7 | 415.3 | 370.1 | 330.6 | 299.5 | 274.0 |
| 35° | 615.9 | 556.6 | 502.9 | 446.4 | 426.6 | 398.4 | 358.8 | 319.3 | 285.3 | 257.1 | 231.7 |
| 37.5° | 528.3 | 480.3 | 432.3 | 387.1 | 364.5 | 341.9 | 305.1 | 271.2 | 240.1 | 217.5 | 197.8 |
| 40° | 449.2 | 406.8 | 367.3 | 324.9 | 305.1 | 288.2 | 257.1 | 228.8 | 206.2 | 186.5 | 169.5 |
| 42.5° | 372.9 | 339.0 | 305.1 | 271.2 | 254.3 | 240.1 | 214.7 | 189.3 | 169.5 | 155.4 | 141.3 |
| 45° | 305.1 | 279.7 | 251.4 | 220.4 | 211.9 | 194.9 | 175.2 | 158.2 | 141.3 | 130.0 | 118.7 |
| 47.5° | 245.8 | 223.2 | 200.6 | 178.0 | 169.5 | 158.2 | 141.3 | 127.1 | 115.8 | 107.4 | 98.9 |
| 50° | 192.1 | 175.2 | 161.0 | 141.3 | 135.6 | 124.3 | 113.0 | 101.7 | 93.2 | 87.6 | 81.9 |
| 52.5° | 146.9 | 132.8 | 121.5 | 110.2 | 104.5 | 98.9 | 87.6 | 81.9 | 76.3 | 73.5 | 70.6 |
| 55° | 107.4 | 98.9 | 90.4 | 81.9 | 79.1 | 73.5 | 67.8 | 62.2 | 59.3 | 59.3 | 59.3 |
| 57.5° | 76.3 | 70.6 | 65.0 | 59.3 | 59.3 | 56.5 | 53.7 | 50.9 | 48.0 | 48.0 | 48.0 |
| 60° | 53.7 | 50.9 | 48.0 | 45.2 | 42.4 | 42.4 | 39.6 | 42.4 | 39.6 | 42.4 | 42.4 |
| 62.5° | 36.7 | 33.9 | 33.9 | 31.1 | 31.1 | 31.1 | 31.1 | 31.1 | 33.9 | 33.9 | 36.7 |
| 65° | 22.6 | 22.6 | 22.6 | 22.6 | 22.6 | 22.6 | 25.4 | 25.4 | 25.4 | 28.3 | 28.3 |
| 67.5° | 17.0 | 17.0 | 17.0 | 19.8 | 19.8 | 19.8 | 19.8 | 22.6 | 22.6 | 22.6 | 25.4 |
| 70° | 11.3 | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 | 17.0 | 17.0 | 17.0 | 19.8 | 19.8 |
| 72.5° | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 14.1 | 14.1 | 14.1 | 17.0 | 17.0 |
| 75° | 8.5 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 14.1 | 14.1 | 14.1 | 17.0 |
| 77.5° | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 11.3 | 11.3 | 11.3 | 11.3 |
| 80° | 5.7 | 5.7 | 5.7 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 11.3 |
| 82.5° | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 8.5 |
| 85° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 5.7 | 2.8 | 5.7 | 5.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 2.8 | 0.0 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 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):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 839.1 | 839.1 | 839.1 | 839.1 | 839.1 | 839.1 | 839.1 | 839.1 | 839.1 | 839.1 | 839.1 |
| 2.5° | 813.7 | 805.2 | 808.0 | 791.1 | 793.9 | 782.6 | 776.9 | 768.5 | 762.8 | 754.3 | 757.2 |
| 5° | 779.8 | 765.6 | 760.0 | 740.2 | 743.0 | 726.1 | 714.8 | 700.7 | 689.4 | 675.2 | 672.4 |
| 7.5° | 737.4 | 714.8 | 706.3 | 686.5 | 683.7 | 661.1 | 647.0 | 630.0 | 615.9 | 601.8 | 596.1 |
| 10° | 689.4 | 663.9 | 647.0 | 627.2 | 624.4 | 598.9 | 582.0 | 565.0 | 548.1 | 534.0 | 528.3 |
| 12.5° | 638.5 | 610.2 | 590.5 | 567.9 | 562.2 | 539.6 | 519.8 | 502.9 | 485.9 | 471.8 | 463.3 |
| 15° | 584.8 | 553.7 | 534.0 | 511.4 | 505.7 | 480.3 | 463.3 | 443.6 | 429.4 | 415.3 | 409.7 |
| 17.5° | 531.1 | 500.1 | 477.5 | 457.7 | 452.0 | 426.6 | 406.8 | 392.7 | 375.8 | 367.3 | 358.8 |
| 20° | 477.5 | 446.4 | 423.8 | 406.8 | 398.4 | 378.6 | 358.8 | 344.7 | 330.6 | 322.1 | 313.6 |
| 22.5° | 423.8 | 395.5 | 375.8 | 358.8 | 353.2 | 333.4 | 316.4 | 302.3 | 293.8 | 282.5 | 276.9 |
| 25° | 375.8 | 347.5 | 330.6 | 313.6 | 307.9 | 291.0 | 279.7 | 265.6 | 257.1 | 248.6 | 243.0 |
| 27.5° | 330.6 | 305.1 | 288.2 | 274.0 | 271.2 | 257.1 | 243.0 | 234.5 | 226.0 | 220.4 | 217.5 |
| 30° | 285.3 | 265.6 | 251.4 | 240.1 | 237.3 | 223.2 | 211.9 | 206.2 | 197.8 | 194.9 | 192.1 |
| 32.5° | 251.4 | 231.7 | 220.4 | 209.1 | 206.2 | 194.9 | 189.3 | 180.8 | 175.2 | 172.3 | 172.3 |
| 35° | 214.7 | 200.6 | 189.3 | 183.6 | 180.8 | 172.3 | 163.9 | 161.0 | 155.4 | 152.6 | 152.6 |
| 37.5° | 183.6 | 172.3 | 163.9 | 155.4 | 155.4 | 149.7 | 144.1 | 141.3 | 138.4 | 138.4 | 135.6 |
| 40° | 158.2 | 146.9 | 144.1 | 138.4 | 135.6 | 132.8 | 130.0 | 127.1 | 124.3 | 124.3 | 124.3 |
| 42.5° | 132.8 | 127.1 | 121.5 | 118.7 | 118.7 | 115.8 | 113.0 | 113.0 | 110.2 | 113.0 | 113.0 |
| 45° | 113.0 | 107.4 | 104.5 | 101.7 | 104.5 | 101.7 | 101.7 | 98.9 | 101.7 | 101.7 | 101.7 |
| 47.5° | 96.1 | 93.2 | 90.4 | 90.4 | 90.4 | 90.4 | 90.4 | 90.4 | 90.4 | 93.2 | 93.2 |
| 50° | 81.9 | 79.1 | 79.1 | 79.1 | 79.1 | 79.1 | 81.9 | 81.9 | 81.9 | 84.8 | 84.8 |
| 52.5° | 67.8 | 67.8 | 67.8 | 67.8 | 70.6 | 70.6 | 73.5 | 73.5 | 76.3 | 76.3 | 79.1 |
| 55° | 59.3 | 59.3 | 59.3 | 59.3 | 62.2 | 62.2 | 65.0 | 67.8 | 67.8 | 70.6 | 73.5 |
| 57.5° | 50.9 | 50.9 | 53.7 | 53.7 | 56.5 | 56.5 | 59.3 | 62.2 | 62.2 | 65.0 | 67.8 |
| 60° | 42.4 | 45.2 | 48.0 | 48.0 | 48.0 | 50.9 | 53.7 | 56.5 | 56.5 | 59.3 | 62.2 |
| 62.5° | 36.7 | 39.6 | 42.4 | 42.4 | 42.4 | 45.2 | 48.0 | 50.9 | 50.9 | 53.7 | 56.5 |
| 65° | 31.1 | 33.9 | 36.7 | 36.7 | 36.7 | 39.6 | 42.4 | 45.2 | 48.0 | 48.0 | 50.9 |
| 67.5° | 28.3 | 28.3 | 31.1 | 31.1 | 33.9 | 36.7 | 36.7 | 39.6 | 42.4 | 45.2 | 48.0 |
| 70° | 22.6 | 25.4 | 28.3 | 28.3 | 28.3 | 31.1 | 33.9 | 36.7 | 36.7 | 39.6 | 42.4 |
| 72.5° | 19.8 | 19.8 | 22.6 | 22.6 | 25.4 | 28.3 | 28.3 | 31.1 | 33.9 | 33.9 | 36.7 |
| 75° | 17.0 | 19.8 | 19.8 | 19.8 | 22.6 | 22.6 | 25.4 | 28.3 | 28.3 | 31.1 | 31.1 |
| 77.5° | 14.1 | 14.1 | 17.0 | 17.0 | 17.0 | 19.8 | 19.8 | 22.6 | 22.6 | 25.4 | 25.4 |
| 80° | 11.3 | 11.3 | 14.1 | 14.1 | 14.1 | 14.1 | 17.0 | 17.0 | 19.8 | 19.8 | 19.8 |
| 82.5° | 8.5 | 8.5 | 8.5 | 8.5 | 11.3 | 11.3 | 11.3 | 11.3 | 14.1 | 14.1 | 14.1 |
| 85° | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 11.3 |
| 87.5° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 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: P226278

CATALOG NUMBER: LD2B20D010 EU2B20WW9040 2LBSW*

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|-------|-------|--------|-------|-------|-------|-------|-------|
| 0° | 839.1 | 839.1 | 839.1 | 839.1 | 839.1 | 839.1 | 839.1 | 839.1 |
| 2.5° | 748.7 | 748.7 | 745.9 | 743.0 | 740.2 | 737.4 | 734.6 | 731.7 |
| 5° | 663.9 | 666.8 | 655.5 | 652.6 | 652.6 | 647.0 | 649.8 | 644.2 |
| 7.5° | 584.8 | 584.8 | 576.3 | 573.5 | 570.7 | 565.0 | 562.2 | 559.4 |
| 10° | 514.2 | 511.4 | 505.7 | 502.9 | 497.2 | 494.4 | 494.4 | 488.8 |
| 12.5° | 452.0 | 449.2 | 443.6 | 440.7 | 435.1 | 432.3 | 429.4 | 426.6 |
| 15° | 398.4 | 395.5 | 389.9 | 387.1 | 384.2 | 378.6 | 378.6 | 375.8 |
| 17.5° | 347.5 | 344.7 | 341.9 | 336.2 | 336.2 | 330.6 | 327.7 | 327.7 |
| 20° | 307.9 | 305.1 | 299.5 | 296.6 | 296.6 | 293.8 | 293.8 | 288.2 |
| 22.5° | 271.2 | 268.4 | 265.6 | 262.7 | 262.7 | 259.9 | 257.1 | 257.1 |
| 25° | 240.1 | 237.3 | 234.5 | 234.5 | 231.7 | 228.8 | 228.8 | 228.8 |
| 27.5° | 211.9 | 211.9 | 209.1 | 209.1 | 209.1 | 206.2 | 206.2 | 203.4 |
| 30° | 189.3 | 189.3 | 186.5 | 186.5 | 186.5 | 183.6 | 186.5 | 183.6 |
| 32.5° | 169.5 | 169.5 | 169.5 | 169.5 | 169.5 | 166.7 | 166.7 | 166.7 |
| 35° | 152.6 | 152.6 | 152.6 | 152.6 | 152.6 | 149.7 | 152.6 | 149.7 |
| 37.5° | 135.6 | 138.4 | 135.6 | 135.6 | 138.4 | 135.6 | 135.6 | 135.6 |
| 40° | 124.3 | 124.3 | 124.3 | 124.3 | 124.3 | 124.3 | 124.3 | 124.3 |
| 42.5° | 113.0 | 113.0 | 113.0 | 113.0 | 113.0 | 113.0 | 113.0 | 113.0 |
| 45° | 101.7 | 104.5 | 104.5 | 104.5 | 104.5 | 104.5 | 104.5 | 104.5 |
| 47.5° | 96.1 | 96.1 | 96.1 | 96.1 | 98.9 | 96.1 | 98.9 | 98.9 |
| 50° | 87.6 | 87.6 | 87.6 | 90.4 | 90.4 | 90.4 | 90.4 | 90.4 |
| 52.5° | 81.9 | 81.9 | 81.9 | 81.9 | 84.8 | 84.8 | 84.8 | 84.8 |
| 55° | 73.5 | 76.3 | 76.3 | 76.3 | 79.1 | 79.1 | 79.1 | 79.1 |
| 57.5° | 70.6 | 70.6 | 70.6 | 73.5 | 73.5 | 73.5 | 76.3 | 73.5 |
| 60° | 65.0 | 65.0 | 67.8 | 67.8 | 67.8 | 70.6 | 70.6 | 70.6 |
| 62.5° | 59.3 | 62.2 | 62.2 | 62.2 | 62.2 | 65.0 | 65.0 | 65.0 |
| 65° | 53.7 | 56.5 | 56.5 | 56.5 | 59.3 | 59.3 | 59.3 | 59.3 |
| 67.5° | 48.0 | 50.9 | 50.9 | 53.7 | 53.7 | 53.7 | 53.7 | 53.7 |
| 70° | 42.4 | 45.2 | 45.2 | 45.2 | 48.0 | 48.0 | 48.0 | 48.0 |
| 72.5° | 39.6 | 39.6 | 39.6 | 42.4 | 42.4 | 42.4 | 45.2 | 42.4 |
| 75° | 33.9 | 36.7 | 36.7 | 36.7 | 36.7 | 36.7 | 39.6 | 39.6 |
| 77.5° | 28.3 | 28.3 | 28.3 | 28.3 | 31.1 | 31.1 | 31.1 | 31.1 |
| 80° | 22.6 | 22.6 | 22.6 | 22.6 | 25.4 | 25.4 | 25.4 | 25.4 |
| 82.5° | 17.0 | 17.0 | 17.0 | 17.0 | 17.0 | 17.0 | 17.0 | 17.0 |
| 85° | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 | 11.3 |
| 87.5° | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 |
| 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)