

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: P244221

Luminaire Tested: **LD8B30D010 ER8B309727 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244221
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B30D010 ER8B309727 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2263.0 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

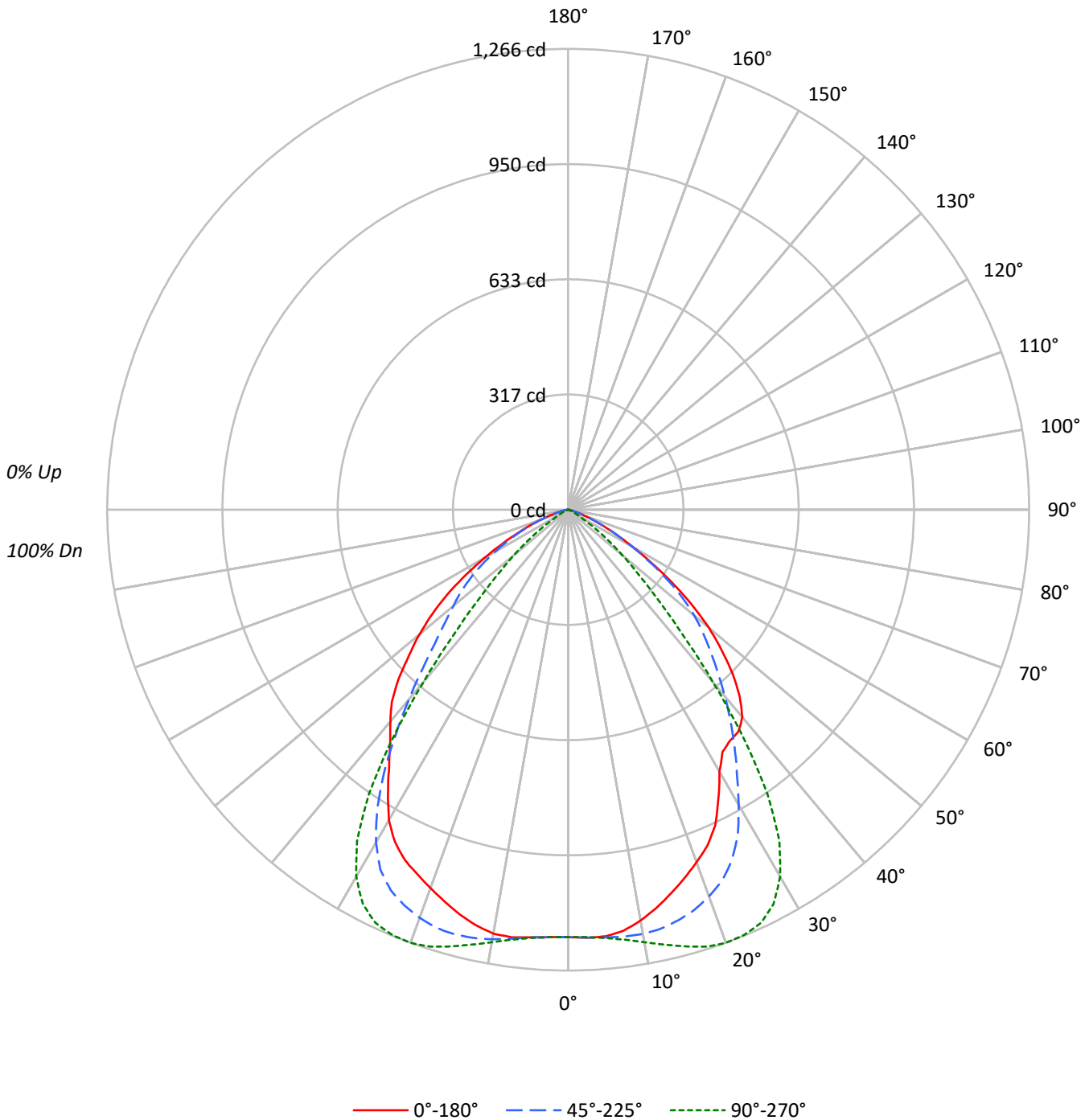
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P244221

CATALOG NUMBER: LD8B30D010 ER8B309727 8LBDW0LI

Luminous Intensity Polar Plot





TEST NUMBER: P244221

CATALOG NUMBER: LD8B30D010 ER8B309727 8LBDW0LI

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 | 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 | 100 | 102 | 99 | 97 | | 98 | 96 | 94 | | 94 | 93 | 92 | 90 |
| 2 | 104 | 98 | 92 | 88 | 102 | 96 | 91 | 87 | 92 | 88 | 85 | | 89 | 86 | 83 | | 86 | 84 | 81 | 79 |
| 3 | 97 | 88 | 82 | 76 | 94 | 87 | 81 | 76 | 84 | 79 | 74 | | 81 | 77 | 73 | | 79 | 75 | 72 | 70 |
| 4 | 90 | 80 | 73 | 67 | 88 | 79 | 72 | 67 | 76 | 70 | 66 | | 74 | 69 | 65 | | 72 | 68 | 64 | 62 |
| 5 | 84 | 73 | 65 | 60 | 82 | 72 | 65 | 59 | 70 | 63 | 59 | | 68 | 62 | 58 | | 66 | 61 | 58 | 56 |
| 6 | 78 | 66 | 59 | 53 | 76 | 66 | 58 | 53 | 64 | 57 | 53 | | 62 | 57 | 52 | | 61 | 56 | 52 | 50 |
| 7 | 73 | 61 | 53 | 48 | 71 | 60 | 53 | 48 | 59 | 52 | 48 | | 57 | 52 | 47 | | 56 | 51 | 47 | 45 |
| 8 | 68 | 56 | 49 | 44 | 67 | 56 | 48 | 43 | 54 | 48 | 43 | | 53 | 47 | 43 | | 52 | 47 | 43 | 41 |
| 9 | 64 | 52 | 45 | 40 | 63 | 51 | 44 | 40 | 50 | 44 | 39 | | 49 | 44 | 39 | | 48 | 43 | 39 | 38 |
| 10 | 60 | 48 | 41 | 36 | 59 | 48 | 41 | 36 | 47 | 41 | 36 | | 46 | 40 | 36 | | 45 | 40 | 36 | 34 |

AVERAGE LUMINANCE (cd/sqm):

| | | | |
|-----|--|-----|------|
| | 0° | 90° | 180° |
| 0° | Luminaire represents a point source (luminous area is zero). | | |
| 5° | No luminance values can be calculated. | | |
| 10° | | | |
| 15° | | | |
| 20° | | | |
| 25° | | | |
| 30° | | | |
| 35° | | | |
| 40° | | | |
| 45° | | | |
| 50° | | | |
| 55° | | | |
| 60° | | | |
| 65° | | | |
| 70° | | | |
| 75° | | | |
| 80° | | | |
| 85° | | | |



TEST NUMBER: P244221

CATALOG NUMBER: LD8B30D010 ER8B309727 8LBDW0LI

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 112.9 | 5.0 |
| 10°-20° | 334.4 | 14.8 |
| 20°-30° | 510.2 | 22.5 |
| 30°-40° | 532.4 | 23.5 |
| 40°-50° | 399.9 | 17.7 |
| 50°-60° | 246.1 | 10.9 |
| 60°-70° | 100.1 | 4.4 |
| 70°-80° | 23.6 | 1.0 |
| 80°-90° | 3.3 | 0.1 |
| 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° | 957.6 | 42.3 |
| 0°-40° | 1490.0 | 65.8 |
| 0°-60° | 2136.0 | 94.4 |
| 0°-90° | 2263.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2263.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1174 | 1174 | 1174 | 1174 | 1174 | |
| 5° | 1176 | 1180 | 1181 | 1180 | 1180 | 111 |
| 15° | 1091 | 1168 | 1242 | 1208 | 1151 | 307 |
| 25° | 956 | 1063 | 1252 | 1153 | 1062 | 435 |
| 35° | 774 | 796 | 954 | 882 | 857 | 489 |
| 45° | 639 | 553 | 345 | 515 | 659 | 488 |
| 55° | 345 | 328 | 90 | 328 | 404 | 310 |
| 65° | 108 | 109 | 14 | 146 | 155 | 112 |
| 75° | 19 | 19 | 2 | 33 | 34 | 23 |
| 85° | 2 | 2 | 1 | 4 | 6 | 3 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P244221

CATALOG NUMBER: LD8B30D010 ER8B309727 8LBDW0LI

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1174.0 | 1174.0 | 1174.0 | 1174.0 | 1174.0 | 1174.0 | 1174.0 | 1174.0 | 1174.0 | 1174.0 | 1174.0 |
| 2.5° | 1177.1 | 1175.2 | 1177.1 | 1177.1 | 1177.7 | 1176.5 | 1177.1 | 1177.7 | 1176.5 | 1176.5 | 1176.5 |
| 5° | 1176.5 | 1175.2 | 1176.5 | 1175.8 | 1177.1 | 1177.1 | 1178.3 | 1178.3 | 1179.6 | 1179.6 | 1181.5 |
| 7.5° | 1166.5 | 1164.0 | 1166.5 | 1168.4 | 1169.6 | 1172.1 | 1175.2 | 1177.7 | 1180.2 | 1182.7 | 1185.8 |
| 10° | 1145.9 | 1145.9 | 1147.8 | 1151.5 | 1155.3 | 1159.6 | 1165.2 | 1171.5 | 1177.7 | 1183.3 | 1188.9 |
| 12.5° | 1120.4 | 1118.5 | 1122.2 | 1127.2 | 1132.8 | 1139.7 | 1148.4 | 1157.8 | 1167.7 | 1179.0 | 1187.7 |
| 15° | 1091.1 | 1089.2 | 1093.6 | 1098.6 | 1105.4 | 1115.4 | 1126.0 | 1138.5 | 1152.8 | 1167.7 | 1182.1 |
| 17.5° | 1061.2 | 1060.6 | 1064.9 | 1071.8 | 1077.4 | 1088.0 | 1101.7 | 1116.6 | 1132.8 | 1152.8 | 1171.5 |
| 20° | 1030.7 | 1030.0 | 1034.4 | 1040.0 | 1047.5 | 1057.4 | 1071.2 | 1088.6 | 1107.9 | 1130.4 | 1152.2 |
| 22.5° | 998.9 | 999.5 | 1003.2 | 1009.5 | 1015.7 | 1026.3 | 1040.6 | 1058.1 | 1079.3 | 1103.6 | 1127.9 |
| 25° | 955.9 | 952.8 | 957.7 | 964.0 | 974.6 | 983.3 | 997.0 | 1015.7 | 1037.5 | 1063.1 | 1091.7 |
| 27.5° | 893.6 | 892.9 | 897.3 | 902.9 | 912.3 | 922.8 | 937.8 | 957.1 | 980.2 | 1008.2 | 1036.3 |
| 30° | 831.2 | 832.5 | 834.4 | 840.0 | 846.2 | 856.8 | 871.8 | 888.0 | 909.8 | 936.6 | 966.5 |
| 32.5° | 788.9 | 788.9 | 791.4 | 795.1 | 799.5 | 805.1 | 815.7 | 827.5 | 844.3 | 863.0 | 884.8 |
| 35° | 774.5 | 772.1 | 774.5 | 775.2 | 775.8 | 777.0 | 778.9 | 782.7 | 788.2 | 796.4 | 804.5 |
| 37.5° | 768.3 | 766.4 | 766.4 | 764.0 | 760.8 | 757.1 | 752.1 | 746.5 | 740.3 | 732.2 | 725.9 |
| 40° | 744.0 | 742.8 | 741.5 | 739.0 | 732.2 | 724.7 | 716.6 | 703.5 | 689.2 | 669.2 | 649.3 |
| 42.5° | 697.3 | 696.0 | 695.4 | 690.4 | 684.2 | 675.5 | 666.1 | 652.4 | 634.3 | 608.8 | 580.1 |
| 45° | 639.3 | 636.8 | 635.0 | 630.6 | 626.2 | 618.8 | 610.0 | 597.6 | 579.5 | 553.3 | 519.1 |
| 47.5° | 572.0 | 570.8 | 570.2 | 568.3 | 563.9 | 559.6 | 554.0 | 544.0 | 527.8 | 502.9 | 467.3 |
| 50° | 504.1 | 501.6 | 502.9 | 502.2 | 500.4 | 497.3 | 493.5 | 486.7 | 474.2 | 451.8 | 419.4 |
| 52.5° | 426.2 | 426.2 | 425.6 | 427.5 | 428.1 | 427.5 | 428.1 | 420.6 | 410.0 | 393.2 | 365.8 |
| 55° | 345.2 | 345.2 | 347.1 | 349.6 | 352.1 | 352.7 | 352.1 | 349.0 | 341.5 | 327.8 | 303.5 |
| 57.5° | 269.2 | 267.9 | 271.7 | 275.4 | 277.9 | 280.4 | 278.5 | 276.0 | 271.7 | 260.5 | 241.8 |
| 60° | 205.0 | 205.0 | 207.5 | 210.0 | 212.5 | 215.0 | 214.4 | 213.7 | 210.0 | 202.5 | 187.6 |
| 62.5° | 150.8 | 151.4 | 151.4 | 153.3 | 155.8 | 158.3 | 160.1 | 158.3 | 156.4 | 151.4 | 141.4 |
| 65° | 107.8 | 107.2 | 107.8 | 109.7 | 111.5 | 114.0 | 115.3 | 114.7 | 112.8 | 109.0 | 101.6 |
| 67.5° | 72.3 | 71.7 | 74.1 | 74.8 | 76.0 | 78.5 | 77.9 | 78.5 | 77.9 | 74.8 | 68.5 |
| 70° | 47.4 | 46.1 | 47.4 | 46.7 | 48.6 | 49.2 | 50.5 | 51.1 | 50.5 | 48.6 | 46.7 |
| 72.5° | 29.3 | 28.7 | 29.3 | 29.9 | 30.5 | 31.1 | 32.4 | 32.4 | 31.8 | 30.5 | 28.0 |
| 75° | 18.7 | 16.8 | 17.4 | 16.2 | 17.4 | 17.4 | 18.7 | 19.3 | 18.7 | 18.7 | 17.4 |
| 77.5° | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.8 | 12.5 | 11.2 | 10.6 |
| 80° | 5.6 | 5.6 | 6.2 | 6.2 | 6.2 | 6.9 | 6.2 | 6.2 | 6.2 | 6.9 | 5.0 |
| 82.5° | 4.4 | 3.7 | 3.7 | 3.7 | 4.4 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| 85° | 1.9 | 2.5 | 1.9 | 1.3 | 1.9 | 1.9 | 2.5 | 1.9 | 1.9 | 1.9 | 2.5 |
| 87.5° | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 | 0.6 | 0.0 | 0.6 | 0.6 | 1.3 | 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: P244221

CATALOG NUMBER: LD8B30D010 ER8B309727 8LBDW0LI

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1174.0 | 1174.0 | 1174.0 | 1174.0 | 1174.0 | 1174.0 | 1174.0 | 1174.0 | 1174.0 | 1174.0 | 1174.0 |
| 2.5° | 1177.1 | 1175.8 | 1175.8 | 1175.2 | 1176.5 | 1175.2 | 1175.8 | 1175.2 | 1175.2 | 1176.5 | 1175.2 |
| 5° | 1181.5 | 1182.1 | 1180.8 | 1180.2 | 1182.1 | 1182.1 | 1182.1 | 1180.8 | 1180.8 | 1181.5 | 1180.8 |
| 7.5° | 1187.7 | 1188.9 | 1189.5 | 1190.2 | 1191.4 | 1192.0 | 1192.0 | 1191.4 | 1190.8 | 1192.7 | 1190.2 |
| 10° | 1194.5 | 1196.4 | 1200.1 | 1202.0 | 1205.1 | 1205.1 | 1206.4 | 1206.4 | 1205.1 | 1206.4 | 1205.8 |
| 12.5° | 1192.0 | 1203.3 | 1209.5 | 1213.9 | 1218.2 | 1221.9 | 1223.2 | 1223.8 | 1223.2 | 1225.7 | 1223.2 |
| 15° | 1196.4 | 1205.8 | 1215.7 | 1223.2 | 1231.3 | 1235.7 | 1236.9 | 1241.9 | 1243.1 | 1243.8 | 1240.0 |
| 17.5° | 1189.5 | 1206.4 | 1217.0 | 1228.2 | 1240.0 | 1248.1 | 1255.6 | 1258.7 | 1259.3 | 1260.6 | 1255.6 |
| 20° | 1174.0 | 1192.7 | 1208.9 | 1225.1 | 1238.8 | 1251.2 | 1257.5 | 1266.2 | 1263.7 | 1268.7 | 1261.8 |
| 22.5° | 1152.8 | 1174.0 | 1194.5 | 1215.7 | 1230.1 | 1245.0 | 1258.1 | 1264.3 | 1267.4 | 1267.4 | 1260.0 |
| 25° | 1119.1 | 1144.1 | 1166.5 | 1188.3 | 1210.1 | 1228.2 | 1243.1 | 1252.5 | 1254.4 | 1253.7 | 1245.0 |
| 27.5° | 1066.8 | 1093.6 | 1119.8 | 1144.7 | 1171.5 | 1192.7 | 1210.1 | 1221.3 | 1224.4 | 1224.4 | 1215.1 |
| 30° | 994.5 | 1023.2 | 1048.7 | 1078.6 | 1106.1 | 1129.7 | 1154.0 | 1164.0 | 1169.6 | 1169.6 | 1159.0 |
| 32.5° | 908.5 | 932.8 | 956.5 | 985.8 | 1015.7 | 1042.5 | 1065.5 | 1079.3 | 1086.1 | 1085.5 | 1076.1 |
| 35° | 815.1 | 826.9 | 845.0 | 866.8 | 893.6 | 918.5 | 940.9 | 954.0 | 965.8 | 965.2 | 956.5 |
| 37.5° | 721.6 | 718.5 | 720.3 | 728.4 | 745.3 | 762.7 | 780.2 | 792.6 | 802.6 | 807.0 | 805.1 |
| 40° | 630.0 | 613.8 | 598.2 | 592.6 | 593.8 | 600.1 | 609.4 | 618.8 | 630.0 | 635.6 | 638.1 |
| 42.5° | 547.7 | 520.3 | 492.9 | 472.3 | 460.5 | 456.8 | 461.1 | 464.2 | 471.1 | 479.2 | 487.3 |
| 45° | 481.7 | 444.9 | 408.8 | 377.0 | 357.1 | 345.2 | 342.7 | 345.2 | 349.0 | 357.1 | 367.6 |
| 47.5° | 427.5 | 384.5 | 344.0 | 308.4 | 279.2 | 263.6 | 259.2 | 258.0 | 261.7 | 269.2 | 283.5 |
| 50° | 379.5 | 336.5 | 291.6 | 250.5 | 220.0 | 202.5 | 196.3 | 193.8 | 198.1 | 203.8 | 216.8 |
| 52.5° | 327.1 | 284.8 | 238.7 | 198.8 | 167.0 | 148.9 | 142.1 | 138.3 | 140.8 | 148.3 | 161.4 |
| 55° | 270.4 | 231.2 | 189.4 | 148.3 | 117.8 | 100.9 | 92.8 | 90.4 | 92.8 | 100.9 | 114.0 |
| 57.5° | 213.7 | 180.7 | 145.8 | 107.2 | 79.8 | 62.9 | 54.8 | 52.3 | 59.2 | 62.3 | 76.0 |
| 60° | 167.0 | 140.2 | 110.3 | 78.5 | 54.8 | 41.7 | 33.6 | 31.8 | 34.9 | 40.5 | 51.7 |
| 62.5° | 125.3 | 108.4 | 84.7 | 56.1 | 40.5 | 26.8 | 22.4 | 20.6 | 22.4 | 26.8 | 35.5 |
| 65° | 91.0 | 77.9 | 59.2 | 41.1 | 27.4 | 19.9 | 15.0 | 13.7 | 15.6 | 18.7 | 26.2 |
| 67.5° | 62.3 | 52.3 | 41.1 | 28.7 | 18.7 | 12.5 | 10.6 | 10.6 | 11.2 | 13.7 | 19.3 |
| 70° | 40.5 | 34.3 | 26.2 | 18.7 | 12.5 | 9.3 | 8.1 | 6.9 | 8.1 | 10.0 | 13.1 |
| 72.5° | 25.6 | 21.8 | 16.8 | 13.1 | 9.3 | 6.9 | 5.6 | 5.0 | 6.2 | 7.5 | 10.0 |
| 75° | 15.6 | 11.8 | 8.7 | 6.9 | 5.0 | 5.0 | 5.0 | 2.5 | 3.1 | 5.0 | 6.2 |
| 77.5° | 9.3 | 8.1 | 6.9 | 5.6 | 4.4 | 2.5 | 2.5 | 2.5 | 3.1 | 3.7 | 5.6 |
| 80° | 5.0 | 4.4 | 3.1 | 3.1 | 2.5 | 1.9 | 2.5 | 1.9 | 1.3 | 3.1 | 3.7 |
| 82.5° | 3.1 | 2.5 | 2.5 | 2.5 | 3.1 | 1.3 | 1.9 | 1.3 | 1.9 | 2.5 | 1.9 |
| 85° | 1.9 | 1.9 | 1.9 | 1.3 | 3.1 | 1.3 | 1.3 | 0.6 | 0.6 | 1.3 | 1.3 |
| 87.5° | 0.0 | 0.6 | 0.6 | 0.0 | 0.6 | 0.0 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 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: P244221

CATALOG NUMBER: LD8B30D010 ER8B309727 8LBDW0LI

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1174.0 | 1174.0 | 1174.0 | 1174.0 | 1174.0 | 1174.0 | 1174.0 | 1174.0 | 1174.0 | 1174.0 | 1174.0 |
| 2.5° | 1175.8 | 1175.2 | 1175.8 | 1175.2 | 1175.2 | 1175.2 | 1175.8 | 1175.8 | 1175.2 | 1175.2 | 1176.5 |
| 5° | 1180.8 | 1180.8 | 1180.8 | 1180.2 | 1179.6 | 1179.6 | 1180.8 | 1180.8 | 1179.0 | 1180.8 | 1180.8 |
| 7.5° | 1191.4 | 1189.5 | 1191.4 | 1188.9 | 1187.7 | 1188.3 | 1188.9 | 1187.7 | 1186.4 | 1187.1 | 1187.1 |
| 10° | 1205.1 | 1203.3 | 1203.3 | 1201.4 | 1199.5 | 1198.3 | 1197.0 | 1193.9 | 1190.8 | 1190.2 | 1187.7 |
| 12.5° | 1221.3 | 1218.2 | 1216.4 | 1212.6 | 1209.5 | 1205.1 | 1201.4 | 1196.4 | 1190.2 | 1185.8 | 1181.5 |
| 15° | 1237.5 | 1232.5 | 1228.2 | 1221.9 | 1215.1 | 1207.6 | 1199.5 | 1191.4 | 1181.5 | 1172.7 | 1165.2 |
| 17.5° | 1250.6 | 1243.8 | 1235.7 | 1225.7 | 1215.7 | 1204.5 | 1192.7 | 1180.8 | 1166.5 | 1155.3 | 1146.6 |
| 20° | 1255.0 | 1245.0 | 1234.4 | 1221.3 | 1208.2 | 1192.7 | 1177.7 | 1162.1 | 1145.9 | 1134.1 | 1124.1 |
| 22.5° | 1249.4 | 1237.5 | 1224.4 | 1210.7 | 1193.3 | 1176.5 | 1159.0 | 1140.9 | 1126.6 | 1110.4 | 1101.1 |
| 25° | 1233.8 | 1219.5 | 1205.1 | 1188.9 | 1172.1 | 1153.4 | 1134.7 | 1116.0 | 1098.6 | 1089.8 | 1078.0 |
| 27.5° | 1202.0 | 1186.4 | 1170.9 | 1154.0 | 1134.7 | 1116.0 | 1096.7 | 1078.6 | 1063.7 | 1051.8 | 1045.0 |
| 30° | 1145.9 | 1127.9 | 1109.8 | 1091.7 | 1074.9 | 1055.6 | 1037.5 | 1022.5 | 1007.6 | 998.2 | 991.4 |
| 32.5° | 1059.9 | 1043.7 | 1025.7 | 1008.2 | 992.6 | 976.4 | 961.5 | 948.4 | 937.8 | 931.6 | 926.6 |
| 35° | 944.0 | 927.8 | 914.1 | 901.7 | 888.6 | 881.7 | 872.4 | 864.9 | 860.5 | 858.0 | 857.4 |
| 37.5° | 798.2 | 788.9 | 784.5 | 782.0 | 779.5 | 777.7 | 778.9 | 782.0 | 784.5 | 788.9 | 793.9 |
| 40° | 642.4 | 650.5 | 653.0 | 661.8 | 669.9 | 680.5 | 692.3 | 706.0 | 717.2 | 731.5 | 741.5 |
| 42.5° | 500.4 | 515.3 | 532.8 | 551.5 | 571.4 | 590.7 | 614.4 | 636.2 | 656.1 | 674.2 | 689.8 |
| 45° | 384.5 | 407.5 | 433.7 | 460.5 | 487.3 | 515.3 | 544.0 | 570.8 | 594.5 | 613.8 | 630.0 |
| 47.5° | 299.7 | 325.3 | 358.9 | 392.0 | 424.4 | 457.4 | 489.2 | 517.2 | 537.1 | 555.8 | 570.2 |
| 50° | 237.4 | 266.7 | 303.5 | 341.5 | 377.0 | 411.9 | 445.5 | 471.7 | 491.7 | 506.6 | 517.2 |
| 52.5° | 183.8 | 218.7 | 256.1 | 296.0 | 334.0 | 372.0 | 403.2 | 427.5 | 443.7 | 456.8 | 464.8 |
| 55° | 137.1 | 171.4 | 211.2 | 252.4 | 291.0 | 327.8 | 357.1 | 378.2 | 392.6 | 400.0 | 404.4 |
| 57.5° | 99.1 | 130.2 | 170.1 | 211.2 | 246.1 | 281.0 | 304.7 | 324.0 | 332.1 | 336.5 | 338.4 |
| 60° | 72.3 | 100.9 | 136.5 | 172.0 | 205.0 | 233.0 | 253.6 | 266.7 | 272.9 | 275.4 | 274.8 |
| 62.5° | 53.0 | 77.9 | 108.4 | 138.3 | 165.1 | 188.2 | 204.4 | 213.1 | 216.2 | 217.5 | 215.6 |
| 65° | 40.5 | 59.8 | 86.0 | 109.0 | 129.6 | 146.4 | 158.3 | 163.9 | 165.7 | 165.1 | 163.9 |
| 67.5° | 29.9 | 44.9 | 64.2 | 81.6 | 96.6 | 109.7 | 115.9 | 120.9 | 122.1 | 120.3 | 118.4 |
| 70° | 21.2 | 33.0 | 46.7 | 58.6 | 69.8 | 77.3 | 84.1 | 84.7 | 84.7 | 84.1 | 82.9 |
| 72.5° | 15.0 | 23.1 | 31.8 | 39.9 | 46.7 | 52.3 | 54.8 | 56.7 | 56.1 | 55.5 | 54.2 |
| 75° | 10.0 | 14.3 | 23.1 | 24.9 | 31.1 | 33.0 | 35.5 | 35.5 | 36.1 | 34.3 | 34.3 |
| 77.5° | 6.2 | 10.0 | 13.7 | 16.2 | 18.7 | 21.2 | 22.4 | 22.4 | 23.1 | 22.4 | 22.4 |
| 80° | 3.7 | 6.2 | 7.5 | 11.2 | 11.2 | 13.1 | 13.7 | 14.3 | 13.1 | 15.0 | 13.1 |
| 82.5° | 2.5 | 3.7 | 5.6 | 5.6 | 6.9 | 8.1 | 8.1 | 8.7 | 8.7 | 8.1 | 8.1 |
| 85° | 1.9 | 2.5 | 3.1 | 3.7 | 3.7 | 4.4 | 3.7 | 3.7 | 4.4 | 5.0 | 4.4 |
| 87.5° | 0.6 | 1.3 | 0.6 | 1.3 | 1.3 | 2.5 | 1.9 | 1.9 | 1.9 | 2.5 | 2.5 |
| 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: P244221

CATALOG NUMBER: LD8B30D010 ER8B309727 8LBDW0LI

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 1174.0 | 1174.0 | 1174.0 | 1174.0 |
| 2.5° | 1175.2 | 1175.8 | 1175.2 | 1175.2 |
| 5° | 1180.8 | 1180.2 | 1180.8 | 1179.6 |
| 7.5° | 1185.2 | 1185.2 | 1184.6 | 1184.6 |
| 10° | 1185.2 | 1182.7 | 1182.7 | 1182.7 |
| 12.5° | 1175.8 | 1172.7 | 1170.9 | 1169.6 |
| 15° | 1159.6 | 1154.0 | 1151.5 | 1150.9 |
| 17.5° | 1138.5 | 1133.5 | 1130.4 | 1128.5 |
| 20° | 1114.2 | 1109.2 | 1105.4 | 1106.1 |
| 22.5° | 1093.0 | 1087.4 | 1084.9 | 1083.6 |
| 25° | 1071.8 | 1064.9 | 1063.1 | 1061.8 |
| 27.5° | 1037.5 | 1033.8 | 1031.9 | 1030.0 |
| 30° | 985.2 | 983.3 | 980.2 | 984.5 |
| 32.5° | 924.7 | 921.6 | 919.1 | 921.0 |
| 35° | 858.0 | 856.2 | 858.0 | 856.8 |
| 37.5° | 797.0 | 798.8 | 801.3 | 802.6 |
| 40° | 749.0 | 755.8 | 758.3 | 759.6 |
| 42.5° | 701.0 | 709.1 | 714.1 | 717.2 |
| 45° | 641.8 | 649.9 | 655.5 | 659.3 |
| 47.5° | 580.8 | 587.6 | 593.2 | 592.6 |
| 50° | 525.3 | 529.0 | 531.5 | 534.0 |
| 52.5° | 469.2 | 469.2 | 469.8 | 469.8 |
| 55° | 405.7 | 404.4 | 403.8 | 404.4 |
| 57.5° | 335.9 | 334.6 | 334.0 | 332.1 |
| 60° | 272.3 | 268.6 | 266.1 | 266.1 |
| 62.5° | 213.1 | 208.7 | 206.9 | 206.3 |
| 65° | 160.1 | 159.5 | 155.8 | 155.2 |
| 67.5° | 115.9 | 113.4 | 110.9 | 111.5 |
| 70° | 81.6 | 77.9 | 77.9 | 76.6 |
| 72.5° | 53.0 | 51.1 | 50.5 | 50.5 |
| 75° | 33.0 | 33.0 | 31.8 | 34.3 |
| 77.5° | 21.8 | 21.8 | 21.2 | 21.8 |
| 80° | 13.1 | 13.1 | 13.1 | 12.5 |
| 82.5° | 8.1 | 8.7 | 8.1 | 8.1 |
| 85° | 4.4 | 5.0 | 3.7 | 5.6 |
| 87.5° | 2.5 | 3.1 | 2.5 | 3.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)