

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: P244166

Luminaire Tested: **LD8B20D010 ER8B20830 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244166
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: LD8B20D010 ER8B20830 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2217.0 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

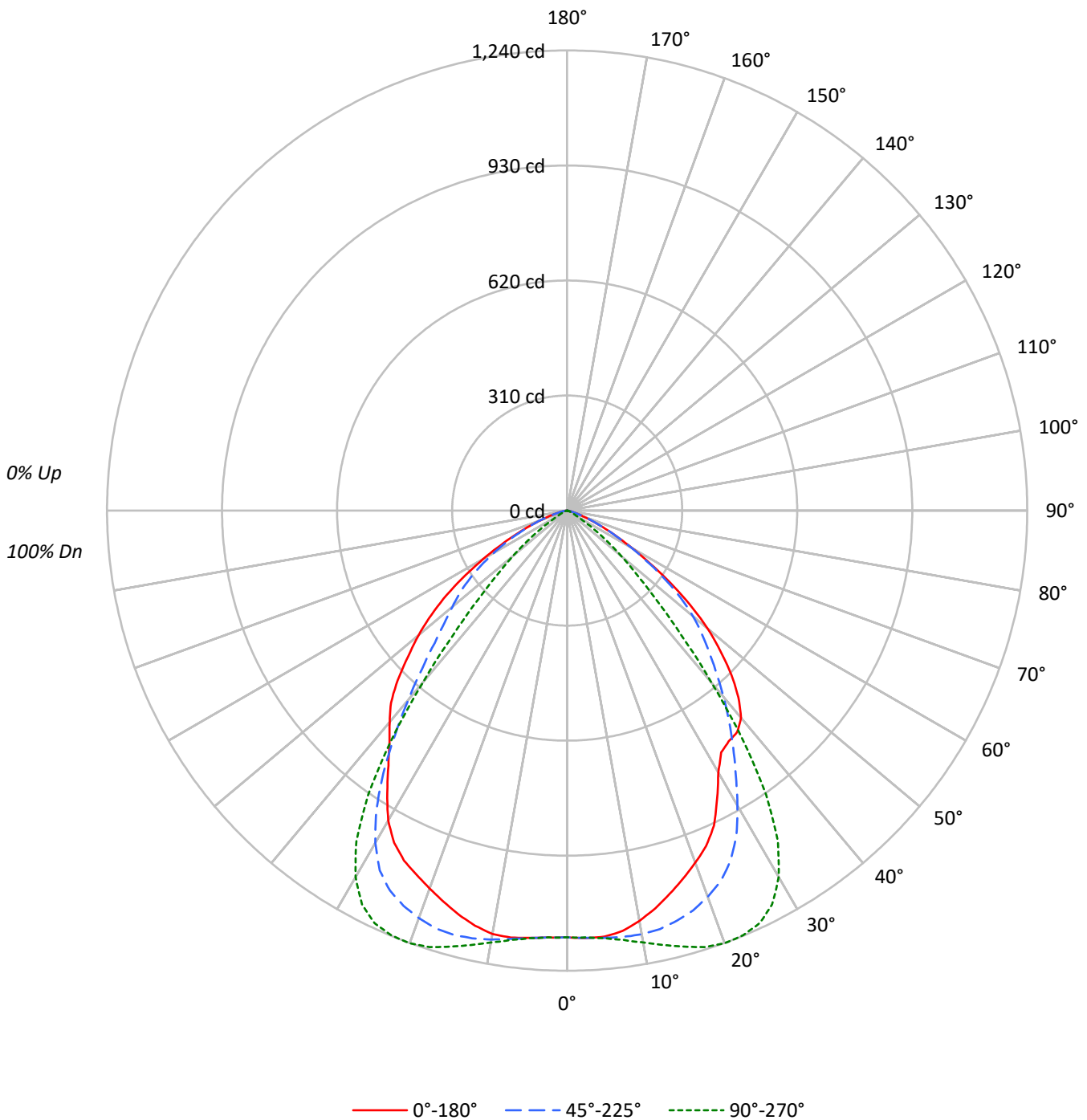
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P244166

CATALOG NUMBER: LD8B20D010 ER8B20830 8LBDW0LI

Luminous Intensity Polar Plot





TEST NUMBER: P244166

CATALOG NUMBER: LD8B20D010 ER8B20830 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 | 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 | | | | | 100 | | | |
| 1 | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99 | 97 | 98 | 96 | 94 | 94 | 93 | 92 | 90 | | | | | 90 | | | |
| 2 | 104 | 98 | 92 | 88 | 102 | 96 | 91 | 87 | 92 | 88 | 85 | 89 | 86 | 83 | 86 | 84 | 81 | 79 | | | | | 79 | | | |
| 3 | 97 | 88 | 82 | 76 | 94 | 87 | 81 | 76 | 84 | 79 | 74 | 81 | 77 | 73 | 79 | 75 | 72 | 70 | | | | | 70 | | | |
| 4 | 90 | 80 | 73 | 67 | 88 | 79 | 72 | 67 | 76 | 70 | 66 | 74 | 69 | 65 | 72 | 68 | 64 | 62 | | | | | 62 | | | |
| 5 | 84 | 73 | 65 | 60 | 82 | 72 | 65 | 59 | 70 | 63 | 59 | 68 | 62 | 58 | 66 | 61 | 58 | 56 | | | | | 56 | | | |
| 6 | 78 | 66 | 59 | 53 | 76 | 66 | 58 | 53 | 64 | 57 | 53 | 62 | 57 | 52 | 61 | 56 | 52 | 50 | | | | | 50 | | | |
| 7 | 73 | 61 | 53 | 48 | 71 | 60 | 53 | 48 | 59 | 52 | 48 | 57 | 52 | 47 | 56 | 51 | 47 | 45 | | | | | 45 | | | |
| 8 | 68 | 56 | 49 | 44 | 67 | 56 | 48 | 43 | 54 | 48 | 43 | 53 | 47 | 43 | 52 | 47 | 43 | 41 | | | | | 41 | | | |
| 9 | 64 | 52 | 45 | 40 | 63 | 51 | 44 | 40 | 50 | 44 | 39 | 49 | 44 | 39 | 48 | 43 | 39 | 38 | | | | | 38 | | | |
| 10 | 60 | 48 | 41 | 36 | 59 | 48 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 36 | 45 | 40 | 36 | 34 | | | | | 34 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 35465 | 35465 | 35465 |
| 5° | 35678 | 35808 | 35771 |
| 10° | 35151 | 37008 | 36281 |
| 15° | 34124 | 38839 | 35994 |
| 20° | 33134 | 40707 | 35559 |
| 25° | 31860 | 41748 | 35392 |
| 30° | 28995 | 40602 | 34343 |
| 35° | 28564 | 35182 | 31599 |
| 40° | 29341 | 24402 | 29953 |
| 45° | 27312 | 14749 | 28167 |
| 50° | 23694 | 9105 | 25099 |
| 55° | 18182 | 4758 | 21300 |
| 60° | 12384 | 1918 | 16078 |
| 65° | 7705 | 978 | 11091 |
| 70° | 4183 | 604 | 6771 |
| 75° | 2180 | 286 | 4003 |
| 80° | 977 | 320 | 2166 |
| 85° | 637 | 212 | 1946 |



TEST NUMBER: P244166

CATALOG NUMBER: LD8B20D010 ER8B20830 8LBDWOLI

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 110.6 | 5.0 |
| 10°-20° | 327.7 | 14.8 |
| 20°-30° | 499.9 | 22.5 |
| 30°-40° | 521.6 | 23.5 |
| 40°-50° | 391.8 | 17.7 |
| 50°-60° | 241.1 | 10.9 |
| 60°-70° | 98.1 | 4.4 |
| 70°-80° | 23.1 | 1.0 |
| 80°-90° | 3.2 | 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° | 938.1 | 42.3 |
| 0°-40° | 1459.7 | 65.8 |
| 0°-60° | 2092.6 | 94.4 |
| 0°-90° | 2217.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2217.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1150 | 1150 | 1150 | 1150 | 1150 | |
| 5° | 1153 | 1156 | 1157 | 1156 | 1156 | 109 |
| 15° | 1069 | 1144 | 1217 | 1183 | 1128 | 301 |
| 25° | 936 | 1041 | 1227 | 1130 | 1040 | 426 |
| 35° | 759 | 780 | 935 | 864 | 839 | 479 |
| 45° | 626 | 542 | 338 | 505 | 646 | 478 |
| 55° | 338 | 321 | 88 | 321 | 396 | 304 |
| 65° | 106 | 107 | 13 | 144 | 152 | 110 |
| 75° | 18 | 18 | 2 | 32 | 34 | 22 |
| 85° | 2 | 2 | 1 | 4 | 6 | 3 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P244166

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1150.1 | 1150.1 | 1150.1 | 1150.1 | 1150.1 | 1150.1 | 1150.1 | 1150.1 | 1150.1 | 1150.1 | 1150.1 |
| 2.5° | 1153.2 | 1151.3 | 1153.2 | 1153.2 | 1153.8 | 1152.6 | 1153.2 | 1153.8 | 1152.6 | 1152.6 | 1152.6 |
| 5° | 1152.6 | 1151.3 | 1152.6 | 1151.9 | 1153.2 | 1153.2 | 1154.4 | 1154.4 | 1155.6 | 1155.6 | 1157.4 |
| 7.5° | 1142.8 | 1140.3 | 1142.8 | 1144.6 | 1145.8 | 1148.3 | 1151.3 | 1153.8 | 1156.2 | 1158.7 | 1161.7 |
| 10° | 1122.6 | 1122.6 | 1124.5 | 1128.1 | 1131.8 | 1136.1 | 1141.6 | 1147.7 | 1153.8 | 1159.3 | 1164.8 |
| 12.5° | 1097.6 | 1095.8 | 1099.4 | 1104.3 | 1109.8 | 1116.5 | 1125.1 | 1134.2 | 1144.0 | 1155.0 | 1163.5 |
| 15° | 1068.9 | 1067.1 | 1071.4 | 1076.2 | 1083.0 | 1092.7 | 1103.1 | 1115.3 | 1129.4 | 1144.0 | 1158.0 |
| 17.5° | 1039.6 | 1039.0 | 1043.3 | 1050.0 | 1055.5 | 1065.9 | 1079.3 | 1093.9 | 1109.8 | 1129.4 | 1147.7 |
| 20° | 1009.7 | 1009.1 | 1013.4 | 1018.9 | 1026.2 | 1036.0 | 1049.4 | 1066.5 | 1085.4 | 1107.4 | 1128.7 |
| 22.5° | 978.6 | 979.2 | 982.8 | 988.9 | 995.1 | 1005.4 | 1019.5 | 1036.6 | 1057.3 | 1081.1 | 1104.9 |
| 25° | 936.4 | 933.4 | 938.3 | 944.4 | 954.8 | 963.3 | 976.7 | 995.1 | 1016.4 | 1041.4 | 1069.5 |
| 27.5° | 875.4 | 874.8 | 879.1 | 884.6 | 893.7 | 904.1 | 918.7 | 937.7 | 960.3 | 987.7 | 1015.2 |
| 30° | 814.3 | 815.6 | 817.4 | 822.9 | 829.0 | 839.4 | 854.0 | 869.9 | 891.3 | 917.5 | 946.8 |
| 32.5° | 772.8 | 772.8 | 775.3 | 778.9 | 783.2 | 788.7 | 799.1 | 810.7 | 827.2 | 845.5 | 866.9 |
| 35° | 758.8 | 756.4 | 758.8 | 759.4 | 760.0 | 761.2 | 763.1 | 766.7 | 772.2 | 780.2 | 788.1 |
| 37.5° | 752.7 | 750.9 | 750.9 | 748.4 | 745.4 | 741.7 | 736.8 | 731.3 | 725.2 | 717.3 | 711.2 |
| 40° | 728.9 | 727.7 | 726.4 | 724.0 | 717.3 | 710.0 | 702.0 | 689.2 | 675.2 | 655.6 | 636.1 |
| 42.5° | 683.1 | 681.9 | 681.3 | 676.4 | 670.3 | 661.7 | 652.6 | 639.2 | 621.5 | 596.4 | 568.3 |
| 45° | 626.3 | 623.9 | 622.1 | 617.8 | 613.5 | 606.2 | 597.6 | 585.4 | 567.7 | 542.1 | 508.5 |
| 47.5° | 560.4 | 559.2 | 558.6 | 556.7 | 552.5 | 548.2 | 542.7 | 532.9 | 517.1 | 492.6 | 457.8 |
| 50° | 493.9 | 491.4 | 492.6 | 492.0 | 490.2 | 487.2 | 483.5 | 476.8 | 464.6 | 442.6 | 410.8 |
| 52.5° | 417.5 | 417.5 | 417.0 | 418.8 | 419.4 | 418.8 | 419.4 | 412.1 | 401.7 | 385.2 | 358.3 |
| 55° | 338.2 | 338.2 | 340.0 | 342.5 | 344.9 | 345.5 | 344.9 | 341.9 | 334.5 | 321.1 | 297.3 |
| 57.5° | 263.7 | 262.5 | 266.2 | 269.8 | 272.3 | 274.7 | 272.9 | 270.4 | 266.2 | 255.2 | 236.9 |
| 60° | 200.8 | 200.8 | 203.3 | 205.7 | 208.2 | 210.6 | 210.0 | 209.4 | 205.7 | 198.4 | 183.8 |
| 62.5° | 147.7 | 148.3 | 148.3 | 150.2 | 152.6 | 155.1 | 156.9 | 155.1 | 153.2 | 148.3 | 138.6 |
| 65° | 105.6 | 105.0 | 105.6 | 107.4 | 109.3 | 111.7 | 112.9 | 112.3 | 110.5 | 106.8 | 99.5 |
| 67.5° | 70.8 | 70.2 | 72.6 | 73.3 | 74.5 | 76.9 | 76.3 | 76.9 | 76.3 | 73.3 | 67.2 |
| 70° | 46.4 | 45.2 | 46.4 | 45.8 | 47.6 | 48.2 | 49.4 | 50.1 | 49.4 | 47.6 | 45.8 |
| 72.5° | 28.7 | 28.1 | 28.7 | 29.3 | 29.9 | 30.5 | 31.7 | 31.7 | 31.1 | 29.9 | 27.5 |
| 75° | 18.3 | 16.5 | 17.1 | 15.9 | 17.1 | 17.1 | 18.3 | 18.9 | 18.3 | 18.3 | 17.1 |
| 77.5° | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 11.0 | 11.6 | 12.2 | 11.0 | 10.4 |
| 80° | 5.5 | 5.5 | 6.1 | 6.1 | 6.1 | 6.7 | 6.1 | 6.1 | 6.1 | 6.7 | 4.9 |
| 82.5° | 4.3 | 3.7 | 3.7 | 3.7 | 4.3 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| 85° | 1.8 | 2.4 | 1.8 | 1.2 | 1.8 | 1.8 | 2.4 | 1.8 | 1.8 | 1.8 | 2.4 |
| 87.5° | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 | 0.6 | 0.0 | 0.6 | 0.6 | 1.2 | 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: P244166

CATALOG NUMBER: LD8B20D010 ER8B20830 8LBDW0LI

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1150.1 | 1150.1 | 1150.1 | 1150.1 | 1150.1 | 1150.1 | 1150.1 | 1150.1 | 1150.1 | 1150.1 | 1150.1 |
| 2.5° | 1153.2 | 1151.9 | 1151.9 | 1151.3 | 1152.6 | 1151.3 | 1151.9 | 1151.3 | 1151.3 | 1151.3 | 1151.3 |
| 5° | 1157.4 | 1158.0 | 1156.8 | 1156.2 | 1158.0 | 1158.0 | 1158.0 | 1156.8 | 1156.8 | 1156.8 | 1156.8 |
| 7.5° | 1163.5 | 1164.8 | 1165.4 | 1166.0 | 1167.2 | 1167.8 | 1167.8 | 1167.2 | 1166.6 | 1168.4 | 1166.0 |
| 10° | 1170.3 | 1172.1 | 1175.7 | 1177.6 | 1180.6 | 1180.6 | 1181.9 | 1181.9 | 1180.6 | 1181.9 | 1181.2 |
| 12.5° | 1167.8 | 1178.8 | 1184.9 | 1189.2 | 1193.4 | 1197.1 | 1198.3 | 1198.9 | 1198.3 | 1200.8 | 1198.3 |
| 15° | 1172.1 | 1181.2 | 1191.0 | 1198.3 | 1206.3 | 1210.5 | 1211.8 | 1216.6 | 1217.9 | 1218.5 | 1214.8 |
| 17.5° | 1165.4 | 1181.9 | 1192.2 | 1203.2 | 1214.8 | 1222.8 | 1230.1 | 1233.1 | 1233.7 | 1235.0 | 1230.1 |
| 20° | 1150.1 | 1168.4 | 1184.3 | 1200.2 | 1213.6 | 1225.8 | 1231.9 | 1240.5 | 1238.0 | 1242.9 | 1236.2 |
| 22.5° | 1129.4 | 1150.1 | 1170.3 | 1191.0 | 1205.1 | 1219.7 | 1232.5 | 1238.6 | 1241.7 | 1241.7 | 1234.3 |
| 25° | 1096.4 | 1120.8 | 1142.8 | 1164.1 | 1185.5 | 1203.2 | 1217.9 | 1227.0 | 1228.9 | 1228.3 | 1219.7 |
| 27.5° | 1045.1 | 1071.4 | 1097.0 | 1121.4 | 1147.7 | 1168.4 | 1185.5 | 1196.5 | 1199.6 | 1199.6 | 1190.4 |
| 30° | 974.3 | 1002.4 | 1027.4 | 1056.7 | 1083.6 | 1106.8 | 1130.6 | 1140.3 | 1145.8 | 1145.8 | 1135.5 |
| 32.5° | 890.0 | 913.9 | 937.1 | 965.7 | 995.1 | 1021.3 | 1043.9 | 1057.3 | 1064.0 | 1063.4 | 1054.3 |
| 35° | 798.5 | 810.1 | 827.8 | 849.2 | 875.4 | 899.8 | 921.8 | 934.6 | 946.2 | 945.6 | 937.1 |
| 37.5° | 706.9 | 703.9 | 705.7 | 713.6 | 730.1 | 747.2 | 764.3 | 776.5 | 786.3 | 790.6 | 788.7 |
| 40° | 617.2 | 601.3 | 586.0 | 580.6 | 581.8 | 587.9 | 597.0 | 606.2 | 617.2 | 622.7 | 625.1 |
| 42.5° | 536.6 | 509.7 | 482.9 | 462.7 | 451.1 | 447.5 | 451.7 | 454.8 | 461.5 | 469.4 | 477.4 |
| 45° | 471.9 | 435.9 | 400.5 | 369.3 | 349.8 | 338.2 | 335.8 | 338.2 | 341.9 | 349.8 | 360.2 |
| 47.5° | 418.8 | 376.7 | 337.0 | 302.2 | 273.5 | 258.2 | 254.0 | 252.7 | 256.4 | 263.7 | 277.8 |
| 50° | 371.8 | 329.6 | 285.7 | 245.4 | 215.5 | 198.4 | 192.3 | 189.8 | 194.1 | 199.6 | 212.4 |
| 52.5° | 320.5 | 279.0 | 233.8 | 194.7 | 163.6 | 145.9 | 139.2 | 135.5 | 138.0 | 145.3 | 158.1 |
| 55° | 264.9 | 226.5 | 185.6 | 145.3 | 115.4 | 98.9 | 91.0 | 88.5 | 91.0 | 98.9 | 111.7 |
| 57.5° | 209.4 | 177.0 | 142.8 | 105.0 | 78.1 | 61.7 | 53.7 | 51.3 | 58.0 | 61.0 | 74.5 |
| 60° | 163.6 | 137.4 | 108.1 | 76.9 | 53.7 | 40.9 | 33.0 | 31.1 | 34.2 | 39.7 | 50.7 |
| 62.5° | 122.7 | 106.2 | 83.0 | 54.9 | 39.7 | 26.2 | 22.0 | 20.1 | 22.0 | 26.2 | 34.8 |
| 65° | 89.1 | 76.3 | 58.0 | 40.3 | 26.9 | 19.5 | 14.7 | 13.4 | 15.3 | 18.3 | 25.6 |
| 67.5° | 61.0 | 51.3 | 40.3 | 28.1 | 18.3 | 12.2 | 10.4 | 10.4 | 11.0 | 13.4 | 18.9 |
| 70° | 39.7 | 33.6 | 25.6 | 18.3 | 12.2 | 9.2 | 7.9 | 6.7 | 7.9 | 9.8 | 12.8 |
| 72.5° | 25.0 | 21.4 | 16.5 | 12.8 | 9.2 | 6.7 | 5.5 | 4.9 | 6.1 | 7.3 | 9.8 |
| 75° | 15.3 | 11.6 | 8.5 | 6.7 | 4.9 | 4.9 | 4.9 | 2.4 | 3.0 | 4.9 | 6.1 |
| 77.5° | 9.2 | 7.9 | 6.7 | 5.5 | 4.3 | 2.4 | 2.4 | 2.4 | 3.0 | 3.7 | 5.5 |
| 80° | 4.9 | 4.3 | 3.0 | 3.0 | 2.4 | 1.8 | 2.4 | 1.8 | 1.2 | 3.0 | 3.7 |
| 82.5° | 3.0 | 2.4 | 2.4 | 2.4 | 3.0 | 1.2 | 1.8 | 1.2 | 1.8 | 2.4 | 1.8 |
| 85° | 1.8 | 1.8 | 1.8 | 1.2 | 3.0 | 1.2 | 1.2 | 0.6 | 0.6 | 1.2 | 1.2 |
| 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: P244166

CATALOG NUMBER: LD8B20D010 ER8B20830 8LBDW0LI

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1150.1 | 1150.1 | 1150.1 | 1150.1 | 1150.1 | 1150.1 | 1150.1 | 1150.1 | 1150.1 | 1150.1 | 1150.1 |
| 2.5° | 1151.9 | 1151.3 | 1151.9 | 1151.3 | 1151.3 | 1151.3 | 1151.9 | 1151.9 | 1151.3 | 1151.3 | 1152.6 |
| 5° | 1156.8 | 1156.8 | 1156.8 | 1156.2 | 1155.6 | 1155.6 | 1156.8 | 1156.8 | 1155.0 | 1156.8 | 1156.8 |
| 7.5° | 1167.2 | 1165.4 | 1167.2 | 1164.8 | 1163.5 | 1164.1 | 1164.8 | 1163.5 | 1162.3 | 1162.9 | 1162.9 |
| 10° | 1180.6 | 1178.8 | 1178.8 | 1177.0 | 1175.1 | 1173.9 | 1172.7 | 1169.6 | 1166.6 | 1166.0 | 1163.5 |
| 12.5° | 1196.5 | 1193.4 | 1191.6 | 1188.0 | 1184.9 | 1180.6 | 1177.0 | 1172.1 | 1166.0 | 1161.7 | 1157.4 |
| 15° | 1212.4 | 1207.5 | 1203.2 | 1197.1 | 1190.4 | 1183.1 | 1175.1 | 1167.2 | 1157.4 | 1148.9 | 1141.6 |
| 17.5° | 1225.2 | 1218.5 | 1210.5 | 1200.8 | 1191.0 | 1180.0 | 1168.4 | 1156.8 | 1142.8 | 1131.8 | 1123.2 |
| 20° | 1229.5 | 1219.7 | 1209.3 | 1196.5 | 1183.7 | 1168.4 | 1153.8 | 1138.5 | 1122.6 | 1111.0 | 1101.3 |
| 22.5° | 1224.0 | 1212.4 | 1199.6 | 1186.1 | 1169.0 | 1152.6 | 1135.5 | 1117.7 | 1103.7 | 1087.8 | 1078.7 |
| 25° | 1208.7 | 1194.7 | 1180.6 | 1164.8 | 1148.3 | 1130.0 | 1111.7 | 1093.3 | 1076.2 | 1067.7 | 1056.1 |
| 27.5° | 1177.6 | 1162.3 | 1147.1 | 1130.6 | 1111.7 | 1093.3 | 1074.4 | 1056.7 | 1042.1 | 1030.5 | 1023.7 |
| 30° | 1122.6 | 1104.9 | 1087.2 | 1069.5 | 1053.0 | 1034.1 | 1016.4 | 1001.8 | 987.1 | 978.0 | 971.2 |
| 32.5° | 1038.4 | 1022.5 | 1004.8 | 987.7 | 972.5 | 956.6 | 941.9 | 929.1 | 918.7 | 912.6 | 907.7 |
| 35° | 924.9 | 909.0 | 895.5 | 883.3 | 870.5 | 863.8 | 854.6 | 847.3 | 843.0 | 840.6 | 840.0 |
| 37.5° | 782.0 | 772.8 | 768.6 | 766.1 | 763.7 | 761.9 | 763.1 | 766.1 | 768.6 | 772.8 | 777.7 |
| 40° | 629.4 | 637.3 | 639.8 | 648.3 | 656.2 | 666.6 | 678.2 | 691.7 | 702.6 | 716.7 | 726.4 |
| 42.5° | 490.2 | 504.9 | 521.9 | 540.3 | 559.8 | 578.7 | 601.9 | 623.3 | 642.8 | 660.5 | 675.8 |
| 45° | 376.7 | 399.2 | 424.9 | 451.1 | 477.4 | 504.9 | 532.9 | 559.2 | 582.4 | 601.3 | 617.2 |
| 47.5° | 293.6 | 318.7 | 351.6 | 384.0 | 415.7 | 448.1 | 479.2 | 506.7 | 526.2 | 544.5 | 558.6 |
| 50° | 232.6 | 261.3 | 297.3 | 334.5 | 369.3 | 403.5 | 436.5 | 462.1 | 481.7 | 496.3 | 506.7 |
| 52.5° | 180.1 | 214.3 | 250.9 | 290.0 | 327.2 | 364.4 | 395.0 | 418.8 | 434.7 | 447.5 | 455.4 |
| 55° | 134.3 | 167.9 | 207.0 | 247.2 | 285.1 | 321.1 | 349.8 | 370.6 | 384.6 | 391.9 | 396.2 |
| 57.5° | 97.1 | 127.6 | 166.7 | 207.0 | 241.1 | 275.3 | 298.5 | 317.4 | 325.4 | 329.6 | 331.5 |
| 60° | 70.8 | 98.9 | 133.7 | 168.5 | 200.8 | 228.3 | 248.5 | 261.3 | 267.4 | 269.8 | 269.2 |
| 62.5° | 51.9 | 76.3 | 106.2 | 135.5 | 161.8 | 184.4 | 200.2 | 208.8 | 211.8 | 213.0 | 211.2 |
| 65° | 39.7 | 58.6 | 84.2 | 106.8 | 127.0 | 143.5 | 155.1 | 160.6 | 162.4 | 161.8 | 160.6 |
| 67.5° | 29.3 | 44.0 | 62.9 | 80.0 | 94.6 | 107.4 | 113.6 | 118.4 | 119.6 | 117.8 | 116.0 |
| 70° | 20.8 | 32.4 | 45.8 | 57.4 | 68.4 | 75.7 | 82.4 | 83.0 | 83.0 | 82.4 | 81.2 |
| 72.5° | 14.7 | 22.6 | 31.1 | 39.1 | 45.8 | 51.3 | 53.7 | 55.6 | 54.9 | 54.3 | 53.1 |
| 75° | 9.8 | 14.0 | 22.6 | 24.4 | 30.5 | 32.4 | 34.8 | 34.8 | 35.4 | 33.6 | 33.6 |
| 77.5° | 6.1 | 9.8 | 13.4 | 15.9 | 18.3 | 20.8 | 22.0 | 22.0 | 22.6 | 22.0 | 22.0 |
| 80° | 3.7 | 6.1 | 7.3 | 11.0 | 11.0 | 12.8 | 13.4 | 14.0 | 12.8 | 14.7 | 12.8 |
| 82.5° | 2.4 | 3.7 | 5.5 | 5.5 | 6.7 | 7.9 | 7.9 | 8.5 | 8.5 | 7.9 | 7.9 |
| 85° | 1.8 | 2.4 | 3.0 | 3.7 | 3.7 | 4.3 | 3.7 | 3.7 | 4.3 | 4.9 | 4.3 |
| 87.5° | 0.6 | 1.2 | 0.6 | 1.2 | 1.2 | 2.4 | 1.8 | 1.8 | 1.8 | 2.4 | 2.4 |
| 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: P244166

CATALOG NUMBER: LD8B20D010 ER8B20830 8LBDWOLI

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 1150.1 | 1150.1 | 1150.1 | 1150.1 |
| 2.5° | 1151.3 | 1151.9 | 1151.3 | 1151.3 |
| 5° | 1156.8 | 1156.2 | 1156.8 | 1155.6 |
| 7.5° | 1161.1 | 1161.1 | 1160.5 | 1160.5 |
| 10° | 1161.1 | 1158.7 | 1158.7 | 1158.7 |
| 12.5° | 1151.9 | 1148.9 | 1147.1 | 1145.8 |
| 15° | 1136.1 | 1130.6 | 1128.1 | 1127.5 |
| 17.5° | 1115.3 | 1110.4 | 1107.4 | 1105.5 |
| 20° | 1091.5 | 1086.6 | 1083.0 | 1083.6 |
| 22.5° | 1070.7 | 1065.3 | 1062.8 | 1061.6 |
| 25° | 1050.0 | 1043.3 | 1041.4 | 1040.2 |
| 27.5° | 1016.4 | 1012.8 | 1010.9 | 1009.1 |
| 30° | 965.1 | 963.3 | 960.3 | 964.5 |
| 32.5° | 905.9 | 902.9 | 900.4 | 902.3 |
| 35° | 840.6 | 838.8 | 840.6 | 839.4 |
| 37.5° | 780.8 | 782.6 | 785.1 | 786.3 |
| 40° | 733.8 | 740.5 | 742.9 | 744.1 |
| 42.5° | 686.8 | 694.7 | 699.6 | 702.6 |
| 45° | 628.8 | 636.7 | 642.2 | 645.9 |
| 47.5° | 568.9 | 575.7 | 581.2 | 580.6 |
| 50° | 514.6 | 518.3 | 520.7 | 523.2 |
| 52.5° | 459.7 | 459.7 | 460.3 | 460.3 |
| 55° | 397.4 | 396.2 | 395.6 | 396.2 |
| 57.5° | 329.0 | 327.8 | 327.2 | 325.4 |
| 60° | 266.8 | 263.1 | 260.7 | 260.7 |
| 62.5° | 208.8 | 204.5 | 202.7 | 202.1 |
| 65° | 156.9 | 156.3 | 152.6 | 152.0 |
| 67.5° | 113.6 | 111.1 | 108.7 | 109.3 |
| 70° | 80.0 | 76.3 | 76.3 | 75.1 |
| 72.5° | 51.9 | 50.1 | 49.4 | 49.4 |
| 75° | 32.4 | 32.4 | 31.1 | 33.6 |
| 77.5° | 21.4 | 21.4 | 20.8 | 21.4 |
| 80° | 12.8 | 12.8 | 12.8 | 12.2 |
| 82.5° | 7.9 | 8.5 | 7.9 | 7.9 |
| 85° | 4.3 | 4.9 | 3.7 | 5.5 |
| 87.5° | 2.4 | 3.0 | 2.4 | 3.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)