

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: P244094

Luminaire Tested: **LD8B20D010 ER8B20830 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244094
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-53)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B20D010 ER8B20830 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE 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: 2230.0 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

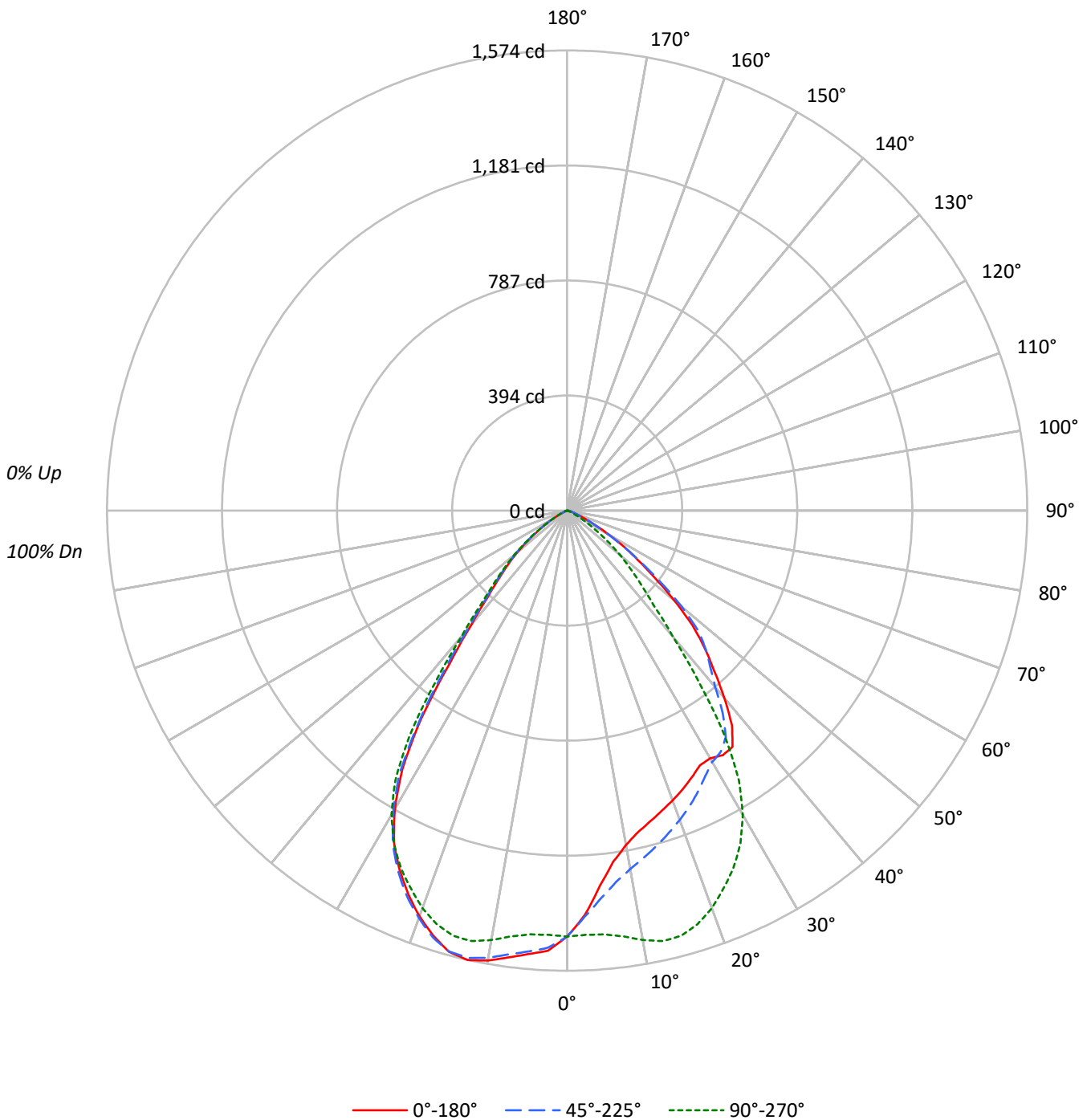
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P244094

CATALOG NUMBER: LD8B20D010 ER8B20830 8LBSW0LI

Luminous Intensity Polar Plot





TEST NUMBER: P244094

CATALOG NUMBER: LD8B20D010 ER8B20830 8LBSW0LI

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 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99 | 99 | 97 | 96 | 96 | 94 | 93 | 91 | | | | | 91 | | | |
| 2 | 105 | 99 | 95 | 91 | 103 | 98 | 93 | 90 | 94 | 91 | 88 | 91 | 88 | 86 | 88 | 86 | 84 | 82 | | | | | 82 | | | |
| 3 | 99 | 91 | 85 | 80 | 96 | 89 | 84 | 79 | 87 | 82 | 78 | 84 | 80 | 77 | 82 | 78 | 76 | 74 | | | | | 74 | | | |
| 4 | 92 | 83 | 76 | 71 | 90 | 82 | 76 | 71 | 80 | 74 | 70 | 77 | 73 | 69 | 76 | 72 | 68 | 67 | | | | | 67 | | | |
| 5 | 86 | 76 | 69 | 64 | 84 | 75 | 69 | 64 | 73 | 68 | 63 | 72 | 66 | 63 | 70 | 65 | 62 | 60 | | | | | 60 | | | |
| 6 | 81 | 70 | 63 | 58 | 79 | 69 | 63 | 58 | 68 | 62 | 57 | 66 | 61 | 57 | 65 | 60 | 56 | 55 | | | | | 55 | | | |
| 7 | 76 | 65 | 58 | 53 | 74 | 64 | 57 | 52 | 63 | 57 | 52 | 61 | 56 | 52 | 60 | 55 | 52 | 50 | | | | | 50 | | | |
| 8 | 71 | 60 | 53 | 48 | 70 | 59 | 53 | 48 | 58 | 52 | 48 | 57 | 52 | 48 | 56 | 51 | 47 | 46 | | | | | 46 | | | |
| 9 | 67 | 56 | 49 | 44 | 66 | 55 | 49 | 44 | 54 | 48 | 44 | 53 | 48 | 44 | 52 | 47 | 44 | 42 | | | | | 42 | | | |
| 10 | 63 | 52 | 45 | 41 | 62 | 52 | 45 | 41 | 51 | 45 | 41 | 50 | 44 | 40 | 49 | 44 | 40 | 39 | | | | | 39 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 44922 | 44922 | 44922 |
| 5° | 39857 | 45035 | 47143 |
| 10° | 36341 | 46705 | 48934 |
| 15° | 35120 | 48071 | 49869 |
| 20° | 34617 | 47480 | 48458 |
| 25° | 34276 | 45841 | 46130 |
| 30° | 34838 | 42781 | 41991 |
| 35° | 37132 | 35404 | 32837 |
| 40° | 33652 | 22667 | 20521 |
| 45° | 29044 | 15507 | 14439 |
| 50° | 22917 | 11312 | 10650 |
| 55° | 15908 | 6957 | 6543 |
| 60° | 10127 | 3515 | 3139 |
| 65° | 5056 | 1394 | 1058 |
| 70° | 2795 | 694 | 379 |
| 75° | 2002 | 500 | 179 |
| 80° | 1634 | 337 | 71 |
| 85° | 1769 | 283 | 0 |



TEST NUMBER: P244094

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 135.8 | 6.1 |
| 10°-20° | 392.2 | 17.6 |
| 20°-30° | 569.2 | 25.5 |
| 30°-40° | 560.6 | 25.1 |
| 40°-50° | 351.4 | 15.8 |
| 50°-60° | 169.6 | 7.6 |
| 60°-70° | 41.0 | 1.8 |
| 70°-80° | 8.3 | 0.4 |
| 80°-90° | 1.9 | 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° | 1097.2 | 49.2 |
| 0°-40° | 1657.8 | 74.3 |
| 0°-60° | 2178.8 | 97.7 |
| 0°-90° | 2230.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2230.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1457 | 1457 | 1457 | 1457 | 1457 | |
| 5° | 1288 | 1331 | 1455 | 1514 | 1523 | 119 |
| 15° | 1100 | 1187 | 1506 | 1561 | 1562 | 311 |
| 25° | 1007 | 1060 | 1347 | 1366 | 1356 | 466 |
| 35° | 986 | 946 | 940 | 887 | 872 | 597 |
| 45° | 666 | 671 | 356 | 341 | 331 | 509 |
| 55° | 296 | 305 | 129 | 128 | 122 | 272 |
| 65° | 69 | 68 | 19 | 16 | 14 | 79 |
| 75° | 17 | 14 | 4 | 2 | 2 | 19 |
| 85° | 5 | 4 | 1 | 0 | 0 | 5 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P244094

CATALOG NUMBER: LD8B20D010 ER8B20830 8LBSW01

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1456.8 | 1456.8 | 1456.8 | 1456.8 | 1456.8 | 1456.8 | 1456.8 | 1456.8 | 1456.8 | 1456.8 | 1456.8 |
| 2.5° | 1384.9 | 1376.0 | 1359.6 | 1379.5 | 1379.5 | 1368.4 | 1390.6 | 1377.2 | 1387.9 | 1404.8 | 1389.8 |
| 5° | 1287.6 | 1280.4 | 1266.6 | 1287.6 | 1290.3 | 1280.0 | 1306.8 | 1296.8 | 1312.5 | 1333.2 | 1331.3 |
| 7.5° | 1210.7 | 1201.5 | 1188.9 | 1210.7 | 1214.9 | 1208.0 | 1233.7 | 1229.1 | 1249.7 | 1276.5 | 1281.1 |
| 10° | 1160.6 | 1151.0 | 1139.9 | 1159.8 | 1162.8 | 1158.3 | 1184.3 | 1181.6 | 1201.9 | 1232.9 | 1245.1 |
| 12.5° | 1125.0 | 1116.9 | 1104.7 | 1125.7 | 1129.2 | 1122.7 | 1147.2 | 1146.0 | 1167.1 | 1199.6 | 1214.9 |
| 15° | 1100.1 | 1090.5 | 1079.4 | 1097.4 | 1102.0 | 1094.7 | 1118.1 | 1115.8 | 1137.2 | 1169.4 | 1186.6 |
| 17.5° | 1076.7 | 1067.9 | 1056.4 | 1073.3 | 1077.9 | 1070.2 | 1093.2 | 1089.4 | 1107.7 | 1138.4 | 1156.0 |
| 20° | 1054.9 | 1045.3 | 1035.0 | 1052.2 | 1054.9 | 1046.1 | 1069.1 | 1064.1 | 1080.6 | 1108.9 | 1126.1 |
| 22.5° | 1032.3 | 1022.4 | 1011.7 | 1028.5 | 1031.2 | 1022.4 | 1043.4 | 1037.7 | 1053.0 | 1078.6 | 1094.3 |
| 25° | 1007.4 | 998.3 | 987.5 | 1003.2 | 1005.5 | 996.0 | 1018.2 | 1010.9 | 1024.3 | 1046.9 | 1059.9 |
| 27.5° | 982.6 | 973.8 | 961.9 | 978.0 | 979.1 | 969.9 | 990.2 | 980.3 | 991.4 | 1012.0 | 1023.1 |
| 30° | 978.4 | 968.4 | 956.2 | 969.2 | 969.6 | 957.7 | 976.8 | 965.0 | 971.1 | 986.4 | 992.9 |
| 32.5° | 991.8 | 981.8 | 969.2 | 979.9 | 978.7 | 965.7 | 984.1 | 969.6 | 971.5 | 979.5 | 978.0 |
| 35° | 986.4 | 974.5 | 959.6 | 971.1 | 971.1 | 955.4 | 973.8 | 956.5 | 954.6 | 955.8 | 946.2 |
| 37.5° | 925.5 | 916.3 | 902.2 | 913.3 | 912.1 | 900.3 | 914.4 | 900.3 | 893.8 | 891.1 | 873.9 |
| 40° | 836.0 | 824.9 | 814.1 | 826.0 | 827.2 | 814.5 | 832.9 | 816.8 | 814.9 | 807.3 | 787.0 |
| 42.5° | 745.2 | 741.4 | 731.1 | 741.0 | 746.4 | 735.7 | 751.0 | 743.3 | 744.5 | 742.6 | 723.4 |
| 45° | 666.0 | 659.5 | 651.9 | 663.3 | 666.8 | 661.4 | 676.7 | 672.1 | 676.7 | 686.3 | 670.6 |
| 47.5° | 580.7 | 574.2 | 565.7 | 578.0 | 584.1 | 574.2 | 587.2 | 585.6 | 592.5 | 609.0 | 607.5 |
| 50° | 477.7 | 473.1 | 471.6 | 473.1 | 476.9 | 472.3 | 481.5 | 481.9 | 486.5 | 509.1 | 510.6 |
| 52.5° | 378.2 | 377.0 | 371.7 | 376.6 | 376.6 | 369.4 | 378.6 | 374.3 | 378.9 | 394.3 | 404.2 |
| 55° | 295.9 | 294.7 | 291.3 | 295.9 | 290.9 | 288.2 | 290.9 | 286.7 | 283.2 | 295.1 | 305.4 |
| 57.5° | 230.4 | 226.6 | 222.4 | 224.3 | 223.9 | 218.2 | 221.2 | 216.3 | 213.6 | 217.8 | 227.0 |
| 60° | 164.2 | 163.1 | 159.2 | 161.1 | 162.7 | 158.5 | 161.5 | 159.2 | 154.6 | 158.1 | 158.5 |
| 62.5° | 109.1 | 109.9 | 107.6 | 107.9 | 106.8 | 106.0 | 107.9 | 109.1 | 107.9 | 106.4 | 106.8 |
| 65° | 69.3 | 68.9 | 68.5 | 68.9 | 69.7 | 68.1 | 69.3 | 70.0 | 68.9 | 68.9 | 68.5 |
| 67.5° | 45.9 | 44.8 | 43.6 | 44.4 | 45.2 | 44.0 | 45.2 | 44.8 | 45.2 | 44.8 | 43.6 |
| 70° | 31.0 | 30.6 | 30.2 | 30.6 | 30.6 | 29.9 | 30.6 | 30.2 | 30.6 | 30.2 | 29.1 |
| 72.5° | 22.6 | 22.6 | 22.2 | 22.6 | 22.6 | 21.8 | 22.2 | 21.4 | 21.8 | 21.4 | 20.7 |
| 75° | 16.8 | 16.8 | 16.5 | 16.8 | 16.5 | 16.1 | 16.5 | 16.1 | 15.3 | 15.3 | 14.5 |
| 77.5° | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 | 11.9 | 11.9 | 11.5 | 11.1 | 10.7 | 10.7 |
| 80° | 9.2 | 8.8 | 8.8 | 8.8 | 8.8 | 8.4 | 8.8 | 8.4 | 8.0 | 7.7 | 7.3 |
| 82.5° | 6.5 | 6.9 | 6.5 | 6.5 | 6.5 | 6.1 | 6.5 | 6.1 | 6.1 | 5.7 | 5.0 |
| 85° | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 4.6 | 4.6 | 4.6 | 4.2 | 4.2 | 3.8 |
| 87.5° | 2.7 | 2.7 | 2.7 | 3.1 | 2.7 | 2.7 | 2.7 | 2.3 | 2.3 | 1.9 | 1.9 |
| 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: P244094

CATALOG NUMBER: LD8B20D010 ER8B20830 8LBSWOLI

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1456.8 | 1456.8 | 1456.8 | 1456.8 | 1456.8 | 1456.8 | 1456.8 | 1456.8 | 1456.8 | 1456.8 | 1456.8 |
| 2.5° | 1409.7 | 1411.6 | 1407.4 | 1413.9 | 1439.2 | 1418.9 | 1427.3 | 1430.0 | 1449.2 | 1452.6 | 1450.3 |
| 5° | 1356.1 | 1364.6 | 1369.9 | 1384.5 | 1412.4 | 1397.9 | 1412.8 | 1422.4 | 1446.9 | 1454.9 | 1456.8 |
| 7.5° | 1314.0 | 1331.6 | 1344.7 | 1368.4 | 1401.3 | 1390.2 | 1412.8 | 1428.5 | 1458.3 | 1468.7 | 1473.7 |
| 10° | 1282.7 | 1309.4 | 1332.0 | 1364.6 | 1401.7 | 1394.4 | 1423.9 | 1446.1 | 1479.4 | 1491.6 | 1497.8 |
| 12.5° | 1258.9 | 1291.5 | 1321.7 | 1363.0 | 1403.2 | 1399.8 | 1435.4 | 1460.6 | 1495.9 | 1508.1 | 1515.4 |
| 15° | 1232.9 | 1270.4 | 1305.6 | 1351.9 | 1395.2 | 1394.4 | 1432.7 | 1459.5 | 1495.5 | 1505.8 | 1512.7 |
| 17.5° | 1201.9 | 1242.1 | 1280.7 | 1330.9 | 1373.8 | 1374.5 | 1413.2 | 1439.6 | 1474.8 | 1483.2 | 1487.8 |
| 20° | 1170.5 | 1210.3 | 1249.0 | 1300.6 | 1342.7 | 1343.9 | 1381.8 | 1406.3 | 1440.0 | 1446.9 | 1448.0 |
| 22.5° | 1137.2 | 1174.3 | 1213.0 | 1264.3 | 1304.9 | 1305.6 | 1343.1 | 1366.1 | 1394.8 | 1398.3 | 1401.3 |
| 25° | 1099.3 | 1135.7 | 1172.0 | 1222.9 | 1261.6 | 1263.9 | 1298.0 | 1318.3 | 1344.7 | 1347.3 | 1348.5 |
| 27.5° | 1059.9 | 1089.7 | 1124.6 | 1168.2 | 1207.2 | 1205.7 | 1237.9 | 1260.8 | 1284.6 | 1283.0 | 1282.7 |
| 30° | 1020.1 | 1045.0 | 1066.4 | 1108.5 | 1137.2 | 1138.4 | 1168.6 | 1179.7 | 1204.6 | 1201.5 | 1201.1 |
| 32.5° | 992.1 | 998.6 | 1004.4 | 1025.8 | 1053.0 | 1043.4 | 1064.1 | 1077.9 | 1095.1 | 1094.0 | 1094.3 |
| 35° | 940.8 | 929.0 | 911.8 | 914.8 | 931.3 | 916.3 | 927.4 | 927.1 | 944.7 | 940.5 | 945.4 |
| 37.5° | 853.2 | 819.5 | 781.2 | 759.4 | 762.5 | 743.7 | 739.9 | 749.1 | 755.2 | 743.3 | 747.5 |
| 40° | 759.8 | 710.0 | 650.3 | 600.6 | 597.9 | 574.5 | 570.3 | 561.1 | 573.0 | 563.1 | 566.1 |
| 42.5° | 690.9 | 625.1 | 546.6 | 486.1 | 473.1 | 453.6 | 442.1 | 440.6 | 444.0 | 437.1 | 435.2 |
| 45° | 638.1 | 568.0 | 478.1 | 408.8 | 394.3 | 373.2 | 361.7 | 357.5 | 357.9 | 355.6 | 353.7 |
| 47.5° | 576.1 | 505.6 | 414.5 | 343.7 | 327.3 | 307.4 | 295.9 | 293.2 | 294.7 | 291.7 | 289.4 |
| 50° | 490.3 | 427.2 | 344.1 | 279.4 | 264.9 | 250.3 | 241.1 | 238.5 | 238.1 | 235.8 | 234.3 |
| 52.5° | 398.1 | 345.6 | 273.7 | 219.7 | 206.7 | 192.5 | 186.0 | 182.6 | 183.0 | 180.7 | 178.4 |
| 55° | 308.1 | 275.6 | 212.1 | 166.1 | 154.3 | 143.2 | 137.0 | 132.8 | 131.7 | 129.4 | 128.2 |
| 57.5° | 229.3 | 207.5 | 158.8 | 119.8 | 112.9 | 102.2 | 96.1 | 91.1 | 90.3 | 89.2 | 88.8 |
| 60° | 160.8 | 145.1 | 111.8 | 85.4 | 77.3 | 70.8 | 64.7 | 59.7 | 57.4 | 57.0 | 55.9 |
| 62.5° | 104.1 | 94.5 | 73.5 | 57.0 | 50.9 | 46.3 | 40.2 | 36.7 | 35.2 | 33.7 | 34.1 |
| 65° | 64.7 | 57.4 | 45.9 | 36.7 | 33.3 | 29.9 | 25.3 | 22.2 | 20.7 | 19.1 | 19.5 |
| 67.5° | 40.2 | 36.0 | 29.1 | 23.7 | 21.4 | 18.8 | 15.3 | 13.0 | 11.9 | 10.7 | 10.0 |
| 70° | 27.2 | 23.3 | 19.9 | 16.8 | 15.3 | 13.4 | 11.1 | 9.2 | 8.4 | 7.7 | 6.9 |
| 72.5° | 19.1 | 17.2 | 14.5 | 12.6 | 11.5 | 10.0 | 8.4 | 7.3 | 6.5 | 5.7 | 5.0 |
| 75° | 13.8 | 12.2 | 10.7 | 9.2 | 8.4 | 7.7 | 6.5 | 5.7 | 5.0 | 4.2 | 3.4 |
| 77.5° | 10.0 | 8.8 | 7.7 | 6.9 | 6.5 | 5.4 | 4.6 | 4.2 | 3.8 | 3.1 | 2.3 |
| 80° | 6.9 | 6.1 | 5.0 | 4.6 | 4.6 | 3.8 | 3.4 | 3.1 | 2.7 | 1.9 | 1.5 |
| 82.5° | 4.6 | 4.2 | 3.8 | 3.4 | 3.1 | 2.7 | 2.7 | 1.9 | 1.5 | 1.1 | 0.8 |
| 85° | 3.4 | 3.1 | 2.7 | 2.3 | 2.3 | 1.9 | 1.5 | 1.1 | 1.1 | 0.8 | 0.4 |
| 87.5° | 1.9 | 1.9 | 1.5 | 1.1 | 1.1 | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 | 0.4 |
| 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: P244094

CATALOG NUMBER: LD8B20D010 ER8B20830 8LBSW01

CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1456.8 | 1456.8 | 1456.8 | 1456.8 | 1456.8 | 1456.8 | 1456.8 | 1456.8 | 1456.8 | 1456.8 | 1456.8 |
| 2.5° | 1469.8 | 1471.0 | 1477.5 | 1472.5 | 1485.1 | 1494.3 | 1489.7 | 1500.1 | 1496.6 | 1495.9 | 1507.7 |
| 5° | 1479.8 | 1482.5 | 1491.3 | 1486.7 | 1500.4 | 1510.4 | 1505.8 | 1517.3 | 1513.8 | 1513.1 | 1525.3 |
| 7.5° | 1498.9 | 1501.6 | 1509.3 | 1505.4 | 1520.0 | 1528.8 | 1523.0 | 1535.7 | 1531.1 | 1530.7 | 1542.6 |
| 10° | 1523.0 | 1526.9 | 1533.4 | 1529.5 | 1542.9 | 1550.6 | 1544.9 | 1557.1 | 1552.9 | 1551.0 | 1564.0 |
| 12.5° | 1541.0 | 1543.7 | 1550.2 | 1547.1 | 1560.2 | 1565.9 | 1560.9 | 1572.8 | 1567.4 | 1565.9 | 1577.4 |
| 15° | 1536.8 | 1539.5 | 1544.9 | 1542.2 | 1554.4 | 1559.8 | 1553.3 | 1566.3 | 1560.9 | 1557.9 | 1568.2 |
| 17.5° | 1510.0 | 1511.5 | 1515.4 | 1512.7 | 1525.7 | 1529.2 | 1521.9 | 1534.9 | 1529.9 | 1524.6 | 1534.5 |
| 20° | 1470.6 | 1469.8 | 1472.1 | 1471.0 | 1481.7 | 1483.6 | 1479.0 | 1488.6 | 1482.8 | 1479.8 | 1485.5 |
| 22.5° | 1421.6 | 1420.8 | 1422.4 | 1419.3 | 1430.0 | 1431.2 | 1424.3 | 1435.8 | 1430.0 | 1424.3 | 1433.8 |
| 25° | 1367.2 | 1363.0 | 1362.3 | 1363.4 | 1370.7 | 1371.8 | 1364.6 | 1373.0 | 1365.7 | 1361.1 | 1370.3 |
| 27.5° | 1300.3 | 1294.9 | 1293.8 | 1294.9 | 1302.2 | 1296.8 | 1290.7 | 1296.8 | 1289.5 | 1285.3 | 1291.1 |
| 30° | 1217.6 | 1209.9 | 1206.5 | 1204.2 | 1211.8 | 1209.9 | 1195.8 | 1202.7 | 1191.2 | 1185.0 | 1189.3 |
| 32.5° | 1106.2 | 1102.0 | 1092.8 | 1087.4 | 1094.7 | 1080.2 | 1071.4 | 1071.4 | 1066.8 | 1056.4 | 1058.7 |
| 35° | 951.6 | 945.1 | 936.6 | 932.0 | 933.2 | 913.7 | 899.1 | 902.2 | 886.9 | 884.2 | 885.3 |
| 37.5° | 756.0 | 745.2 | 742.2 | 732.6 | 734.9 | 717.7 | 697.8 | 698.2 | 690.1 | 681.7 | 679.0 |
| 40° | 568.0 | 566.1 | 563.1 | 555.0 | 558.1 | 539.3 | 531.7 | 532.0 | 526.7 | 520.6 | 523.6 |
| 42.5° | 439.0 | 432.9 | 431.0 | 428.3 | 429.1 | 426.0 | 416.1 | 417.2 | 412.6 | 411.1 | 409.6 |
| 45° | 356.7 | 350.2 | 345.6 | 347.9 | 347.9 | 344.5 | 340.7 | 343.0 | 340.7 | 337.6 | 339.1 |
| 47.5° | 294.0 | 287.8 | 285.5 | 285.2 | 287.8 | 285.5 | 281.7 | 282.5 | 282.1 | 281.0 | 280.2 |
| 50° | 234.6 | 233.1 | 231.2 | 230.0 | 231.2 | 230.4 | 227.0 | 228.9 | 230.0 | 226.2 | 227.4 |
| 52.5° | 178.8 | 178.8 | 178.4 | 175.7 | 178.0 | 175.7 | 175.3 | 176.1 | 174.9 | 173.4 | 173.0 |
| 55° | 130.9 | 129.8 | 127.8 | 127.5 | 128.2 | 127.5 | 126.7 | 127.1 | 127.8 | 124.0 | 124.0 |
| 57.5° | 89.6 | 88.8 | 87.7 | 87.7 | 89.2 | 87.3 | 86.1 | 87.7 | 86.1 | 84.6 | 84.6 |
| 60° | 57.4 | 57.0 | 55.9 | 55.9 | 55.9 | 55.5 | 54.4 | 54.7 | 55.5 | 53.2 | 53.6 |
| 62.5° | 34.4 | 33.3 | 32.9 | 32.5 | 32.9 | 32.5 | 32.5 | 32.2 | 31.8 | 31.8 | 30.6 |
| 65° | 18.8 | 18.0 | 17.2 | 17.6 | 17.6 | 17.2 | 17.2 | 17.2 | 16.5 | 16.1 | 15.7 |
| 67.5° | 9.6 | 8.8 | 8.8 | 8.4 | 8.4 | 8.4 | 8.4 | 8.0 | 8.0 | 8.0 | 7.7 |
| 70° | 6.1 | 5.7 | 5.4 | 5.4 | 5.4 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 4.6 |
| 72.5° | 4.2 | 3.8 | 3.4 | 3.4 | 3.4 | 3.1 | 3.1 | 3.1 | 3.1 | 2.7 | 2.7 |
| 75° | 3.1 | 2.7 | 2.3 | 2.3 | 2.3 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 77.5° | 1.9 | 1.5 | 1.5 | 1.5 | 1.5 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 0.8 |
| 80° | 1.1 | 1.1 | 0.8 | 0.8 | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 82.5° | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.0 |
| 85° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.4 | 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 |



TEST NUMBER: P244094

CATALOG NUMBER: LD8B20D010 ER8B20830 8LBSW01

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1456.8 | 1456.8 | 1456.8 | 1456.8 | 1456.8 | 1456.8 | 1456.8 | 1456.8 |
| 2.5° | 1503.5 | 1500.4 | 1502.4 | 1516.5 | 1510.4 | 1508.5 | 1492.4 | 1506.6 |
| 5° | 1521.5 | 1519.2 | 1519.2 | 1535.3 | 1528.0 | 1526.5 | 1510.8 | 1523.0 |
| 7.5° | 1538.3 | 1536.0 | 1536.4 | 1552.9 | 1547.1 | 1544.9 | 1529.2 | 1541.4 |
| 10° | 1560.2 | 1558.6 | 1559.0 | 1574.7 | 1568.6 | 1566.3 | 1550.2 | 1562.8 |
| 12.5° | 1573.2 | 1570.9 | 1570.9 | 1587.7 | 1580.8 | 1577.4 | 1562.1 | 1574.3 |
| 15° | 1563.2 | 1559.8 | 1559.8 | 1576.6 | 1569.0 | 1564.0 | 1550.6 | 1562.1 |
| 17.5° | 1529.2 | 1525.7 | 1525.7 | 1540.3 | 1534.5 | 1527.2 | 1513.5 | 1524.2 |
| 20° | 1481.7 | 1477.5 | 1476.3 | 1493.2 | 1485.1 | 1478.6 | 1466.4 | 1476.7 |
| 22.5° | 1428.1 | 1426.2 | 1422.7 | 1439.6 | 1432.3 | 1425.4 | 1412.4 | 1420.5 |
| 25° | 1363.8 | 1360.7 | 1357.3 | 1373.8 | 1366.5 | 1359.6 | 1349.3 | 1355.8 |
| 27.5° | 1283.8 | 1284.2 | 1282.3 | 1295.3 | 1288.0 | 1284.2 | 1271.6 | 1282.3 |
| 30° | 1187.0 | 1182.8 | 1181.2 | 1196.5 | 1189.6 | 1184.7 | 1169.0 | 1179.3 |
| 32.5° | 1060.6 | 1054.5 | 1046.5 | 1063.7 | 1051.8 | 1047.6 | 1034.2 | 1049.2 |
| 35° | 876.9 | 875.0 | 867.7 | 882.3 | 875.8 | 868.1 | 859.7 | 872.3 |
| 37.5° | 677.9 | 679.4 | 678.6 | 682.5 | 678.6 | 673.7 | 664.5 | 659.9 |
| 40° | 517.5 | 513.7 | 510.6 | 517.5 | 509.5 | 509.5 | 504.1 | 509.8 |
| 42.5° | 405.7 | 404.2 | 408.0 | 409.6 | 405.0 | 404.2 | 403.4 | 403.1 |
| 45° | 334.9 | 334.9 | 335.7 | 337.2 | 335.7 | 334.9 | 332.6 | 331.1 |
| 47.5° | 276.0 | 277.5 | 276.0 | 281.0 | 278.3 | 277.5 | 272.9 | 274.8 |
| 50° | 223.5 | 221.6 | 223.5 | 225.1 | 225.5 | 223.2 | 220.9 | 222.0 |
| 52.5° | 173.4 | 170.3 | 169.6 | 171.9 | 170.3 | 170.3 | 168.8 | 168.4 |
| 55° | 122.1 | 123.3 | 121.3 | 123.3 | 122.5 | 121.3 | 120.2 | 121.7 |
| 57.5° | 82.7 | 83.1 | 82.3 | 83.4 | 81.5 | 81.9 | 81.5 | 81.1 |
| 60° | 53.6 | 52.1 | 52.1 | 53.2 | 51.3 | 51.3 | 50.9 | 50.9 |
| 62.5° | 30.6 | 30.2 | 30.2 | 29.9 | 29.5 | 29.5 | 29.5 | 28.7 |
| 65° | 15.7 | 15.3 | 14.9 | 14.9 | 14.9 | 14.9 | 14.5 | 14.5 |
| 67.5° | 7.7 | 7.3 | 7.3 | 7.7 | 7.3 | 7.3 | 7.3 | 7.3 |
| 70° | 4.6 | 4.6 | 4.2 | 4.6 | 4.2 | 4.2 | 4.2 | 4.2 |
| 72.5° | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| 75° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 77.5° | 1.1 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 80° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 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 |

(END OF REPORT)