

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: P244142

Luminaire Tested: **LD8B20D010 ER8B20950 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244142
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 ER8B20950 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2138.0 lumens
Efficiency: N/A
Efficacy: 100.4 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

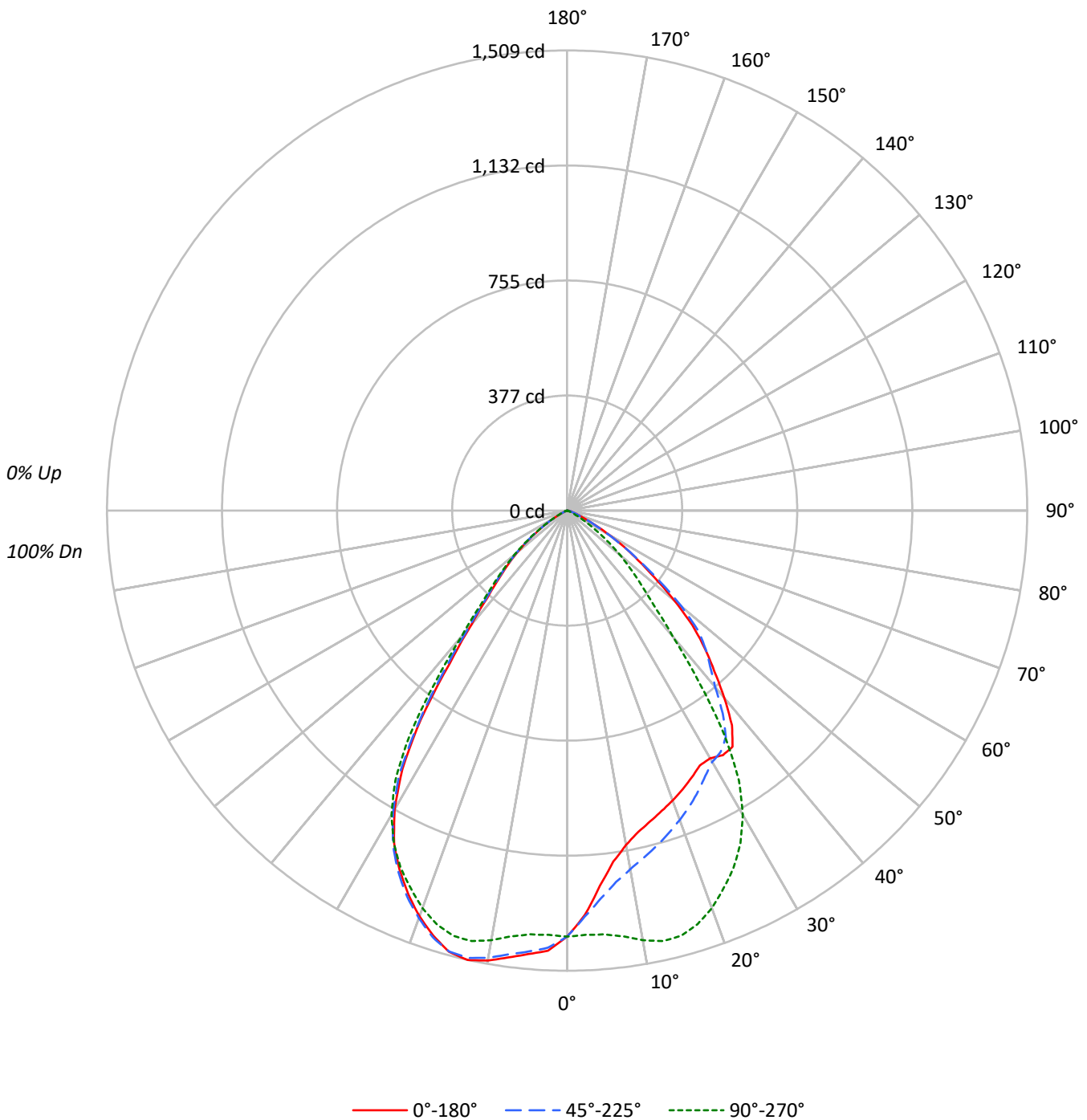
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P244142

CATALOG NUMBER: LD8B20D010 ER8B20950 8LBSW0LI

Luminous Intensity Polar Plot





TEST NUMBER: P244142

CATALOG NUMBER: LD8B20D010 ER8B20950 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° | 43069 | 43069 | 43069 |
| 5° | 38213 | 43178 | 45199 |
| 10° | 34841 | 44779 | 46918 |
| 15° | 33670 | 46089 | 47810 |
| 20° | 33189 | 45521 | 46460 |
| 25° | 32864 | 43952 | 44225 |
| 30° | 33399 | 41015 | 40261 |
| 35° | 35600 | 33944 | 31482 |
| 40° | 32264 | 21729 | 19676 |
| 45° | 27844 | 14866 | 13842 |
| 50° | 21972 | 10847 | 10209 |
| 55° | 15252 | 6666 | 6274 |
| 60° | 9707 | 3373 | 3010 |
| 65° | 4845 | 1335 | 1014 |
| 70° | 2678 | 658 | 361 |
| 75° | 1918 | 477 | 179 |
| 80° | 1563 | 320 | 71 |
| 85° | 1698 | 248 | 0 |



TEST NUMBER: P244142

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 130.2 | 6.1 |
| 10°-20° | 376.0 | 17.6 |
| 20°-30° | 545.7 | 25.5 |
| 30°-40° | 537.5 | 25.1 |
| 40°-50° | 336.9 | 15.8 |
| 50°-60° | 162.6 | 7.6 |
| 60°-70° | 39.3 | 1.8 |
| 70°-80° | 7.9 | 0.4 |
| 80°-90° | 1.8 | 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° | 1051.9 | 49.2 |
| 0°-40° | 1589.4 | 74.3 |
| 0°-60° | 2088.9 | 97.7 |
| 0°-90° | 2138.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2138.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1397 | 1397 | 1397 | 1397 | 1397 | |
| 5° | 1234 | 1276 | 1395 | 1451 | 1460 | 114 |
| 15° | 1055 | 1138 | 1444 | 1496 | 1498 | 298 |
| 25° | 966 | 1016 | 1292 | 1309 | 1300 | 447 |
| 35° | 946 | 907 | 902 | 850 | 836 | 572 |
| 45° | 638 | 643 | 341 | 327 | 317 | 488 |
| 55° | 284 | 293 | 124 | 123 | 117 | 261 |
| 65° | 66 | 66 | 18 | 16 | 14 | 76 |
| 75° | 16 | 14 | 4 | 2 | 2 | 18 |
| 85° | 5 | 4 | 1 | 0 | 0 | 5 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P244142

CATALOG NUMBER: LD8B20D010 ER8B20950 8LBSW01

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1396.7 | 1396.7 | 1396.7 | 1396.7 | 1396.7 | 1396.7 | 1396.7 | 1396.7 | 1396.7 | 1396.7 | 1396.7 |
| 2.5° | 1327.7 | 1319.3 | 1303.5 | 1322.6 | 1322.6 | 1311.9 | 1333.2 | 1320.4 | 1330.7 | 1346.8 | 1332.5 |
| 5° | 1234.5 | 1227.5 | 1214.3 | 1234.5 | 1237.1 | 1227.2 | 1252.9 | 1243.3 | 1258.4 | 1278.2 | 1276.3 |
| 7.5° | 1160.7 | 1151.9 | 1139.8 | 1160.7 | 1164.8 | 1158.2 | 1182.8 | 1178.4 | 1198.2 | 1223.9 | 1228.3 |
| 10° | 1112.7 | 1103.5 | 1092.9 | 1111.9 | 1114.9 | 1110.5 | 1135.4 | 1132.9 | 1152.3 | 1182.0 | 1193.8 |
| 12.5° | 1078.5 | 1070.8 | 1059.1 | 1079.3 | 1082.6 | 1076.3 | 1099.8 | 1098.7 | 1118.9 | 1150.1 | 1164.8 |
| 15° | 1054.7 | 1045.5 | 1034.9 | 1052.1 | 1056.5 | 1049.6 | 1071.9 | 1069.7 | 1090.3 | 1121.1 | 1137.6 |
| 17.5° | 1032.3 | 1023.9 | 1012.9 | 1029.0 | 1033.4 | 1026.1 | 1048.1 | 1044.4 | 1062.0 | 1091.4 | 1108.3 |
| 20° | 1011.4 | 1002.2 | 992.3 | 1008.8 | 1011.4 | 1002.9 | 1025.0 | 1020.2 | 1036.0 | 1063.1 | 1079.6 |
| 22.5° | 989.7 | 980.2 | 969.9 | 986.1 | 988.6 | 980.2 | 1000.4 | 994.9 | 1009.6 | 1034.1 | 1049.2 |
| 25° | 965.9 | 957.1 | 946.8 | 961.8 | 964.0 | 954.9 | 976.2 | 969.2 | 982.0 | 1003.7 | 1016.2 |
| 27.5° | 942.0 | 933.6 | 922.2 | 937.6 | 938.7 | 929.9 | 949.4 | 939.8 | 950.5 | 970.3 | 980.9 |
| 30° | 938.0 | 928.5 | 916.7 | 929.2 | 929.6 | 918.2 | 936.5 | 925.1 | 931.0 | 945.7 | 951.9 |
| 32.5° | 950.8 | 941.3 | 929.2 | 939.5 | 938.4 | 925.9 | 943.5 | 929.6 | 931.4 | 939.1 | 937.6 |
| 35° | 945.7 | 934.3 | 920.0 | 931.0 | 931.0 | 916.0 | 933.6 | 917.1 | 915.2 | 916.3 | 907.2 |
| 37.5° | 887.3 | 878.5 | 865.0 | 875.6 | 874.5 | 863.1 | 876.7 | 863.1 | 856.9 | 854.3 | 837.8 |
| 40° | 801.5 | 790.8 | 780.6 | 791.9 | 793.0 | 780.9 | 798.5 | 783.1 | 781.3 | 774.0 | 754.5 |
| 42.5° | 714.5 | 710.8 | 700.9 | 710.5 | 715.6 | 705.3 | 720.0 | 712.7 | 713.8 | 711.9 | 693.6 |
| 45° | 638.5 | 632.3 | 625.0 | 636.0 | 639.3 | 634.1 | 648.8 | 644.4 | 648.8 | 658.0 | 642.9 |
| 47.5° | 556.7 | 550.5 | 542.4 | 554.1 | 560.0 | 550.5 | 562.9 | 561.5 | 568.1 | 583.9 | 582.4 |
| 50° | 458.0 | 453.6 | 452.1 | 453.6 | 457.3 | 452.8 | 461.7 | 462.0 | 466.4 | 488.1 | 489.5 |
| 52.5° | 362.6 | 361.5 | 356.3 | 361.1 | 361.1 | 354.1 | 362.9 | 358.9 | 363.3 | 378.0 | 387.5 |
| 55° | 283.7 | 282.6 | 279.3 | 283.7 | 278.9 | 276.3 | 278.9 | 274.9 | 271.6 | 282.9 | 292.8 |
| 57.5° | 220.9 | 217.3 | 213.2 | 215.0 | 214.7 | 209.2 | 212.1 | 207.3 | 204.8 | 208.8 | 217.6 |
| 60° | 157.4 | 156.3 | 152.7 | 154.5 | 156.0 | 151.9 | 154.9 | 152.7 | 148.3 | 151.6 | 151.9 |
| 62.5° | 104.6 | 105.3 | 103.1 | 103.5 | 102.4 | 101.7 | 103.5 | 104.6 | 103.5 | 102.0 | 102.4 |
| 65° | 66.4 | 66.1 | 65.7 | 66.1 | 66.8 | 65.3 | 66.4 | 67.2 | 66.1 | 66.1 | 65.7 |
| 67.5° | 44.0 | 42.9 | 41.8 | 42.6 | 43.3 | 42.2 | 43.3 | 42.9 | 43.3 | 42.9 | 41.8 |
| 70° | 29.7 | 29.4 | 29.0 | 29.4 | 29.4 | 28.6 | 29.4 | 29.0 | 29.4 | 29.0 | 27.9 |
| 72.5° | 21.7 | 21.7 | 21.3 | 21.7 | 21.7 | 20.9 | 21.3 | 20.6 | 20.9 | 20.6 | 19.8 |
| 75° | 16.1 | 16.1 | 15.8 | 16.1 | 15.8 | 15.4 | 15.8 | 15.4 | 14.7 | 14.7 | 13.9 |
| 77.5° | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.4 | 11.4 | 11.0 | 10.6 | 10.3 | 10.3 |
| 80° | 8.8 | 8.4 | 8.4 | 8.4 | 8.4 | 8.1 | 8.4 | 8.1 | 7.7 | 7.3 | 7.0 |
| 82.5° | 6.2 | 6.6 | 6.2 | 6.2 | 6.2 | 5.9 | 6.2 | 5.9 | 5.9 | 5.5 | 4.8 |
| 85° | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.4 | 4.4 | 4.4 | 4.0 | 4.0 | 3.7 |
| 87.5° | 2.6 | 2.6 | 2.6 | 2.9 | 2.6 | 2.6 | 2.6 | 2.2 | 2.2 | 1.8 | 1.8 |
| 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: P244142

CATALOG NUMBER: LD8B20D010 ER8B20950 8LBSW0LI

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1396.7 | 1396.7 | 1396.7 | 1396.7 | 1396.7 | 1396.7 | 1396.7 | 1396.7 | 1396.7 | 1396.7 | 1396.7 |
| 2.5° | 1351.6 | 1353.4 | 1349.4 | 1355.6 | 1379.8 | 1360.4 | 1368.5 | 1371.0 | 1389.4 | 1392.7 | 1390.5 |
| 5° | 1300.2 | 1308.3 | 1313.4 | 1327.4 | 1354.1 | 1340.2 | 1354.5 | 1363.7 | 1387.2 | 1394.9 | 1396.7 |
| 7.5° | 1259.8 | 1276.7 | 1289.2 | 1311.9 | 1343.5 | 1332.9 | 1354.5 | 1369.6 | 1398.2 | 1408.1 | 1412.9 |
| 10° | 1229.7 | 1255.4 | 1277.1 | 1308.3 | 1343.9 | 1336.9 | 1365.2 | 1386.4 | 1418.4 | 1430.1 | 1436.0 |
| 12.5° | 1207.0 | 1238.2 | 1267.2 | 1306.8 | 1345.3 | 1342.0 | 1376.2 | 1400.4 | 1434.1 | 1445.9 | 1452.9 |
| 15° | 1182.0 | 1218.0 | 1251.8 | 1296.2 | 1337.6 | 1336.9 | 1373.6 | 1399.3 | 1433.8 | 1443.7 | 1450.3 |
| 17.5° | 1152.3 | 1190.8 | 1227.9 | 1276.0 | 1317.1 | 1317.8 | 1354.9 | 1380.2 | 1414.0 | 1422.0 | 1426.4 |
| 20° | 1122.2 | 1160.4 | 1197.4 | 1247.0 | 1287.4 | 1288.5 | 1324.8 | 1348.3 | 1380.6 | 1387.2 | 1388.3 |
| 22.5° | 1090.3 | 1125.9 | 1162.9 | 1212.1 | 1251.0 | 1251.8 | 1287.7 | 1309.7 | 1337.3 | 1340.6 | 1343.5 |
| 25° | 1054.0 | 1088.8 | 1123.7 | 1172.5 | 1209.6 | 1211.8 | 1244.4 | 1263.9 | 1289.2 | 1291.8 | 1292.9 |
| 27.5° | 1016.2 | 1044.8 | 1078.2 | 1120.0 | 1157.4 | 1156.0 | 1186.8 | 1208.8 | 1231.6 | 1230.1 | 1229.7 |
| 30° | 978.0 | 1001.8 | 1022.4 | 1062.8 | 1090.3 | 1091.4 | 1120.4 | 1131.0 | 1154.9 | 1151.9 | 1151.6 |
| 32.5° | 951.2 | 957.4 | 962.9 | 983.5 | 1009.6 | 1000.4 | 1020.2 | 1033.4 | 1049.9 | 1048.8 | 1049.2 |
| 35° | 902.0 | 890.7 | 874.1 | 877.1 | 892.9 | 878.5 | 889.2 | 888.8 | 905.7 | 901.7 | 906.4 |
| 37.5° | 818.0 | 785.7 | 749.0 | 728.1 | 731.0 | 713.0 | 709.4 | 718.2 | 724.0 | 712.7 | 716.7 |
| 40° | 728.4 | 680.7 | 623.5 | 575.8 | 573.2 | 550.8 | 546.8 | 538.0 | 549.4 | 539.8 | 542.8 |
| 42.5° | 662.4 | 599.3 | 524.0 | 466.1 | 453.6 | 434.9 | 423.9 | 422.4 | 425.7 | 419.1 | 417.3 |
| 45° | 611.7 | 544.6 | 458.4 | 391.9 | 378.0 | 357.8 | 346.8 | 342.8 | 343.1 | 340.9 | 339.1 |
| 47.5° | 552.3 | 484.8 | 397.4 | 329.5 | 313.8 | 294.7 | 283.7 | 281.1 | 282.6 | 279.6 | 277.4 |
| 50° | 470.1 | 409.5 | 329.9 | 267.9 | 253.9 | 240.0 | 231.2 | 228.6 | 228.3 | 226.1 | 224.6 |
| 52.5° | 381.7 | 331.4 | 262.4 | 210.6 | 198.2 | 184.6 | 178.4 | 175.0 | 175.4 | 173.2 | 171.0 |
| 55° | 295.4 | 264.2 | 203.3 | 159.3 | 147.9 | 137.2 | 131.4 | 127.3 | 126.2 | 124.0 | 122.9 |
| 57.5° | 219.8 | 198.9 | 152.3 | 114.9 | 108.3 | 98.0 | 92.1 | 87.3 | 86.6 | 85.5 | 85.1 |
| 60° | 154.1 | 139.1 | 107.2 | 81.8 | 74.1 | 67.9 | 62.0 | 57.2 | 55.0 | 54.7 | 53.6 |
| 62.5° | 99.8 | 90.6 | 70.5 | 54.7 | 48.8 | 44.4 | 38.5 | 35.2 | 33.8 | 32.3 | 32.7 |
| 65° | 62.0 | 55.0 | 44.0 | 35.2 | 31.9 | 28.6 | 24.2 | 21.3 | 19.8 | 18.3 | 18.7 |
| 67.5° | 38.5 | 34.5 | 27.9 | 22.8 | 20.6 | 18.0 | 14.7 | 12.5 | 11.4 | 10.3 | 9.5 |
| 70° | 26.1 | 22.4 | 19.1 | 16.1 | 14.7 | 12.8 | 10.6 | 8.8 | 8.1 | 7.3 | 6.6 |
| 72.5° | 18.3 | 16.5 | 13.9 | 12.1 | 11.0 | 9.5 | 8.1 | 7.0 | 6.2 | 5.5 | 4.8 |
| 75° | 13.2 | 11.7 | 10.3 | 8.8 | 8.1 | 7.3 | 6.2 | 5.5 | 4.8 | 4.0 | 3.3 |
| 77.5° | 9.5 | 8.4 | 7.3 | 6.6 | 6.2 | 5.1 | 4.4 | 4.0 | 3.7 | 2.9 | 2.2 |
| 80° | 6.6 | 5.9 | 4.8 | 4.4 | 4.4 | 3.7 | 3.3 | 2.9 | 2.6 | 1.8 | 1.5 |
| 82.5° | 4.4 | 4.0 | 3.7 | 3.3 | 2.9 | 2.6 | 2.6 | 1.8 | 1.5 | 1.1 | 0.7 |
| 85° | 3.3 | 2.9 | 2.6 | 2.2 | 2.2 | 1.8 | 1.5 | 1.1 | 1.1 | 0.7 | 0.4 |
| 87.5° | 1.8 | 1.8 | 1.5 | 1.1 | 1.1 | 0.7 | 0.7 | 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 |



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CATALOG NUMBER: LD8B20D010 ER8B20950 8LBSW01

CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1396.7 | 1396.7 | 1396.7 | 1396.7 | 1396.7 | 1396.7 | 1396.7 | 1396.7 | 1396.7 | 1396.7 | 1396.7 |
| 2.5° | 1409.2 | 1410.3 | 1416.5 | 1411.8 | 1423.9 | 1432.7 | 1428.3 | 1438.2 | 1434.9 | 1434.1 | 1445.5 |
| 5° | 1418.7 | 1421.3 | 1429.7 | 1425.3 | 1438.5 | 1448.1 | 1443.7 | 1454.7 | 1451.4 | 1450.7 | 1462.4 |
| 7.5° | 1437.1 | 1439.6 | 1447.0 | 1443.3 | 1457.3 | 1465.7 | 1460.2 | 1472.3 | 1467.9 | 1467.5 | 1478.9 |
| 10° | 1460.2 | 1463.9 | 1470.1 | 1466.4 | 1479.3 | 1486.6 | 1481.1 | 1492.9 | 1488.8 | 1487.0 | 1499.5 |
| 12.5° | 1477.4 | 1480.0 | 1486.3 | 1483.3 | 1495.8 | 1501.3 | 1496.5 | 1507.9 | 1502.8 | 1501.3 | 1512.3 |
| 15° | 1473.4 | 1476.0 | 1481.1 | 1478.5 | 1490.3 | 1495.4 | 1489.2 | 1501.7 | 1496.5 | 1493.6 | 1503.5 |
| 17.5° | 1447.7 | 1449.2 | 1452.9 | 1450.3 | 1462.8 | 1466.1 | 1459.1 | 1471.6 | 1466.8 | 1461.7 | 1471.2 |
| 20° | 1409.9 | 1409.2 | 1411.4 | 1410.3 | 1420.6 | 1422.4 | 1418.0 | 1427.2 | 1421.7 | 1418.7 | 1424.2 |
| 22.5° | 1363.0 | 1362.2 | 1363.7 | 1360.7 | 1371.0 | 1372.1 | 1365.5 | 1376.5 | 1371.0 | 1365.5 | 1374.7 |
| 25° | 1310.8 | 1306.8 | 1306.1 | 1307.2 | 1314.1 | 1315.2 | 1308.3 | 1316.3 | 1309.4 | 1305.0 | 1313.8 |
| 27.5° | 1246.6 | 1241.5 | 1240.4 | 1241.5 | 1248.5 | 1243.3 | 1237.4 | 1243.3 | 1236.3 | 1232.3 | 1237.8 |
| 30° | 1167.4 | 1160.0 | 1156.7 | 1154.5 | 1161.8 | 1160.0 | 1146.4 | 1153.0 | 1142.0 | 1136.2 | 1140.2 |
| 32.5° | 1060.6 | 1056.5 | 1047.7 | 1042.6 | 1049.6 | 1035.6 | 1027.2 | 1027.2 | 1022.8 | 1012.9 | 1015.1 |
| 35° | 912.3 | 906.1 | 898.0 | 893.6 | 894.7 | 876.0 | 862.0 | 865.0 | 850.3 | 847.7 | 848.8 |
| 37.5° | 724.8 | 714.5 | 711.6 | 702.4 | 704.6 | 688.1 | 669.0 | 669.4 | 661.7 | 653.6 | 651.0 |
| 40° | 544.6 | 542.8 | 539.8 | 532.1 | 535.1 | 517.1 | 509.7 | 510.1 | 505.0 | 499.1 | 502.0 |
| 42.5° | 420.9 | 415.1 | 413.2 | 410.6 | 411.4 | 408.4 | 398.9 | 400.0 | 395.6 | 394.1 | 392.7 |
| 45° | 342.0 | 335.8 | 331.4 | 333.6 | 333.6 | 330.3 | 326.6 | 328.8 | 326.6 | 323.7 | 325.1 |
| 47.5° | 281.8 | 276.0 | 273.8 | 273.4 | 276.0 | 273.8 | 270.1 | 270.8 | 270.5 | 269.4 | 268.6 |
| 50° | 225.0 | 223.5 | 221.7 | 220.6 | 221.7 | 220.9 | 217.6 | 219.5 | 220.6 | 216.9 | 218.0 |
| 52.5° | 171.4 | 171.4 | 171.0 | 168.4 | 170.6 | 168.4 | 168.1 | 168.8 | 167.7 | 166.2 | 165.9 |
| 55° | 125.5 | 124.4 | 122.6 | 122.2 | 122.9 | 122.2 | 121.5 | 121.8 | 122.6 | 118.9 | 118.9 |
| 57.5° | 85.9 | 85.1 | 84.0 | 84.0 | 85.5 | 83.7 | 82.6 | 84.0 | 82.6 | 81.1 | 81.1 |
| 60° | 55.0 | 54.7 | 53.6 | 53.6 | 53.6 | 53.2 | 52.1 | 52.5 | 53.2 | 51.0 | 51.4 |
| 62.5° | 33.0 | 31.9 | 31.6 | 31.2 | 31.6 | 31.2 | 31.2 | 30.8 | 30.5 | 30.5 | 29.4 |
| 65° | 18.0 | 17.2 | 16.5 | 16.9 | 16.9 | 16.5 | 16.5 | 16.5 | 15.8 | 15.4 | 15.0 |
| 67.5° | 9.2 | 8.4 | 8.4 | 8.1 | 8.1 | 8.1 | 8.1 | 7.7 | 7.7 | 7.7 | 7.3 |
| 70° | 5.9 | 5.5 | 5.1 | 5.1 | 5.1 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.4 |
| 72.5° | 4.0 | 3.7 | 3.3 | 3.3 | 3.3 | 2.9 | 2.9 | 2.9 | 2.9 | 2.6 | 2.6 |
| 75° | 2.9 | 2.6 | 2.2 | 2.2 | 2.2 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 77.5° | 1.8 | 1.5 | 1.5 | 1.5 | 1.5 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 0.7 |
| 80° | 1.1 | 1.1 | 0.7 | 0.7 | 0.7 | 0.7 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 82.5° | 0.7 | 0.7 | 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: P244142

CATALOG NUMBER: LD8B20D010 ER8B20950 8LBSW01

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1396.7 | 1396.7 | 1396.7 | 1396.7 | 1396.7 | 1396.7 | 1396.7 | 1396.7 |
| 2.5° | 1441.5 | 1438.5 | 1440.4 | 1454.0 | 1448.1 | 1446.3 | 1430.8 | 1444.4 |
| 5° | 1458.7 | 1456.5 | 1456.5 | 1471.9 | 1465.0 | 1463.5 | 1448.5 | 1460.2 |
| 7.5° | 1474.9 | 1472.7 | 1473.0 | 1488.8 | 1483.3 | 1481.1 | 1466.1 | 1477.8 |
| 10° | 1495.8 | 1494.3 | 1494.7 | 1509.7 | 1503.9 | 1501.7 | 1486.3 | 1498.4 |
| 12.5° | 1508.3 | 1506.1 | 1506.1 | 1522.2 | 1515.6 | 1512.3 | 1497.6 | 1509.4 |
| 15° | 1498.7 | 1495.4 | 1495.4 | 1511.6 | 1504.2 | 1499.5 | 1486.6 | 1497.6 |
| 17.5° | 1466.1 | 1462.8 | 1462.8 | 1476.7 | 1471.2 | 1464.2 | 1451.0 | 1461.3 |
| 20° | 1420.6 | 1416.5 | 1415.4 | 1431.6 | 1423.9 | 1417.6 | 1405.9 | 1415.8 |
| 22.5° | 1369.2 | 1367.4 | 1364.1 | 1380.2 | 1373.2 | 1366.6 | 1354.1 | 1361.8 |
| 25° | 1307.5 | 1304.6 | 1301.3 | 1317.1 | 1310.1 | 1303.5 | 1293.6 | 1299.8 |
| 27.5° | 1230.8 | 1231.2 | 1229.4 | 1241.8 | 1234.9 | 1231.2 | 1219.1 | 1229.4 |
| 30° | 1138.0 | 1134.0 | 1132.5 | 1147.2 | 1140.6 | 1135.8 | 1120.7 | 1130.7 |
| 32.5° | 1016.9 | 1011.0 | 1003.3 | 1019.8 | 1008.5 | 1004.4 | 991.6 | 1005.9 |
| 35° | 840.7 | 838.9 | 831.9 | 845.9 | 839.6 | 832.3 | 824.2 | 836.3 |
| 37.5° | 649.9 | 651.4 | 650.6 | 654.3 | 650.6 | 645.9 | 637.1 | 632.7 |
| 40° | 496.2 | 492.5 | 489.5 | 496.2 | 488.4 | 488.4 | 483.3 | 488.8 |
| 42.5° | 389.0 | 387.5 | 391.2 | 392.7 | 388.3 | 387.5 | 386.8 | 386.4 |
| 45° | 321.1 | 321.1 | 321.8 | 323.3 | 321.8 | 321.1 | 318.9 | 317.4 |
| 47.5° | 264.6 | 266.1 | 264.6 | 269.4 | 266.8 | 266.1 | 261.7 | 263.5 |
| 50° | 214.3 | 212.5 | 214.3 | 215.8 | 216.1 | 213.9 | 211.7 | 212.8 |
| 52.5° | 166.2 | 163.3 | 162.6 | 164.8 | 163.3 | 163.3 | 161.8 | 161.5 |
| 55° | 117.1 | 118.2 | 116.3 | 118.2 | 117.4 | 116.3 | 115.2 | 116.7 |
| 57.5° | 79.3 | 79.6 | 78.9 | 80.0 | 78.2 | 78.5 | 78.2 | 77.8 |
| 60° | 51.4 | 49.9 | 49.9 | 51.0 | 49.2 | 49.2 | 48.8 | 48.8 |
| 62.5° | 29.4 | 29.0 | 29.0 | 28.6 | 28.3 | 28.3 | 28.3 | 27.5 |
| 65° | 15.0 | 14.7 | 14.3 | 14.3 | 14.3 | 14.3 | 13.9 | 13.9 |
| 67.5° | 7.3 | 7.0 | 7.0 | 7.3 | 7.0 | 7.0 | 7.0 | 7.0 |
| 70° | 4.4 | 4.4 | 4.0 | 4.4 | 4.0 | 4.0 | 4.0 | 4.0 |
| 72.5° | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| 75° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 77.5° | 1.1 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 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)