

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: P244154

Luminaire Tested: **LSR8B20D010 EC8B209730 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244154
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: LSR8B20D010 EC8B209730 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1708.0 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

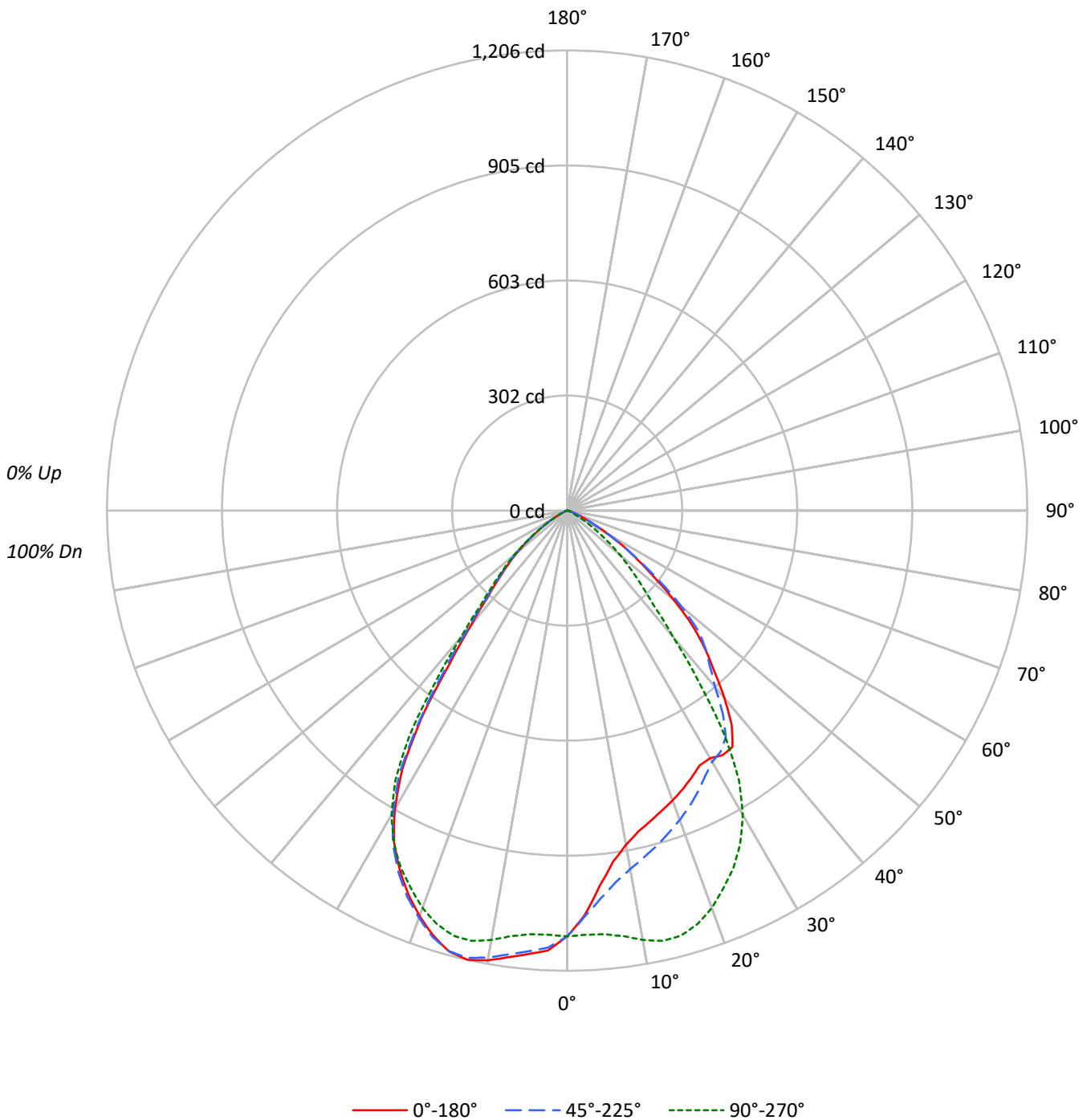
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P244154

CATALOG NUMBER: LSR8B20D010 EC8B209730 8LBSW0LI

Luminous Intensity Polar Plot





TEST NUMBER: P244154

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

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: P244154

CATALOG NUMBER: LSR8B20D010 EC8B209730 8LBSWOLI

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 104.0 | 6.1 |
| 10°-20° | 300.4 | 17.6 |
| 20°-30° | 436.0 | 25.5 |
| 30°-40° | 429.4 | 25.1 |
| 40°-50° | 269.2 | 15.8 |
| 50°-60° | 129.9 | 7.6 |
| 60°-70° | 31.4 | 1.8 |
| 70°-80° | 6.4 | 0.4 |
| 80°-90° | 1.5 | 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° | 840.3 | 49.2 |
| 0°-40° | 1269.7 | 74.3 |
| 0°-60° | 1668.8 | 97.7 |
| 0°-90° | 1708.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1708.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1116 | 1116 | 1116 | 1116 | 1116 | |
| 5° | 986 | 1020 | 1114 | 1160 | 1166 | 91 |
| 15° | 843 | 909 | 1153 | 1196 | 1196 | 238 |
| 25° | 772 | 812 | 1032 | 1046 | 1038 | 357 |
| 35° | 756 | 725 | 720 | 679 | 668 | 457 |
| 45° | 510 | 514 | 272 | 261 | 254 | 390 |
| 55° | 227 | 234 | 99 | 98 | 93 | 209 |
| 65° | 53 | 52 | 15 | 13 | 11 | 61 |
| 75° | 13 | 11 | 3 | 2 | 1 | 14 |
| 85° | 4 | 3 | 1 | 0 | 0 | 4 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P244154

CATALOG NUMBER: LSR8B20D010 EC8B209730 8LBSWOLI

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1115.8 | 1115.8 | 1115.8 | 1115.8 | 1115.8 | 1115.8 | 1115.8 | 1115.8 | 1115.8 | 1115.8 | 1115.8 |
| 2.5° | 1060.7 | 1053.9 | 1041.3 | 1056.6 | 1056.6 | 1048.1 | 1065.1 | 1054.8 | 1063.0 | 1075.9 | 1064.5 |
| 5° | 986.2 | 980.7 | 970.1 | 986.2 | 988.3 | 980.4 | 1000.9 | 993.3 | 1005.3 | 1021.1 | 1019.6 |
| 7.5° | 927.3 | 920.3 | 910.6 | 927.3 | 930.5 | 925.2 | 944.9 | 941.4 | 957.2 | 977.7 | 981.2 |
| 10° | 888.9 | 881.6 | 873.1 | 888.3 | 890.6 | 887.1 | 907.1 | 905.0 | 920.6 | 944.3 | 953.7 |
| 12.5° | 861.6 | 855.5 | 846.1 | 862.2 | 864.8 | 859.9 | 878.6 | 877.7 | 893.9 | 918.8 | 930.5 |
| 15° | 842.6 | 835.2 | 826.7 | 840.5 | 844.0 | 838.5 | 856.3 | 854.6 | 871.0 | 895.6 | 908.8 |
| 17.5° | 824.7 | 817.9 | 809.1 | 822.0 | 825.6 | 819.7 | 837.3 | 834.4 | 848.4 | 871.9 | 885.4 |
| 20° | 808.0 | 800.6 | 792.7 | 805.9 | 808.0 | 801.2 | 818.8 | 815.0 | 827.6 | 849.3 | 862.5 |
| 22.5° | 790.7 | 783.1 | 774.8 | 787.7 | 789.8 | 783.1 | 799.2 | 794.8 | 806.5 | 826.2 | 838.2 |
| 25° | 771.6 | 764.6 | 756.4 | 768.4 | 770.2 | 762.8 | 779.8 | 774.3 | 784.5 | 801.8 | 811.8 |
| 27.5° | 752.6 | 745.8 | 736.7 | 749.0 | 749.9 | 742.9 | 758.4 | 750.8 | 759.3 | 775.1 | 783.6 |
| 30° | 749.3 | 741.7 | 732.3 | 742.3 | 742.6 | 733.5 | 748.2 | 739.1 | 743.8 | 755.5 | 760.5 |
| 32.5° | 759.6 | 752.0 | 742.3 | 750.5 | 749.6 | 739.7 | 753.7 | 742.6 | 744.1 | 750.2 | 749.0 |
| 35° | 755.5 | 746.4 | 735.0 | 743.8 | 743.8 | 731.8 | 745.8 | 732.6 | 731.2 | 732.0 | 724.7 |
| 37.5° | 708.9 | 701.8 | 691.0 | 699.5 | 698.6 | 689.5 | 700.4 | 689.5 | 684.5 | 682.5 | 669.3 |
| 40° | 640.3 | 631.8 | 623.6 | 632.7 | 633.5 | 623.9 | 637.9 | 625.6 | 624.2 | 618.3 | 602.8 |
| 42.5° | 570.8 | 567.9 | 560.0 | 567.6 | 571.7 | 563.5 | 575.2 | 569.3 | 570.2 | 568.7 | 554.1 |
| 45° | 510.1 | 505.1 | 499.3 | 508.1 | 510.7 | 506.6 | 518.3 | 514.8 | 518.3 | 525.7 | 513.6 |
| 47.5° | 444.7 | 439.8 | 433.3 | 442.7 | 447.4 | 439.8 | 449.7 | 448.5 | 453.8 | 466.4 | 465.3 |
| 50° | 365.9 | 362.4 | 361.2 | 362.4 | 365.3 | 361.8 | 368.8 | 369.1 | 372.6 | 389.9 | 391.1 |
| 52.5° | 289.7 | 288.8 | 284.7 | 288.5 | 288.5 | 282.9 | 289.9 | 286.7 | 290.2 | 302.0 | 309.6 |
| 55° | 226.6 | 225.7 | 223.1 | 226.6 | 222.8 | 220.8 | 222.8 | 219.6 | 216.9 | 226.0 | 233.9 |
| 57.5° | 176.5 | 173.6 | 170.3 | 171.8 | 171.5 | 167.1 | 169.5 | 165.6 | 163.6 | 166.8 | 173.8 |
| 60° | 125.8 | 124.9 | 122.0 | 123.4 | 124.6 | 121.4 | 123.7 | 122.0 | 118.4 | 121.1 | 121.4 |
| 62.5° | 83.6 | 84.1 | 82.4 | 82.7 | 81.8 | 81.2 | 82.7 | 83.6 | 82.7 | 81.5 | 81.8 |
| 65° | 53.1 | 52.8 | 52.5 | 52.8 | 53.4 | 52.2 | 53.1 | 53.6 | 52.8 | 52.8 | 52.5 |
| 67.5° | 35.2 | 34.3 | 33.4 | 34.0 | 34.6 | 33.7 | 34.6 | 34.3 | 34.6 | 34.3 | 33.4 |
| 70° | 23.7 | 23.5 | 23.2 | 23.5 | 23.5 | 22.9 | 23.5 | 23.2 | 23.5 | 23.2 | 22.3 |
| 72.5° | 17.3 | 17.3 | 17.0 | 17.3 | 17.3 | 16.7 | 17.0 | 16.4 | 16.7 | 16.4 | 15.8 |
| 75° | 12.9 | 12.9 | 12.6 | 12.9 | 12.6 | 12.3 | 12.6 | 12.3 | 11.7 | 11.7 | 11.1 |
| 77.5° | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 | 9.1 | 9.1 | 8.8 | 8.5 | 8.2 | 8.2 |
| 80° | 7.0 | 6.7 | 6.7 | 6.7 | 6.7 | 6.4 | 6.7 | 6.4 | 6.2 | 5.9 | 5.6 |
| 82.5° | 5.0 | 5.3 | 5.0 | 5.0 | 5.0 | 4.7 | 5.0 | 4.7 | 4.7 | 4.4 | 3.8 |
| 85° | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.5 | 3.5 | 3.5 | 3.2 | 3.2 | 2.9 |
| 87.5° | 2.1 | 2.1 | 2.1 | 2.3 | 2.1 | 2.1 | 2.1 | 1.8 | 1.8 | 1.5 | 1.5 |
| 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: P244154

CATALOG NUMBER: LSR8B20D010 EC8B209730 8LBSWOLI

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1115.8 | 1115.8 | 1115.8 | 1115.8 | 1115.8 | 1115.8 | 1115.8 | 1115.8 | 1115.8 | 1115.8 | 1115.8 |
| 2.5° | 1079.7 | 1081.2 | 1078.0 | 1083.0 | 1102.3 | 1086.8 | 1093.2 | 1095.3 | 1109.9 | 1112.6 | 1110.8 |
| 5° | 1038.7 | 1045.1 | 1049.3 | 1060.4 | 1081.8 | 1070.7 | 1082.1 | 1089.4 | 1108.2 | 1114.3 | 1115.8 |
| 7.5° | 1006.4 | 1019.9 | 1029.9 | 1048.1 | 1073.3 | 1064.8 | 1082.1 | 1094.1 | 1117.0 | 1124.9 | 1128.7 |
| 10° | 982.4 | 1002.9 | 1020.2 | 1045.1 | 1073.6 | 1068.0 | 1090.6 | 1107.6 | 1133.1 | 1142.5 | 1147.2 |
| 12.5° | 964.2 | 989.2 | 1012.3 | 1044.0 | 1074.8 | 1072.1 | 1099.4 | 1118.7 | 1145.7 | 1155.1 | 1160.7 |
| 15° | 944.3 | 973.0 | 1000.0 | 1035.5 | 1068.6 | 1068.0 | 1097.3 | 1117.9 | 1145.4 | 1153.3 | 1158.6 |
| 17.5° | 920.6 | 951.3 | 980.9 | 1019.3 | 1052.2 | 1052.8 | 1082.4 | 1102.6 | 1129.6 | 1136.0 | 1139.5 |
| 20° | 896.5 | 927.0 | 956.6 | 996.2 | 1028.4 | 1029.3 | 1058.3 | 1077.1 | 1102.9 | 1108.2 | 1109.1 |
| 22.5° | 871.0 | 899.4 | 929.1 | 968.3 | 999.4 | 1000.0 | 1028.7 | 1046.3 | 1068.3 | 1070.9 | 1073.3 |
| 25° | 842.0 | 869.8 | 897.7 | 936.7 | 966.3 | 968.0 | 994.1 | 1009.7 | 1029.9 | 1032.0 | 1032.8 |
| 27.5° | 811.8 | 834.7 | 861.3 | 894.8 | 924.7 | 923.5 | 948.1 | 965.7 | 983.9 | 982.7 | 982.4 |
| 30° | 781.3 | 800.4 | 816.8 | 849.0 | 871.0 | 871.9 | 895.0 | 903.5 | 922.6 | 920.3 | 920.0 |
| 32.5° | 759.9 | 764.9 | 769.3 | 785.7 | 806.5 | 799.2 | 815.0 | 825.6 | 838.8 | 837.9 | 838.2 |
| 35° | 720.6 | 711.5 | 698.3 | 700.7 | 713.3 | 701.8 | 710.3 | 710.1 | 723.5 | 720.3 | 724.1 |
| 37.5° | 653.5 | 627.7 | 598.4 | 581.6 | 584.0 | 569.6 | 566.7 | 573.7 | 578.4 | 569.3 | 572.6 |
| 40° | 581.9 | 543.8 | 498.1 | 460.0 | 457.9 | 440.0 | 436.8 | 429.8 | 438.9 | 431.3 | 433.6 |
| 42.5° | 529.2 | 478.7 | 418.6 | 372.3 | 362.4 | 347.4 | 338.6 | 337.4 | 340.1 | 334.8 | 333.3 |
| 45° | 488.7 | 435.1 | 366.2 | 313.1 | 302.0 | 285.8 | 277.0 | 273.8 | 274.1 | 272.4 | 270.9 |
| 47.5° | 441.2 | 387.3 | 317.5 | 263.3 | 250.7 | 235.4 | 226.6 | 224.6 | 225.7 | 223.4 | 221.6 |
| 50° | 375.5 | 327.2 | 263.6 | 214.0 | 202.9 | 191.7 | 184.7 | 182.6 | 182.4 | 180.6 | 179.4 |
| 52.5° | 304.9 | 264.7 | 209.6 | 168.3 | 158.3 | 147.5 | 142.5 | 139.8 | 140.1 | 138.4 | 136.6 |
| 55° | 236.0 | 211.1 | 162.4 | 127.2 | 118.1 | 109.6 | 105.0 | 101.7 | 100.9 | 99.1 | 98.2 |
| 57.5° | 175.6 | 158.9 | 121.7 | 91.8 | 86.5 | 78.3 | 73.6 | 69.8 | 69.2 | 68.3 | 68.0 |
| 60° | 123.1 | 111.1 | 85.6 | 65.4 | 59.2 | 54.2 | 49.5 | 45.7 | 44.0 | 43.7 | 42.8 |
| 62.5° | 79.7 | 72.4 | 56.3 | 43.7 | 39.0 | 35.5 | 30.8 | 28.1 | 27.0 | 25.8 | 26.1 |
| 65° | 49.5 | 44.0 | 35.2 | 28.1 | 25.5 | 22.9 | 19.3 | 17.0 | 15.8 | 14.7 | 15.0 |
| 67.5° | 30.8 | 27.6 | 22.3 | 18.2 | 16.4 | 14.4 | 11.7 | 10.0 | 9.1 | 8.2 | 7.6 |
| 70° | 20.8 | 17.9 | 15.2 | 12.9 | 11.7 | 10.3 | 8.5 | 7.0 | 6.4 | 5.9 | 5.3 |
| 72.5° | 14.7 | 13.2 | 11.1 | 9.7 | 8.8 | 7.6 | 6.4 | 5.6 | 5.0 | 4.4 | 3.8 |
| 75° | 10.6 | 9.4 | 8.2 | 7.0 | 6.4 | 5.9 | 5.0 | 4.4 | 3.8 | 3.2 | 2.6 |
| 77.5° | 7.6 | 6.7 | 5.9 | 5.3 | 5.0 | 4.1 | 3.5 | 3.2 | 2.9 | 2.3 | 1.8 |
| 80° | 5.3 | 4.7 | 3.8 | 3.5 | 3.5 | 2.9 | 2.6 | 2.3 | 2.1 | 1.5 | 1.2 |
| 82.5° | 3.5 | 3.2 | 2.9 | 2.6 | 2.3 | 2.1 | 2.1 | 1.5 | 1.2 | 0.9 | 0.6 |
| 85° | 2.6 | 2.3 | 2.1 | 1.8 | 1.8 | 1.5 | 1.2 | 0.9 | 0.9 | 0.6 | 0.3 |
| 87.5° | 1.5 | 1.5 | 1.2 | 0.9 | 0.9 | 0.6 | 0.6 | 0.3 | 0.3 | 0.3 | 0.3 |
| 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: P244154

CATALOG NUMBER: LSR8B20D010 EC8B209730 8LBSWOLI

CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1115.8 | 1115.8 | 1115.8 | 1115.8 | 1115.8 | 1115.8 | 1115.8 | 1115.8 | 1115.8 | 1115.8 | 1115.8 |
| 2.5° | 1125.8 | 1126.6 | 1131.6 | 1127.8 | 1137.5 | 1144.5 | 1141.0 | 1148.9 | 1146.3 | 1145.7 | 1154.8 |
| 5° | 1133.4 | 1135.4 | 1142.2 | 1138.7 | 1149.2 | 1156.8 | 1153.3 | 1162.1 | 1159.5 | 1158.9 | 1168.3 |
| 7.5° | 1148.1 | 1150.1 | 1156.0 | 1153.0 | 1164.2 | 1170.9 | 1166.5 | 1176.2 | 1172.7 | 1172.4 | 1181.5 |
| 10° | 1166.5 | 1169.5 | 1174.4 | 1171.5 | 1181.8 | 1187.6 | 1183.2 | 1192.6 | 1189.4 | 1187.9 | 1197.9 |
| 12.5° | 1180.3 | 1182.4 | 1187.3 | 1185.0 | 1195.0 | 1199.4 | 1195.5 | 1204.6 | 1200.5 | 1199.4 | 1208.2 |
| 15° | 1177.1 | 1179.1 | 1183.2 | 1181.2 | 1190.6 | 1194.7 | 1189.7 | 1199.6 | 1195.5 | 1193.2 | 1201.1 |
| 17.5° | 1156.6 | 1157.7 | 1160.7 | 1158.6 | 1168.6 | 1171.2 | 1165.6 | 1175.6 | 1171.8 | 1167.7 | 1175.3 |
| 20° | 1126.4 | 1125.8 | 1127.5 | 1126.6 | 1134.9 | 1136.3 | 1132.8 | 1140.1 | 1135.7 | 1133.4 | 1137.8 |
| 22.5° | 1088.8 | 1088.2 | 1089.4 | 1087.1 | 1095.3 | 1096.2 | 1090.9 | 1099.7 | 1095.3 | 1090.9 | 1098.2 |
| 25° | 1047.2 | 1044.0 | 1043.4 | 1044.3 | 1049.8 | 1050.7 | 1045.1 | 1051.6 | 1046.0 | 1042.5 | 1049.5 |
| 27.5° | 995.9 | 991.8 | 990.9 | 991.8 | 997.4 | 993.3 | 988.6 | 993.3 | 987.7 | 984.5 | 988.9 |
| 30° | 932.6 | 926.7 | 924.1 | 922.3 | 928.2 | 926.7 | 915.9 | 921.1 | 912.3 | 907.7 | 910.9 |
| 32.5° | 847.3 | 844.0 | 837.0 | 832.9 | 838.5 | 827.3 | 820.6 | 820.6 | 817.1 | 809.1 | 810.9 |
| 35° | 728.8 | 723.8 | 717.4 | 713.9 | 714.7 | 699.8 | 688.7 | 691.0 | 679.3 | 677.2 | 678.1 |
| 37.5° | 579.0 | 570.8 | 568.5 | 561.1 | 562.9 | 549.7 | 534.4 | 534.7 | 528.6 | 522.1 | 520.1 |
| 40° | 435.1 | 433.6 | 431.3 | 425.1 | 427.4 | 413.1 | 407.2 | 407.5 | 403.4 | 398.7 | 401.1 |
| 42.5° | 336.3 | 331.6 | 330.1 | 328.1 | 328.6 | 326.3 | 318.7 | 319.6 | 316.0 | 314.9 | 313.7 |
| 45° | 273.2 | 268.2 | 264.7 | 266.5 | 266.5 | 263.9 | 260.9 | 262.7 | 260.9 | 258.6 | 259.7 |
| 47.5° | 225.2 | 220.5 | 218.7 | 218.4 | 220.5 | 218.7 | 215.8 | 216.4 | 216.1 | 215.2 | 214.6 |
| 50° | 179.7 | 178.5 | 177.1 | 176.2 | 177.1 | 176.5 | 173.8 | 175.3 | 176.2 | 173.3 | 174.1 |
| 52.5° | 136.9 | 136.9 | 136.6 | 134.6 | 136.3 | 134.6 | 134.3 | 134.9 | 134.0 | 132.8 | 132.5 |
| 55° | 100.3 | 99.4 | 97.9 | 97.6 | 98.2 | 97.6 | 97.0 | 97.3 | 97.9 | 95.0 | 95.0 |
| 57.5° | 68.6 | 68.0 | 67.1 | 67.1 | 68.3 | 66.8 | 66.0 | 67.1 | 66.0 | 64.8 | 64.8 |
| 60° | 44.0 | 43.7 | 42.8 | 42.8 | 42.8 | 42.5 | 41.6 | 41.9 | 42.5 | 40.8 | 41.0 |
| 62.5° | 26.4 | 25.5 | 25.2 | 24.9 | 25.2 | 24.9 | 24.9 | 24.6 | 24.3 | 24.3 | 23.5 |
| 65° | 14.4 | 13.8 | 13.2 | 13.5 | 13.5 | 13.2 | 13.2 | 13.2 | 12.6 | 12.3 | 12.0 |
| 67.5° | 7.3 | 6.7 | 6.7 | 6.4 | 6.4 | 6.4 | 6.4 | 6.2 | 6.2 | 6.2 | 5.9 |
| 70° | 4.7 | 4.4 | 4.1 | 4.1 | 4.1 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.5 |
| 72.5° | 3.2 | 2.9 | 2.6 | 2.6 | 2.6 | 2.3 | 2.3 | 2.3 | 2.3 | 2.1 | 2.1 |
| 75° | 2.3 | 2.1 | 1.8 | 1.8 | 1.8 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 77.5° | 1.5 | 1.2 | 1.2 | 1.2 | 1.2 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.6 |
| 80° | 0.9 | 0.9 | 0.6 | 0.6 | 0.6 | 0.6 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 82.5° | 0.6 | 0.6 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.0 |
| 85° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.3 | 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: P244154

CATALOG NUMBER: LSR8B20D010 EC8B209730 8LBSWOLI

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1115.8 | 1115.8 | 1115.8 | 1115.8 | 1115.8 | 1115.8 | 1115.8 | 1115.8 |
| 2.5° | 1151.6 | 1149.2 | 1150.7 | 1161.5 | 1156.8 | 1155.4 | 1143.1 | 1153.9 |
| 5° | 1165.3 | 1163.6 | 1163.6 | 1175.9 | 1170.3 | 1169.2 | 1157.1 | 1166.5 |
| 7.5° | 1178.2 | 1176.5 | 1176.8 | 1189.4 | 1185.0 | 1183.2 | 1171.2 | 1180.6 |
| 10° | 1195.0 | 1193.8 | 1194.1 | 1206.1 | 1201.4 | 1199.6 | 1187.3 | 1197.0 |
| 12.5° | 1204.9 | 1203.2 | 1203.2 | 1216.1 | 1210.8 | 1208.2 | 1196.4 | 1205.8 |
| 15° | 1197.3 | 1194.7 | 1194.7 | 1207.6 | 1201.7 | 1197.9 | 1187.6 | 1196.4 |
| 17.5° | 1171.2 | 1168.6 | 1168.6 | 1179.7 | 1175.3 | 1169.7 | 1159.2 | 1167.4 |
| 20° | 1134.9 | 1131.6 | 1130.8 | 1143.7 | 1137.5 | 1132.5 | 1123.1 | 1131.0 |
| 22.5° | 1093.8 | 1092.3 | 1089.7 | 1102.6 | 1097.0 | 1091.8 | 1081.8 | 1088.0 |
| 25° | 1044.6 | 1042.2 | 1039.6 | 1052.2 | 1046.6 | 1041.3 | 1033.4 | 1038.4 |
| 27.5° | 983.3 | 983.6 | 982.1 | 992.1 | 986.5 | 983.6 | 973.9 | 982.1 |
| 30° | 909.1 | 905.9 | 904.7 | 916.4 | 911.2 | 907.4 | 895.3 | 903.3 |
| 32.5° | 812.4 | 807.7 | 801.5 | 814.7 | 805.6 | 802.4 | 792.1 | 803.6 |
| 35° | 671.7 | 670.2 | 664.6 | 675.8 | 670.8 | 664.9 | 658.5 | 668.1 |
| 37.5° | 519.2 | 520.4 | 519.8 | 522.7 | 519.8 | 516.0 | 508.9 | 505.4 |
| 40° | 396.4 | 393.4 | 391.1 | 396.4 | 390.2 | 390.2 | 386.1 | 390.5 |
| 42.5° | 310.8 | 309.6 | 312.5 | 313.7 | 310.2 | 309.6 | 309.0 | 308.7 |
| 45° | 256.5 | 256.5 | 257.1 | 258.3 | 257.1 | 256.5 | 254.8 | 253.6 |
| 47.5° | 211.4 | 212.5 | 211.4 | 215.2 | 213.1 | 212.5 | 209.0 | 210.5 |
| 50° | 171.2 | 169.7 | 171.2 | 172.4 | 172.7 | 170.9 | 169.2 | 170.0 |
| 52.5° | 132.8 | 130.5 | 129.9 | 131.6 | 130.5 | 130.5 | 129.3 | 129.0 |
| 55° | 93.5 | 94.4 | 92.9 | 94.4 | 93.8 | 92.9 | 92.1 | 93.2 |
| 57.5° | 63.3 | 63.6 | 63.0 | 63.9 | 62.4 | 62.7 | 62.4 | 62.2 |
| 60° | 41.0 | 39.9 | 39.9 | 40.8 | 39.3 | 39.3 | 39.0 | 39.0 |
| 62.5° | 23.5 | 23.2 | 23.2 | 22.9 | 22.6 | 22.6 | 22.6 | 22.0 |
| 65° | 12.0 | 11.7 | 11.4 | 11.4 | 11.4 | 11.4 | 11.1 | 11.1 |
| 67.5° | 5.9 | 5.6 | 5.6 | 5.9 | 5.6 | 5.6 | 5.6 | 5.6 |
| 70° | 3.5 | 3.5 | 3.2 | 3.5 | 3.2 | 3.2 | 3.2 | 3.2 |
| 72.5° | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 75° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| 77.5° | 0.9 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 80° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 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)