

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 EC8B20930 8LBSWOLI**

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 EC8B20930 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: 1914.7 lumens
Efficiency: N/A
Efficacy: 89.9 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

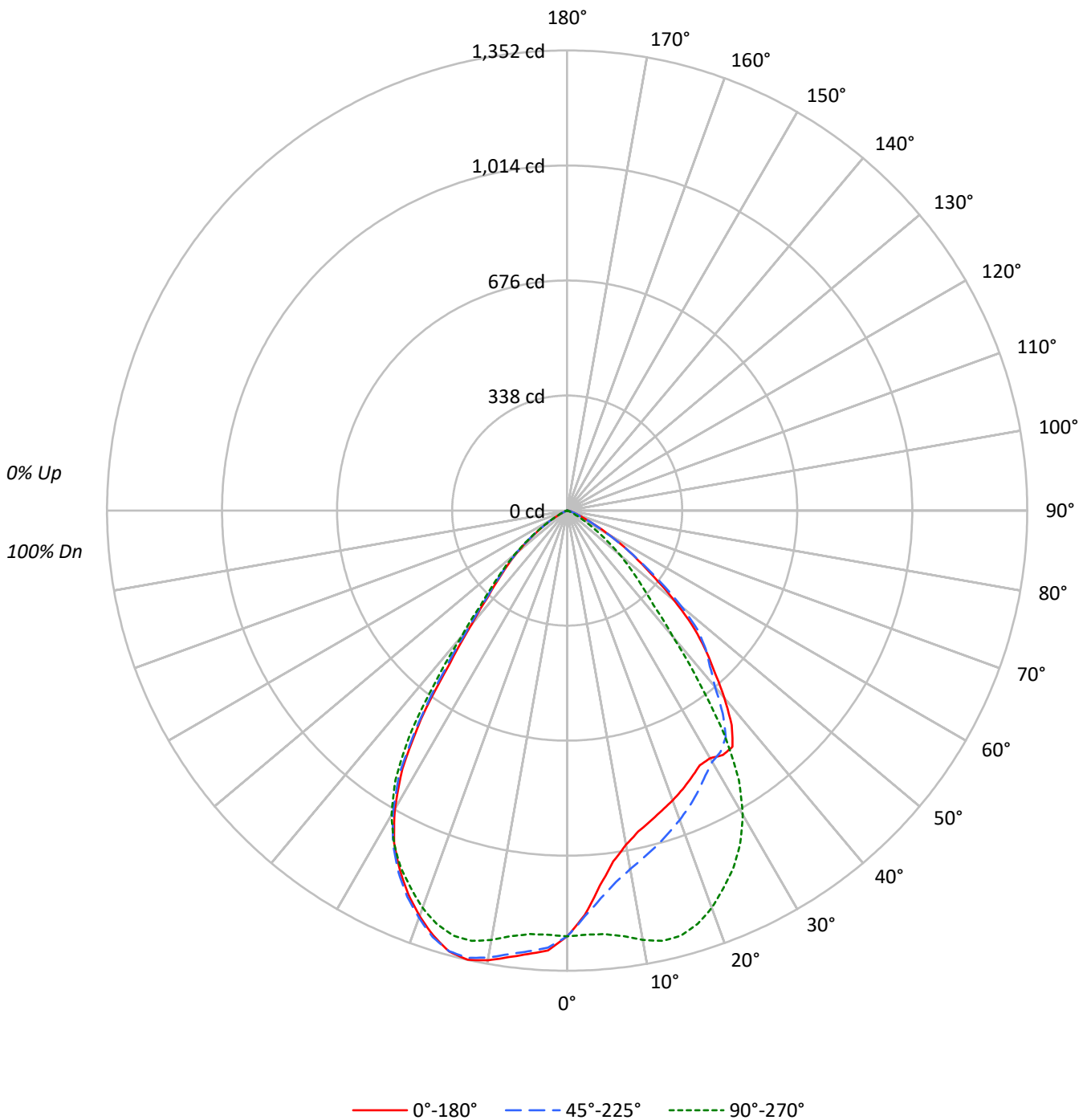
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P244154

CATALOG NUMBER: LSR8B20D010 EC8B20930 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

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 116.6 | 6.1 |
| 10°-20° | 336.7 | 17.6 |
| 20°-30° | 488.7 | 25.5 |
| 30°-40° | 481.3 | 25.1 |
| 40°-50° | 301.7 | 15.8 |
| 50°-60° | 145.6 | 7.6 |
| 60°-70° | 35.2 | 1.8 |
| 70°-80° | 7.1 | 0.4 |
| 80°-90° | 1.6 | 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° | 942.0 | 49.2 |
| 0°-40° | 1423.4 | 74.3 |
| 0°-60° | 1870.7 | 97.7 |
| 0°-90° | 1914.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1914.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1251 | 1251 | 1251 | 1251 | 1251 | |
| 5° | 1106 | 1143 | 1249 | 1300 | 1308 | 102 |
| 15° | 945 | 1019 | 1293 | 1340 | 1341 | 267 |
| 25° | 865 | 910 | 1157 | 1173 | 1164 | 400 |
| 35° | 847 | 812 | 808 | 762 | 749 | 512 |
| 45° | 572 | 576 | 305 | 292 | 284 | 437 |
| 55° | 254 | 262 | 111 | 110 | 104 | 234 |
| 65° | 60 | 59 | 16 | 14 | 12 | 68 |
| 75° | 14 | 12 | 4 | 2 | 1 | 16 |
| 85° | 4 | 3 | 1 | 0 | 0 | 4 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P244154

CATALOG NUMBER: LSR8B20D010 EC8B20930 8LBSWOLI

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1250.8 | 1250.8 | 1250.8 | 1250.8 | 1250.8 | 1250.8 | 1250.8 | 1250.8 | 1250.8 | 1250.8 | 1250.8 |
| 2.5° | 1189.0 | 1181.4 | 1167.3 | 1184.4 | 1184.4 | 1174.9 | 1194.0 | 1182.4 | 1191.6 | 1206.1 | 1193.3 |
| 5° | 1105.5 | 1099.4 | 1087.5 | 1105.5 | 1107.9 | 1099.0 | 1122.0 | 1113.5 | 1126.9 | 1144.7 | 1143.0 |
| 7.5° | 1039.5 | 1031.7 | 1020.8 | 1039.5 | 1043.1 | 1037.1 | 1059.2 | 1055.3 | 1073.0 | 1096.0 | 1099.9 |
| 10° | 996.5 | 988.3 | 978.7 | 995.8 | 998.4 | 994.4 | 1016.9 | 1014.5 | 1032.0 | 1058.6 | 1069.1 |
| 12.5° | 965.9 | 959.0 | 948.5 | 966.5 | 969.4 | 963.9 | 984.9 | 983.9 | 1002.1 | 1030.0 | 1043.1 |
| 15° | 944.6 | 936.3 | 926.7 | 942.2 | 946.1 | 940.0 | 959.9 | 958.0 | 976.4 | 1004.0 | 1018.8 |
| 17.5° | 924.5 | 916.9 | 907.0 | 921.5 | 925.5 | 918.9 | 938.6 | 935.4 | 951.1 | 977.4 | 992.5 |
| 20° | 905.8 | 897.5 | 888.6 | 903.4 | 905.8 | 898.1 | 917.9 | 913.6 | 927.7 | 952.1 | 966.9 |
| 22.5° | 886.4 | 877.9 | 868.6 | 883.0 | 885.4 | 877.9 | 895.9 | 891.0 | 904.1 | 926.2 | 939.6 |
| 25° | 865.0 | 857.1 | 847.9 | 861.4 | 863.4 | 855.1 | 874.2 | 868.0 | 879.4 | 898.8 | 910.0 |
| 27.5° | 843.7 | 836.0 | 825.8 | 839.6 | 840.6 | 832.8 | 850.2 | 841.6 | 851.2 | 868.9 | 878.4 |
| 30° | 840.0 | 831.4 | 820.9 | 832.1 | 832.5 | 822.3 | 838.7 | 828.5 | 833.8 | 846.9 | 852.5 |
| 32.5° | 851.5 | 843.0 | 832.1 | 841.3 | 840.3 | 829.2 | 844.9 | 832.5 | 834.1 | 841.0 | 839.6 |
| 35° | 846.9 | 836.7 | 823.9 | 833.8 | 833.8 | 820.3 | 836.0 | 821.2 | 819.7 | 820.6 | 812.4 |
| 37.5° | 794.7 | 786.7 | 774.6 | 784.1 | 783.1 | 772.9 | 785.1 | 772.9 | 767.3 | 765.1 | 750.3 |
| 40° | 717.8 | 708.2 | 699.1 | 709.3 | 710.2 | 699.4 | 715.1 | 701.3 | 699.7 | 693.1 | 675.7 |
| 42.5° | 639.9 | 636.6 | 627.8 | 636.3 | 640.9 | 631.7 | 644.8 | 638.2 | 639.2 | 637.5 | 621.1 |
| 45° | 571.8 | 566.2 | 559.7 | 569.6 | 572.5 | 567.9 | 581.0 | 577.1 | 581.0 | 589.3 | 575.7 |
| 47.5° | 498.5 | 493.0 | 485.7 | 496.3 | 501.5 | 493.0 | 504.1 | 502.8 | 508.7 | 522.8 | 521.6 |
| 50° | 410.2 | 406.3 | 404.9 | 406.3 | 409.5 | 405.6 | 413.4 | 413.8 | 417.7 | 437.1 | 438.4 |
| 52.5° | 324.8 | 323.7 | 319.1 | 323.4 | 323.4 | 317.1 | 325.0 | 321.4 | 325.3 | 338.5 | 347.1 |
| 55° | 254.0 | 253.0 | 250.1 | 254.0 | 249.8 | 247.5 | 249.8 | 246.2 | 243.1 | 253.3 | 262.2 |
| 57.5° | 197.9 | 194.6 | 190.9 | 192.6 | 192.3 | 187.3 | 190.0 | 185.6 | 183.4 | 187.0 | 194.8 |
| 60° | 141.0 | 140.0 | 136.8 | 138.3 | 139.7 | 136.1 | 138.7 | 136.8 | 132.7 | 135.8 | 136.1 |
| 62.5° | 93.7 | 94.3 | 92.4 | 92.7 | 91.7 | 91.0 | 92.7 | 93.7 | 92.7 | 91.4 | 91.7 |
| 65° | 59.5 | 59.2 | 58.9 | 59.2 | 59.9 | 58.5 | 59.5 | 60.1 | 59.2 | 59.2 | 58.9 |
| 67.5° | 39.5 | 38.5 | 37.4 | 38.1 | 38.8 | 37.8 | 38.8 | 38.5 | 38.8 | 38.5 | 37.4 |
| 70° | 26.6 | 26.3 | 26.0 | 26.3 | 26.3 | 25.7 | 26.3 | 26.0 | 26.3 | 26.0 | 25.0 |
| 72.5° | 19.4 | 19.4 | 19.1 | 19.4 | 19.4 | 18.7 | 19.1 | 18.4 | 18.7 | 18.4 | 17.7 |
| 75° | 14.5 | 14.5 | 14.1 | 14.5 | 14.1 | 13.8 | 14.1 | 13.8 | 13.1 | 13.1 | 12.4 |
| 77.5° | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.2 | 10.2 | 9.9 | 9.5 | 9.2 | 9.2 |
| 80° | 7.8 | 7.5 | 7.5 | 7.5 | 7.5 | 7.2 | 7.5 | 7.2 | 7.0 | 6.6 | 6.3 |
| 82.5° | 5.6 | 5.9 | 5.6 | 5.6 | 5.6 | 5.3 | 5.6 | 5.3 | 5.3 | 4.9 | 4.3 |
| 85° | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 3.9 | 3.9 | 3.9 | 3.6 | 3.6 | 3.3 |
| 87.5° | 2.4 | 2.4 | 2.4 | 2.6 | 2.4 | 2.4 | 2.4 | 2.0 | 2.0 | 1.7 | 1.7 |
| 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 EC8B20930 8LBSWOLI

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° | 95° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1250.8 | 1250.8 | 1250.8 | 1250.8 | 1250.8 | 1250.8 | 1250.8 | 1250.8 | 1250.8 | 1250.8 | 1250.8 |
| 2.5° | 1210.3 | 1212.0 | 1208.4 | 1214.0 | 1235.7 | 1218.3 | 1225.5 | 1227.8 | 1244.2 | 1247.2 | 1245.2 |
| 5° | 1164.4 | 1171.6 | 1176.3 | 1188.7 | 1212.7 | 1200.3 | 1213.0 | 1221.2 | 1242.3 | 1249.1 | 1250.8 |
| 7.5° | 1128.2 | 1143.3 | 1154.5 | 1174.9 | 1203.2 | 1193.6 | 1213.0 | 1226.5 | 1252.2 | 1261.0 | 1265.3 |
| 10° | 1101.3 | 1124.3 | 1143.6 | 1171.6 | 1203.5 | 1197.2 | 1222.6 | 1241.6 | 1270.2 | 1280.7 | 1286.0 |
| 12.5° | 1080.9 | 1108.9 | 1134.8 | 1170.3 | 1204.9 | 1201.8 | 1232.4 | 1254.1 | 1284.3 | 1294.9 | 1301.1 |
| 15° | 1058.6 | 1090.7 | 1121.0 | 1160.8 | 1197.9 | 1197.2 | 1230.1 | 1253.2 | 1284.0 | 1292.8 | 1298.8 |
| 17.5° | 1032.0 | 1066.4 | 1099.6 | 1142.6 | 1179.5 | 1180.2 | 1213.4 | 1236.0 | 1266.3 | 1273.5 | 1277.4 |
| 20° | 1005.0 | 1039.2 | 1072.3 | 1116.7 | 1152.8 | 1153.8 | 1186.4 | 1207.4 | 1236.4 | 1242.3 | 1243.3 |
| 22.5° | 976.4 | 1008.2 | 1041.5 | 1085.5 | 1120.3 | 1121.0 | 1153.2 | 1172.9 | 1197.6 | 1200.5 | 1203.2 |
| 25° | 943.9 | 975.0 | 1006.3 | 1050.0 | 1083.2 | 1085.1 | 1114.4 | 1131.9 | 1154.5 | 1156.9 | 1157.8 |
| 27.5° | 910.0 | 935.7 | 965.5 | 1003.1 | 1036.6 | 1035.2 | 1062.8 | 1082.5 | 1103.0 | 1101.6 | 1101.3 |
| 30° | 875.8 | 897.2 | 915.6 | 951.7 | 976.4 | 977.4 | 1003.3 | 1012.8 | 1034.2 | 1031.7 | 1031.3 |
| 32.5° | 851.8 | 857.5 | 862.4 | 880.8 | 904.1 | 895.9 | 913.6 | 925.5 | 940.3 | 939.3 | 939.6 |
| 35° | 807.8 | 797.6 | 782.8 | 785.5 | 799.6 | 786.7 | 796.2 | 796.0 | 811.0 | 807.5 | 811.7 |
| 37.5° | 732.6 | 703.7 | 670.8 | 652.0 | 654.7 | 638.5 | 635.3 | 643.1 | 648.4 | 638.2 | 641.9 |
| 40° | 652.3 | 609.6 | 558.4 | 515.7 | 513.3 | 493.2 | 489.7 | 481.8 | 492.0 | 483.5 | 486.1 |
| 42.5° | 593.2 | 536.6 | 469.3 | 417.3 | 406.3 | 389.4 | 379.6 | 378.2 | 381.3 | 375.3 | 373.6 |
| 45° | 547.8 | 487.7 | 410.5 | 351.0 | 338.5 | 320.4 | 310.5 | 306.9 | 307.3 | 305.4 | 303.7 |
| 47.5° | 494.6 | 434.2 | 355.9 | 295.2 | 281.0 | 263.9 | 254.0 | 251.8 | 253.0 | 250.4 | 248.4 |
| 50° | 420.9 | 366.8 | 295.5 | 239.9 | 227.5 | 214.9 | 207.0 | 204.7 | 204.5 | 202.5 | 201.1 |
| 52.5° | 341.8 | 296.7 | 235.0 | 188.7 | 177.5 | 165.3 | 159.7 | 156.7 | 157.1 | 155.1 | 153.1 |
| 55° | 264.6 | 236.6 | 182.1 | 142.6 | 132.4 | 122.9 | 117.7 | 114.0 | 113.1 | 111.1 | 110.1 |
| 57.5° | 196.8 | 178.1 | 136.4 | 102.9 | 97.0 | 87.8 | 82.5 | 78.2 | 77.6 | 76.6 | 76.2 |
| 60° | 138.0 | 124.5 | 96.0 | 73.3 | 66.4 | 60.8 | 55.5 | 51.2 | 49.3 | 49.0 | 48.0 |
| 62.5° | 89.3 | 81.2 | 63.1 | 49.0 | 43.7 | 39.8 | 34.5 | 31.5 | 30.3 | 28.9 | 29.3 |
| 65° | 55.5 | 49.3 | 39.5 | 31.5 | 28.6 | 25.7 | 21.6 | 19.1 | 17.7 | 16.5 | 16.8 |
| 67.5° | 34.5 | 30.9 | 25.0 | 20.4 | 18.4 | 16.1 | 13.1 | 11.2 | 10.2 | 9.2 | 8.5 |
| 70° | 23.3 | 20.1 | 17.0 | 14.5 | 13.1 | 11.5 | 9.5 | 7.8 | 7.2 | 6.6 | 5.9 |
| 72.5° | 16.5 | 14.8 | 12.4 | 10.9 | 9.9 | 8.5 | 7.2 | 6.3 | 5.6 | 4.9 | 4.3 |
| 75° | 11.9 | 10.5 | 9.2 | 7.8 | 7.2 | 6.6 | 5.6 | 4.9 | 4.3 | 3.6 | 2.9 |
| 77.5° | 8.5 | 7.5 | 6.6 | 5.9 | 5.6 | 4.6 | 3.9 | 3.6 | 3.3 | 2.6 | 2.0 |
| 80° | 5.9 | 5.3 | 4.3 | 3.9 | 3.9 | 3.3 | 2.9 | 2.6 | 2.4 | 1.7 | 1.3 |
| 82.5° | 3.9 | 3.6 | 3.3 | 2.9 | 2.6 | 2.4 | 2.4 | 1.7 | 1.3 | 1.0 | 0.7 |
| 85° | 2.9 | 2.6 | 2.4 | 2.0 | 2.0 | 1.7 | 1.3 | 1.0 | 1.0 | 0.7 | 0.3 |
| 87.5° | 1.7 | 1.7 | 1.3 | 1.0 | 1.0 | 0.7 | 0.7 | 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 EC8B20930 8LBSWOLI

CANDELA DISTRIBUTION (continued):

| | 100° | 105° | 110° | 112.5° | 115° | 120° | 125° | 130° | 135° | 140° | 145° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1250.8 | 1250.8 | 1250.8 | 1250.8 | 1250.8 | 1250.8 | 1250.8 | 1250.8 | 1250.8 | 1250.8 | 1250.8 |
| 2.5° | 1262.0 | 1262.9 | 1268.5 | 1264.3 | 1275.1 | 1283.0 | 1279.1 | 1287.9 | 1285.0 | 1284.3 | 1294.5 |
| 5° | 1270.5 | 1272.8 | 1280.4 | 1276.5 | 1288.3 | 1296.8 | 1292.8 | 1302.7 | 1299.8 | 1299.1 | 1309.7 |
| 7.5° | 1287.0 | 1289.3 | 1295.9 | 1292.5 | 1305.1 | 1312.6 | 1307.6 | 1318.5 | 1314.6 | 1314.3 | 1324.5 |
| 10° | 1307.6 | 1311.0 | 1316.5 | 1313.3 | 1324.8 | 1331.3 | 1326.4 | 1336.9 | 1333.3 | 1331.6 | 1342.8 |
| 12.5° | 1323.1 | 1325.5 | 1331.0 | 1328.4 | 1339.6 | 1344.5 | 1340.2 | 1350.4 | 1345.8 | 1344.5 | 1354.4 |
| 15° | 1319.5 | 1321.8 | 1326.4 | 1324.1 | 1334.7 | 1339.3 | 1333.7 | 1344.8 | 1340.2 | 1337.6 | 1346.4 |
| 17.5° | 1296.5 | 1297.8 | 1301.1 | 1298.8 | 1310.0 | 1312.9 | 1306.6 | 1317.8 | 1313.6 | 1309.0 | 1317.5 |
| 20° | 1262.7 | 1262.0 | 1263.9 | 1262.9 | 1272.2 | 1273.8 | 1269.9 | 1278.1 | 1273.1 | 1270.5 | 1275.5 |
| 22.5° | 1220.5 | 1219.9 | 1221.2 | 1218.6 | 1227.8 | 1228.8 | 1222.9 | 1232.8 | 1227.8 | 1222.9 | 1231.1 |
| 25° | 1173.9 | 1170.3 | 1169.7 | 1170.7 | 1176.8 | 1177.8 | 1171.6 | 1178.8 | 1172.6 | 1168.6 | 1176.5 |
| 27.5° | 1116.4 | 1111.8 | 1110.8 | 1111.8 | 1118.1 | 1113.5 | 1108.2 | 1113.5 | 1107.2 | 1103.6 | 1108.6 |
| 30° | 1045.4 | 1038.8 | 1035.9 | 1033.9 | 1040.5 | 1038.8 | 1026.7 | 1032.6 | 1022.7 | 1017.5 | 1021.1 |
| 32.5° | 949.8 | 946.1 | 938.3 | 933.7 | 940.0 | 927.4 | 919.9 | 919.9 | 916.0 | 907.0 | 909.0 |
| 35° | 817.0 | 811.4 | 804.2 | 800.3 | 801.2 | 784.5 | 772.0 | 774.6 | 761.5 | 759.1 | 760.2 |
| 37.5° | 649.1 | 639.9 | 637.3 | 629.0 | 631.0 | 616.2 | 599.1 | 599.4 | 592.6 | 585.3 | 583.0 |
| 40° | 487.7 | 486.1 | 483.5 | 476.5 | 479.1 | 463.1 | 456.5 | 456.8 | 452.2 | 446.9 | 449.6 |
| 42.5° | 377.0 | 371.7 | 370.0 | 367.8 | 368.4 | 365.8 | 357.3 | 358.3 | 354.2 | 353.0 | 351.7 |
| 45° | 306.3 | 300.7 | 296.7 | 298.7 | 298.7 | 295.8 | 292.5 | 294.5 | 292.5 | 289.9 | 291.1 |
| 47.5° | 252.4 | 247.2 | 245.2 | 244.8 | 247.2 | 245.2 | 241.9 | 242.6 | 242.2 | 241.2 | 240.6 |
| 50° | 201.4 | 200.1 | 198.5 | 197.5 | 198.5 | 197.9 | 194.8 | 196.5 | 197.5 | 194.3 | 195.2 |
| 52.5° | 153.5 | 153.5 | 153.1 | 150.9 | 152.8 | 150.9 | 150.6 | 151.2 | 150.2 | 148.9 | 148.5 |
| 55° | 112.4 | 111.4 | 109.7 | 109.4 | 110.1 | 109.4 | 108.7 | 109.1 | 109.7 | 106.5 | 106.5 |
| 57.5° | 76.9 | 76.2 | 75.2 | 75.2 | 76.6 | 74.9 | 74.0 | 75.2 | 74.0 | 72.6 | 72.6 |
| 60° | 49.3 | 49.0 | 48.0 | 48.0 | 48.0 | 47.6 | 46.6 | 47.0 | 47.6 | 45.7 | 46.0 |
| 62.5° | 29.6 | 28.6 | 28.2 | 27.9 | 28.2 | 27.9 | 27.9 | 27.6 | 27.2 | 27.2 | 26.3 |
| 65° | 16.1 | 15.5 | 14.8 | 15.1 | 15.1 | 14.8 | 14.8 | 14.8 | 14.1 | 13.8 | 13.5 |
| 67.5° | 8.2 | 7.5 | 7.5 | 7.2 | 7.2 | 7.2 | 7.2 | 7.0 | 7.0 | 7.0 | 6.6 |
| 70° | 5.3 | 4.9 | 4.6 | 4.6 | 4.6 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 3.9 |
| 72.5° | 3.6 | 3.3 | 2.9 | 2.9 | 2.9 | 2.6 | 2.6 | 2.6 | 2.6 | 2.4 | 2.4 |
| 75° | 2.6 | 2.4 | 2.0 | 2.0 | 2.0 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| 77.5° | 1.7 | 1.3 | 1.3 | 1.3 | 1.3 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.7 |
| 80° | 1.0 | 1.0 | 0.7 | 0.7 | 0.7 | 0.7 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| 82.5° | 0.7 | 0.7 | 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 EC8B20930 8LBSW0LI

CANDELA DISTRIBUTION (continued):

| | 150° | 155° | 157.5° | 160° | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1250.8 | 1250.8 | 1250.8 | 1250.8 | 1250.8 | 1250.8 | 1250.8 | 1250.8 |
| 2.5° | 1290.9 | 1288.3 | 1289.9 | 1302.0 | 1296.8 | 1295.2 | 1281.4 | 1293.5 |
| 5° | 1306.3 | 1304.4 | 1304.4 | 1318.2 | 1311.9 | 1310.7 | 1297.1 | 1307.6 |
| 7.5° | 1320.8 | 1318.9 | 1319.2 | 1333.3 | 1328.4 | 1326.4 | 1312.9 | 1323.5 |
| 10° | 1339.6 | 1338.2 | 1338.6 | 1352.0 | 1346.8 | 1344.8 | 1331.0 | 1341.8 |
| 12.5° | 1350.7 | 1348.8 | 1348.8 | 1363.2 | 1357.3 | 1354.4 | 1341.2 | 1351.7 |
| 15° | 1342.2 | 1339.3 | 1339.3 | 1353.7 | 1347.1 | 1342.8 | 1331.3 | 1341.2 |
| 17.5° | 1312.9 | 1310.0 | 1310.0 | 1322.4 | 1317.5 | 1311.2 | 1299.5 | 1308.7 |
| 20° | 1272.2 | 1268.5 | 1267.6 | 1282.1 | 1275.1 | 1269.5 | 1259.0 | 1267.9 |
| 22.5° | 1226.1 | 1224.5 | 1221.6 | 1236.0 | 1229.7 | 1223.9 | 1212.7 | 1219.6 |
| 25° | 1171.0 | 1168.3 | 1165.4 | 1179.5 | 1173.2 | 1167.3 | 1158.4 | 1164.0 |
| 27.5° | 1102.3 | 1102.6 | 1100.9 | 1112.1 | 1105.9 | 1102.6 | 1091.7 | 1100.9 |
| 30° | 1019.1 | 1015.5 | 1014.2 | 1027.3 | 1021.5 | 1017.2 | 1003.6 | 1012.6 |
| 32.5° | 910.7 | 905.4 | 898.5 | 913.3 | 903.1 | 899.5 | 887.9 | 900.8 |
| 35° | 753.0 | 751.3 | 745.0 | 757.6 | 752.0 | 745.4 | 738.2 | 748.9 |
| 37.5° | 582.0 | 583.4 | 582.7 | 585.9 | 582.7 | 578.4 | 570.5 | 566.6 |
| 40° | 444.4 | 441.0 | 438.4 | 444.4 | 437.4 | 437.4 | 432.8 | 437.8 |
| 42.5° | 348.4 | 347.1 | 350.3 | 351.7 | 347.7 | 347.1 | 346.4 | 346.1 |
| 45° | 287.5 | 287.5 | 288.2 | 289.6 | 288.2 | 287.5 | 285.6 | 284.3 |
| 47.5° | 237.0 | 238.2 | 237.0 | 241.2 | 238.9 | 238.2 | 234.3 | 236.0 |
| 50° | 191.9 | 190.2 | 191.9 | 193.3 | 193.6 | 191.6 | 189.7 | 190.6 |
| 52.5° | 148.9 | 146.3 | 145.6 | 147.5 | 146.3 | 146.3 | 144.9 | 144.6 |
| 55° | 104.8 | 105.8 | 104.1 | 105.8 | 105.1 | 104.1 | 103.2 | 104.5 |
| 57.5° | 71.0 | 71.3 | 70.6 | 71.6 | 70.0 | 70.3 | 70.0 | 69.7 |
| 60° | 46.0 | 44.7 | 44.7 | 45.7 | 44.1 | 44.1 | 43.7 | 43.7 |
| 62.5° | 26.3 | 26.0 | 26.0 | 25.7 | 25.3 | 25.3 | 25.3 | 24.7 |
| 65° | 13.5 | 13.1 | 12.8 | 12.8 | 12.8 | 12.8 | 12.4 | 12.4 |
| 67.5° | 6.6 | 6.3 | 6.3 | 6.6 | 6.3 | 6.3 | 6.3 | 6.3 |
| 70° | 3.9 | 3.9 | 3.6 | 3.9 | 3.6 | 3.6 | 3.6 | 3.6 |
| 72.5° | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| 75° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 77.5° | 1.0 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 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)