

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: P249419

Luminaire Tested: **LSR8B100D010 EC8B100830 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249419
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100830 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9386.0 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

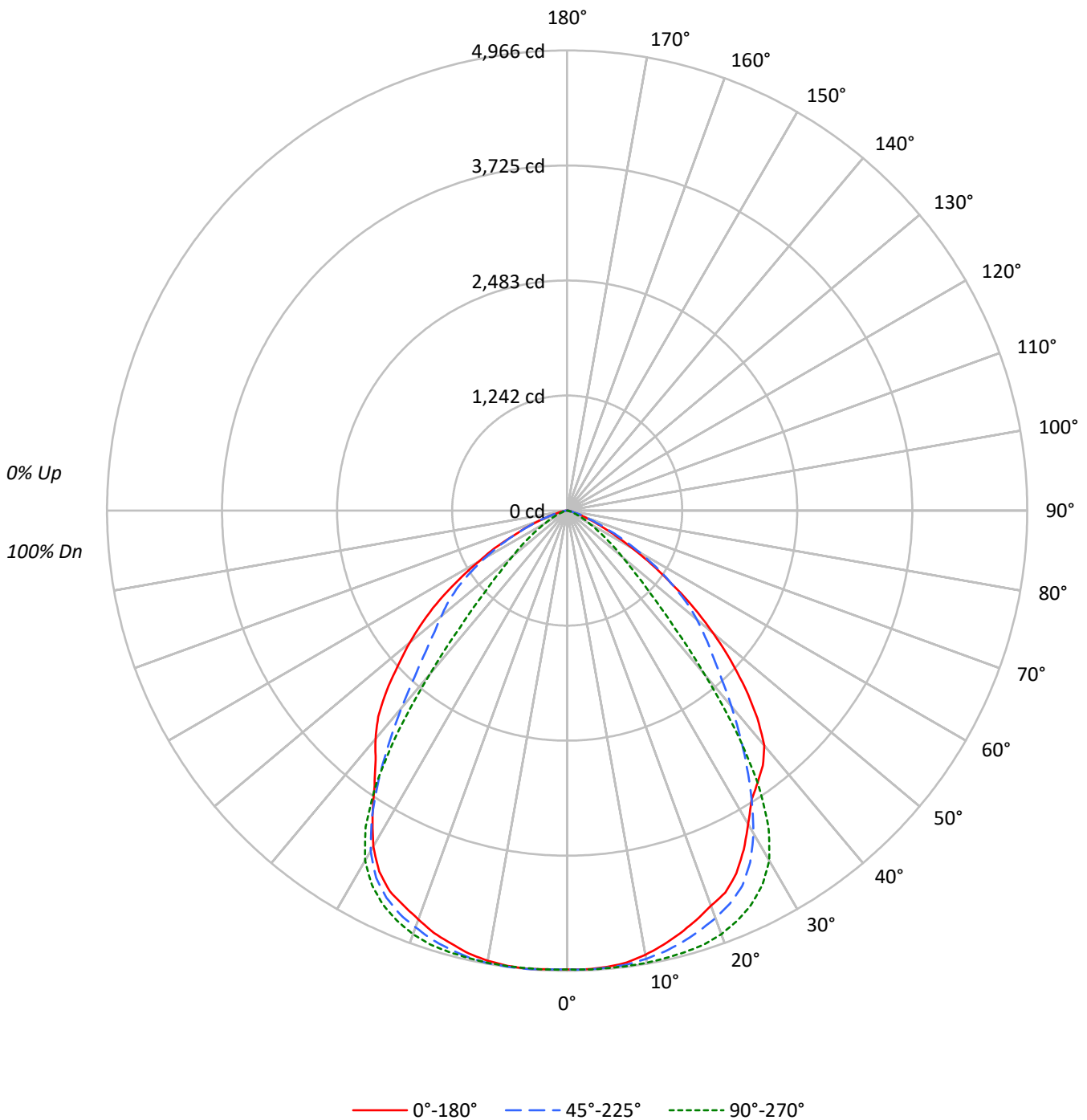
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249419

CATALOG NUMBER: LSR8B100D010 EC8B100830 8LBDW0B

Luminous Intensity Polar Plot





TEST NUMBER: P249419

CATALOG NUMBER: LSR8B100D010 EC8B100830 8LBDW0B

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 | 91 | 90 | | | | | 90 | | | |
| 2 | 104 | 97 | 92 | 88 | 101 | 96 | 91 | 87 | 92 | 88 | 85 | 89 | 86 | 83 | 86 | 83 | 81 | 79 | | | | | 79 | | | |
| 3 | 96 | 88 | 81 | 76 | 94 | 86 | 80 | 75 | 84 | 78 | 74 | 81 | 77 | 73 | 79 | 75 | 72 | 70 | | | | | 70 | | | |
| 4 | 89 | 80 | 72 | 67 | 87 | 78 | 72 | 66 | 76 | 70 | 66 | 74 | 69 | 65 | 72 | 67 | 64 | 62 | | | | | 62 | | | |
| 5 | 83 | 72 | 65 | 59 | 81 | 71 | 64 | 59 | 69 | 63 | 58 | 68 | 62 | 58 | 66 | 61 | 57 | 55 | | | | | 55 | | | |
| 6 | 78 | 66 | 58 | 53 | 76 | 65 | 58 | 53 | 64 | 57 | 52 | 62 | 56 | 52 | 61 | 55 | 51 | 50 | | | | | 50 | | | |
| 7 | 72 | 61 | 53 | 48 | 71 | 60 | 53 | 48 | 59 | 52 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 45 | | | | | 45 | | | |
| 8 | 68 | 56 | 48 | 43 | 66 | 55 | 48 | 43 | 54 | 48 | 43 | 53 | 47 | 43 | 52 | 46 | 42 | 41 | | | | | 41 | | | |
| 9 | 64 | 52 | 44 | 39 | 62 | 51 | 44 | 39 | 50 | 44 | 39 | 49 | 43 | 39 | 48 | 43 | 39 | 37 | | | | | 37 | | | |
| 10 | 60 | 48 | 41 | 36 | 59 | 48 | 41 | 36 | 47 | 40 | 36 | 46 | 40 | 36 | 45 | 40 | 36 | 34 | | | | | 34 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 152708 | 152708 | 152708 |
| 5° | 153043 | 153458 | 153622 |
| 10° | 152402 | 155148 | 154481 |
| 15° | 150710 | 157418 | 154449 |
| 20° | 148903 | 159630 | 154048 |
| 25° | 146971 | 159815 | 154207 |
| 30° | 139041 | 155320 | 148978 |
| 35° | 134890 | 134988 | 136392 |
| 40° | 133220 | 92878 | 129477 |
| 45° | 118704 | 55759 | 120326 |
| 50° | 98704 | 37107 | 106356 |
| 55° | 74024 | 25580 | 90174 |
| 60° | 50165 | 17046 | 68037 |
| 65° | 30259 | 11054 | 46741 |
| 70° | 16779 | 5996 | 28761 |
| 75° | 7601 | 2538 | 14881 |
| 80° | 6606 | 2824 | 10388 |
| 85° | 7536 | 3750 | 10367 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 472.6 | 5.0 |
| 10°-20° | 1372.6 | 14.6 |
| 20°-30° | 2083.3 | 22.2 |
| 30°-40° | 2188.1 | 23.3 |
| 40°-50° | 1640.5 | 17.5 |
| 50°-60° | 1052.6 | 11.2 |
| 60°-70° | 450.3 | 4.8 |
| 70°-80° | 106.4 | 1.1 |
| 80°-90° | 19.8 | 0.2 |
| 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° | 3928.5 | 41.9 |
| 0°-40° | 6116.5 | 65.2 |
| 0°-60° | 8809.6 | 93.9 |
| 0°-90° | 9386.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 9386.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 4952 | 4952 | 4952 | 4952 | 4952 | |
| 5° | 4944 | 4952 | 4958 | 4966 | 4963 | 470 |
| 15° | 4721 | 4819 | 4931 | 4899 | 4838 | 1332 |
| 25° | 4320 | 4471 | 4697 | 4612 | 4532 | 1973 |
| 35° | 3583 | 3384 | 3586 | 3543 | 3623 | 2249 |
| 45° | 2722 | 2225 | 1279 | 2161 | 2759 | 2085 |
| 55° | 1377 | 1377 | 476 | 1435 | 1677 | 1249 |
| 65° | 415 | 489 | 152 | 630 | 641 | 443 |
| 75° | 64 | 74 | 21 | 128 | 125 | 93 |
| 85° | 21 | 13 | 11 | 21 | 29 | 22 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P249419

CATALOG NUMBER: LSR8B100D010 EC8B100830 8LBDW0B

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4952.2 | 4952.2 | 4952.2 | 4952.2 | 4952.2 | 4952.2 | 4952.2 | 4952.2 | 4952.2 | 4952.2 | 4952.2 |
| 2.5° | 4954.9 | 4960.2 | 4957.6 | 4957.6 | 4954.9 | 4957.6 | 4957.6 | 4962.9 | 4962.9 | 4957.6 | 4954.9 |
| 5° | 4944.2 | 4949.6 | 4949.6 | 4944.2 | 4944.2 | 4957.6 | 4949.6 | 4954.9 | 4954.9 | 4952.2 | 4952.2 |
| 7.5° | 4920.4 | 4920.4 | 4931.0 | 4923.0 | 4923.0 | 4931.0 | 4928.3 | 4933.6 | 4939.0 | 4941.6 | 4941.6 |
| 10° | 4867.2 | 4872.5 | 4875.2 | 4875.2 | 4877.8 | 4885.8 | 4891.1 | 4901.8 | 4907.0 | 4912.4 | 4915.0 |
| 12.5° | 4800.8 | 4808.7 | 4811.4 | 4808.7 | 4816.7 | 4827.3 | 4840.6 | 4853.9 | 4861.9 | 4872.5 | 4880.5 |
| 15° | 4720.9 | 4720.9 | 4726.3 | 4734.3 | 4739.6 | 4755.6 | 4768.8 | 4784.8 | 4806.0 | 4819.4 | 4832.6 |
| 17.5° | 4633.3 | 4638.6 | 4646.5 | 4646.5 | 4657.2 | 4683.7 | 4691.7 | 4715.7 | 4739.6 | 4752.9 | 4779.5 |
| 20° | 4537.6 | 4542.9 | 4550.9 | 4556.2 | 4569.5 | 4590.7 | 4606.7 | 4627.9 | 4654.5 | 4678.5 | 4705.0 |
| 22.5° | 4463.1 | 4452.5 | 4457.8 | 4463.1 | 4476.5 | 4495.1 | 4513.7 | 4540.2 | 4566.8 | 4590.7 | 4617.3 |
| 25° | 4319.6 | 4322.2 | 4330.2 | 4335.5 | 4351.5 | 4367.4 | 4388.7 | 4420.6 | 4444.5 | 4471.1 | 4500.3 |
| 27.5° | 4125.6 | 4128.2 | 4141.5 | 4141.5 | 4154.8 | 4181.4 | 4194.6 | 4221.2 | 4253.2 | 4279.7 | 4314.3 |
| 30° | 3904.9 | 3910.2 | 3910.2 | 3920.9 | 3928.8 | 3942.1 | 3955.4 | 3982.0 | 3997.9 | 4021.9 | 4069.7 |
| 32.5° | 3702.9 | 3708.2 | 3705.5 | 3702.9 | 3694.9 | 3692.2 | 3689.6 | 3694.9 | 3700.2 | 3708.2 | 3726.8 |
| 35° | 3583.3 | 3570.0 | 3559.4 | 3540.8 | 3519.5 | 3492.9 | 3469.0 | 3437.1 | 3407.8 | 3383.9 | 3357.3 |
| 37.5° | 3469.0 | 3466.3 | 3450.4 | 3423.8 | 3381.2 | 3333.4 | 3277.6 | 3208.5 | 3139.3 | 3064.9 | 2993.2 |
| 40° | 3309.5 | 3301.5 | 3288.2 | 3251.0 | 3203.1 | 3144.7 | 3070.2 | 2985.2 | 2873.5 | 2759.2 | 2642.3 |
| 42.5° | 3038.3 | 3041.0 | 3025.0 | 2995.8 | 2950.6 | 2894.8 | 2817.7 | 2724.7 | 2605.1 | 2469.5 | 2318.0 |
| 45° | 2722.0 | 2722.0 | 2716.7 | 2692.7 | 2660.9 | 2615.7 | 2557.2 | 2480.1 | 2363.2 | 2224.9 | 2062.7 |
| 47.5° | 2392.4 | 2395.0 | 2387.0 | 2381.8 | 2368.4 | 2339.2 | 2296.7 | 2238.2 | 2155.8 | 2022.9 | 1860.7 |
| 50° | 2057.5 | 2057.5 | 2070.7 | 2068.1 | 2068.1 | 2057.5 | 2038.9 | 2004.3 | 1932.5 | 1826.2 | 1674.7 |
| 52.5° | 1722.5 | 1727.8 | 1735.8 | 1746.4 | 1759.7 | 1781.0 | 1759.7 | 1743.8 | 1698.6 | 1616.2 | 1486.0 |
| 55° | 1376.9 | 1382.3 | 1395.5 | 1414.1 | 1430.1 | 1451.4 | 1456.7 | 1456.7 | 1432.7 | 1376.9 | 1278.6 |
| 57.5° | 1081.9 | 1073.9 | 1084.6 | 1100.5 | 1121.8 | 1143.0 | 1159.0 | 1177.6 | 1174.9 | 1137.7 | 1058.0 |
| 60° | 813.4 | 816.1 | 824.0 | 840.0 | 856.0 | 874.6 | 895.8 | 911.8 | 919.8 | 901.2 | 850.6 |
| 62.5° | 592.8 | 592.8 | 603.4 | 619.3 | 627.3 | 653.9 | 667.2 | 675.2 | 683.1 | 680.5 | 648.6 |
| 65° | 414.7 | 420.0 | 425.3 | 433.3 | 441.2 | 457.2 | 465.2 | 481.1 | 486.4 | 489.1 | 465.2 |
| 67.5° | 292.4 | 284.4 | 289.8 | 295.0 | 303.0 | 313.7 | 329.6 | 329.6 | 337.6 | 337.6 | 321.6 |
| 70° | 186.1 | 186.1 | 188.8 | 196.7 | 202.0 | 204.7 | 210.0 | 215.3 | 223.3 | 220.6 | 220.6 |
| 72.5° | 124.9 | 122.3 | 124.9 | 127.6 | 130.3 | 138.2 | 138.2 | 140.9 | 146.2 | 148.9 | 138.2 |
| 75° | 63.8 | 66.5 | 71.7 | 69.1 | 77.1 | 71.7 | 74.4 | 82.4 | 79.7 | 74.4 | 74.4 |
| 77.5° | 53.1 | 53.1 | 53.1 | 50.5 | 55.8 | 55.8 | 53.1 | 58.5 | 55.8 | 55.8 | 53.1 |
| 80° | 37.2 | 39.9 | 37.2 | 34.5 | 37.2 | 34.5 | 34.5 | 34.5 | 34.5 | 34.5 | 31.9 |
| 82.5° | 29.3 | 23.9 | 26.6 | 23.9 | 26.6 | 26.6 | 23.9 | 21.3 | 21.3 | 23.9 | 21.3 |
| 85° | 21.3 | 15.9 | 18.6 | 18.6 | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 | 13.3 | 13.3 |
| 87.5° | 13.3 | 8.0 | 8.0 | 8.0 | 10.6 | 10.6 | 10.6 | 8.0 | 10.6 | 10.6 | 5.3 |
| 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: P249419

CATALOG NUMBER: LSR8B100D010 EC8B100830 8LBDW0B

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4952.2 | 4952.2 | 4952.2 | 4952.2 | 4952.2 | 4952.2 | 4952.2 | 4952.2 | 4952.2 | 4952.2 | 4952.2 |
| 2.5° | 4960.2 | 4957.6 | 4962.9 | 4960.2 | 4960.2 | 4957.6 | 4960.2 | 4957.6 | 4962.9 | 4952.2 | 4954.9 |
| 5° | 4960.2 | 4954.9 | 4957.6 | 4960.2 | 4962.9 | 4957.6 | 4957.6 | 4957.6 | 4962.9 | 4957.6 | 4960.2 |
| 7.5° | 4949.6 | 4946.9 | 4954.9 | 4960.2 | 4957.6 | 4954.9 | 4960.2 | 4957.6 | 4962.9 | 4960.2 | 4965.5 |
| 10° | 4928.3 | 4931.0 | 4936.3 | 4944.2 | 4946.9 | 4949.6 | 4954.9 | 4954.9 | 4962.9 | 4952.2 | 4957.6 |
| 12.5° | 4896.4 | 4907.0 | 4920.4 | 4925.6 | 4936.3 | 4936.3 | 4941.6 | 4944.2 | 4949.6 | 4946.9 | 4954.9 |
| 15° | 4856.6 | 4869.8 | 4885.8 | 4899.1 | 4912.4 | 4920.4 | 4928.3 | 4931.0 | 4939.0 | 4931.0 | 4933.6 |
| 17.5° | 4808.7 | 4824.6 | 4848.6 | 4864.5 | 4885.8 | 4893.8 | 4904.4 | 4909.7 | 4917.7 | 4912.4 | 4915.0 |
| 20° | 4742.2 | 4760.9 | 4787.4 | 4811.4 | 4824.6 | 4843.2 | 4856.6 | 4864.5 | 4869.8 | 4864.5 | 4867.2 |
| 22.5° | 4649.2 | 4675.8 | 4710.3 | 4728.9 | 4755.6 | 4771.5 | 4774.2 | 4792.8 | 4806.0 | 4792.8 | 4798.1 |
| 25° | 4540.2 | 4566.8 | 4593.4 | 4633.3 | 4657.2 | 4675.8 | 4694.4 | 4697.1 | 4710.3 | 4707.7 | 4705.0 |
| 27.5° | 4359.4 | 4394.0 | 4439.2 | 4471.1 | 4503.0 | 4532.3 | 4553.5 | 4558.8 | 4572.1 | 4566.8 | 4569.5 |
| 30° | 4112.2 | 4149.5 | 4192.0 | 4242.5 | 4287.7 | 4316.9 | 4343.5 | 4362.1 | 4375.4 | 4367.4 | 4364.8 |
| 32.5° | 3761.4 | 3798.6 | 3843.8 | 3894.3 | 3947.5 | 3989.9 | 4021.9 | 4045.8 | 4061.7 | 4056.4 | 4043.1 |
| 35° | 3360.0 | 3370.6 | 3399.9 | 3439.7 | 3484.9 | 3530.1 | 3559.4 | 3585.9 | 3604.5 | 3609.8 | 3609.8 |
| 37.5° | 2948.0 | 2913.4 | 2892.2 | 2892.2 | 2918.7 | 2937.3 | 2963.9 | 2979.8 | 3009.1 | 3019.7 | 3027.7 |
| 40° | 2549.2 | 2469.5 | 2395.0 | 2339.2 | 2302.0 | 2299.4 | 2299.4 | 2307.3 | 2333.9 | 2368.4 | 2400.4 |
| 42.5° | 2193.0 | 2065.4 | 1951.1 | 1847.5 | 1773.0 | 1730.5 | 1711.9 | 1714.6 | 1735.8 | 1767.7 | 1820.9 |
| 45° | 1908.6 | 1749.1 | 1605.6 | 1480.6 | 1379.6 | 1313.1 | 1281.3 | 1278.6 | 1294.5 | 1331.7 | 1390.3 |
| 47.5° | 1688.0 | 1517.8 | 1355.7 | 1212.1 | 1103.2 | 1031.4 | 994.2 | 983.6 | 994.2 | 1028.7 | 1097.8 |
| 50° | 1504.6 | 1329.1 | 1161.7 | 1012.8 | 895.8 | 821.4 | 786.8 | 773.5 | 786.8 | 816.1 | 885.2 |
| 52.5° | 1334.4 | 1153.7 | 996.8 | 853.3 | 728.3 | 664.5 | 627.3 | 619.3 | 627.3 | 661.9 | 717.7 |
| 55° | 1137.7 | 983.6 | 829.4 | 685.8 | 576.9 | 513.1 | 483.8 | 475.8 | 483.8 | 515.7 | 574.2 |
| 57.5° | 943.7 | 810.7 | 675.2 | 544.9 | 451.9 | 396.0 | 369.5 | 358.8 | 377.4 | 398.7 | 467.8 |
| 60° | 762.9 | 656.6 | 542.3 | 428.0 | 350.9 | 300.4 | 279.1 | 276.4 | 281.8 | 308.4 | 356.2 |
| 62.5° | 598.1 | 510.4 | 420.0 | 327.0 | 263.2 | 241.9 | 215.3 | 212.7 | 218.0 | 233.9 | 271.2 |
| 65° | 430.6 | 374.8 | 305.7 | 239.2 | 188.8 | 159.5 | 148.9 | 151.5 | 156.8 | 167.5 | 202.0 |
| 67.5° | 300.4 | 260.5 | 212.7 | 167.5 | 130.3 | 116.9 | 106.3 | 103.7 | 106.3 | 124.9 | 143.5 |
| 70° | 202.0 | 178.1 | 143.5 | 127.6 | 90.4 | 71.7 | 74.4 | 66.5 | 77.1 | 77.1 | 93.0 |
| 72.5° | 132.9 | 116.9 | 95.7 | 74.4 | 63.8 | 50.5 | 50.5 | 47.9 | 53.1 | 55.8 | 69.1 |
| 75° | 69.1 | 53.1 | 53.1 | 37.2 | 26.6 | 13.3 | 23.9 | 21.3 | 18.6 | 21.3 | 26.6 |
| 77.5° | 47.9 | 39.9 | 37.2 | 29.3 | 26.6 | 21.3 | 21.3 | 21.3 | 21.3 | 23.9 | 26.6 |
| 80° | 29.3 | 29.3 | 21.3 | 18.6 | 15.9 | 13.3 | 15.9 | 15.9 | 15.9 | 15.9 | 18.6 |
| 82.5° | 18.6 | 15.9 | 15.9 | 13.3 | 13.3 | 10.6 | 10.6 | 10.6 | 10.6 | 10.6 | 15.9 |
| 85° | 15.9 | 10.6 | 10.6 | 8.0 | 10.6 | 18.6 | 8.0 | 10.6 | 10.6 | 10.6 | 8.0 |
| 87.5° | 5.3 | 8.0 | 8.0 | 8.0 | 5.3 | 2.7 | 5.3 | 8.0 | 8.0 | 13.3 | 10.6 |
| 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: P249419

CATALOG NUMBER: LSR8B100D010 EC8B100830 8LBDW0B

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4952.2 | 4952.2 | 4952.2 | 4952.2 | 4952.2 | 4952.2 | 4952.2 | 4952.2 | 4952.2 | 4952.2 | 4952.2 |
| 2.5° | 4960.2 | 4962.9 | 4962.9 | 4960.2 | 4960.2 | 4954.9 | 4965.5 | 4957.6 | 4960.2 | 4970.8 | 4962.9 |
| 5° | 4965.5 | 4968.2 | 4968.2 | 4965.5 | 4965.5 | 4965.5 | 4968.2 | 4968.2 | 4965.5 | 4962.9 | 4968.2 |
| 7.5° | 4976.2 | 4973.5 | 4973.5 | 4968.2 | 4968.2 | 4962.9 | 4968.2 | 4960.2 | 4965.5 | 4960.2 | 4968.2 |
| 10° | 4962.9 | 4965.5 | 4962.9 | 4960.2 | 4960.2 | 4957.6 | 4957.6 | 4949.6 | 4952.2 | 4944.2 | 4949.6 |
| 12.5° | 4954.9 | 4952.2 | 4952.2 | 4946.9 | 4941.6 | 4936.3 | 4933.6 | 4925.6 | 4925.6 | 4907.0 | 4915.0 |
| 15° | 4933.6 | 4936.3 | 4928.3 | 4917.7 | 4912.4 | 4899.1 | 4893.8 | 4883.1 | 4872.5 | 4859.2 | 4861.9 |
| 17.5° | 4915.0 | 4907.0 | 4896.4 | 4885.8 | 4864.5 | 4853.9 | 4843.2 | 4827.3 | 4822.0 | 4806.0 | 4800.8 |
| 20° | 4859.2 | 4853.9 | 4840.6 | 4822.0 | 4808.7 | 4784.8 | 4774.2 | 4758.2 | 4744.9 | 4728.9 | 4720.9 |
| 22.5° | 4787.4 | 4782.1 | 4766.2 | 4747.6 | 4726.3 | 4715.7 | 4705.0 | 4675.8 | 4662.5 | 4646.5 | 4643.9 |
| 25° | 4697.1 | 4689.1 | 4673.1 | 4651.9 | 4641.2 | 4612.0 | 4601.3 | 4580.1 | 4574.8 | 4558.8 | 4556.2 |
| 27.5° | 4558.8 | 4548.2 | 4529.6 | 4503.0 | 4484.4 | 4465.8 | 4455.2 | 4439.2 | 4433.9 | 4417.9 | 4415.3 |
| 30° | 4351.5 | 4338.2 | 4301.0 | 4290.4 | 4258.4 | 4239.8 | 4239.8 | 4218.6 | 4221.2 | 4210.6 | 4210.6 |
| 32.5° | 4024.5 | 4003.3 | 3974.0 | 3952.7 | 3931.5 | 3920.9 | 3920.9 | 3912.9 | 3918.2 | 3918.2 | 3923.5 |
| 35° | 3591.2 | 3562.0 | 3546.0 | 3532.8 | 3532.8 | 3543.4 | 3575.3 | 3583.3 | 3599.2 | 3612.5 | 3623.2 |
| 37.5° | 3035.6 | 3033.0 | 3051.6 | 3067.6 | 3107.4 | 3152.7 | 3208.5 | 3256.3 | 3301.5 | 3333.4 | 3365.3 |
| 40° | 2434.9 | 2501.4 | 2554.5 | 2629.0 | 2690.1 | 2777.8 | 2878.8 | 2961.2 | 3038.3 | 3094.2 | 3152.7 |
| 42.5° | 1900.6 | 1985.7 | 2097.3 | 2206.3 | 2315.3 | 2434.9 | 2567.9 | 2682.1 | 2783.1 | 2860.2 | 2921.4 |
| 45° | 1480.6 | 1597.6 | 1733.2 | 1871.4 | 2012.3 | 2161.2 | 2299.4 | 2416.3 | 2522.7 | 2602.4 | 2663.5 |
| 47.5° | 1193.5 | 1321.1 | 1475.3 | 1626.8 | 1786.3 | 1943.1 | 2097.3 | 2198.4 | 2286.0 | 2349.8 | 2405.7 |
| 50° | 986.2 | 1121.8 | 1283.9 | 1456.7 | 1616.2 | 1773.0 | 1905.9 | 2004.3 | 2076.1 | 2131.9 | 2166.4 |
| 52.5° | 824.0 | 967.6 | 1140.4 | 1313.1 | 1472.6 | 1616.2 | 1735.8 | 1810.3 | 1868.7 | 1908.6 | 1940.5 |
| 55° | 680.5 | 818.7 | 980.9 | 1143.0 | 1299.9 | 1435.4 | 1533.8 | 1589.6 | 1634.8 | 1658.7 | 1677.3 |
| 57.5° | 555.6 | 683.1 | 832.0 | 980.9 | 1116.4 | 1228.1 | 1305.2 | 1361.0 | 1382.3 | 1400.9 | 1398.2 |
| 60° | 436.0 | 555.6 | 691.1 | 818.7 | 935.7 | 1026.0 | 1081.9 | 1113.8 | 1129.7 | 1137.7 | 1132.4 |
| 62.5° | 342.9 | 451.9 | 555.6 | 667.2 | 752.3 | 829.4 | 882.6 | 882.6 | 890.5 | 893.2 | 901.2 |
| 65° | 255.2 | 337.6 | 428.0 | 510.4 | 579.5 | 630.0 | 659.3 | 667.2 | 677.9 | 675.2 | 669.9 |
| 67.5° | 188.8 | 249.9 | 316.3 | 377.4 | 425.3 | 457.2 | 478.5 | 497.1 | 494.4 | 489.1 | 486.4 |
| 70° | 130.3 | 170.1 | 228.6 | 265.8 | 300.4 | 332.3 | 337.6 | 340.2 | 342.9 | 345.6 | 340.2 |
| 72.5° | 90.4 | 119.6 | 151.5 | 183.4 | 204.7 | 218.0 | 231.3 | 233.9 | 233.9 | 233.9 | 231.3 |
| 75° | 45.2 | 61.1 | 90.4 | 103.7 | 122.3 | 127.6 | 138.2 | 138.2 | 146.2 | 135.5 | 132.9 |
| 77.5° | 39.9 | 47.9 | 63.8 | 74.4 | 82.4 | 90.4 | 93.0 | 101.0 | 98.3 | 93.0 | 95.7 |
| 80° | 23.9 | 29.3 | 39.9 | 45.2 | 55.8 | 58.5 | 61.1 | 63.8 | 61.1 | 63.8 | 63.8 |
| 82.5° | 18.6 | 21.3 | 26.6 | 26.6 | 34.5 | 34.5 | 37.2 | 37.2 | 39.9 | 39.9 | 39.9 |
| 85° | 10.6 | 18.6 | 15.9 | 31.9 | 21.3 | 21.3 | 26.6 | 31.9 | 26.6 | 26.6 | 31.9 |
| 87.5° | 10.6 | 10.6 | 8.0 | 10.6 | 10.6 | 10.6 | 13.3 | 15.9 | 15.9 | 18.6 | 15.9 |
| 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: P249419

CATALOG NUMBER: LSR8B100D010 EC8B100830 8LBDW0B

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 4952.2 | 4952.2 | 4952.2 | 4952.2 |
| 2.5° | 4960.2 | 4965.5 | 4957.6 | 4954.9 |
| 5° | 4968.2 | 4968.2 | 4962.9 | 4962.9 |
| 7.5° | 4968.2 | 4968.2 | 4960.2 | 4954.9 |
| 10° | 4946.9 | 4946.9 | 4939.0 | 4933.6 |
| 12.5° | 4907.0 | 4907.0 | 4904.4 | 4896.4 |
| 15° | 4856.6 | 4856.6 | 4845.9 | 4838.0 |
| 17.5° | 4787.4 | 4792.8 | 4779.5 | 4779.5 |
| 20° | 4713.0 | 4710.3 | 4699.7 | 4694.4 |
| 22.5° | 4635.9 | 4630.6 | 4627.9 | 4612.0 |
| 25° | 4553.5 | 4548.2 | 4540.2 | 4532.3 |
| 27.5° | 4412.6 | 4410.0 | 4402.0 | 4391.4 |
| 30° | 4197.3 | 4194.6 | 4184.0 | 4184.0 |
| 32.5° | 3918.2 | 3915.5 | 3904.9 | 3907.6 |
| 35° | 3628.4 | 3639.1 | 3633.8 | 3623.2 |
| 37.5° | 3386.5 | 3394.5 | 3399.9 | 3394.5 |
| 40° | 3184.5 | 3208.5 | 3211.1 | 3216.5 |
| 42.5° | 2969.2 | 3001.1 | 3011.8 | 3017.0 |
| 45° | 2711.3 | 2740.6 | 2764.5 | 2759.2 |
| 47.5° | 2448.2 | 2469.5 | 2490.7 | 2474.8 |
| 50° | 2195.7 | 2209.0 | 2217.0 | 2217.0 |
| 52.5° | 1956.5 | 1956.5 | 1953.8 | 1956.5 |
| 55° | 1682.6 | 1682.6 | 1672.0 | 1677.3 |
| 57.5° | 1395.5 | 1400.9 | 1392.9 | 1379.6 |
| 60° | 1129.7 | 1116.4 | 1111.1 | 1103.2 |
| 62.5° | 879.9 | 879.9 | 861.3 | 885.2 |
| 65° | 659.3 | 651.3 | 643.3 | 640.6 |
| 67.5° | 478.5 | 475.8 | 467.8 | 465.2 |
| 70° | 337.6 | 327.0 | 324.3 | 319.0 |
| 72.5° | 226.0 | 226.0 | 220.6 | 220.6 |
| 75° | 138.2 | 124.9 | 122.3 | 124.9 |
| 77.5° | 95.7 | 93.0 | 93.0 | 90.4 |
| 80° | 63.8 | 61.1 | 66.5 | 58.5 |
| 82.5° | 39.9 | 42.5 | 39.9 | 42.5 |
| 85° | 26.6 | 31.9 | 29.3 | 29.3 |
| 87.5° | 15.9 | 15.9 | 15.9 | 15.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)