

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: P250261

Luminaire Tested: **LSR8B90D010 EC8B90940 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250261
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13955)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90940 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8559.0 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

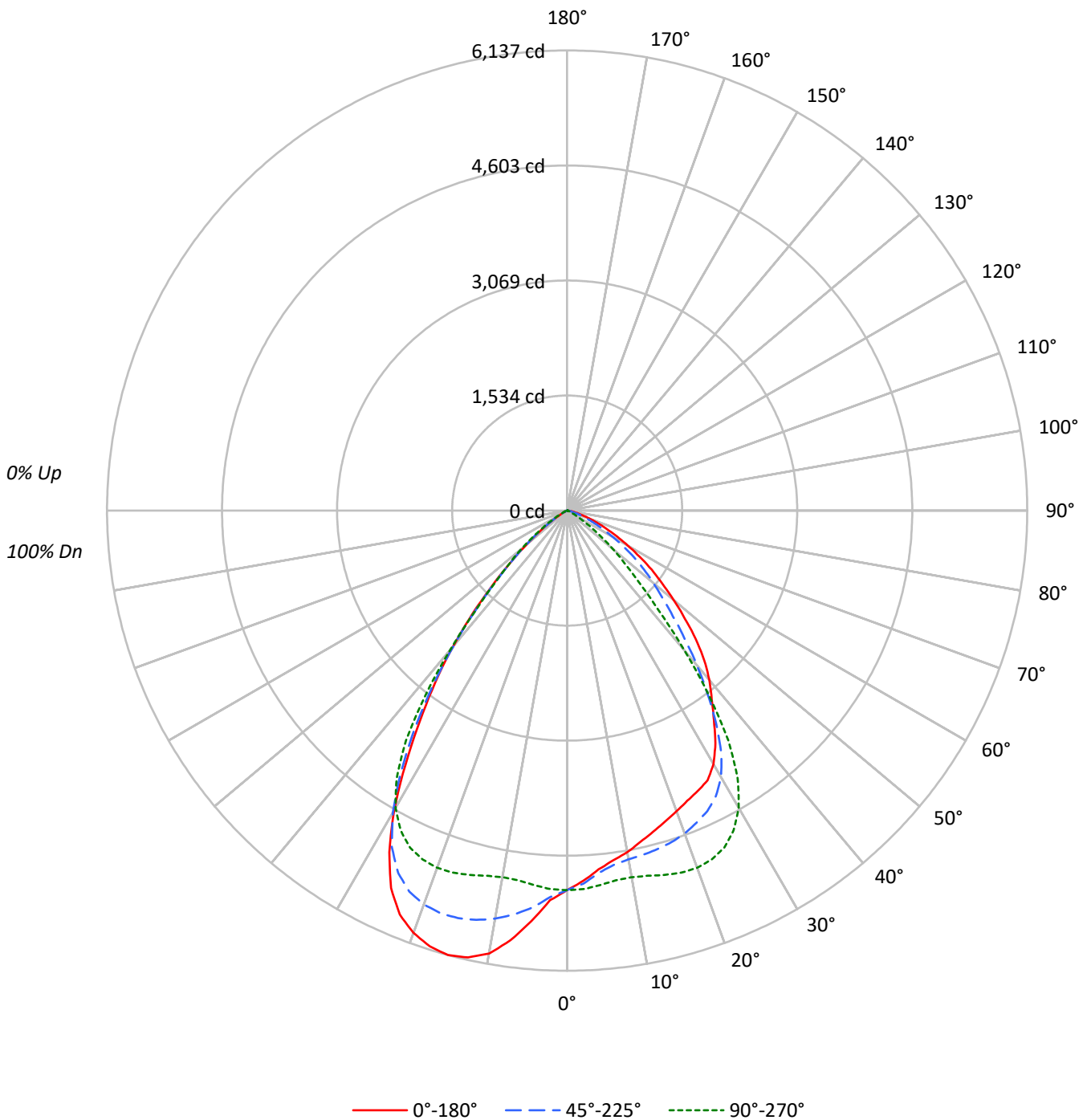
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250261

CATALOG NUMBER: LSR8B90D010 EC8B90940 8LBSW0WH

Luminous Intensity Polar Plot





TEST NUMBER: P250261

CATALOG NUMBER: LSR8B90D010 EC8B90940 8LBSW0WH

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 | 103 | 110 | 107 | 104 | 102 | 103 | 100 | 98 | 99 | 97 | 96 | 95 | 94 | 93 | 91 | | | | | 91 | | | |
| 2 | 105 | 99 | 94 | 90 | 103 | 97 | 93 | 89 | 94 | 90 | 87 | 91 | 88 | 85 | 88 | 86 | 83 | 82 | | | | | 82 | | | |
| 3 | 98 | 90 | 84 | 80 | 96 | 89 | 83 | 79 | 86 | 82 | 78 | 84 | 80 | 76 | 81 | 78 | 75 | 73 | | | | | 73 | | | |
| 4 | 92 | 83 | 76 | 71 | 90 | 81 | 75 | 70 | 79 | 74 | 70 | 77 | 72 | 69 | 75 | 71 | 68 | 66 | | | | | 66 | | | |
| 5 | 86 | 76 | 69 | 64 | 84 | 75 | 68 | 63 | 73 | 67 | 63 | 71 | 66 | 62 | 69 | 65 | 61 | 60 | | | | | 60 | | | |
| 6 | 80 | 70 | 63 | 57 | 79 | 69 | 62 | 57 | 67 | 61 | 57 | 66 | 60 | 56 | 64 | 60 | 56 | 54 | | | | | 54 | | | |
| 7 | 75 | 64 | 57 | 52 | 74 | 64 | 57 | 52 | 62 | 56 | 52 | 61 | 55 | 51 | 60 | 55 | 51 | 49 | | | | | 49 | | | |
| 8 | 71 | 60 | 53 | 48 | 70 | 59 | 52 | 48 | 58 | 52 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 45 | | | | | 45 | | | |
| 9 | 67 | 55 | 48 | 44 | 66 | 55 | 48 | 44 | 54 | 48 | 43 | 53 | 47 | 43 | 52 | 47 | 43 | 42 | | | | | 42 | | | |
| 10 | 63 | 52 | 45 | 40 | 62 | 51 | 45 | 40 | 50 | 44 | 40 | 49 | 44 | 40 | 49 | 43 | 40 | 38 | | | | | 38 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 156063 | 156063 | 156063 |
| 5° | 148679 | 155191 | 170130 |
| 10° | 144843 | 155433 | 187794 |
| 15° | 141561 | 160585 | 195918 |
| 20° | 140000 | 166387 | 196652 |
| 25° | 140329 | 168736 | 189014 |
| 30° | 139026 | 162943 | 164375 |
| 35° | 128465 | 141015 | 128641 |
| 40° | 118713 | 97769 | 95390 |
| 45° | 105709 | 58994 | 60948 |
| 50° | 88946 | 38009 | 34492 |
| 55° | 73997 | 20849 | 15768 |
| 60° | 57756 | 9041 | 4958 |
| 65° | 42626 | 4487 | 2415 |
| 70° | 29635 | 2777 | 1064 |
| 75° | 18038 | 572 | 0 |
| 80° | 13017 | 852 | 0 |
| 85° | 8385 | 814 | 0 |



TEST NUMBER: P250261

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 486.5 | 5.7 |
| 10°-20° | 1456.1 | 17.0 |
| 20°-30° | 2229.9 | 26.1 |
| 30°-40° | 2186.1 | 25.5 |
| 40°-50° | 1316.4 | 15.4 |
| 50°-60° | 605.9 | 7.1 |
| 60°-70° | 212.9 | 2.5 |
| 70°-80° | 55.7 | 0.7 |
| 80°-90° | 9.5 | 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° | 4172.6 | 48.8 |
| 0°-40° | 6358.6 | 74.3 |
| 0°-60° | 8281.0 | 96.8 |
| 0°-90° | 8559.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 8559.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 5061 | 5061 | 5061 | 5061 | 5061 | |
| 5° | 4803 | 4848 | 5014 | 5314 | 5496 | 454 |
| 15° | 4434 | 4673 | 5030 | 5626 | 6137 | 1253 |
| 25° | 4124 | 4422 | 4959 | 5333 | 5555 | 1900 |
| 35° | 3413 | 3460 | 3746 | 3531 | 3417 | 2137 |
| 45° | 2424 | 1996 | 1353 | 1362 | 1398 | 1859 |
| 55° | 1376 | 1090 | 388 | 305 | 293 | 1228 |
| 65° | 584 | 404 | 62 | 31 | 33 | 595 |
| 75° | 151 | 88 | 5 | 0 | 0 | 184 |
| 85° | 24 | 12 | 2 | 0 | 0 | 33 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P250261

CATALOG NUMBER: LSR8B90D010 EC8B90940 8LBSW0WH

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5061.0 | 5061.0 | 5061.0 | 5061.0 | 5061.0 | 5061.0 | 5061.0 | 5061.0 | 5061.0 | 5061.0 | 5061.0 |
| 2.5° | 4942.7 | 4947.5 | 4947.5 | 4947.5 | 4956.9 | 4959.3 | 4956.9 | 4959.3 | 4964.0 | 4980.5 | 4987.7 |
| 5° | 4803.2 | 4796.1 | 4800.9 | 4798.4 | 4810.3 | 4817.4 | 4812.6 | 4819.7 | 4836.3 | 4848.2 | 4859.9 |
| 7.5° | 4703.9 | 4703.9 | 4703.9 | 4708.6 | 4715.7 | 4729.9 | 4727.6 | 4732.2 | 4748.8 | 4765.3 | 4781.9 |
| 10° | 4625.8 | 4623.5 | 4623.5 | 4635.3 | 4644.7 | 4661.3 | 4666.0 | 4680.2 | 4701.5 | 4722.8 | 4741.7 |
| 12.5° | 4524.1 | 4526.5 | 4538.3 | 4550.2 | 4571.4 | 4597.4 | 4611.6 | 4630.6 | 4663.7 | 4699.1 | 4720.4 |
| 15° | 4434.3 | 4436.6 | 4446.1 | 4469.7 | 4495.8 | 4526.5 | 4557.2 | 4588.0 | 4628.2 | 4673.1 | 4711.0 |
| 17.5° | 4346.7 | 4349.1 | 4356.2 | 4382.3 | 4415.4 | 4455.6 | 4491.0 | 4531.2 | 4583.3 | 4635.3 | 4682.6 |
| 20° | 4266.3 | 4264.0 | 4275.8 | 4299.4 | 4342.1 | 4379.8 | 4415.4 | 4462.7 | 4519.4 | 4583.3 | 4637.6 |
| 22.5° | 4188.3 | 4188.3 | 4200.2 | 4223.8 | 4261.7 | 4299.4 | 4337.3 | 4387.0 | 4443.7 | 4505.2 | 4569.1 |
| 25° | 4124.4 | 4122.1 | 4138.6 | 4150.5 | 4178.8 | 4216.7 | 4256.9 | 4297.1 | 4353.9 | 4422.5 | 4483.9 |
| 27.5° | 4055.9 | 4053.6 | 4055.9 | 4070.1 | 4096.1 | 4124.4 | 4155.2 | 4190.7 | 4238.0 | 4294.8 | 4353.9 |
| 30° | 3904.5 | 3906.9 | 3906.9 | 3918.7 | 3932.9 | 3963.6 | 3980.2 | 4015.7 | 4058.2 | 4105.5 | 4157.6 |
| 32.5° | 3679.9 | 3682.2 | 3682.2 | 3687.0 | 3698.7 | 3713.0 | 3727.2 | 3753.2 | 3786.2 | 3826.5 | 3873.8 |
| 35° | 3412.6 | 3412.6 | 3410.2 | 3412.6 | 3419.8 | 3419.8 | 3431.5 | 3419.8 | 3436.3 | 3460.0 | 3495.4 |
| 37.5° | 3166.7 | 3161.9 | 3157.2 | 3152.4 | 3145.3 | 3133.6 | 3117.0 | 3088.6 | 3081.5 | 3072.0 | 3074.4 |
| 40° | 2949.1 | 2946.8 | 2932.6 | 2920.7 | 2897.0 | 2868.7 | 2828.5 | 2778.8 | 2738.6 | 2691.3 | 2651.1 |
| 42.5° | 2707.9 | 2705.5 | 2693.7 | 2672.4 | 2646.4 | 2603.8 | 2540.0 | 2473.8 | 2393.4 | 2322.4 | 2249.1 |
| 45° | 2424.0 | 2431.1 | 2414.6 | 2390.9 | 2360.2 | 2320.0 | 2249.1 | 2168.6 | 2088.2 | 1996.0 | 1903.7 |
| 47.5° | 2128.4 | 2126.1 | 2114.3 | 2100.1 | 2074.1 | 2033.9 | 1986.6 | 1899.1 | 1813.9 | 1728.8 | 1634.2 |
| 50° | 1854.1 | 1844.6 | 1839.9 | 1825.8 | 1809.2 | 1776.1 | 1726.4 | 1655.4 | 1579.8 | 1499.4 | 1411.9 |
| 52.5° | 1594.0 | 1594.0 | 1582.1 | 1572.7 | 1558.5 | 1532.5 | 1489.9 | 1433.2 | 1369.3 | 1293.6 | 1201.4 |
| 55° | 1376.4 | 1371.7 | 1359.9 | 1348.0 | 1333.8 | 1317.2 | 1279.5 | 1232.2 | 1163.5 | 1090.2 | 1009.8 |
| 57.5° | 1144.7 | 1142.2 | 1137.5 | 1123.3 | 1116.2 | 1099.7 | 1057.1 | 1009.8 | 950.7 | 886.9 | 820.6 |
| 60° | 936.5 | 927.1 | 917.6 | 908.1 | 896.3 | 879.8 | 851.4 | 811.2 | 761.5 | 704.8 | 638.6 |
| 62.5° | 749.7 | 763.8 | 735.5 | 735.5 | 711.9 | 697.7 | 671.7 | 648.0 | 595.9 | 544.0 | 487.2 |
| 65° | 584.2 | 584.2 | 572.3 | 562.8 | 548.6 | 532.1 | 506.1 | 482.4 | 444.6 | 404.4 | 364.2 |
| 67.5° | 447.0 | 444.6 | 432.8 | 423.3 | 411.5 | 402.0 | 383.1 | 354.7 | 326.4 | 293.3 | 260.1 |
| 70° | 328.7 | 326.4 | 324.0 | 307.4 | 298.0 | 286.2 | 272.0 | 253.1 | 231.8 | 208.1 | 177.4 |
| 72.5° | 236.4 | 236.4 | 229.4 | 222.3 | 212.9 | 203.3 | 189.2 | 177.4 | 158.5 | 141.9 | 120.6 |
| 75° | 151.4 | 149.0 | 149.0 | 137.2 | 137.2 | 122.9 | 113.5 | 106.4 | 97.0 | 87.5 | 68.6 |
| 77.5° | 108.8 | 106.4 | 104.1 | 99.3 | 94.6 | 89.8 | 82.7 | 73.3 | 66.2 | 56.8 | 49.6 |
| 80° | 73.3 | 68.6 | 66.2 | 66.2 | 59.1 | 56.8 | 59.1 | 45.0 | 42.5 | 35.4 | 30.8 |
| 82.5° | 45.0 | 45.0 | 42.5 | 42.5 | 40.2 | 37.9 | 30.8 | 30.8 | 28.4 | 26.0 | 21.3 |
| 85° | 23.7 | 30.8 | 21.3 | 23.7 | 21.3 | 23.7 | 21.3 | 16.5 | 14.2 | 11.8 | 11.8 |
| 87.5° | 14.2 | 9.4 | 9.4 | 14.2 | 11.8 | 9.4 | 9.4 | 9.4 | 7.1 | 4.8 | 4.8 |
| 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: P250261

CATALOG NUMBER: LSR8B90D010 EC8B90940 8LBSW0WH

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5061.0 | 5061.0 | 5061.0 | 5061.0 | 5061.0 | 5061.0 | 5061.0 | 5061.0 | 5061.0 | 5061.0 | 5061.0 |
| 2.5° | 4983.0 | 4999.5 | 4997.1 | 5018.4 | 5025.5 | 5042.1 | 5042.1 | 5053.8 | 5061.0 | 5077.5 | 5091.7 |
| 5° | 4864.7 | 4890.7 | 4897.8 | 4923.8 | 4945.1 | 4971.1 | 4987.7 | 5013.6 | 5037.3 | 5072.8 | 5105.9 |
| 7.5° | 4791.4 | 4812.6 | 4826.8 | 4857.6 | 4881.3 | 4909.6 | 4938.0 | 4973.4 | 5006.5 | 5049.2 | 5096.5 |
| 10° | 4755.9 | 4784.3 | 4805.5 | 4836.3 | 4864.7 | 4895.5 | 4923.8 | 4964.0 | 5001.9 | 5056.3 | 5108.3 |
| 12.5° | 4746.4 | 4779.5 | 4805.5 | 4848.2 | 4876.5 | 4909.6 | 4942.7 | 4987.7 | 5027.9 | 5084.6 | 5143.8 |
| 15° | 4746.4 | 4791.4 | 4826.8 | 4874.2 | 4907.3 | 4949.8 | 4985.3 | 5030.2 | 5075.2 | 5134.3 | 5191.0 |
| 17.5° | 4737.0 | 4791.4 | 4836.3 | 4890.7 | 4933.2 | 4975.9 | 5020.8 | 5063.4 | 5110.6 | 5167.4 | 5231.2 |
| 20° | 4699.1 | 4767.8 | 4822.1 | 4885.9 | 4930.9 | 4978.2 | 5023.2 | 5070.4 | 5120.1 | 5179.2 | 5233.6 |
| 22.5° | 4632.9 | 4713.3 | 4774.9 | 4843.4 | 4895.5 | 4942.7 | 4987.7 | 5035.0 | 5089.4 | 5146.1 | 5202.9 |
| 25° | 4545.4 | 4621.1 | 4687.4 | 4758.2 | 4810.3 | 4862.3 | 4904.9 | 4959.3 | 5009.0 | 5063.4 | 5108.3 |
| 27.5° | 4412.9 | 4493.3 | 4557.2 | 4630.6 | 4677.8 | 4727.6 | 4763.0 | 4808.0 | 4855.3 | 4900.1 | 4935.7 |
| 30° | 4214.4 | 4287.7 | 4353.9 | 4420.0 | 4467.4 | 4502.9 | 4540.7 | 4576.2 | 4606.9 | 4637.6 | 4668.4 |
| 32.5° | 3923.4 | 3989.7 | 4053.6 | 4115.0 | 4152.8 | 4183.6 | 4211.9 | 4233.2 | 4249.8 | 4266.3 | 4268.7 |
| 35° | 3523.8 | 3578.1 | 3618.3 | 3672.7 | 3708.3 | 3736.6 | 3736.6 | 3746.0 | 3743.7 | 3736.6 | 3729.5 |
| 37.5° | 3076.8 | 3098.0 | 3114.6 | 3135.9 | 3138.2 | 3138.2 | 3124.1 | 3112.2 | 3093.4 | 3088.6 | 3074.4 |
| 40° | 2610.9 | 2582.5 | 2561.2 | 2532.9 | 2516.3 | 2480.8 | 2450.1 | 2428.8 | 2398.0 | 2393.4 | 2388.6 |
| 42.5° | 2168.6 | 2102.4 | 2043.3 | 1993.7 | 1936.9 | 1887.2 | 1842.3 | 1809.2 | 1785.6 | 1783.1 | 1785.6 |
| 45° | 1809.2 | 1733.5 | 1646.0 | 1577.4 | 1513.6 | 1452.1 | 1393.0 | 1352.8 | 1331.5 | 1326.7 | 1331.5 |
| 47.5° | 1537.2 | 1449.7 | 1364.6 | 1286.5 | 1218.0 | 1149.3 | 1090.2 | 1035.8 | 1009.8 | 1002.7 | 1000.4 |
| 50° | 1322.0 | 1232.2 | 1142.2 | 1061.8 | 986.2 | 917.6 | 844.3 | 792.3 | 759.2 | 747.3 | 737.9 |
| 52.5° | 1111.6 | 1031.2 | 938.9 | 856.1 | 780.4 | 700.0 | 624.4 | 565.2 | 532.1 | 518.0 | 508.4 |
| 55° | 927.1 | 846.7 | 761.5 | 681.1 | 600.7 | 520.3 | 444.6 | 387.8 | 352.4 | 335.8 | 324.0 |
| 57.5° | 740.2 | 664.6 | 591.3 | 510.9 | 444.6 | 366.6 | 290.9 | 241.2 | 210.5 | 191.6 | 182.1 |
| 60° | 572.3 | 513.2 | 449.3 | 383.1 | 319.3 | 255.4 | 193.9 | 146.6 | 122.9 | 108.8 | 97.0 |
| 62.5° | 432.8 | 383.1 | 340.5 | 283.8 | 234.1 | 179.7 | 132.5 | 94.6 | 73.3 | 61.5 | 56.8 |
| 65° | 312.2 | 274.3 | 236.4 | 201.0 | 165.6 | 125.4 | 89.8 | 61.5 | 42.5 | 35.4 | 33.1 |
| 67.5° | 222.3 | 191.6 | 163.1 | 139.5 | 113.5 | 89.8 | 63.9 | 42.5 | 33.1 | 28.4 | 26.0 |
| 70° | 156.0 | 132.5 | 113.5 | 92.3 | 75.6 | 59.1 | 49.6 | 30.8 | 18.9 | 21.3 | 16.5 |
| 72.5° | 104.1 | 87.5 | 78.1 | 63.9 | 52.0 | 42.5 | 30.8 | 21.3 | 21.3 | 16.5 | 14.2 |
| 75° | 56.8 | 52.0 | 40.2 | 30.8 | 26.0 | 23.7 | 9.4 | 4.8 | 2.3 | 7.1 | 2.3 |
| 77.5° | 40.2 | 35.4 | 30.8 | 26.0 | 21.3 | 16.5 | 9.4 | 9.4 | 7.1 | 9.4 | 4.8 |
| 80° | 26.0 | 21.3 | 18.9 | 18.9 | 11.8 | 7.1 | 4.8 | 4.8 | 7.1 | 2.3 | 2.3 |
| 82.5° | 16.5 | 14.2 | 11.8 | 11.8 | 11.8 | 7.1 | 7.1 | 7.1 | 7.1 | 4.8 | 4.8 |
| 85° | 9.4 | 7.1 | 4.8 | 4.8 | 2.3 | 4.8 | 0.0 | 2.3 | 2.3 | 0.0 | 0.0 |
| 87.5° | 4.8 | 2.3 | 2.3 | 2.3 | 2.3 | 0.0 | 0.0 | 2.3 | 0.0 | 2.3 | 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: P250261

CATALOG NUMBER: LSR8B90D010 EC8B90940 8LBSW0WH

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5061.0 | 5061.0 | 5061.0 | 5061.0 | 5061.0 | 5061.0 | 5061.0 | 5061.0 | 5061.0 | 5061.0 | 5061.0 |
| 2.5° | 5101.2 | 5110.6 | 5122.5 | 5131.9 | 5153.2 | 5157.9 | 5167.4 | 5176.9 | 5184.0 | 5191.0 | 5193.4 |
| 5° | 5134.3 | 5169.8 | 5202.9 | 5238.3 | 5283.3 | 5314.0 | 5349.5 | 5380.2 | 5411.0 | 5437.0 | 5455.9 |
| 7.5° | 5143.8 | 5198.1 | 5247.9 | 5309.3 | 5375.5 | 5432.3 | 5491.4 | 5550.5 | 5612.0 | 5659.3 | 5699.5 |
| 10° | 5162.7 | 5228.9 | 5292.7 | 5366.0 | 5451.2 | 5526.8 | 5600.1 | 5678.2 | 5756.3 | 5822.5 | 5881.7 |
| 12.5° | 5195.8 | 5269.1 | 5337.7 | 5418.1 | 5505.6 | 5590.7 | 5671.1 | 5758.6 | 5841.5 | 5914.7 | 5980.9 |
| 15° | 5250.2 | 5318.7 | 5385.0 | 5460.6 | 5548.2 | 5626.2 | 5706.6 | 5791.7 | 5874.5 | 5950.2 | 6011.7 |
| 17.5° | 5285.6 | 5349.5 | 5415.7 | 5484.3 | 5557.6 | 5628.6 | 5704.2 | 5779.9 | 5855.6 | 5924.2 | 5980.9 |
| 20° | 5285.6 | 5347.1 | 5396.8 | 5458.3 | 5526.8 | 5588.4 | 5649.9 | 5716.1 | 5782.3 | 5839.0 | 5893.4 |
| 22.5° | 5243.1 | 5302.2 | 5340.0 | 5387.3 | 5446.4 | 5498.5 | 5531.6 | 5604.9 | 5654.6 | 5704.2 | 5744.4 |
| 25° | 5143.8 | 5186.3 | 5217.1 | 5250.2 | 5297.5 | 5332.9 | 5361.4 | 5403.9 | 5453.5 | 5472.5 | 5500.8 |
| 27.5° | 4964.0 | 4994.8 | 5011.3 | 5018.4 | 5042.1 | 5061.0 | 5065.7 | 5084.6 | 5105.9 | 5110.6 | 5122.5 |
| 30° | 4680.2 | 4682.6 | 4675.5 | 4673.1 | 4661.3 | 4647.2 | 4644.7 | 4642.4 | 4632.9 | 4623.5 | 4625.8 |
| 32.5° | 4252.1 | 4240.4 | 4211.9 | 4181.3 | 4150.5 | 4117.4 | 4098.4 | 4074.8 | 4060.6 | 4046.4 | 4029.9 |
| 35° | 3698.7 | 3670.4 | 3630.2 | 3592.3 | 3556.9 | 3530.8 | 3488.3 | 3474.1 | 3460.0 | 3441.0 | 3436.3 |
| 37.5° | 3048.4 | 3031.8 | 2994.0 | 2965.6 | 2946.8 | 2934.9 | 2913.6 | 2899.5 | 2899.5 | 2892.3 | 2887.6 |
| 40° | 2376.7 | 2372.1 | 2357.8 | 2364.9 | 2355.5 | 2360.2 | 2357.8 | 2353.1 | 2364.9 | 2364.9 | 2369.7 |
| 42.5° | 1783.1 | 1785.6 | 1792.7 | 1797.3 | 1811.6 | 1813.9 | 1825.8 | 1825.8 | 1832.9 | 1839.9 | 1844.6 |
| 45° | 1326.7 | 1336.2 | 1336.2 | 1345.7 | 1359.9 | 1362.2 | 1366.9 | 1369.3 | 1374.0 | 1385.9 | 1390.5 |
| 47.5° | 995.6 | 998.0 | 998.0 | 1000.4 | 1005.1 | 1009.8 | 1007.5 | 1009.8 | 1016.9 | 1012.2 | 1016.9 |
| 50° | 735.5 | 737.9 | 730.8 | 723.6 | 730.8 | 730.8 | 728.4 | 721.3 | 728.4 | 719.0 | 723.6 |
| 52.5° | 501.4 | 499.0 | 491.9 | 494.3 | 489.5 | 487.2 | 487.2 | 482.4 | 482.4 | 482.4 | 473.0 |
| 55° | 316.9 | 316.9 | 312.2 | 312.2 | 309.8 | 305.1 | 302.7 | 300.3 | 298.0 | 295.6 | 295.6 |
| 57.5° | 177.4 | 179.7 | 172.7 | 170.3 | 172.7 | 170.3 | 165.6 | 165.6 | 165.6 | 158.5 | 163.1 |
| 60° | 97.0 | 94.6 | 92.3 | 89.8 | 87.5 | 89.8 | 89.8 | 85.2 | 85.2 | 85.2 | 87.5 |
| 62.5° | 52.0 | 52.0 | 49.6 | 49.6 | 47.3 | 47.3 | 52.0 | 45.0 | 47.3 | 45.0 | 47.3 |
| 65° | 28.4 | 35.4 | 26.0 | 26.0 | 33.1 | 30.8 | 28.4 | 28.4 | 30.8 | 26.0 | 28.4 |
| 67.5° | 30.8 | 21.3 | 18.9 | 21.3 | 18.9 | 18.9 | 18.9 | 23.7 | 21.3 | 16.5 | 21.3 |
| 70° | 14.2 | 16.5 | 16.5 | 11.8 | 18.9 | 9.4 | 16.5 | 9.4 | 14.2 | 11.8 | 14.2 |
| 72.5° | 14.2 | 14.2 | 14.2 | 9.4 | 14.2 | 9.4 | 11.8 | 11.8 | 9.4 | 9.4 | 14.2 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 4.8 | 4.8 | 2.3 | 2.3 | 2.3 | 2.3 | 4.8 | 4.8 | 4.8 | 0.0 | 2.3 |
| 80° | 4.8 | 4.8 | 0.0 | 2.3 | 0.0 | 0.0 | 2.3 | 0.0 | 2.3 | 0.0 | 4.8 |
| 82.5° | 2.3 | 4.8 | 2.3 | 2.3 | 4.8 | 4.8 | 4.8 | 2.3 | 2.3 | 2.3 | 2.3 |
| 85° | 0.0 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 4.8 | 0.0 | 0.0 | 0.0 | 2.3 |
| 87.5° | 0.0 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 2.3 | 2.3 | 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: P250261

CATALOG NUMBER: LSR8B90D010 EC8B90940 8LBSW0WH

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 5061.0 | 5061.0 | 5061.0 | 5061.0 |
| 2.5° | 5195.8 | 5198.1 | 5202.9 | 5200.5 |
| 5° | 5470.1 | 5489.1 | 5498.5 | 5496.2 |
| 7.5° | 5727.9 | 5761.0 | 5779.9 | 5779.9 |
| 10° | 5926.5 | 5964.4 | 5992.7 | 5997.5 |
| 12.5° | 6032.9 | 6075.6 | 6113.4 | 6103.9 |
| 15° | 6063.7 | 6106.3 | 6144.1 | 6137.0 |
| 17.5° | 6028.3 | 6070.8 | 6099.2 | 6094.4 |
| 20° | 5931.3 | 5966.7 | 5995.2 | 5992.7 |
| 22.5° | 5779.9 | 5810.7 | 5834.3 | 5831.9 |
| 25° | 5524.5 | 5545.8 | 5564.7 | 5555.3 |
| 27.5° | 5131.9 | 5139.0 | 5150.8 | 5136.7 |
| 30° | 4609.3 | 4614.0 | 4618.7 | 4616.4 |
| 32.5° | 4022.8 | 4020.4 | 4015.7 | 4010.9 |
| 35° | 3429.2 | 3429.2 | 3431.5 | 3417.3 |
| 37.5° | 2889.9 | 2887.6 | 2894.7 | 2887.6 |
| 40° | 2374.4 | 2372.1 | 2381.5 | 2369.7 |
| 42.5° | 1851.8 | 1858.9 | 1861.2 | 1861.2 |
| 45° | 1393.0 | 1395.3 | 1397.6 | 1397.6 |
| 47.5° | 1016.9 | 1019.3 | 1031.2 | 1016.9 |
| 50° | 719.0 | 721.3 | 723.6 | 719.0 |
| 52.5° | 475.3 | 477.8 | 475.3 | 468.2 |
| 55° | 290.9 | 293.3 | 293.3 | 293.3 |
| 57.5° | 156.0 | 158.5 | 158.5 | 156.0 |
| 60° | 85.2 | 82.7 | 85.2 | 80.4 |
| 62.5° | 45.0 | 49.6 | 47.3 | 42.5 |
| 65° | 28.4 | 28.4 | 28.4 | 33.1 |
| 67.5° | 23.7 | 18.9 | 21.3 | 16.5 |
| 70° | 14.2 | 16.5 | 16.5 | 11.8 |
| 72.5° | 11.8 | 11.8 | 11.8 | 14.2 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 4.8 | 4.8 | 4.8 | 2.3 |
| 80° | 2.3 | 0.0 | 2.3 | 0.0 |
| 82.5° | 2.3 | 2.3 | 4.8 | 2.3 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)