

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: P249714

Luminaire Tested: **LSR8B80D010 EC8B80835 8LBSWOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249714
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: LSR8B80D010 EC8B80835 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8848.0 lumens
Efficiency: N/A
Efficacy: 118.9 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

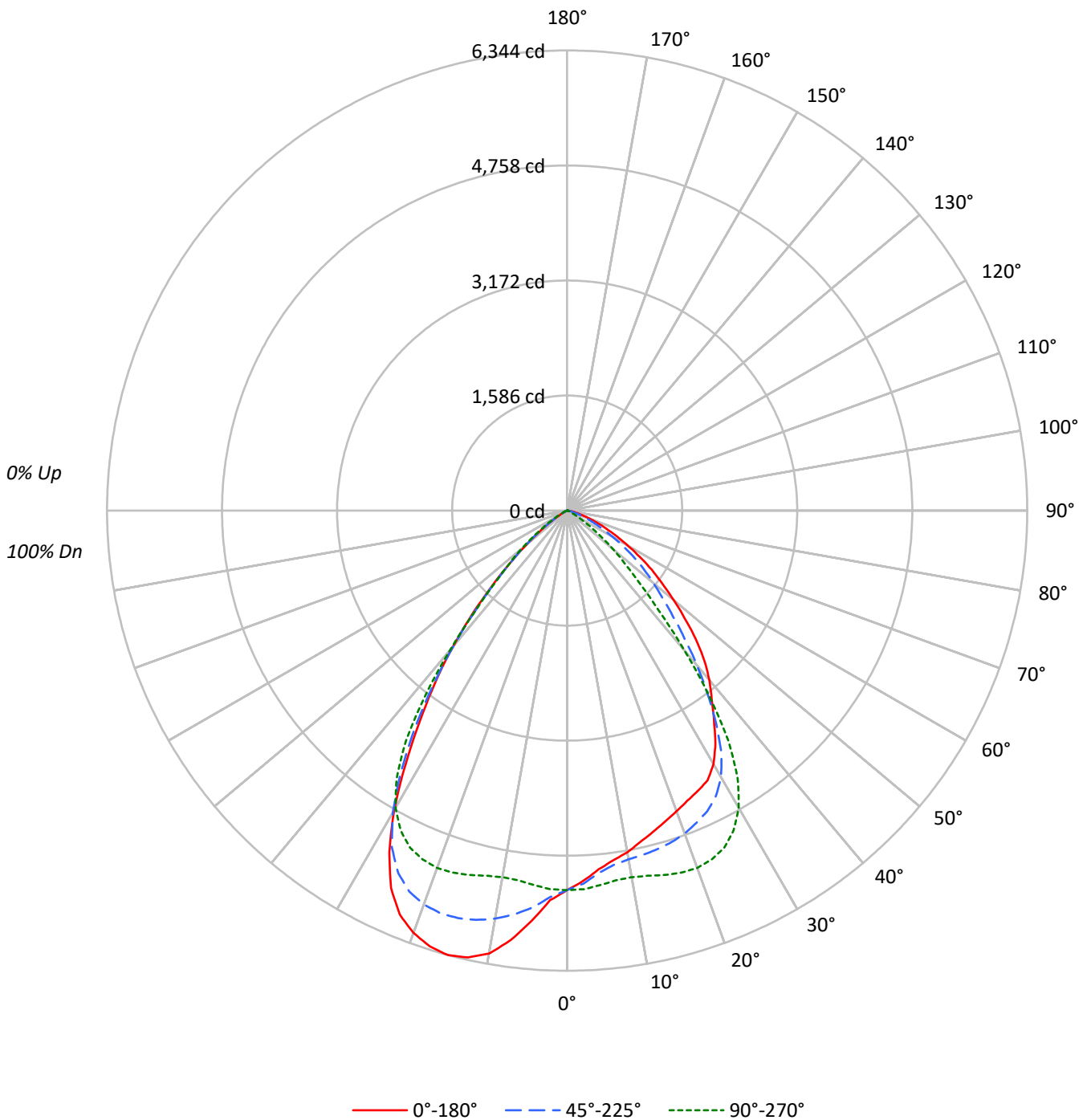
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249714

CATALOG NUMBER: LSR8B80D010 EC8B80835 8LBSW0LI

Luminous Intensity Polar Plot





TEST NUMBER: P249714

CATALOG NUMBER: LSR8B80D010 EC8B80835 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 | 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° | 161329 | 161329 | 161329 |
| 5° | 153700 | 160432 | 175875 |
| 10° | 149734 | 160681 | 194134 |
| 15° | 146340 | 166005 | 202533 |
| 20° | 144729 | 172005 | 203294 |
| 25° | 145069 | 174435 | 195394 |
| 30° | 143723 | 168445 | 169926 |
| 35° | 132805 | 145777 | 132986 |
| 40° | 122722 | 101070 | 98610 |
| 45° | 109280 | 60987 | 63006 |
| 50° | 91949 | 39290 | 35658 |
| 55° | 76497 | 21553 | 16300 |
| 60° | 59711 | 9343 | 5125 |
| 65° | 44064 | 4641 | 2495 |
| 70° | 30636 | 2867 | 1100 |
| 75° | 18646 | 584 | 0 |
| 80° | 13461 | 870 | 0 |
| 85° | 8668 | 849 | 0 |



TEST NUMBER: P249714

CATALOG NUMBER: LSR8B80D010 EC8B80835 8LBSW0LI

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 503.0 | 5.7 |
| 10°-20° | 1505.3 | 17.0 |
| 20°-30° | 2305.2 | 26.1 |
| 30°-40° | 2259.9 | 25.5 |
| 40°-50° | 1360.9 | 15.4 |
| 50°-60° | 626.4 | 7.1 |
| 60°-70° | 220.0 | 2.5 |
| 70°-80° | 57.6 | 0.7 |
| 80°-90° | 9.8 | 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° | 4313.5 | 48.8 |
| 0°-40° | 6573.3 | 74.3 |
| 0°-60° | 8560.6 | 96.8 |
| 0°-90° | 8848.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 8848.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 5232 | 5232 | 5232 | 5232 | 5232 | |
| 5° | 4965 | 5012 | 5183 | 5494 | 5682 | 469 |
| 15° | 4584 | 4831 | 5200 | 5816 | 6344 | 1295 |
| 25° | 4264 | 4572 | 5127 | 5513 | 5743 | 1964 |
| 35° | 3528 | 3577 | 3872 | 3650 | 3533 | 2210 |
| 45° | 2506 | 2063 | 1398 | 1408 | 1445 | 1922 |
| 55° | 1423 | 1127 | 401 | 315 | 303 | 1270 |
| 65° | 604 | 418 | 64 | 32 | 34 | 615 |
| 75° | 156 | 90 | 5 | 0 | 0 | 190 |
| 85° | 24 | 12 | 2 | 0 | 0 | 34 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P249714

CATALOG NUMBER: LSR8B80D010 EC8B80835 8LBSW0LI

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5231.8 | 5231.8 | 5231.8 | 5231.8 | 5231.8 | 5231.8 | 5231.8 | 5231.8 | 5231.8 | 5231.8 | 5231.8 |
| 2.5° | 5109.6 | 5114.5 | 5114.5 | 5114.5 | 5124.3 | 5126.8 | 5124.3 | 5126.8 | 5131.6 | 5148.7 | 5156.1 |
| 5° | 4965.4 | 4958.0 | 4963.0 | 4960.4 | 4972.7 | 4980.1 | 4975.1 | 4982.5 | 4999.6 | 5011.9 | 5024.0 |
| 7.5° | 4862.7 | 4862.7 | 4862.7 | 4867.6 | 4874.9 | 4889.6 | 4887.2 | 4892.0 | 4909.1 | 4926.2 | 4943.3 |
| 10° | 4782.0 | 4779.6 | 4779.6 | 4791.8 | 4801.5 | 4818.7 | 4823.6 | 4838.3 | 4860.2 | 4882.3 | 4901.8 |
| 12.5° | 4676.9 | 4679.4 | 4691.6 | 4703.8 | 4725.8 | 4752.6 | 4767.3 | 4787.0 | 4821.2 | 4857.8 | 4879.8 |
| 15° | 4584.0 | 4586.4 | 4596.3 | 4620.6 | 4647.6 | 4679.4 | 4711.1 | 4742.9 | 4784.4 | 4830.9 | 4870.1 |
| 17.5° | 4493.5 | 4495.9 | 4503.3 | 4530.3 | 4564.5 | 4606.0 | 4642.7 | 4684.2 | 4738.1 | 4791.8 | 4840.7 |
| 20° | 4410.4 | 4408.0 | 4420.2 | 4444.6 | 4488.7 | 4527.7 | 4564.5 | 4613.4 | 4672.0 | 4738.1 | 4794.2 |
| 22.5° | 4329.7 | 4329.7 | 4342.0 | 4366.4 | 4405.6 | 4444.6 | 4483.8 | 4535.1 | 4593.7 | 4657.3 | 4723.4 |
| 25° | 4263.7 | 4261.3 | 4278.4 | 4290.7 | 4319.9 | 4359.1 | 4400.6 | 4442.2 | 4500.9 | 4571.8 | 4635.3 |
| 27.5° | 4192.8 | 4190.4 | 4192.8 | 4207.5 | 4234.4 | 4263.7 | 4295.5 | 4332.2 | 4381.1 | 4439.8 | 4500.9 |
| 30° | 4036.4 | 4038.8 | 4038.8 | 4051.1 | 4065.7 | 4097.4 | 4114.5 | 4151.3 | 4195.3 | 4244.2 | 4298.0 |
| 32.5° | 3804.1 | 3806.5 | 3806.5 | 3811.5 | 3823.6 | 3838.3 | 3853.0 | 3879.9 | 3914.1 | 3955.7 | 4004.6 |
| 35° | 3527.9 | 3527.9 | 3525.4 | 3527.9 | 3535.2 | 3535.2 | 3547.4 | 3535.2 | 3552.3 | 3576.8 | 3613.4 |
| 37.5° | 3273.6 | 3268.7 | 3263.8 | 3258.9 | 3251.5 | 3239.4 | 3222.3 | 3192.9 | 3185.5 | 3175.8 | 3178.2 |
| 40° | 3048.7 | 3046.3 | 3031.6 | 3019.3 | 2994.8 | 2965.6 | 2924.0 | 2872.7 | 2831.1 | 2782.2 | 2740.7 |
| 42.5° | 2799.3 | 2796.8 | 2784.6 | 2762.6 | 2735.7 | 2691.7 | 2625.7 | 2557.3 | 2474.2 | 2400.8 | 2325.1 |
| 45° | 2505.9 | 2513.2 | 2496.1 | 2471.7 | 2439.9 | 2398.3 | 2325.1 | 2241.8 | 2158.7 | 2063.4 | 1968.0 |
| 47.5° | 2200.3 | 2197.9 | 2185.7 | 2171.0 | 2144.1 | 2102.6 | 2053.7 | 1963.2 | 1875.1 | 1787.2 | 1689.4 |
| 50° | 1916.7 | 1906.9 | 1902.0 | 1887.4 | 1870.3 | 1836.1 | 1784.7 | 1711.3 | 1633.1 | 1550.0 | 1459.5 |
| 52.5° | 1647.8 | 1647.8 | 1635.5 | 1625.8 | 1611.1 | 1584.2 | 1540.2 | 1481.6 | 1415.6 | 1337.3 | 1242.0 |
| 55° | 1422.9 | 1418.0 | 1405.8 | 1393.5 | 1378.8 | 1361.7 | 1322.7 | 1273.8 | 1202.8 | 1127.1 | 1043.9 |
| 57.5° | 1183.3 | 1180.8 | 1176.0 | 1161.3 | 1153.9 | 1136.8 | 1092.8 | 1043.9 | 982.9 | 916.8 | 848.3 |
| 60° | 968.2 | 958.4 | 948.5 | 938.8 | 926.6 | 909.5 | 880.1 | 838.5 | 787.2 | 728.6 | 660.1 |
| 62.5° | 775.1 | 789.6 | 760.4 | 760.4 | 735.9 | 721.2 | 694.3 | 669.9 | 616.1 | 562.3 | 503.7 |
| 65° | 603.9 | 603.9 | 591.6 | 581.8 | 567.1 | 550.0 | 523.2 | 498.7 | 459.6 | 418.0 | 376.5 |
| 67.5° | 462.1 | 459.6 | 447.4 | 437.6 | 425.4 | 415.6 | 396.1 | 366.7 | 337.4 | 303.2 | 268.9 |
| 70° | 339.8 | 337.4 | 334.9 | 317.8 | 308.0 | 295.9 | 281.2 | 261.6 | 239.6 | 215.1 | 183.3 |
| 72.5° | 244.4 | 244.4 | 237.2 | 229.8 | 220.1 | 210.2 | 195.6 | 183.3 | 163.8 | 146.7 | 124.7 |
| 75° | 156.5 | 154.1 | 154.1 | 141.8 | 141.8 | 127.1 | 117.3 | 110.0 | 100.2 | 90.5 | 70.9 |
| 77.5° | 112.5 | 110.0 | 107.6 | 102.6 | 97.8 | 92.9 | 85.5 | 75.8 | 68.4 | 58.7 | 51.3 |
| 80° | 75.8 | 70.9 | 68.4 | 68.4 | 61.1 | 58.7 | 61.1 | 46.5 | 44.0 | 36.6 | 31.8 |
| 82.5° | 46.5 | 46.5 | 44.0 | 44.0 | 41.6 | 39.1 | 31.8 | 31.8 | 29.4 | 26.9 | 22.0 |
| 85° | 24.5 | 31.8 | 22.0 | 24.5 | 22.0 | 24.5 | 22.0 | 17.1 | 14.7 | 12.2 | 12.2 |
| 87.5° | 14.7 | 9.8 | 9.8 | 14.7 | 12.2 | 9.8 | 9.8 | 9.8 | 7.3 | 4.9 | 4.9 |
| 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: P249714

CATALOG NUMBER: LSR8B80D010 EC8B80835 8LBSWOLI

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5231.8 | 5231.8 | 5231.8 | 5231.8 | 5231.8 | 5231.8 | 5231.8 | 5231.8 | 5231.8 | 5231.8 | 5231.8 |
| 2.5° | 5151.2 | 5168.3 | 5165.8 | 5187.9 | 5195.2 | 5212.3 | 5212.3 | 5224.5 | 5231.8 | 5248.9 | 5263.6 |
| 5° | 5029.0 | 5055.8 | 5063.2 | 5090.1 | 5112.1 | 5139.0 | 5156.1 | 5182.9 | 5207.4 | 5244.1 | 5278.3 |
| 7.5° | 4953.2 | 4975.1 | 4989.8 | 5021.6 | 5046.1 | 5075.4 | 5104.7 | 5141.4 | 5175.6 | 5219.7 | 5268.6 |
| 10° | 4916.5 | 4945.9 | 4967.8 | 4999.6 | 5029.0 | 5060.8 | 5090.1 | 5131.6 | 5170.8 | 5227.0 | 5280.7 |
| 12.5° | 4906.7 | 4940.9 | 4967.8 | 5011.9 | 5041.1 | 5075.4 | 5109.6 | 5156.1 | 5197.6 | 5256.3 | 5317.5 |
| 15° | 4906.7 | 4953.2 | 4989.8 | 5038.7 | 5072.9 | 5116.9 | 5153.7 | 5200.0 | 5246.5 | 5307.6 | 5366.3 |
| 17.5° | 4896.9 | 4953.2 | 4999.6 | 5055.8 | 5099.8 | 5143.9 | 5190.3 | 5234.4 | 5283.2 | 5341.9 | 5407.8 |
| 20° | 4857.8 | 4928.7 | 4984.9 | 5050.9 | 5097.4 | 5146.3 | 5192.8 | 5241.6 | 5293.0 | 5354.1 | 5410.4 |
| 22.5° | 4789.4 | 4872.5 | 4936.1 | 5006.9 | 5060.8 | 5109.6 | 5156.1 | 5205.0 | 5261.2 | 5319.9 | 5378.6 |
| 25° | 4698.9 | 4777.1 | 4845.6 | 4918.9 | 4972.7 | 5026.5 | 5070.5 | 5126.8 | 5178.1 | 5234.4 | 5280.7 |
| 27.5° | 4561.9 | 4645.1 | 4711.1 | 4787.0 | 4835.8 | 4887.2 | 4923.8 | 4970.3 | 5019.2 | 5065.6 | 5102.3 |
| 30° | 4356.7 | 4432.4 | 4500.9 | 4569.3 | 4618.2 | 4654.9 | 4694.0 | 4730.7 | 4762.5 | 4794.2 | 4826.0 |
| 32.5° | 4055.9 | 4124.4 | 4190.4 | 4253.9 | 4293.1 | 4324.9 | 4354.1 | 4376.2 | 4393.3 | 4410.4 | 4412.8 |
| 35° | 3642.8 | 3698.9 | 3740.5 | 3796.8 | 3833.5 | 3862.8 | 3862.8 | 3872.5 | 3870.1 | 3862.8 | 3855.4 |
| 37.5° | 3180.7 | 3202.6 | 3219.7 | 3241.8 | 3244.2 | 3244.2 | 3229.6 | 3217.3 | 3197.8 | 3192.9 | 3178.2 |
| 40° | 2699.1 | 2669.7 | 2647.7 | 2618.4 | 2601.3 | 2564.5 | 2532.9 | 2510.8 | 2479.0 | 2474.2 | 2469.3 |
| 42.5° | 2241.8 | 2173.4 | 2112.3 | 2061.0 | 2002.3 | 1950.9 | 1904.5 | 1870.3 | 1845.9 | 1843.3 | 1845.9 |
| 45° | 1870.3 | 1792.0 | 1701.5 | 1630.7 | 1564.7 | 1501.1 | 1440.0 | 1398.5 | 1376.4 | 1371.5 | 1376.4 |
| 47.5° | 1589.1 | 1498.7 | 1410.6 | 1329.9 | 1259.1 | 1188.1 | 1127.1 | 1070.8 | 1043.9 | 1036.6 | 1034.2 |
| 50° | 1366.7 | 1273.8 | 1180.8 | 1097.7 | 1019.5 | 948.5 | 872.8 | 819.0 | 784.8 | 772.5 | 762.8 |
| 52.5° | 1149.1 | 1066.0 | 970.6 | 885.0 | 806.7 | 723.6 | 645.4 | 584.3 | 550.0 | 535.5 | 525.6 |
| 55° | 958.4 | 875.3 | 787.2 | 704.1 | 621.0 | 537.9 | 459.6 | 400.9 | 364.3 | 347.2 | 334.9 |
| 57.5° | 765.2 | 687.0 | 611.2 | 528.1 | 459.6 | 379.0 | 300.7 | 249.4 | 217.6 | 198.0 | 188.3 |
| 60° | 591.6 | 530.5 | 464.5 | 396.1 | 330.1 | 264.1 | 200.5 | 151.5 | 127.1 | 112.5 | 100.2 |
| 62.5° | 447.4 | 396.1 | 352.0 | 293.3 | 242.0 | 185.8 | 137.0 | 97.8 | 75.8 | 63.6 | 58.7 |
| 65° | 322.7 | 283.6 | 244.4 | 207.8 | 171.2 | 129.6 | 92.9 | 63.6 | 44.0 | 36.6 | 34.2 |
| 67.5° | 229.8 | 198.0 | 168.7 | 144.2 | 117.3 | 92.9 | 66.0 | 44.0 | 34.2 | 29.4 | 26.9 |
| 70° | 161.3 | 137.0 | 117.3 | 95.4 | 78.2 | 61.1 | 51.3 | 31.8 | 19.5 | 22.0 | 17.1 |
| 72.5° | 107.6 | 90.5 | 80.7 | 66.0 | 53.7 | 44.0 | 31.8 | 22.0 | 22.0 | 17.1 | 14.7 |
| 75° | 58.7 | 53.7 | 41.6 | 31.8 | 26.9 | 24.5 | 9.8 | 4.9 | 2.4 | 7.3 | 2.4 |
| 77.5° | 41.6 | 36.6 | 31.8 | 26.9 | 22.0 | 17.1 | 9.8 | 9.8 | 7.3 | 9.8 | 4.9 |
| 80° | 26.9 | 22.0 | 19.5 | 19.5 | 12.2 | 7.3 | 4.9 | 4.9 | 7.3 | 2.4 | 2.4 |
| 82.5° | 17.1 | 14.7 | 12.2 | 12.2 | 12.2 | 7.3 | 7.3 | 7.3 | 7.3 | 4.9 | 4.9 |
| 85° | 9.8 | 7.3 | 4.9 | 4.9 | 2.4 | 4.9 | 0.0 | 2.4 | 2.4 | 0.0 | 0.0 |
| 87.5° | 4.9 | 2.4 | 2.4 | 2.4 | 2.4 | 0.0 | 0.0 | 2.4 | 0.0 | 2.4 | 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: P249714

CATALOG NUMBER: LSR8B80D010 EC8B80835 8LBSWOLI

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5231.8 | 5231.8 | 5231.8 | 5231.8 | 5231.8 | 5231.8 | 5231.8 | 5231.8 | 5231.8 | 5231.8 | 5231.8 |
| 2.5° | 5273.4 | 5283.2 | 5295.4 | 5305.2 | 5327.2 | 5332.1 | 5341.9 | 5351.7 | 5359.0 | 5366.3 | 5368.8 |
| 5° | 5307.6 | 5344.3 | 5378.6 | 5415.2 | 5461.7 | 5493.5 | 5530.1 | 5561.9 | 5593.7 | 5620.6 | 5640.1 |
| 7.5° | 5317.5 | 5373.6 | 5425.1 | 5488.5 | 5557.0 | 5615.7 | 5676.8 | 5737.9 | 5801.5 | 5850.4 | 5892.0 |
| 10° | 5337.0 | 5405.4 | 5471.4 | 5547.2 | 5635.3 | 5713.5 | 5789.2 | 5869.9 | 5950.6 | 6019.1 | 6080.3 |
| 12.5° | 5371.2 | 5447.0 | 5517.9 | 5601.1 | 5691.5 | 5779.5 | 5862.6 | 5953.1 | 6038.7 | 6114.5 | 6182.9 |
| 15° | 5427.5 | 5498.3 | 5566.8 | 5645.0 | 5735.5 | 5816.2 | 5899.3 | 5987.3 | 6072.9 | 6151.1 | 6214.7 |
| 17.5° | 5464.1 | 5530.1 | 5598.5 | 5669.5 | 5745.3 | 5818.6 | 5896.8 | 5975.1 | 6053.3 | 6124.2 | 6182.9 |
| 20° | 5464.1 | 5527.7 | 5579.0 | 5642.6 | 5713.5 | 5777.1 | 5840.7 | 5909.1 | 5977.5 | 6036.2 | 6092.4 |
| 22.5° | 5420.1 | 5481.2 | 5520.3 | 5569.3 | 5630.3 | 5684.2 | 5718.4 | 5794.2 | 5845.5 | 5896.8 | 5938.4 |
| 25° | 5317.5 | 5361.5 | 5393.3 | 5427.5 | 5476.4 | 5513.0 | 5542.4 | 5586.4 | 5637.7 | 5657.3 | 5686.6 |
| 27.5° | 5131.6 | 5163.4 | 5180.5 | 5187.9 | 5212.3 | 5231.8 | 5236.8 | 5256.3 | 5278.3 | 5283.2 | 5295.4 |
| 30° | 4838.3 | 4840.7 | 4833.3 | 4830.9 | 4818.7 | 4804.1 | 4801.5 | 4799.1 | 4789.4 | 4779.6 | 4782.0 |
| 32.5° | 4395.7 | 4383.5 | 4354.1 | 4322.5 | 4290.7 | 4256.4 | 4236.8 | 4212.4 | 4197.7 | 4183.1 | 4166.0 |
| 35° | 3823.6 | 3794.3 | 3752.8 | 3713.6 | 3677.0 | 3650.0 | 3606.1 | 3591.4 | 3576.8 | 3557.2 | 3552.3 |
| 37.5° | 3151.3 | 3134.2 | 3095.1 | 3065.8 | 3046.3 | 3034.0 | 3011.9 | 2997.4 | 2997.4 | 2990.0 | 2985.1 |
| 40° | 2457.0 | 2452.1 | 2437.5 | 2444.8 | 2435.0 | 2439.9 | 2437.5 | 2432.5 | 2444.8 | 2444.8 | 2449.7 |
| 42.5° | 1843.3 | 1845.9 | 1853.2 | 1858.0 | 1872.7 | 1875.1 | 1887.4 | 1887.4 | 1894.8 | 1902.0 | 1906.9 |
| 45° | 1371.5 | 1381.3 | 1381.3 | 1391.1 | 1405.8 | 1408.2 | 1413.0 | 1415.6 | 1420.4 | 1432.7 | 1437.5 |
| 47.5° | 1029.2 | 1031.7 | 1031.7 | 1034.2 | 1039.0 | 1043.9 | 1041.5 | 1043.9 | 1051.3 | 1046.3 | 1051.3 |
| 50° | 760.4 | 762.8 | 755.4 | 748.1 | 755.4 | 755.4 | 753.0 | 745.7 | 753.0 | 743.3 | 748.1 |
| 52.5° | 518.3 | 515.8 | 508.5 | 511.0 | 506.1 | 503.7 | 503.7 | 498.7 | 498.7 | 498.7 | 489.0 |
| 55° | 327.7 | 327.7 | 322.7 | 322.7 | 320.3 | 315.4 | 313.0 | 310.4 | 308.0 | 305.6 | 305.6 |
| 57.5° | 183.3 | 185.8 | 178.5 | 176.0 | 178.5 | 176.0 | 171.2 | 171.2 | 171.2 | 163.8 | 168.7 |
| 60° | 100.2 | 97.8 | 95.4 | 92.9 | 90.5 | 92.9 | 92.9 | 88.1 | 88.1 | 88.1 | 90.5 |
| 62.5° | 53.7 | 53.7 | 51.3 | 51.3 | 48.9 | 48.9 | 53.7 | 46.5 | 48.9 | 46.5 | 48.9 |
| 65° | 29.4 | 36.6 | 26.9 | 26.9 | 34.2 | 31.8 | 29.4 | 29.4 | 31.8 | 26.9 | 29.4 |
| 67.5° | 31.8 | 22.0 | 19.5 | 22.0 | 19.5 | 19.5 | 19.5 | 24.5 | 22.0 | 17.1 | 22.0 |
| 70° | 14.7 | 17.1 | 17.1 | 12.2 | 19.5 | 9.8 | 17.1 | 9.8 | 14.7 | 12.2 | 14.7 |
| 72.5° | 14.7 | 14.7 | 14.7 | 9.8 | 14.7 | 9.8 | 12.2 | 12.2 | 9.8 | 9.8 | 14.7 |
| 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° | 4.9 | 4.9 | 2.4 | 2.4 | 2.4 | 2.4 | 4.9 | 4.9 | 4.9 | 0.0 | 2.4 |
| 80° | 4.9 | 4.9 | 0.0 | 2.4 | 0.0 | 0.0 | 2.4 | 0.0 | 2.4 | 0.0 | 4.9 |
| 82.5° | 2.4 | 4.9 | 2.4 | 2.4 | 4.9 | 4.9 | 4.9 | 2.4 | 2.4 | 2.4 | 2.4 |
| 85° | 0.0 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 4.9 | 0.0 | 0.0 | 0.0 | 2.4 |
| 87.5° | 0.0 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 2.4 | 2.4 | 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: P249714

CATALOG NUMBER: LSR8B80D010 EC8B80835 8LBSWOLI

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 5231.8 | 5231.8 | 5231.8 | 5231.8 |
| 2.5° | 5371.2 | 5373.6 | 5378.6 | 5376.1 |
| 5° | 5654.8 | 5674.4 | 5684.2 | 5681.8 |
| 7.5° | 5921.3 | 5955.6 | 5975.1 | 5975.1 |
| 10° | 6126.6 | 6165.8 | 6195.1 | 6200.0 |
| 12.5° | 6236.6 | 6280.7 | 6319.8 | 6310.0 |
| 15° | 6268.4 | 6312.5 | 6351.5 | 6344.2 |
| 17.5° | 6231.8 | 6275.8 | 6305.2 | 6300.2 |
| 20° | 6131.6 | 6168.2 | 6197.6 | 6195.1 |
| 22.5° | 5975.1 | 6006.9 | 6031.3 | 6028.8 |
| 25° | 5711.0 | 5733.1 | 5752.6 | 5742.8 |
| 27.5° | 5305.2 | 5312.5 | 5324.7 | 5310.1 |
| 30° | 4764.9 | 4769.7 | 4774.7 | 4772.3 |
| 32.5° | 4158.6 | 4156.1 | 4151.3 | 4146.3 |
| 35° | 3545.0 | 3545.0 | 3547.4 | 3532.7 |
| 37.5° | 2987.5 | 2985.1 | 2992.4 | 2985.1 |
| 40° | 2454.6 | 2452.1 | 2461.9 | 2449.7 |
| 42.5° | 1914.3 | 1921.6 | 1924.0 | 1924.0 |
| 45° | 1440.0 | 1442.4 | 1444.8 | 1444.8 |
| 47.5° | 1051.3 | 1053.7 | 1066.0 | 1051.3 |
| 50° | 743.3 | 745.7 | 748.1 | 743.3 |
| 52.5° | 491.4 | 493.9 | 491.4 | 484.0 |
| 55° | 300.7 | 303.2 | 303.2 | 303.2 |
| 57.5° | 161.3 | 163.8 | 163.8 | 161.3 |
| 60° | 88.1 | 85.5 | 88.1 | 83.1 |
| 62.5° | 46.5 | 51.3 | 48.9 | 44.0 |
| 65° | 29.4 | 29.4 | 29.4 | 34.2 |
| 67.5° | 24.5 | 19.5 | 22.0 | 17.1 |
| 70° | 14.7 | 17.1 | 17.1 | 12.2 |
| 72.5° | 12.2 | 12.2 | 12.2 | 14.7 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 4.9 | 4.9 | 4.9 | 2.4 |
| 80° | 2.4 | 0.0 | 2.4 | 0.0 |
| 82.5° | 2.4 | 2.4 | 4.9 | 2.4 |
| 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)