

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: P249229

Luminaire Tested: **LSR8B90D010 EC8B90850 8LBDW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249229  
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: LSR8B90D010 EC8B90850 8LBDW0WMH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9633.0 lumens  
Efficiency: N/A  
Efficacy: 111.9 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

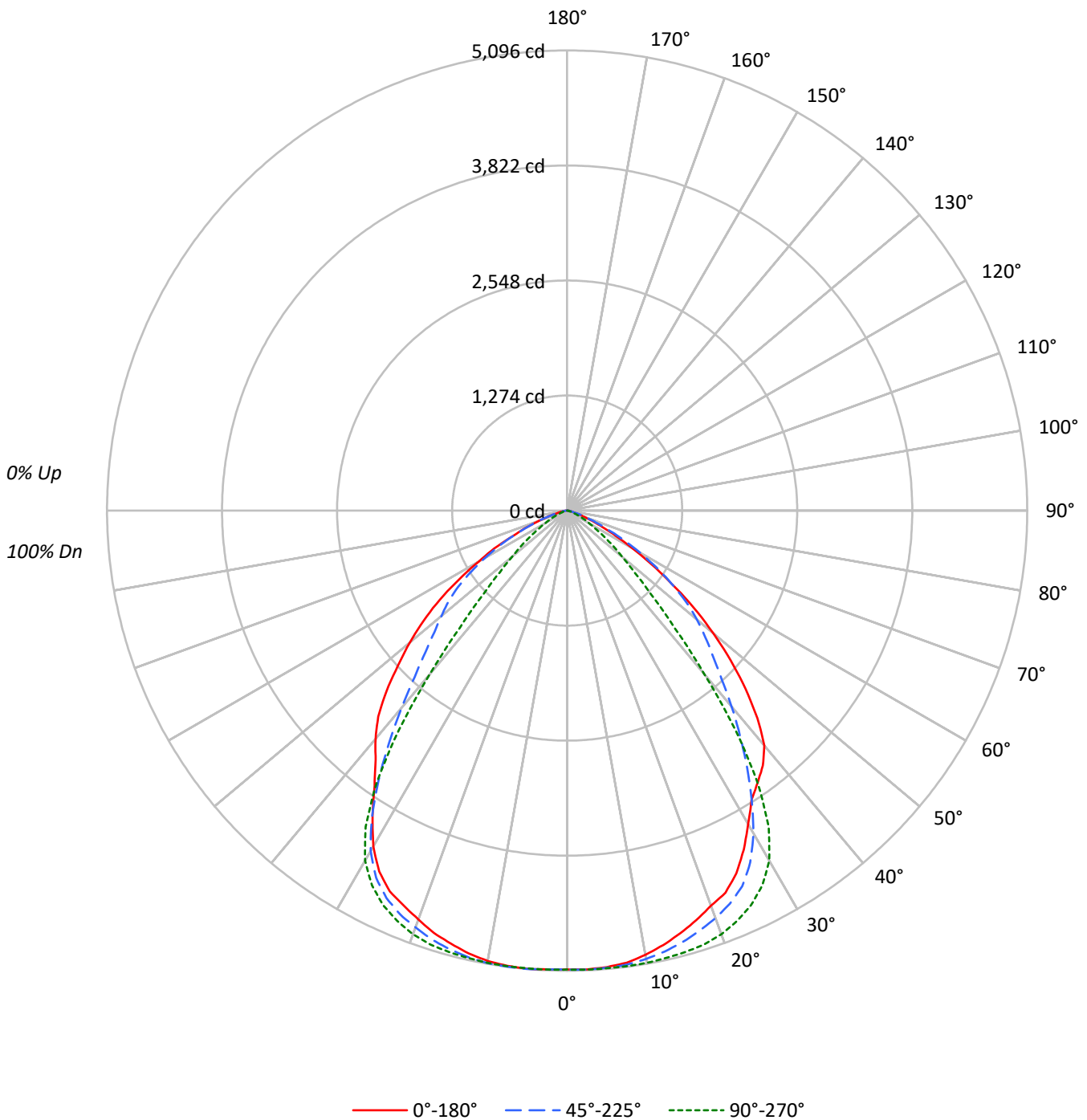
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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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  | 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°  | 156729 | 156729 | 156729 |
| 5°  | 157074 | 157494 | 157665 |
| 10° | 156410 | 159231 | 158548 |
| 15° | 154679 | 161558 | 158513 |
| 20° | 152821 | 163830 | 158101 |
| 25° | 150836 | 164020 | 158263 |
| 30° | 142701 | 159408 | 152899 |
| 35° | 138440 | 138542 | 139980 |
| 40° | 136727 | 95321  | 132882 |
| 45° | 121826 | 57224  | 123492 |
| 50° | 101299 | 38086  | 109152 |
| 55° | 75976  | 26257  | 92545  |
| 60° | 51484  | 17497  | 69826  |
| 65° | 31054  | 11346  | 47974  |
| 70° | 17220  | 6149   | 29518  |
| 75° | 7804   | 2597   | 15274  |
| 80° | 6784   | 2912   | 10655  |
| 85° | 7713   | 3856   | 10614  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 485.1  | 5.0       |
| 10°-20°   | 1408.7 | 14.6      |
| 20°-30°   | 2138.1 | 22.2      |
| 30°-40°   | 2245.6 | 23.3      |
| 40°-50°   | 1683.6 | 17.5      |
| 50°-60°   | 1080.3 | 11.2      |
| 60°-70°   | 462.1  | 4.8       |
| 70°-80°   | 109.2  | 1.1       |
| 80°-90°   | 20.3   | 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°    | 4031.8 | 41.9      |
| 0°-40°    | 6277.5 | 65.2      |
| 0°-60°    | 9041.4 | 93.9      |
| 0°-90°    | 9633.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 9633.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 5083 | 5083 | 5083 | 5083 | 5083 |      |
| 5°  | 5074 | 5083 | 5088 | 5096 | 5094 | 482  |
| 15° | 4845 | 4946 | 5061 | 5028 | 4965 | 1367 |
| 25° | 4433 | 4589 | 4821 | 4733 | 4652 | 2025 |
| 35° | 3678 | 3473 | 3680 | 3637 | 3718 | 2308 |
| 45° | 2794 | 2283 | 1312 | 2218 | 2832 | 2139 |
| 55° | 1413 | 1413 | 488  | 1473 | 1721 | 1282 |
| 65° | 426  | 502  | 156  | 647  | 658  | 454  |
| 75° | 66   | 76   | 22   | 131  | 128  | 95   |
| 85° | 22   | 14   | 11   | 22   | 30   | 23   |
| 90° | 0    | 0    | 0    | 0    | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5082.6 | 5082.6 | 5082.6 | 5082.6 | 5082.6 | 5082.6 | 5082.6 | 5082.6 | 5082.6 | 5082.6 | 5082.6 |
| 2.5°  | 5085.3 | 5090.8 | 5088.0 | 5088.0 | 5085.3 | 5088.0 | 5088.0 | 5093.5 | 5093.5 | 5088.0 | 5085.3 |
| 5°    | 5074.4 | 5079.8 | 5079.8 | 5074.4 | 5074.4 | 5088.0 | 5079.8 | 5085.3 | 5085.3 | 5082.6 | 5082.6 |
| 7.5°  | 5049.8 | 5049.8 | 5060.7 | 5052.6 | 5052.6 | 5060.7 | 5058.0 | 5063.5 | 5068.9 | 5071.7 | 5071.7 |
| 10°   | 4995.2 | 5000.7 | 5003.5 | 5003.5 | 5006.2 | 5014.3 | 5019.8 | 5030.8 | 5036.2 | 5041.6 | 5044.4 |
| 12.5° | 4927.1 | 4935.2 | 4938.0 | 4935.2 | 4943.4 | 4954.3 | 4968.0 | 4981.6 | 4989.8 | 5000.7 | 5008.9 |
| 15°   | 4845.2 | 4845.2 | 4850.7 | 4858.9 | 4864.3 | 4880.7 | 4894.3 | 4910.7 | 4932.5 | 4946.2 | 4959.8 |
| 17.5° | 4755.2 | 4760.7 | 4768.8 | 4768.8 | 4779.8 | 4807.0 | 4815.2 | 4839.8 | 4864.3 | 4878.0 | 4905.3 |
| 20°   | 4657.0 | 4662.4 | 4670.6 | 4676.1 | 4689.7 | 4711.5 | 4727.9 | 4749.7 | 4777.0 | 4801.6 | 4828.8 |
| 22.5° | 4580.6 | 4569.7 | 4575.1 | 4580.6 | 4594.3 | 4613.3 | 4632.4 | 4659.7 | 4687.0 | 4711.5 | 4738.8 |
| 25°   | 4433.2 | 4436.0 | 4444.2 | 4449.6 | 4466.0 | 4482.4 | 4504.2 | 4536.9 | 4561.5 | 4588.8 | 4618.8 |
| 27.5° | 4234.1 | 4236.9 | 4250.5 | 4250.5 | 4264.1 | 4291.4 | 4305.0 | 4332.3 | 4365.1 | 4392.3 | 4427.8 |
| 30°   | 4007.7 | 4013.1 | 4013.1 | 4024.0 | 4032.2 | 4045.9 | 4059.5 | 4086.8 | 4103.2 | 4127.7 | 4176.8 |
| 32.5° | 3800.4 | 3805.8 | 3803.0 | 3800.4 | 3792.1 | 3789.4 | 3786.7 | 3792.1 | 3797.6 | 3805.8 | 3824.9 |
| 35°   | 3677.6 | 3663.9 | 3653.0 | 3633.9 | 3612.1 | 3584.8 | 3560.2 | 3527.5 | 3497.5 | 3472.9 | 3445.7 |
| 37.5° | 3560.2 | 3557.5 | 3541.2 | 3513.8 | 3470.2 | 3421.1 | 3363.9 | 3292.9 | 3221.9 | 3145.6 | 3071.9 |
| 40°   | 3396.6 | 3388.4 | 3374.7 | 3336.5 | 3287.4 | 3227.4 | 3151.0 | 3063.7 | 2949.1 | 2831.8 | 2711.8 |
| 42.5° | 3118.3 | 3121.0 | 3104.6 | 3074.6 | 3028.3 | 2970.9 | 2891.8 | 2796.4 | 2673.6 | 2534.4 | 2379.0 |
| 45°   | 2793.6 | 2793.6 | 2788.2 | 2763.6 | 2730.9 | 2684.5 | 2624.5 | 2545.4 | 2425.4 | 2283.4 | 2117.0 |
| 47.5° | 2455.3 | 2458.1 | 2449.9 | 2444.5 | 2430.8 | 2400.8 | 2357.1 | 2297.1 | 2212.6 | 2076.1 | 1909.7 |
| 50°   | 2111.6 | 2111.6 | 2125.2 | 2122.5 | 2122.5 | 2111.6 | 2092.5 | 2057.0 | 1983.4 | 1874.2 | 1718.8 |
| 52.5° | 1767.8 | 1773.3 | 1781.5 | 1792.4 | 1806.0 | 1827.9 | 1806.0 | 1789.7 | 1743.3 | 1658.7 | 1525.1 |
| 55°   | 1413.2 | 1418.6 | 1432.3 | 1451.4 | 1467.8 | 1489.6 | 1495.0 | 1495.0 | 1470.5 | 1413.2 | 1312.2 |
| 57.5° | 1110.4 | 1102.2 | 1113.1 | 1129.5 | 1151.3 | 1173.1 | 1189.5 | 1208.6 | 1205.8 | 1167.7 | 1085.8 |
| 60°   | 834.8  | 837.6  | 845.7  | 862.1  | 878.5  | 897.6  | 919.4  | 935.8  | 944.0  | 924.9  | 873.0  |
| 62.5° | 608.4  | 608.4  | 619.3  | 635.6  | 643.8  | 671.1  | 684.8  | 693.0  | 701.1  | 698.4  | 665.7  |
| 65°   | 425.6  | 431.0  | 436.5  | 444.7  | 452.9  | 469.2  | 477.4  | 493.8  | 499.3  | 502.0  | 477.4  |
| 67.5° | 300.1  | 291.9  | 297.4  | 302.8  | 311.0  | 322.0  | 338.3  | 338.3  | 346.5  | 346.5  | 330.1  |
| 70°   | 191.0  | 191.0  | 193.7  | 201.9  | 207.3  | 210.1  | 215.5  | 221.0  | 229.2  | 226.4  | 226.4  |
| 72.5° | 128.2  | 125.5  | 128.2  | 131.0  | 133.7  | 141.9  | 141.9  | 144.6  | 150.1  | 152.8  | 141.9  |
| 75°   | 65.5   | 68.2   | 73.6   | 71.0   | 79.1   | 73.6   | 76.4   | 84.6   | 81.8   | 76.4   | 76.4   |
| 77.5° | 54.5   | 54.5   | 54.5   | 51.9   | 57.3   | 57.3   | 54.5   | 60.0   | 57.3   | 57.3   | 54.5   |
| 80°   | 38.2   | 40.9   | 38.2   | 35.4   | 38.2   | 35.4   | 35.4   | 35.4   | 35.4   | 35.4   | 32.7   |
| 82.5° | 30.0   | 24.6   | 27.3   | 24.6   | 27.3   | 27.3   | 24.6   | 21.8   | 21.8   | 24.6   | 21.8   |
| 85°   | 21.8   | 16.4   | 19.1   | 19.1   | 16.4   | 16.4   | 16.4   | 16.4   | 16.4   | 13.6   | 13.6   |
| 87.5° | 13.6   | 8.2    | 8.2    | 8.2    | 10.9   | 10.9   | 10.9   | 8.2    | 10.9   | 10.9   | 5.5    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5082.6 | 5082.6 | 5082.6 | 5082.6 | 5082.6 | 5082.6 | 5082.6 | 5082.6 | 5082.6 | 5082.6 | 5082.6 |
| 2.5°  | 5090.8 | 5088.0 | 5093.5 | 5090.8 | 5090.8 | 5088.0 | 5090.8 | 5088.0 | 5093.5 | 5082.6 | 5085.3 |
| 5°    | 5090.8 | 5085.3 | 5088.0 | 5090.8 | 5093.5 | 5088.0 | 5088.0 | 5088.0 | 5093.5 | 5088.0 | 5090.8 |
| 7.5°  | 5079.8 | 5077.1 | 5085.3 | 5090.8 | 5088.0 | 5085.3 | 5090.8 | 5088.0 | 5093.5 | 5090.8 | 5096.2 |
| 10°   | 5058.0 | 5060.7 | 5066.2 | 5074.4 | 5077.1 | 5079.8 | 5085.3 | 5085.3 | 5093.5 | 5082.6 | 5088.0 |
| 12.5° | 5025.3 | 5036.2 | 5049.8 | 5055.3 | 5066.2 | 5066.2 | 5071.7 | 5074.4 | 5079.8 | 5077.1 | 5085.3 |
| 15°   | 4984.4 | 4998.0 | 5014.3 | 5028.0 | 5041.6 | 5049.8 | 5058.0 | 5060.7 | 5068.9 | 5060.7 | 5063.5 |
| 17.5° | 4935.2 | 4951.6 | 4976.2 | 4992.5 | 5014.3 | 5022.5 | 5033.4 | 5038.9 | 5047.1 | 5041.6 | 5044.4 |
| 20°   | 4867.0 | 4886.2 | 4913.4 | 4938.0 | 4951.6 | 4970.7 | 4984.4 | 4992.5 | 4998.0 | 4992.5 | 4995.2 |
| 22.5° | 4771.6 | 4798.9 | 4834.3 | 4853.4 | 4880.7 | 4897.1 | 4899.8 | 4918.9 | 4932.5 | 4918.9 | 4924.4 |
| 25°   | 4659.7 | 4687.0 | 4714.3 | 4755.2 | 4779.8 | 4798.9 | 4817.9 | 4820.7 | 4834.3 | 4831.6 | 4828.8 |
| 27.5° | 4474.2 | 4509.7 | 4556.0 | 4588.8 | 4621.5 | 4651.5 | 4673.4 | 4678.8 | 4692.5 | 4687.0 | 4689.7 |
| 30°   | 4220.4 | 4258.7 | 4302.3 | 4354.1 | 4400.5 | 4430.5 | 4457.8 | 4476.9 | 4490.5 | 4482.4 | 4479.6 |
| 32.5° | 3860.4 | 3898.5 | 3944.9 | 3996.7 | 4051.3 | 4094.9 | 4127.7 | 4152.3 | 4168.6 | 4163.2 | 4149.5 |
| 35°   | 3448.4 | 3459.3 | 3489.3 | 3530.3 | 3576.6 | 3623.0 | 3653.0 | 3680.3 | 3699.4 | 3704.8 | 3704.8 |
| 37.5° | 3025.5 | 2990.1 | 2968.3 | 2968.3 | 2995.5 | 3014.6 | 3041.9 | 3058.3 | 3088.3 | 3099.2 | 3107.4 |
| 40°   | 2616.3 | 2534.4 | 2458.1 | 2400.8 | 2362.6 | 2359.9 | 2359.9 | 2368.0 | 2395.3 | 2430.8 | 2463.5 |
| 42.5° | 2250.7 | 2119.8 | 2002.5 | 1896.1 | 1819.7 | 1776.0 | 1757.0 | 1759.7 | 1781.5 | 1814.2 | 1868.8 |
| 45°   | 1958.8 | 1795.1 | 1647.8 | 1519.6 | 1415.9 | 1347.7 | 1315.0 | 1312.2 | 1328.6 | 1366.8 | 1426.9 |
| 47.5° | 1732.4 | 1557.8 | 1391.3 | 1244.0 | 1132.2 | 1058.5 | 1020.3 | 1009.4 | 1020.3 | 1055.8 | 1126.7 |
| 50°   | 1544.1 | 1364.1 | 1192.2 | 1039.4 | 919.4  | 843.0  | 807.5  | 793.9  | 807.5  | 837.6  | 908.5  |
| 52.5° | 1369.5 | 1184.0 | 1023.1 | 875.7  | 747.5  | 682.0  | 643.8  | 635.6  | 643.8  | 679.3  | 736.6  |
| 55°   | 1167.7 | 1009.4 | 851.2  | 703.9  | 592.0  | 526.6  | 496.5  | 488.4  | 496.5  | 529.3  | 589.3  |
| 57.5° | 968.5  | 832.1  | 693.0  | 559.3  | 463.8  | 406.5  | 379.2  | 368.3  | 387.4  | 409.2  | 480.2  |
| 60°   | 783.0  | 673.9  | 556.5  | 439.2  | 360.1  | 308.3  | 286.4  | 283.7  | 289.2  | 316.5  | 365.5  |
| 62.5° | 613.9  | 523.8  | 431.0  | 335.6  | 270.1  | 248.3  | 221.0  | 218.3  | 223.7  | 240.0  | 278.3  |
| 65°   | 442.0  | 384.7  | 313.7  | 245.5  | 193.7  | 163.7  | 152.8  | 155.5  | 160.9  | 171.9  | 207.3  |
| 67.5° | 308.3  | 267.3  | 218.3  | 171.9  | 133.7  | 120.0  | 109.1  | 106.4  | 109.1  | 128.2  | 147.3  |
| 70°   | 207.3  | 182.8  | 147.3  | 131.0  | 92.8   | 73.6   | 76.4   | 68.2   | 79.1   | 79.1   | 95.5   |
| 72.5° | 136.4  | 120.0  | 98.2   | 76.4   | 65.5   | 51.9   | 51.9   | 49.1   | 54.5   | 57.3   | 71.0   |
| 75°   | 71.0   | 54.5   | 54.5   | 38.2   | 27.3   | 13.6   | 24.6   | 21.8   | 19.1   | 21.8   | 27.3   |
| 77.5° | 49.1   | 40.9   | 38.2   | 30.0   | 27.3   | 21.8   | 21.8   | 21.8   | 21.8   | 24.6   | 27.3   |
| 80°   | 30.0   | 30.0   | 21.8   | 19.1   | 16.4   | 13.6   | 16.4   | 16.4   | 16.4   | 16.4   | 19.1   |
| 82.5° | 19.1   | 16.4   | 16.4   | 13.6   | 13.6   | 10.9   | 10.9   | 10.9   | 10.9   | 10.9   | 16.4   |
| 85°   | 16.4   | 10.9   | 10.9   | 8.2    | 10.9   | 19.1   | 8.2    | 10.9   | 10.9   | 10.9   | 8.2    |
| 87.5° | 5.5    | 8.2    | 8.2    | 8.2    | 5.5    | 2.7    | 5.5    | 8.2    | 8.2    | 13.6   | 10.9   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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CATALOG NUMBER: LSR8B90D010 EC8B90850 8LBDW0WMH

**CANDELA DISTRIBUTION (continued):**

|       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5082.6 | 5082.6 | 5082.6 | 5082.6 | 5082.6 | 5082.6 | 5082.6 | 5082.6 | 5082.6 | 5082.6 | 5082.6 |
| 2.5°  | 5090.8 | 5093.5 | 5093.5 | 5090.8 | 5090.8 | 5085.3 | 5096.2 | 5088.0 | 5090.8 | 5101.7 | 5093.5 |
| 5°    | 5096.2 | 5098.9 | 5098.9 | 5096.2 | 5096.2 | 5096.2 | 5098.9 | 5098.9 | 5096.2 | 5093.5 | 5098.9 |
| 7.5°  | 5107.1 | 5104.4 | 5104.4 | 5098.9 | 5098.9 | 5093.5 | 5098.9 | 5090.8 | 5096.2 | 5090.8 | 5098.9 |
| 10°   | 5093.5 | 5096.2 | 5093.5 | 5090.8 | 5090.8 | 5088.0 | 5088.0 | 5079.8 | 5082.6 | 5074.4 | 5079.8 |
| 12.5° | 5085.3 | 5082.6 | 5082.6 | 5077.1 | 5071.7 | 5066.2 | 5063.5 | 5055.3 | 5055.3 | 5036.2 | 5044.4 |
| 15°   | 5063.5 | 5066.2 | 5058.0 | 5047.1 | 5041.6 | 5028.0 | 5022.5 | 5011.6 | 5000.7 | 4987.1 | 4989.8 |
| 17.5° | 5044.4 | 5036.2 | 5025.3 | 5014.3 | 4992.5 | 4981.6 | 4970.7 | 4954.3 | 4948.9 | 4932.5 | 4927.1 |
| 20°   | 4987.1 | 4981.6 | 4968.0 | 4948.9 | 4935.2 | 4910.7 | 4899.8 | 4883.4 | 4869.8 | 4853.4 | 4845.2 |
| 22.5° | 4913.4 | 4907.9 | 4891.6 | 4872.5 | 4850.7 | 4839.8 | 4828.8 | 4798.9 | 4785.2 | 4768.8 | 4766.1 |
| 25°   | 4820.7 | 4812.5 | 4796.1 | 4774.3 | 4763.3 | 4733.4 | 4722.4 | 4700.6 | 4695.2 | 4678.8 | 4676.1 |
| 27.5° | 4678.8 | 4667.9 | 4648.8 | 4621.5 | 4602.4 | 4583.3 | 4572.4 | 4556.0 | 4550.6 | 4534.2 | 4531.5 |
| 30°   | 4466.0 | 4452.3 | 4414.2 | 4403.3 | 4370.5 | 4351.4 | 4351.4 | 4329.6 | 4332.3 | 4321.4 | 4321.4 |
| 32.5° | 4130.5 | 4108.6 | 4078.6 | 4056.8 | 4034.9 | 4024.0 | 4024.0 | 4015.8 | 4021.3 | 4021.3 | 4026.8 |
| 35°   | 3685.7 | 3655.8 | 3639.3 | 3625.7 | 3625.7 | 3636.6 | 3669.4 | 3677.6 | 3693.9 | 3707.6 | 3718.5 |
| 37.5° | 3115.5 | 3112.9 | 3131.9 | 3148.3 | 3189.2 | 3235.6 | 3292.9 | 3342.0 | 3388.4 | 3421.1 | 3453.8 |
| 40°   | 2499.0 | 2567.2 | 2621.8 | 2698.2 | 2760.9 | 2850.9 | 2954.6 | 3039.2 | 3118.3 | 3175.6 | 3235.6 |
| 42.5° | 1950.6 | 2037.9 | 2152.5 | 2264.4 | 2376.2 | 2499.0 | 2635.4 | 2752.7 | 2856.4 | 2935.5 | 2998.2 |
| 45°   | 1519.6 | 1639.6 | 1778.8 | 1920.6 | 2065.2 | 2218.0 | 2359.9 | 2479.9 | 2589.0 | 2670.9 | 2733.6 |
| 47.5° | 1224.9 | 1355.9 | 1514.1 | 1669.6 | 1833.3 | 1994.3 | 2152.5 | 2256.2 | 2346.2 | 2411.7 | 2469.0 |
| 50°   | 1012.1 | 1151.3 | 1317.7 | 1495.0 | 1658.7 | 1819.7 | 1956.1 | 2057.0 | 2130.7 | 2188.0 | 2223.4 |
| 52.5° | 845.7  | 993.0  | 1170.4 | 1347.7 | 1511.4 | 1658.7 | 1781.5 | 1857.9 | 1917.9 | 1958.8 | 1991.5 |
| 55°   | 698.4  | 840.3  | 1006.7 | 1173.1 | 1334.1 | 1473.2 | 1574.1 | 1631.5 | 1677.8 | 1702.4 | 1721.4 |
| 57.5° | 570.2  | 701.1  | 853.9  | 1006.7 | 1145.8 | 1260.4 | 1339.5 | 1396.8 | 1418.6 | 1437.7 | 1435.0 |
| 60°   | 447.4  | 570.2  | 709.3  | 840.3  | 960.3  | 1053.0 | 1110.4 | 1143.1 | 1159.4 | 1167.7 | 1162.2 |
| 62.5° | 351.9  | 463.8  | 570.2  | 684.8  | 772.1  | 851.2  | 905.8  | 905.8  | 913.9  | 916.7  | 924.9  |
| 65°   | 261.9  | 346.5  | 439.2  | 523.8  | 594.7  | 646.6  | 676.6  | 684.8  | 695.7  | 693.0  | 687.5  |
| 67.5° | 193.7  | 256.5  | 324.6  | 387.4  | 436.5  | 469.2  | 491.0  | 510.2  | 507.5  | 502.0  | 499.3  |
| 70°   | 133.7  | 174.6  | 234.6  | 272.8  | 308.3  | 341.0  | 346.5  | 349.2  | 351.9  | 354.7  | 349.2  |
| 72.5° | 92.8   | 122.8  | 155.5  | 188.2  | 210.1  | 223.7  | 237.4  | 240.0  | 240.0  | 240.0  | 237.4  |
| 75°   | 46.4   | 62.7   | 92.8   | 106.4  | 125.5  | 131.0  | 141.9  | 141.9  | 150.1  | 139.1  | 136.4  |
| 77.5° | 40.9   | 49.1   | 65.5   | 76.4   | 84.6   | 92.8   | 95.5   | 103.7  | 100.9  | 95.5   | 98.2   |
| 80°   | 24.6   | 30.0   | 40.9   | 46.4   | 57.3   | 60.0   | 62.7   | 65.5   | 62.7   | 65.5   | 65.5   |
| 82.5° | 19.1   | 21.8   | 27.3   | 27.3   | 35.4   | 35.4   | 38.2   | 38.2   | 40.9   | 40.9   | 40.9   |
| 85°   | 10.9   | 19.1   | 16.4   | 32.7   | 21.8   | 21.8   | 27.3   | 32.7   | 27.3   | 27.3   | 32.7   |
| 87.5° | 10.9   | 10.9   | 8.2    | 10.9   | 10.9   | 10.9   | 13.6   | 16.4   | 16.4   | 19.1   | 16.4   |
| 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: P249229

CATALOG NUMBER: LSR8B90D010 EC8B90850 8LBDW0WMH

**CANDELA DISTRIBUTION (continued):**

|       | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 5082.6 | 5082.6 | 5082.6 | 5082.6 |
| 2.5°  | 5090.8 | 5096.2 | 5088.0 | 5085.3 |
| 5°    | 5098.9 | 5098.9 | 5093.5 | 5093.5 |
| 7.5°  | 5098.9 | 5098.9 | 5090.8 | 5085.3 |
| 10°   | 5077.1 | 5077.1 | 5068.9 | 5063.5 |
| 12.5° | 5036.2 | 5036.2 | 5033.4 | 5025.3 |
| 15°   | 4984.4 | 4984.4 | 4973.4 | 4965.3 |
| 17.5° | 4913.4 | 4918.9 | 4905.3 | 4905.3 |
| 20°   | 4837.0 | 4834.3 | 4823.4 | 4817.9 |
| 22.5° | 4757.9 | 4752.5 | 4749.7 | 4733.4 |
| 25°   | 4673.4 | 4667.9 | 4659.7 | 4651.5 |
| 27.5° | 4528.8 | 4526.0 | 4517.8 | 4506.9 |
| 30°   | 4307.8 | 4305.0 | 4294.1 | 4294.1 |
| 32.5° | 4021.3 | 4018.6 | 4007.7 | 4010.4 |
| 35°   | 3723.9 | 3734.9 | 3729.4 | 3718.5 |
| 37.5° | 3475.7 | 3483.9 | 3489.3 | 3483.9 |
| 40°   | 3268.3 | 3292.9 | 3295.6 | 3301.1 |
| 42.5° | 3047.4 | 3080.1 | 3091.0 | 3096.4 |
| 45°   | 2782.7 | 2812.7 | 2837.3 | 2831.8 |
| 47.5° | 2512.6 | 2534.4 | 2556.3 | 2539.9 |
| 50°   | 2253.5 | 2267.1 | 2275.3 | 2275.3 |
| 52.5° | 2008.0 | 2008.0 | 2005.2 | 2008.0 |
| 55°   | 1726.9 | 1726.9 | 1716.0 | 1721.4 |
| 57.5° | 1432.3 | 1437.7 | 1429.5 | 1415.9 |
| 60°   | 1159.4 | 1145.8 | 1140.4 | 1132.2 |
| 62.5° | 903.0  | 903.0  | 884.0  | 908.5  |
| 65°   | 676.6  | 668.4  | 660.2  | 657.5  |
| 67.5° | 491.0  | 488.4  | 480.2  | 477.4  |
| 70°   | 346.5  | 335.6  | 332.8  | 327.4  |
| 72.5° | 231.9  | 231.9  | 226.4  | 226.4  |
| 75°   | 141.9  | 128.2  | 125.5  | 128.2  |
| 77.5° | 98.2   | 95.5   | 95.5   | 92.8   |
| 80°   | 65.5   | 62.7   | 68.2   | 60.0   |
| 82.5° | 40.9   | 43.7   | 40.9   | 43.7   |
| 85°   | 27.3   | 32.7   | 30.0   | 30.0   |
| 87.5° | 16.4   | 16.4   | 16.4   | 16.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)