

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: P249402

Luminaire Tested: **LSR8B120D010 EC8B120930 8LBDW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249402  
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: LSR8B120D010 EC8B120930 8LBDW0GPH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10093.5 lumens  
Efficiency: N/A  
Efficacy: 85.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

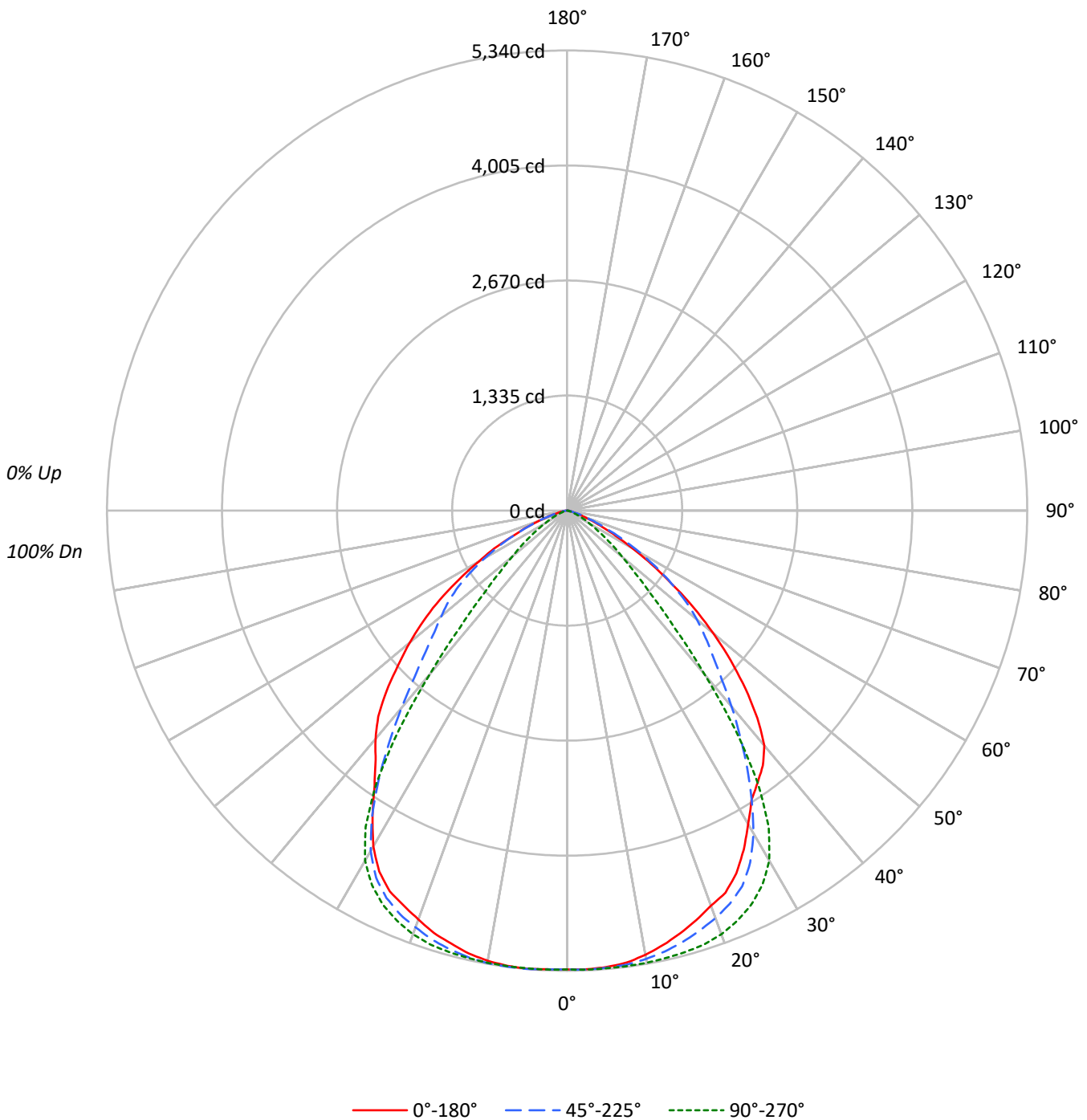
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99  | 97  | 98  | 96  | 94  | 94  | 93  | 91  | 90  |
| 2   | 104 | 97  | 92  | 88  | 101 | 96  | 91  | 87  | 92  | 88  | 85  | 89  | 86  | 83  | 86  | 83  | 81  | 79  |
| 3   | 96  | 88  | 81  | 76  | 94  | 86  | 80  | 75  | 84  | 78  | 74  | 81  | 77  | 73  | 79  | 75  | 72  | 70  |
| 4   | 89  | 80  | 72  | 67  | 87  | 78  | 72  | 66  | 76  | 70  | 66  | 74  | 69  | 65  | 72  | 67  | 64  | 62  |
| 5   | 83  | 72  | 65  | 59  | 81  | 71  | 64  | 59  | 69  | 63  | 58  | 68  | 62  | 58  | 66  | 61  | 57  | 55  |
| 6   | 78  | 66  | 58  | 53  | 76  | 65  | 58  | 53  | 64  | 57  | 52  | 62  | 56  | 52  | 61  | 55  | 51  | 50  |
| 7   | 72  | 61  | 53  | 48  | 71  | 60  | 53  | 48  | 59  | 52  | 47  | 57  | 51  | 47  | 56  | 51  | 47  | 45  |
| 8   | 68  | 56  | 48  | 43  | 66  | 55  | 48  | 43  | 54  | 48  | 43  | 53  | 47  | 43  | 52  | 46  | 42  | 41  |
| 9   | 64  | 52  | 44  | 39  | 62  | 51  | 44  | 39  | 50  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 37  |
| 10  | 60  | 48  | 41  | 36  | 59  | 48  | 41  | 36  | 47  | 40  | 36  | 46  | 40  | 36  | 45  | 40  | 36  | 34  |

**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° |  |     |      |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 508.2   | 5.0       |
| 10°-20°   | 1476.0  | 14.6      |
| 20°-30°   | 2240.3  | 22.2      |
| 30°-40°   | 2353.0  | 23.3      |
| 40°-50°   | 1764.1  | 17.5      |
| 50°-60°   | 1131.9  | 11.2      |
| 60°-70°   | 484.2   | 4.8       |
| 70°-80°   | 114.4   | 1.1       |
| 80°-90°   | 21.3    | 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°    | 4224.6  | 41.9      |
| 0°-40°    | 6577.6  | 65.2      |
| 0°-60°    | 9473.6  | 93.9      |
| 0°-90°    | 10093.5 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 10093.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 5326 | 5326 | 5326 | 5326 | 5326 |      |
| 5°  | 5317 | 5326 | 5331 | 5340 | 5337 | 505  |
| 15° | 5077 | 5183 | 5303 | 5268 | 5203 | 1432 |
| 25° | 4645 | 4808 | 5051 | 4960 | 4874 | 2122 |
| 35° | 3853 | 3639 | 3856 | 3810 | 3896 | 2418 |
| 45° | 2927 | 2393 | 1375 | 2324 | 2967 | 2242 |
| 55° | 1481 | 1481 | 512  | 1544 | 1804 | 1343 |
| 65° | 446  | 526  | 163  | 678  | 689  | 476  |
| 75° | 69   | 80   | 23   | 137  | 134  | 100  |
| 85° | 23   | 14   | 11   | 23   | 32   | 24   |
| 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°    | 5325.5 | 5325.5 | 5325.5 | 5325.5 | 5325.5 | 5325.5 | 5325.5 | 5325.5 | 5325.5 | 5325.5 | 5325.5 |
| 2.5°  | 5328.3 | 5334.2 | 5331.3 | 5331.3 | 5328.3 | 5331.3 | 5331.3 | 5337.0 | 5337.0 | 5331.3 | 5328.3 |
| 5°    | 5316.9 | 5322.6 | 5322.6 | 5316.9 | 5316.9 | 5331.3 | 5322.6 | 5328.3 | 5328.3 | 5325.5 | 5325.5 |
| 7.5°  | 5291.2 | 5291.2 | 5302.7 | 5294.1 | 5294.1 | 5302.7 | 5299.8 | 5305.5 | 5311.3 | 5314.1 | 5314.1 |
| 10°   | 5234.1 | 5239.8 | 5242.6 | 5242.6 | 5245.5 | 5254.0 | 5259.7 | 5271.3 | 5276.9 | 5282.6 | 5285.5 |
| 12.5° | 5162.7 | 5171.2 | 5174.0 | 5171.2 | 5179.8 | 5191.1 | 5205.5 | 5219.7 | 5228.3 | 5239.8 | 5248.4 |
| 15°   | 5076.8 | 5076.8 | 5082.5 | 5091.1 | 5096.9 | 5114.0 | 5128.2 | 5145.4 | 5168.3 | 5182.6 | 5196.8 |
| 17.5° | 4982.5 | 4988.2 | 4996.7 | 4996.7 | 5008.3 | 5036.8 | 5045.4 | 5071.2 | 5096.9 | 5111.1 | 5139.8 |
| 20°   | 4879.6 | 4885.3 | 4893.8 | 4899.7 | 4913.9 | 4936.8 | 4953.9 | 4976.8 | 5005.4 | 5031.2 | 5059.6 |
| 22.5° | 4799.6 | 4788.1 | 4793.8 | 4799.6 | 4813.9 | 4833.9 | 4853.9 | 4882.4 | 4911.0 | 4936.8 | 4965.4 |
| 25°   | 4645.2 | 4648.0 | 4656.6 | 4662.4 | 4679.5 | 4696.7 | 4719.5 | 4753.8 | 4779.5 | 4808.2 | 4839.6 |
| 27.5° | 4436.5 | 4439.4 | 4453.6 | 4453.6 | 4468.0 | 4496.6 | 4510.8 | 4539.4 | 4573.8 | 4602.3 | 4639.5 |
| 30°   | 4199.3 | 4205.0 | 4205.0 | 4216.4 | 4224.9 | 4239.3 | 4253.5 | 4282.1 | 4299.3 | 4325.0 | 4376.5 |
| 32.5° | 3982.0 | 3987.7 | 3984.8 | 3982.0 | 3973.4 | 3970.6 | 3967.7 | 3973.4 | 3979.1 | 3987.7 | 4007.7 |
| 35°   | 3853.4 | 3839.1 | 3827.7 | 3807.7 | 3784.8 | 3756.1 | 3730.5 | 3696.2 | 3664.7 | 3639.0 | 3610.4 |
| 37.5° | 3730.5 | 3727.5 | 3710.4 | 3681.8 | 3636.1 | 3584.6 | 3524.6 | 3450.3 | 3376.0 | 3296.0 | 3218.8 |
| 40°   | 3559.0 | 3550.3 | 3536.1 | 3496.1 | 3444.6 | 3381.7 | 3301.7 | 3210.2 | 3090.0 | 2967.2 | 2841.4 |
| 42.5° | 3267.4 | 3270.2 | 3253.0 | 3221.5 | 3173.0 | 3112.9 | 3030.1 | 2930.1 | 2801.4 | 2655.5 | 2492.7 |
| 45°   | 2927.2 | 2927.2 | 2921.4 | 2895.8 | 2861.5 | 2812.8 | 2749.9 | 2667.1 | 2541.3 | 2392.6 | 2218.2 |
| 47.5° | 2572.7 | 2575.6 | 2567.0 | 2561.3 | 2546.9 | 2515.5 | 2469.8 | 2406.9 | 2318.3 | 2175.3 | 2001.0 |
| 50°   | 2212.5 | 2212.5 | 2226.9 | 2224.0 | 2224.0 | 2212.5 | 2192.6 | 2155.3 | 2078.2 | 1963.9 | 1800.9 |
| 52.5° | 1852.3 | 1858.1 | 1866.7 | 1878.1 | 1892.4 | 1915.2 | 1892.4 | 1875.2 | 1826.6 | 1738.0 | 1598.0 |
| 55°   | 1480.7 | 1486.4 | 1500.7 | 1520.7 | 1537.9 | 1560.8 | 1566.5 | 1566.5 | 1540.7 | 1480.7 | 1375.0 |
| 57.5° | 1163.5 | 1154.9 | 1166.3 | 1183.4 | 1206.3 | 1229.2 | 1246.3 | 1266.4 | 1263.5 | 1223.5 | 1137.7 |
| 60°   | 874.7  | 877.6  | 886.2  | 903.3  | 920.5  | 940.5  | 963.4  | 980.5  | 989.1  | 969.1  | 914.7  |
| 62.5° | 637.5  | 637.5  | 648.8  | 666.0  | 674.6  | 703.2  | 717.4  | 726.1  | 734.6  | 731.8  | 697.5  |
| 65°   | 445.9  | 451.7  | 457.4  | 466.0  | 474.5  | 491.7  | 500.2  | 517.3  | 523.2  | 526.0  | 500.2  |
| 67.5° | 314.4  | 305.9  | 311.6  | 317.2  | 325.9  | 337.3  | 354.5  | 354.5  | 363.0  | 363.0  | 345.8  |
| 70°   | 200.1  | 200.1  | 203.0  | 211.5  | 217.2  | 220.2  | 225.9  | 231.5  | 240.1  | 237.2  | 237.2  |
| 72.5° | 134.4  | 131.5  | 134.4  | 137.2  | 140.1  | 148.6  | 148.6  | 151.4  | 157.3  | 160.1  | 148.6  |
| 75°   | 68.6   | 71.5   | 77.1   | 74.3   | 82.8   | 77.1   | 80.0   | 88.7   | 85.8   | 80.0   | 80.0   |
| 77.5° | 57.2   | 57.2   | 57.2   | 54.4   | 60.0   | 60.0   | 57.2   | 62.9   | 60.0   | 60.0   | 57.2   |
| 80°   | 40.0   | 42.8   | 40.0   | 37.1   | 40.0   | 37.1   | 37.1   | 37.1   | 37.1   | 37.1   | 34.3   |
| 82.5° | 31.5   | 25.8   | 28.6   | 25.8   | 28.6   | 28.6   | 25.8   | 22.9   | 22.9   | 25.8   | 22.9   |
| 85°   | 22.9   | 17.2   | 20.0   | 20.0   | 17.2   | 17.2   | 17.2   | 17.2   | 17.2   | 14.2   | 14.2   |
| 87.5° | 14.2   | 8.6    | 8.6    | 8.6    | 11.4   | 11.4   | 11.4   | 8.6    | 11.4   | 11.4   | 5.7    |
| 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°    | 5325.5 | 5325.5 | 5325.5 | 5325.5 | 5325.5 | 5325.5 | 5325.5 | 5325.5 | 5325.5 | 5325.5 | 5325.5 |
| 2.5°  | 5334.2 | 5331.3 | 5337.0 | 5334.2 | 5334.2 | 5331.3 | 5334.2 | 5331.3 | 5337.0 | 5325.5 | 5328.3 |
| 5°    | 5334.2 | 5328.3 | 5331.3 | 5334.2 | 5337.0 | 5331.3 | 5331.3 | 5331.3 | 5337.0 | 5331.3 | 5334.2 |
| 7.5°  | 5322.6 | 5319.8 | 5328.3 | 5334.2 | 5331.3 | 5328.3 | 5334.2 | 5331.3 | 5337.0 | 5334.2 | 5339.8 |
| 10°   | 5299.8 | 5302.7 | 5308.4 | 5316.9 | 5319.8 | 5322.6 | 5328.3 | 5328.3 | 5337.0 | 5325.5 | 5331.3 |
| 12.5° | 5265.6 | 5276.9 | 5291.2 | 5296.9 | 5308.4 | 5308.4 | 5314.1 | 5316.9 | 5322.6 | 5319.8 | 5328.3 |
| 15°   | 5222.6 | 5236.9 | 5254.0 | 5268.4 | 5282.6 | 5291.2 | 5299.8 | 5302.7 | 5311.3 | 5302.7 | 5305.5 |
| 17.5° | 5171.2 | 5188.3 | 5214.0 | 5231.1 | 5254.0 | 5262.6 | 5274.1 | 5279.8 | 5288.4 | 5282.6 | 5285.5 |
| 20°   | 5099.7 | 5119.7 | 5148.3 | 5174.0 | 5188.3 | 5208.3 | 5222.6 | 5231.1 | 5236.9 | 5231.1 | 5234.1 |
| 22.5° | 4999.7 | 5028.2 | 5065.4 | 5085.4 | 5114.0 | 5131.2 | 5134.0 | 5154.0 | 5168.3 | 5154.0 | 5159.7 |
| 25°   | 4882.4 | 4911.0 | 4939.7 | 4982.5 | 5008.3 | 5028.2 | 5048.3 | 5051.1 | 5065.4 | 5062.5 | 5059.6 |
| 27.5° | 4688.0 | 4725.2 | 4773.8 | 4808.2 | 4842.4 | 4873.9 | 4896.8 | 4902.5 | 4916.8 | 4911.0 | 4913.9 |
| 30°   | 4422.2 | 4462.3 | 4508.0 | 4562.2 | 4610.9 | 4642.3 | 4670.9 | 4690.9 | 4705.2 | 4696.7 | 4693.7 |
| 32.5° | 4044.9 | 4084.9 | 4133.6 | 4187.8 | 4245.0 | 4290.7 | 4325.0 | 4350.8 | 4367.9 | 4362.1 | 4347.9 |
| 35°   | 3613.3 | 3624.6 | 3656.1 | 3699.1 | 3747.6 | 3796.2 | 3827.7 | 3856.2 | 3876.2 | 3881.9 | 3881.9 |
| 37.5° | 3170.2 | 3133.1 | 3110.2 | 3110.2 | 3138.7 | 3158.8 | 3187.3 | 3204.5 | 3235.9 | 3247.3 | 3255.9 |
| 40°   | 2741.3 | 2655.5 | 2575.6 | 2515.5 | 2475.5 | 2472.7 | 2472.7 | 2481.2 | 2509.8 | 2546.9 | 2581.3 |
| 42.5° | 2358.4 | 2221.1 | 2098.2 | 1986.7 | 1906.7 | 1861.0 | 1840.9 | 1843.8 | 1866.7 | 1901.0 | 1958.1 |
| 45°   | 2052.4 | 1880.9 | 1726.6 | 1592.3 | 1483.6 | 1412.1 | 1377.8 | 1375.0 | 1392.1 | 1432.1 | 1495.1 |
| 47.5° | 1815.2 | 1632.2 | 1457.9 | 1303.5 | 1186.4 | 1109.1 | 1069.1 | 1057.7 | 1069.1 | 1106.2 | 1180.6 |
| 50°   | 1617.9 | 1429.3 | 1249.2 | 1089.2 | 963.4  | 883.3  | 846.1  | 831.9  | 846.1  | 877.6  | 951.8  |
| 52.5° | 1435.0 | 1240.6 | 1072.0 | 917.7  | 783.2  | 714.6  | 674.6  | 666.0  | 674.6  | 711.7  | 771.8  |
| 55°   | 1223.5 | 1057.7 | 891.9  | 737.5  | 620.4  | 551.8  | 520.3  | 511.7  | 520.3  | 554.6  | 617.4  |
| 57.5° | 1014.8 | 871.9  | 726.1  | 585.9  | 486.0  | 425.9  | 397.4  | 385.8  | 405.9  | 428.8  | 503.1  |
| 60°   | 820.3  | 706.1  | 583.1  | 460.3  | 377.3  | 323.0  | 300.1  | 297.3  | 303.0  | 331.6  | 383.0  |
| 62.5° | 643.2  | 548.8  | 451.7  | 351.7  | 282.9  | 260.1  | 231.5  | 228.7  | 234.4  | 251.6  | 291.6  |
| 65°   | 463.1  | 403.1  | 328.8  | 257.3  | 203.0  | 171.5  | 160.1  | 163.0  | 168.6  | 180.1  | 217.2  |
| 67.5° | 323.0  | 280.1  | 228.7  | 180.1  | 140.1  | 125.8  | 114.3  | 111.5  | 114.3  | 134.4  | 154.4  |
| 70°   | 217.2  | 191.5  | 154.4  | 137.2  | 97.2   | 77.1   | 80.0   | 71.5   | 82.8   | 82.8   | 100.0  |
| 72.5° | 142.9  | 125.8  | 102.9  | 80.0   | 68.6   | 54.4   | 54.4   | 51.5   | 57.2   | 60.0   | 74.3   |
| 75°   | 74.3   | 57.2   | 57.2   | 40.0   | 28.6   | 14.2   | 25.8   | 22.9   | 20.0   | 22.9   | 28.6   |
| 77.5° | 51.5   | 42.8   | 40.0   | 31.5   | 28.6   | 22.9   | 22.9   | 22.9   | 22.9   | 25.8   | 28.6   |
| 80°   | 31.5   | 31.5   | 22.9   | 20.0   | 17.2   | 14.2   | 17.2   | 17.2   | 17.2   | 17.2   | 20.0   |
| 82.5° | 20.0   | 17.2   | 17.2   | 14.2   | 14.2   | 11.4   | 11.4   | 11.4   | 11.4   | 11.4   | 17.2   |
| 85°   | 17.2   | 11.4   | 11.4   | 8.6    | 11.4   | 20.0   | 8.6    | 11.4   | 11.4   | 11.4   | 8.6    |
| 87.5° | 5.7    | 8.6    | 8.6    | 8.6    | 5.7    | 2.9    | 5.7    | 8.6    | 8.6    | 14.2   | 11.4   |
| 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):**

|       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5325.5 | 5325.5 | 5325.5 | 5325.5 | 5325.5 | 5325.5 | 5325.5 | 5325.5 | 5325.5 | 5325.5 | 5325.5 |
| 2.5°  | 5334.2 | 5337.0 | 5337.0 | 5334.2 | 5334.2 | 5328.3 | 5339.8 | 5331.3 | 5334.2 | 5345.5 | 5337.0 |
| 5°    | 5339.8 | 5342.7 | 5342.7 | 5339.8 | 5339.8 | 5339.8 | 5342.7 | 5342.7 | 5339.8 | 5337.0 | 5342.7 |
| 7.5°  | 5351.2 | 5348.4 | 5348.4 | 5342.7 | 5342.7 | 5337.0 | 5342.7 | 5334.2 | 5339.8 | 5334.2 | 5342.7 |
| 10°   | 5337.0 | 5339.8 | 5337.0 | 5334.2 | 5334.2 | 5331.3 | 5331.3 | 5322.6 | 5325.5 | 5316.9 | 5322.6 |
| 12.5° | 5328.3 | 5325.5 | 5325.5 | 5319.8 | 5314.1 | 5308.4 | 5305.5 | 5296.9 | 5296.9 | 5276.9 | 5285.5 |
| 15°   | 5305.5 | 5308.4 | 5299.8 | 5288.4 | 5282.6 | 5268.4 | 5262.6 | 5251.2 | 5239.8 | 5225.5 | 5228.3 |
| 17.5° | 5285.5 | 5276.9 | 5265.6 | 5254.0 | 5231.1 | 5219.7 | 5208.3 | 5191.1 | 5185.4 | 5168.3 | 5162.7 |
| 20°   | 5225.5 | 5219.7 | 5205.5 | 5185.4 | 5171.2 | 5145.4 | 5134.0 | 5116.9 | 5102.6 | 5085.4 | 5076.8 |
| 22.5° | 5148.3 | 5142.6 | 5125.4 | 5105.4 | 5082.5 | 5071.2 | 5059.6 | 5028.2 | 5013.9 | 4996.7 | 4993.9 |
| 25°   | 5051.1 | 5042.5 | 5025.4 | 5002.5 | 4991.0 | 4959.6 | 4948.2 | 4925.3 | 4919.6 | 4902.5 | 4899.7 |
| 27.5° | 4902.5 | 4891.0 | 4871.0 | 4842.4 | 4822.4 | 4802.4 | 4791.0 | 4773.8 | 4768.2 | 4750.9 | 4748.1 |
| 30°   | 4679.5 | 4665.2 | 4625.1 | 4613.8 | 4579.4 | 4559.4 | 4559.4 | 4536.6 | 4539.4 | 4528.1 | 4528.1 |
| 32.5° | 4327.8 | 4305.0 | 4273.6 | 4250.7 | 4227.9 | 4216.4 | 4216.4 | 4207.8 | 4213.5 | 4213.5 | 4219.2 |
| 35°   | 3862.0 | 3830.6 | 3813.3 | 3799.1 | 3799.1 | 3810.5 | 3844.8 | 3853.4 | 3870.5 | 3884.8 | 3896.3 |
| 37.5° | 3264.5 | 3261.7 | 3281.6 | 3298.8 | 3341.7 | 3390.2 | 3450.3 | 3501.8 | 3550.3 | 3584.6 | 3618.9 |
| 40°   | 2618.4 | 2690.0 | 2747.1 | 2827.2 | 2892.9 | 2987.2 | 3095.9 | 3184.4 | 3267.4 | 3327.5 | 3390.2 |
| 42.5° | 2043.8 | 2135.4 | 2255.5 | 2372.6 | 2489.9 | 2618.4 | 2761.5 | 2884.3 | 2993.0 | 3075.8 | 3141.6 |
| 45°   | 1592.3 | 1717.9 | 1863.8 | 2012.4 | 2164.0 | 2324.1 | 2472.7 | 2598.5 | 2712.8 | 2798.6 | 2864.3 |
| 47.5° | 1283.4 | 1420.8 | 1586.4 | 1749.4 | 1920.9 | 2089.5 | 2255.5 | 2364.1 | 2458.4 | 2527.0 | 2587.0 |
| 50°   | 1060.5 | 1206.3 | 1380.7 | 1566.5 | 1738.0 | 1906.7 | 2049.6 | 2155.3 | 2232.6 | 2292.6 | 2329.8 |
| 52.5° | 886.2  | 1040.5 | 1226.4 | 1412.1 | 1583.6 | 1738.0 | 1866.7 | 1946.7 | 2009.6 | 2052.4 | 2086.7 |
| 55°   | 731.8  | 880.4  | 1054.9 | 1229.2 | 1397.9 | 1543.6 | 1649.3 | 1709.4 | 1758.0 | 1783.7 | 1803.7 |
| 57.5° | 597.5  | 734.6  | 894.8  | 1054.9 | 1200.6 | 1320.7 | 1403.6 | 1463.6 | 1486.4 | 1506.5 | 1503.6 |
| 60°   | 468.8  | 597.5  | 743.2  | 880.4  | 1006.2 | 1103.4 | 1163.5 | 1197.8 | 1214.8 | 1223.5 | 1217.7 |
| 62.5° | 368.7  | 486.0  | 597.5  | 717.4  | 809.0  | 891.9  | 949.0  | 949.0  | 957.6  | 960.5  | 969.1  |
| 65°   | 274.4  | 363.0  | 460.3  | 548.8  | 623.2  | 677.5  | 708.9  | 717.4  | 729.0  | 726.1  | 720.4  |
| 67.5° | 203.0  | 268.7  | 340.1  | 405.9  | 457.4  | 491.7  | 514.5  | 534.6  | 531.7  | 526.0  | 523.2  |
| 70°   | 140.1  | 182.9  | 245.8  | 285.9  | 323.0  | 357.4  | 363.0  | 365.9  | 368.7  | 371.6  | 365.9  |
| 72.5° | 97.2   | 128.6  | 163.0  | 197.3  | 220.2  | 234.4  | 248.7  | 251.6  | 251.6  | 251.6  | 248.7  |
| 75°   | 48.7   | 65.8   | 97.2   | 111.5  | 131.5  | 137.2  | 148.6  | 148.6  | 157.3  | 145.7  | 142.9  |
| 77.5° | 42.8   | 51.5   | 68.6   | 80.0   | 88.7   | 97.2   | 100.0  | 108.6  | 105.7  | 100.0  | 102.9  |
| 80°   | 25.8   | 31.5   | 42.8   | 48.7   | 60.0   | 62.9   | 65.8   | 68.6   | 65.8   | 68.6   | 68.6   |
| 82.5° | 20.0   | 22.9   | 28.6   | 28.6   | 37.1   | 37.1   | 40.0   | 40.0   | 42.8   | 42.8   | 42.8   |
| 85°   | 11.4   | 20.0   | 17.2   | 34.3   | 22.9   | 22.9   | 28.6   | 34.3   | 28.6   | 28.6   | 34.3   |
| 87.5° | 11.4   | 11.4   | 8.6    | 11.4   | 11.4   | 11.4   | 14.2   | 17.2   | 17.2   | 20.0   | 17.2   |
| 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: P249402

CATALOG NUMBER: LSR8B120D010 EC8B120930 8LBDW0GPH

**CANDELA DISTRIBUTION (continued):**

|       | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 5325.5 | 5325.5 | 5325.5 | 5325.5 |
| 2.5°  | 5334.2 | 5339.8 | 5331.3 | 5328.3 |
| 5°    | 5342.7 | 5342.7 | 5337.0 | 5337.0 |
| 7.5°  | 5342.7 | 5342.7 | 5334.2 | 5328.3 |
| 10°   | 5319.8 | 5319.8 | 5311.3 | 5305.5 |
| 12.5° | 5276.9 | 5276.9 | 5274.1 | 5265.6 |
| 15°   | 5222.6 | 5222.6 | 5211.2 | 5202.7 |
| 17.5° | 5148.3 | 5154.0 | 5139.8 | 5139.8 |
| 20°   | 5068.3 | 5065.4 | 5054.0 | 5048.3 |
| 22.5° | 4985.4 | 4979.6 | 4976.8 | 4959.6 |
| 25°   | 4896.8 | 4891.0 | 4882.4 | 4873.9 |
| 27.5° | 4745.3 | 4742.4 | 4733.8 | 4722.4 |
| 30°   | 4513.7 | 4510.8 | 4499.4 | 4499.4 |
| 32.5° | 4213.5 | 4210.7 | 4199.3 | 4202.2 |
| 35°   | 3902.0 | 3913.4 | 3907.7 | 3896.3 |
| 37.5° | 3641.8 | 3650.4 | 3656.1 | 3650.4 |
| 40°   | 3424.5 | 3450.3 | 3453.1 | 3459.0 |
| 42.5° | 3193.1 | 3227.4 | 3238.8 | 3244.5 |
| 45°   | 2915.7 | 2947.2 | 2972.9 | 2967.2 |
| 47.5° | 2632.7 | 2655.5 | 2678.5 | 2661.4 |
| 50°   | 2361.2 | 2375.5 | 2384.0 | 2384.0 |
| 52.5° | 2103.9 | 2103.9 | 2101.1 | 2103.9 |
| 55°   | 1809.5 | 1809.5 | 1798.1 | 1803.7 |
| 57.5° | 1500.7 | 1506.5 | 1497.9 | 1483.6 |
| 60°   | 1214.8 | 1200.6 | 1194.9 | 1186.4 |
| 62.5° | 946.2  | 946.2  | 926.2  | 951.8  |
| 65°   | 708.9  | 700.4  | 691.8  | 688.9  |
| 67.5° | 514.5  | 511.7  | 503.1  | 500.2  |
| 70°   | 363.0  | 351.7  | 348.7  | 343.0  |
| 72.5° | 243.0  | 243.0  | 237.2  | 237.2  |
| 75°   | 148.6  | 134.4  | 131.5  | 134.4  |
| 77.5° | 102.9  | 100.0  | 100.0  | 97.2   |
| 80°   | 68.6   | 65.8   | 71.5   | 62.9   |
| 82.5° | 42.8   | 45.7   | 42.8   | 45.7   |
| 85°   | 28.6   | 34.3   | 31.5   | 31.5   |
| 87.5° | 17.2   | 17.2   | 17.2   | 17.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)