

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: P248450

Luminaire Tested: **LD8B175D010 ER8B175830 8LBDW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248450  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B175D010 ER8B175830 8LBDW0WH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 3000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18016.0 lumens  
Efficiency: N/A  
Efficacy: 101.7 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

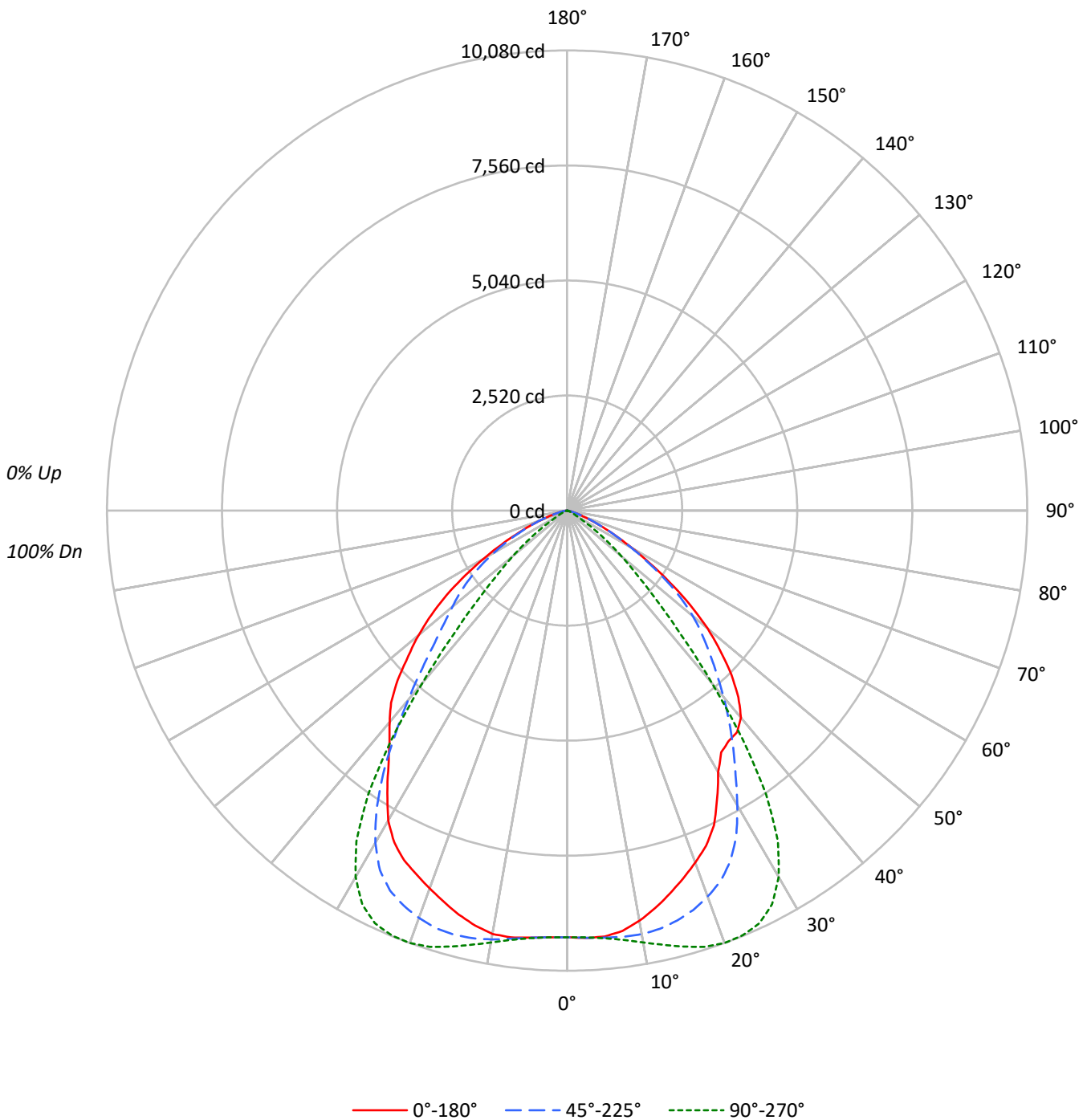
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 92  | 90  |    |    |    |    | 90  |   |  |   |
| 2   | 104 | 98  | 92  | 88  | 102 | 96  | 91  | 87  | 92  | 88  | 85  | 89  | 86  | 83  | 86  | 84  | 81  | 79  |    |    |    |    | 79  |   |  |   |
| 3   | 97  | 88  | 82  | 76  | 94  | 87  | 81  | 76  | 84  | 79  | 74  | 81  | 77  | 73  | 79  | 75  | 72  | 70  |    |    |    |    | 70  |   |  |   |
| 4   | 90  | 80  | 73  | 67  | 88  | 79  | 72  | 67  | 76  | 70  | 66  | 74  | 69  | 65  | 72  | 68  | 64  | 62  |    |    |    |    | 62  |   |  |   |
| 5   | 84  | 73  | 65  | 60  | 82  | 72  | 65  | 59  | 70  | 63  | 59  | 68  | 62  | 58  | 66  | 61  | 58  | 56  |    |    |    |    | 56  |   |  |   |
| 6   | 78  | 66  | 59  | 53  | 76  | 66  | 58  | 53  | 64  | 57  | 53  | 62  | 57  | 52  | 61  | 56  | 52  | 50  |    |    |    |    | 50  |   |  |   |
| 7   | 73  | 61  | 53  | 48  | 71  | 60  | 53  | 48  | 59  | 52  | 48  | 57  | 52  | 47  | 56  | 51  | 47  | 45  |    |    |    |    | 45  |   |  |   |
| 8   | 68  | 56  | 49  | 44  | 67  | 56  | 48  | 43  | 54  | 48  | 43  | 53  | 47  | 43  | 52  | 47  | 43  | 41  |    |    |    |    | 41  |   |  |   |
| 9   | 64  | 52  | 45  | 40  | 63  | 51  | 44  | 40  | 50  | 44  | 39  | 49  | 44  | 39  | 48  | 43  | 39  | 38  |    |    |    |    | 38  |   |  |   |
| 10  | 60  | 48  | 41  | 36  | 59  | 48  | 41  | 36  | 47  | 41  | 36  | 46  | 40  | 36  | 45  | 40  | 36  | 34  |    |    |    |    | 34  |   |  |   |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°     | 90°    | 180°   |
|-----|--------|--------|--------|
| 0°  | 288199 | 288199 | 288199 |
| 5°  | 289916 | 290990 | 290681 |
| 10° | 285653 | 300724 | 294821 |
| 15° | 277306 | 315627 | 292505 |
| 20° | 269256 | 330788 | 288952 |
| 25° | 258917 | 339261 | 287613 |
| 30° | 235631 | 329960 | 279085 |
| 35° | 232122 | 285908 | 256775 |
| 40° | 238432 | 198295 | 243420 |
| 45° | 221962 | 119847 | 228887 |
| 50° | 192529 | 74012  | 203952 |
| 55° | 147747 | 38671  | 173085 |
| 60° | 100656 | 15603  | 130635 |
| 65° | 62619  | 7960   | 90126  |
| 70° | 33990  | 4923   | 55015  |
| 75° | 17728  | 2359   | 32514  |
| 80° | 7938   | 2646   | 17616  |
| 85° | 5272   | 1769   | 15815  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 898.8   | 5.0       |
| 10°-20°   | 2662.6  | 14.8      |
| 20°-30°   | 4062.0  | 22.5      |
| 30°-40°   | 4238.8  | 23.5      |
| 40°-50°   | 3183.9  | 17.7      |
| 50°-60°   | 1959.0  | 10.9      |
| 60°-70°   | 797.2   | 4.4       |
| 70°-80°   | 187.8   | 1.0       |
| 80°-90°   | 25.9    | 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°    | 7623.4  | 42.3      |
| 0°-40°    | 11862.2 | 65.8      |
| 0°-60°    | 17005.1 | 94.4      |
| 0°-90°    | 18016.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 18016.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 9346 | 9346 | 9346 | 9346 | 9346 |      |
| 5°  | 9366 | 9391 | 9401 | 9391 | 9391 | 886  |
| 15° | 8686 | 9296 | 9887 | 9614 | 9162 | 2447 |
| 25° | 7610 | 8463 | 9971 | 9182 | 8453 | 3460 |
| 35° | 6166 | 6340 | 7595 | 7020 | 6821 | 3893 |
| 45° | 5090 | 4405 | 2748 | 4103 | 5249 | 3883 |
| 55° | 2748 | 2609 | 719  | 2609 | 3220 | 2470 |
| 65° | 858  | 868  | 109  | 1166 | 1235 | 895  |
| 75° | 149  | 149  | 20   | 263  | 273  | 179  |
| 85° | 15   | 15   | 5    | 35   | 45   | 21   |
| 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°    | 9346.1 | 9346.1 | 9346.1 | 9346.1 | 9346.1 | 9346.1 | 9346.1 | 9346.1 | 9346.1 | 9346.1 | 9346.1 |
| 2.5°  | 9370.9 | 9356.0 | 9370.9 | 9370.9 | 9375.9 | 9366.0 | 9370.9 | 9375.9 | 9366.0 | 9366.0 | 9366.0 |
| 5°    | 9366.0 | 9356.0 | 9366.0 | 9361.0 | 9370.9 | 9370.9 | 9380.9 | 9380.9 | 9390.7 | 9390.7 | 9405.7 |
| 7.5°  | 9286.6 | 9266.8 | 9286.6 | 9301.5 | 9311.4 | 9331.3 | 9356.0 | 9375.9 | 9395.7 | 9415.6 | 9440.4 |
| 10°   | 9122.8 | 9122.8 | 9137.8 | 9167.5 | 9197.3 | 9232.0 | 9276.6 | 9326.3 | 9375.9 | 9420.5 | 9465.1 |
| 12.5° | 8919.5 | 8904.6 | 8934.3 | 8974.0 | 9018.7 | 9073.3 | 9142.7 | 9217.2 | 9296.5 | 9385.8 | 9455.3 |
| 15°   | 8686.4 | 8671.4 | 8706.1 | 8745.8 | 8800.5 | 8879.8 | 8964.2 | 9063.4 | 9177.5 | 9296.5 | 9410.6 |
| 17.5° | 8448.2 | 8443.2 | 8477.9 | 8532.6 | 8577.2 | 8661.5 | 8770.7 | 8889.7 | 9018.7 | 9177.5 | 9326.3 |
| 20°   | 8205.2 | 8200.2 | 8234.9 | 8279.6 | 8339.1 | 8418.5 | 8527.6 | 8666.4 | 8820.2 | 8998.9 | 9172.5 |
| 22.5° | 7952.1 | 7957.1 | 7986.8 | 8036.5 | 8086.1 | 8170.4 | 8284.5 | 8423.4 | 8592.0 | 8785.5 | 8979.0 |
| 25°   | 7609.8 | 7585.1 | 7624.7 | 7674.4 | 7758.6 | 7828.1 | 7937.3 | 8086.1 | 8259.7 | 8463.1 | 8691.3 |
| 27.5° | 7113.7 | 7108.8 | 7143.6 | 7188.1 | 7262.5 | 7346.9 | 7466.0 | 7619.8 | 7803.3 | 8026.5 | 8249.7 |
| 30°   | 6617.6 | 6627.6 | 6642.5 | 6687.2 | 6736.7 | 6821.1 | 6940.1 | 7069.2 | 7242.8 | 7456.0 | 7694.2 |
| 32.5° | 6280.3 | 6280.3 | 6300.2 | 6330.0 | 6364.7 | 6409.3 | 6493.7 | 6587.9 | 6721.9 | 6870.7 | 7044.3 |
| 35°   | 6166.2 | 6146.4 | 6166.2 | 6171.2 | 6176.2 | 6186.1 | 6200.9 | 6230.8 | 6275.3 | 6339.9 | 6404.4 |
| 37.5° | 6116.7 | 6101.8 | 6101.8 | 6082.0 | 6057.1 | 6027.4 | 5987.7 | 5943.0 | 5893.5 | 5828.9 | 5779.4 |
| 40°   | 5923.2 | 5913.3 | 5903.3 | 5883.5 | 5828.9 | 5769.4 | 5704.8 | 5600.7 | 5486.6 | 5327.8 | 5169.2 |
| 42.5° | 5551.2 | 5541.2 | 5536.2 | 5496.5 | 5446.9 | 5377.5 | 5303.1 | 5193.9 | 5050.1 | 4846.7 | 4618.5 |
| 45°   | 5089.8 | 5069.9 | 5055.1 | 5020.4 | 4985.5 | 4926.1 | 4856.6 | 4757.3 | 4613.5 | 4405.2 | 4132.3 |
| 47.5° | 4554.0 | 4544.1 | 4539.1 | 4524.3 | 4489.6 | 4454.7 | 4410.2 | 4330.8 | 4201.8 | 4003.3 | 3720.6 |
| 50°   | 4013.3 | 3993.5 | 4003.3 | 3998.4 | 3983.5 | 3958.8 | 3928.9 | 3874.4 | 3775.1 | 3596.6 | 3338.6 |
| 52.5° | 3393.1 | 3393.1 | 3388.3 | 3403.1 | 3408.0 | 3403.1 | 3408.0 | 3348.6 | 3264.2 | 3130.2 | 2912.0 |
| 55°   | 2748.2 | 2748.2 | 2763.1 | 2783.0 | 2802.8 | 2807.8 | 2802.8 | 2778.1 | 2718.5 | 2609.4 | 2415.9 |
| 57.5° | 2143.0 | 2133.2 | 2162.9 | 2192.6 | 2212.6 | 2232.3 | 2217.4 | 2197.6 | 2162.9 | 2073.6 | 1924.8 |
| 60°   | 1632.1 | 1632.1 | 1651.9 | 1671.8 | 1691.6 | 1711.5 | 1706.5 | 1701.5 | 1671.8 | 1612.2 | 1493.2 |
| 62.5° | 1200.5 | 1205.4 | 1205.4 | 1220.4 | 1240.2 | 1260.1 | 1274.9 | 1260.1 | 1245.1 | 1205.4 | 1126.1 |
| 65°   | 858.2  | 853.2  | 858.2  | 873.1  | 888.0  | 907.8  | 917.8  | 912.8  | 897.9  | 868.1  | 808.6  |
| 67.5° | 575.5  | 570.5  | 590.3  | 595.3  | 605.2  | 625.1  | 620.1  | 625.1  | 620.1  | 595.3  | 545.7  |
| 70°   | 377.0  | 367.1  | 377.0  | 372.0  | 387.0  | 391.9  | 401.8  | 406.8  | 401.8  | 387.0  | 372.0  |
| 72.5° | 233.2  | 228.2  | 233.2  | 238.2  | 243.1  | 248.0  | 257.9  | 257.9  | 253.0  | 243.1  | 223.2  |
| 75°   | 148.8  | 133.9  | 138.9  | 129.0  | 138.9  | 138.9  | 148.8  | 153.8  | 148.8  | 148.8  | 138.9  |
| 77.5° | 89.3   | 89.3   | 89.3   | 89.3   | 89.3   | 89.3   | 89.3   | 94.3   | 99.2   | 89.3   | 84.4   |
| 80°   | 44.7   | 44.7   | 49.6   | 49.6   | 49.6   | 54.6   | 49.6   | 49.6   | 49.6   | 54.6   | 39.7   |
| 82.5° | 34.7   | 29.7   | 29.7   | 29.7   | 34.7   | 29.7   | 29.7   | 29.7   | 29.7   | 29.7   | 29.7   |
| 85°   | 14.9   | 19.8   | 14.9   | 10.0   | 14.9   | 14.9   | 19.8   | 14.9   | 14.9   | 14.9   | 19.8   |
| 87.5° | 5.0    | 5.0    | 0.0    | 0.0    | 0.0    | 5.0    | 0.0    | 5.0    | 5.0    | 10.0   | 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    |



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**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°     | 90°     | 95°     | 100°    | 105°    |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0°    | 9346.1 | 9346.1 | 9346.1 | 9346.1 | 9346.1 | 9346.1 | 9346.1  | 9346.1  | 9346.1  | 9346.1  | 9346.1  |
| 2.5°  | 9370.9 | 9361.0 | 9361.0 | 9356.0 | 9366.0 | 9356.0 | 9361.0  | 9356.0  | 9356.0  | 9366.0  | 9356.0  |
| 5°    | 9405.7 | 9410.6 | 9400.7 | 9395.7 | 9410.6 | 9410.6 | 9410.6  | 9400.7  | 9400.7  | 9405.7  | 9400.7  |
| 7.5°  | 9455.3 | 9465.1 | 9470.1 | 9475.1 | 9485.0 | 9490.0 | 9490.0  | 9485.0  | 9480.1  | 9495.0  | 9475.1  |
| 10°   | 9509.8 | 9524.7 | 9554.5 | 9569.4 | 9594.2 | 9594.2 | 9604.1  | 9604.1  | 9594.2  | 9604.1  | 9599.1  |
| 12.5° | 9490.0 | 9579.2 | 9628.9 | 9663.6 | 9698.3 | 9728.1 | 9738.0  | 9743.0  | 9738.0  | 9757.9  | 9738.0  |
| 15°   | 9524.7 | 9599.1 | 9678.5 | 9738.0 | 9802.5 | 9837.2 | 9847.1  | 9886.8  | 9896.8  | 9901.8  | 9872.0  |
| 17.5° | 9470.1 | 9604.1 | 9688.4 | 9777.7 | 9872.0 | 9936.5 | 9995.9  | 10020.8 | 10025.8 | 10035.6 | 9995.9  |
| 20°   | 9346.1 | 9495.0 | 9623.9 | 9752.9 | 9862.1 | 9961.2 | 10010.9 | 10080.3 | 10060.5 | 10100.2 | 10045.6 |
| 22.5° | 9177.5 | 9346.1 | 9509.8 | 9678.5 | 9792.6 | 9911.7 | 10015.8 | 10065.4 | 10090.3 | 10090.3 | 10030.7 |
| 25°   | 8909.6 | 9108.0 | 9286.6 | 9460.2 | 9633.9 | 9777.7 | 9896.8  | 9971.2  | 9986.1  | 9981.1  | 9911.7  |
| 27.5° | 8492.9 | 8706.1 | 8914.5 | 9113.0 | 9326.3 | 9495.0 | 9633.9  | 9723.1  | 9748.0  | 9748.0  | 9673.6  |
| 30°   | 7917.4 | 8145.6 | 8349.0 | 8587.1 | 8805.4 | 8993.9 | 9187.4  | 9266.8  | 9311.4  | 9311.4  | 9227.1  |
| 32.5° | 7232.8 | 7426.3 | 7614.8 | 7848.0 | 8086.1 | 8299.4 | 8482.9  | 8592.0  | 8646.7  | 8641.7  | 8567.3  |
| 35°   | 6488.7 | 6582.9 | 6726.9 | 6900.5 | 7113.7 | 7312.2 | 7490.7  | 7595.0  | 7689.2  | 7684.2  | 7614.8  |
| 37.5° | 5744.5 | 5719.8 | 5734.7 | 5799.2 | 5933.0 | 6072.0 | 6210.9  | 6310.2  | 6389.4  | 6424.3  | 6409.3  |
| 40°   | 5015.4 | 4886.4 | 4762.3 | 4717.8 | 4727.6 | 4777.2 | 4851.6  | 4926.1  | 5015.4  | 5060.1  | 5079.8  |
| 42.5° | 4360.5 | 4142.3 | 3923.9 | 3760.3 | 3666.0 | 3636.2 | 3671.0  | 3695.7  | 3750.3  | 3814.8  | 3879.4  |
| 45°   | 3834.7 | 3542.1 | 3254.3 | 3001.3 | 2842.5 | 2748.2 | 2728.4  | 2748.2  | 2778.1  | 2842.5  | 2926.9  |
| 47.5° | 3403.1 | 3060.8 | 2738.4 | 2455.6 | 2222.4 | 2098.5 | 2063.7  | 2053.8  | 2083.5  | 2143.0  | 2257.1  |
| 50°   | 3021.1 | 2678.8 | 2321.7 | 1994.2 | 1751.2 | 1612.2 | 1562.7  | 1542.8  | 1577.5  | 1622.2  | 1726.3  |
| 52.5° | 2604.4 | 2267.1 | 1900.0 | 1582.5 | 1329.5 | 1185.7 | 1131.0  | 1101.3  | 1121.1  | 1180.7  | 1284.8  |
| 55°   | 2153.0 | 1840.4 | 1508.1 | 1180.7 | 937.6  | 803.7  | 739.1   | 719.3   | 739.1   | 803.7   | 907.8   |
| 57.5° | 1701.5 | 1438.6 | 1160.8 | 853.2  | 635.0  | 501.1  | 436.5   | 416.7   | 471.3   | 496.1   | 605.2   |
| 60°   | 1329.5 | 1116.2 | 878.1  | 625.1  | 436.5  | 332.3  | 267.9   | 253.0   | 277.8   | 322.4   | 411.7   |
| 62.5° | 997.2  | 863.1  | 674.6  | 446.4  | 322.4  | 213.3  | 178.6   | 163.7   | 178.6   | 213.3   | 282.8   |
| 65°   | 724.3  | 620.1  | 471.3  | 327.4  | 218.2  | 158.8  | 119.1   | 109.1   | 124.1   | 148.8   | 208.4   |
| 67.5° | 496.1  | 416.7  | 327.4  | 228.2  | 148.8  | 99.2   | 84.4    | 84.4    | 89.3    | 109.1   | 153.8   |
| 70°   | 322.4  | 272.9  | 208.4  | 148.8  | 99.2   | 74.4   | 64.5    | 54.6    | 64.5    | 79.4    | 104.1   |
| 72.5° | 203.4  | 173.6  | 133.9  | 104.1  | 74.4   | 54.6   | 44.7    | 39.7    | 49.6    | 59.5    | 79.4    |
| 75°   | 124.1  | 94.3   | 69.4   | 54.6   | 39.7   | 39.7   | 39.7    | 19.8    | 24.8    | 39.7    | 49.6    |
| 77.5° | 74.4   | 64.5   | 54.6   | 44.7   | 34.7   | 19.8   | 19.8    | 19.8    | 24.8    | 29.7    | 44.7    |
| 80°   | 39.7   | 34.7   | 24.8   | 24.8   | 19.8   | 14.9   | 19.8    | 14.9    | 10.0    | 24.8    | 29.7    |
| 82.5° | 24.8   | 19.8   | 19.8   | 19.8   | 24.8   | 10.0   | 14.9    | 10.0    | 14.9    | 19.8    | 14.9    |
| 85°   | 14.9   | 14.9   | 14.9   | 10.0   | 24.8   | 10.0   | 10.0    | 5.0     | 5.0     | 10.0    | 10.0    |
| 87.5° | 0.0    | 5.0    | 5.0    | 0.0    | 5.0    | 0.0    | 5.0     | 5.0     | 5.0     | 5.0     | 5.0     |
| 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: P248450

CATALOG NUMBER: LD8B175D010 ER8B175830 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

|       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 9346.1 | 9346.1 | 9346.1 | 9346.1 | 9346.1 | 9346.1 | 9346.1 | 9346.1 | 9346.1 | 9346.1 | 9346.1 |
| 2.5°  | 9361.0 | 9356.0 | 9361.0 | 9356.0 | 9356.0 | 9356.0 | 9361.0 | 9361.0 | 9356.0 | 9356.0 | 9366.0 |
| 5°    | 9400.7 | 9400.7 | 9400.7 | 9395.7 | 9390.7 | 9390.7 | 9400.7 | 9400.7 | 9385.8 | 9400.7 | 9400.7 |
| 7.5°  | 9485.0 | 9470.1 | 9485.0 | 9465.1 | 9455.3 | 9460.2 | 9465.1 | 9455.3 | 9445.4 | 9450.3 | 9450.3 |
| 10°   | 9594.2 | 9579.2 | 9579.2 | 9564.4 | 9549.5 | 9539.5 | 9529.7 | 9504.8 | 9480.1 | 9475.1 | 9455.3 |
| 12.5° | 9723.1 | 9698.3 | 9683.5 | 9653.6 | 9628.9 | 9594.2 | 9564.4 | 9524.7 | 9475.1 | 9440.4 | 9405.7 |
| 15°   | 9852.1 | 9812.4 | 9777.7 | 9728.1 | 9673.6 | 9614.0 | 9549.5 | 9485.0 | 9405.7 | 9336.2 | 9276.6 |
| 17.5° | 9956.3 | 9901.8 | 9837.2 | 9757.9 | 9678.5 | 9589.2 | 9495.0 | 9400.7 | 9286.6 | 9197.3 | 9127.8 |
| 20°   | 9991.0 | 9911.7 | 9827.3 | 9723.1 | 9618.9 | 9495.0 | 9375.9 | 9251.9 | 9122.8 | 9028.6 | 8949.3 |
| 22.5° | 9946.4 | 9852.1 | 9748.0 | 9638.8 | 9499.9 | 9366.0 | 9227.1 | 9083.2 | 8969.1 | 8840.1 | 8765.7 |
| 25°   | 9822.4 | 9708.3 | 9594.2 | 9465.1 | 9331.3 | 9182.4 | 9033.6 | 8884.8 | 8745.8 | 8676.4 | 8582.2 |
| 27.5° | 9569.4 | 9445.4 | 9321.3 | 9187.4 | 9033.6 | 8884.8 | 8731.0 | 8587.1 | 8468.1 | 8373.8 | 8319.3 |
| 30°   | 9122.8 | 8979.0 | 8835.2 | 8691.3 | 8557.3 | 8403.5 | 8259.7 | 8140.6 | 8021.5 | 7947.1 | 7892.6 |
| 32.5° | 8438.2 | 8309.3 | 8165.5 | 8026.5 | 7902.6 | 7773.6 | 7654.5 | 7550.3 | 7466.0 | 7416.3 | 7376.6 |
| 35°   | 7515.6 | 7386.6 | 7277.5 | 7178.3 | 7074.0 | 7019.5 | 6945.1 | 6885.5 | 6850.8 | 6831.0 | 6826.0 |
| 37.5° | 6354.7 | 6280.3 | 6245.6 | 6225.8 | 6205.9 | 6191.1 | 6200.9 | 6225.8 | 6245.6 | 6280.3 | 6320.0 |
| 40°   | 5114.6 | 5179.0 | 5198.9 | 5268.4 | 5332.8 | 5417.2 | 5511.5 | 5620.6 | 5709.8 | 5823.9 | 5903.3 |
| 42.5° | 3983.5 | 4102.6 | 4241.5 | 4390.3 | 4549.0 | 4702.8 | 4891.3 | 5064.9 | 5223.7 | 5367.5 | 5491.6 |
| 45°   | 3060.8 | 3244.3 | 3452.7 | 3666.0 | 3879.4 | 4102.6 | 4330.8 | 4544.1 | 4732.6 | 4886.4 | 5015.4 |
| 47.5° | 2386.1 | 2589.6 | 2857.5 | 3120.4 | 3378.3 | 3641.2 | 3894.2 | 4117.4 | 4276.2 | 4425.0 | 4539.1 |
| 50°   | 1890.0 | 2123.2 | 2415.9 | 2718.5 | 3001.3 | 3279.0 | 3546.9 | 3755.3 | 3914.1 | 4033.2 | 4117.4 |
| 52.5° | 1463.4 | 1741.2 | 2038.9 | 2356.4 | 2659.0 | 2961.6 | 3209.6 | 3403.1 | 3532.1 | 3636.2 | 3700.7 |
| 55°   | 1091.3 | 1364.2 | 1681.7 | 2009.1 | 2316.7 | 2609.4 | 2842.5 | 3011.2 | 3125.3 | 3184.8 | 3219.5 |
| 57.5° | 788.7  | 1036.8 | 1354.3 | 1681.7 | 1959.5 | 2237.3 | 2425.8 | 2579.6 | 2644.1 | 2678.8 | 2693.7 |
| 60°   | 575.5  | 803.7  | 1086.4 | 1369.2 | 1632.1 | 1855.3 | 2019.1 | 2123.2 | 2172.9 | 2192.6 | 2187.7 |
| 62.5° | 421.7  | 620.1  | 863.1  | 1101.3 | 1314.6 | 1498.1 | 1627.1 | 1696.6 | 1721.4 | 1731.3 | 1716.5 |
| 65°   | 322.4  | 476.2  | 684.6  | 868.1  | 1031.9 | 1165.8 | 1260.1 | 1304.7 | 1319.5 | 1314.6 | 1304.7 |
| 67.5° | 238.2  | 357.2  | 511.0  | 649.9  | 769.0  | 873.1  | 922.7  | 962.4  | 972.3  | 957.5  | 942.5  |
| 70°   | 168.7  | 262.9  | 372.0  | 466.3  | 555.6  | 615.2  | 669.7  | 674.6  | 674.6  | 669.7  | 659.8  |
| 72.5° | 119.1  | 183.5  | 253.0  | 317.5  | 372.0  | 416.7  | 436.5  | 451.4  | 446.4  | 441.5  | 431.6  |
| 75°   | 79.4   | 114.1  | 183.5  | 198.5  | 248.0  | 262.9  | 282.8  | 282.8  | 287.7  | 272.9  | 272.9  |
| 77.5° | 49.6   | 79.4   | 109.1  | 129.0  | 148.8  | 168.7  | 178.6  | 178.6  | 183.5  | 178.6  | 178.6  |
| 80°   | 29.7   | 49.6   | 59.5   | 89.3   | 89.3   | 104.1  | 109.1  | 114.1  | 104.1  | 119.1  | 104.1  |
| 82.5° | 19.8   | 29.7   | 44.7   | 44.7   | 54.6   | 64.5   | 64.5   | 69.4   | 69.4   | 64.5   | 64.5   |
| 85°   | 14.9   | 19.8   | 24.8   | 29.7   | 29.7   | 34.7   | 29.7   | 29.7   | 34.7   | 39.7   | 34.7   |
| 87.5° | 5.0    | 10.0   | 5.0    | 10.0   | 10.0   | 19.8   | 14.9   | 14.9   | 14.9   | 19.8   | 19.8   |
| 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: P248450

CATALOG NUMBER: LD8B175D010 ER8B175830 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

|       | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 9346.1 | 9346.1 | 9346.1 | 9346.1 |
| 2.5°  | 9356.0 | 9361.0 | 9356.0 | 9356.0 |
| 5°    | 9400.7 | 9395.7 | 9400.7 | 9390.7 |
| 7.5°  | 9435.4 | 9435.4 | 9430.4 | 9430.4 |
| 10°   | 9435.4 | 9415.6 | 9415.6 | 9415.6 |
| 12.5° | 9361.0 | 9336.2 | 9321.3 | 9311.4 |
| 15°   | 9232.0 | 9187.4 | 9167.5 | 9162.5 |
| 17.5° | 9063.4 | 9023.7 | 8998.9 | 8984.0 |
| 20°   | 8869.9 | 8830.2 | 8800.5 | 8805.4 |
| 22.5° | 8701.2 | 8656.6 | 8636.7 | 8626.8 |
| 25°   | 8532.6 | 8477.9 | 8463.1 | 8453.2 |
| 27.5° | 8259.7 | 8230.0 | 8215.0 | 8200.2 |
| 30°   | 7843.0 | 7828.1 | 7803.3 | 7838.0 |
| 32.5° | 7361.8 | 7336.9 | 7317.2 | 7332.1 |
| 35°   | 6831.0 | 6816.1 | 6831.0 | 6821.1 |
| 37.5° | 6344.9 | 6359.7 | 6379.6 | 6389.4 |
| 40°   | 5962.9 | 6017.4 | 6037.3 | 6047.1 |
| 42.5° | 5580.9 | 5645.4 | 5685.1 | 5709.8 |
| 45°   | 5109.6 | 5174.0 | 5218.7 | 5248.6 |
| 47.5° | 4623.4 | 4678.1 | 4722.6 | 4717.8 |
| 50°   | 4182.0 | 4211.7 | 4231.5 | 4251.4 |
| 52.5° | 3735.4 | 3735.4 | 3740.4 | 3740.4 |
| 55°   | 3229.5 | 3219.5 | 3214.6 | 3219.5 |
| 57.5° | 2673.8 | 2664.0 | 2659.0 | 2644.1 |
| 60°   | 2167.9 | 2138.1 | 2118.2 | 2118.2 |
| 62.5° | 1696.6 | 1661.8 | 1647.0 | 1642.1 |
| 65°   | 1274.9 | 1269.9 | 1240.2 | 1235.2 |
| 67.5° | 922.7  | 902.8  | 883.1  | 888.0  |
| 70°   | 649.9  | 620.1  | 620.1  | 610.2  |
| 72.5° | 421.7  | 406.8  | 401.8  | 401.8  |
| 75°   | 262.9  | 262.9  | 253.0  | 272.9  |
| 77.5° | 173.6  | 173.6  | 168.7  | 173.6  |
| 80°   | 104.1  | 104.1  | 104.1  | 99.2   |
| 82.5° | 64.5   | 69.4   | 64.5   | 64.5   |
| 85°   | 34.7   | 39.7   | 29.7   | 44.7   |
| 87.5° | 19.8   | 24.8   | 19.8   | 24.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)