

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: P249585

Luminaire Tested: **LD8B200D010 ER8B200935 8LBDW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249585  
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: LD8B200D010 ER8B200935 8LBDW0MW  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 3500 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18477.0 lumens  
Efficiency: N/A  
Efficacy: 82.7 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

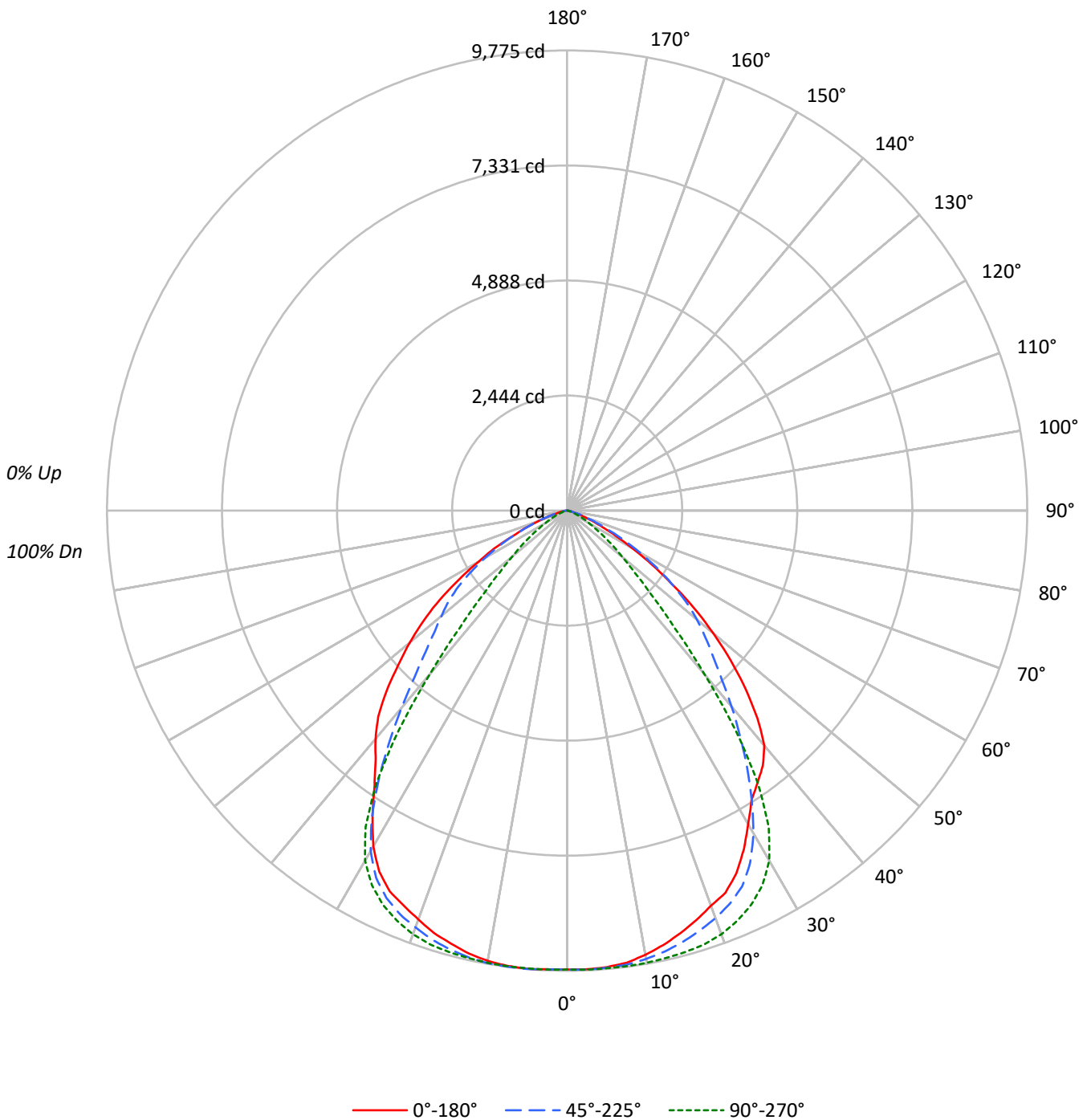
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°  | 300617 | 300617 | 300617 |
| 5°  | 301279 | 302090 | 302415 |
| 10° | 300013 | 305421 | 304109 |
| 15° | 296687 | 309887 | 304042 |
| 20° | 293126 | 314243 | 303256 |
| 25° | 289321 | 314604 | 303566 |
| 30° | 273712 | 305758 | 293275 |
| 35° | 265542 | 265734 | 268497 |
| 40° | 262250 | 182837 | 254880 |
| 45° | 233680 | 109764 | 236872 |
| 50° | 194304 | 73053  | 209363 |
| 55° | 145726 | 50358  | 177515 |
| 60° | 98756  | 33562  | 133934 |
| 65° | 59569  | 21765  | 92016  |
| 70° | 33025  | 11802  | 56611  |
| 75° | 14964  | 4992   | 29309  |
| 80° | 12999  | 5576   | 20439  |
| 85° | 14825  | 7395   | 20379  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 930.4   | 5.0       |
| 10°-20°   | 2702.0  | 14.6      |
| 20°-30°   | 4101.1  | 22.2      |
| 30°-40°   | 4307.4  | 23.3      |
| 40°-50°   | 3229.4  | 17.5      |
| 50°-60°   | 2072.0  | 11.2      |
| 60°-70°   | 886.4   | 4.8       |
| 70°-80°   | 209.4   | 1.1       |
| 80°-90°   | 39.0    | 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°    | 7733.5  | 41.9      |
| 0°-40°    | 12040.8 | 65.2      |
| 0°-60°    | 17342.3 | 93.9      |
| 0°-90°    | 18477.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 18477.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 9749 | 9749 | 9749 | 9749 | 9749 |      |
| 5°  | 9733 | 9749 | 9759 | 9775 | 9770 | 925  |
| 15° | 9294 | 9487 | 9707 | 9644 | 9524 | 2621 |
| 25° | 8503 | 8802 | 9246 | 9079 | 8922 | 3885 |
| 35° | 7054 | 6661 | 7059 | 6975 | 7132 | 4427 |
| 45° | 5358 | 4380 | 2517 | 4254 | 5432 | 4104 |
| 55° | 2711 | 2711 | 937  | 2826 | 3302 | 2459 |
| 65° | 816  | 963  | 298  | 1240 | 1261 | 871  |
| 75° | 126  | 146  | 42   | 251  | 246  | 183  |
| 85° | 42   | 26   | 21   | 42   | 58   | 44   |
| 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°    | 9748.8 | 9748.8 | 9748.8 | 9748.8 | 9748.8 | 9748.8 | 9748.8 | 9748.8 | 9748.8 | 9748.8 | 9748.8 |
| 2.5°  | 9754.1 | 9764.6 | 9759.3 | 9759.3 | 9754.1 | 9759.3 | 9759.3 | 9769.8 | 9769.8 | 9759.3 | 9754.1 |
| 5°    | 9733.1 | 9743.6 | 9743.6 | 9733.1 | 9733.1 | 9759.3 | 9743.6 | 9754.1 | 9754.1 | 9748.8 | 9748.8 |
| 7.5°  | 9686.1 | 9686.1 | 9707.0 | 9691.3 | 9691.3 | 9707.0 | 9701.7 | 9712.2 | 9722.7 | 9728.0 | 9728.0 |
| 10°   | 9581.4 | 9591.9 | 9597.1 | 9597.1 | 9602.3 | 9618.0 | 9628.5 | 9649.5 | 9659.8 | 9670.3 | 9675.6 |
| 12.5° | 9450.6 | 9466.2 | 9471.5 | 9466.2 | 9482.0 | 9502.9 | 9529.1 | 9555.2 | 9571.0 | 9591.9 | 9607.6 |
| 15°   | 9293.5 | 9293.5 | 9304.0 | 9319.8 | 9330.3 | 9361.6 | 9387.8 | 9419.1 | 9461.0 | 9487.2 | 9513.4 |
| 17.5° | 9120.9 | 9131.4 | 9147.0 | 9147.0 | 9168.0 | 9220.3 | 9236.0 | 9283.1 | 9330.3 | 9356.4 | 9408.8 |
| 20°   | 8932.6 | 8942.9 | 8958.7 | 8969.2 | 8995.3 | 9037.2 | 9068.6 | 9110.4 | 9162.8 | 9209.9 | 9262.2 |
| 22.5° | 8786.0 | 8765.1 | 8775.5 | 8786.0 | 8812.2 | 8848.8 | 8885.5 | 8937.7 | 8990.1 | 9037.2 | 9089.5 |
| 25°   | 8503.4 | 8508.6 | 8524.4 | 8534.8 | 8566.3 | 8597.6 | 8639.5 | 8702.2 | 8749.3 | 8801.7 | 8859.2 |
| 27.5° | 8121.4 | 8126.7 | 8152.8 | 8152.8 | 8178.9 | 8231.3 | 8257.4 | 8309.8 | 8372.7 | 8424.9 | 8493.0 |
| 30°   | 7687.1 | 7697.5 | 7697.5 | 7718.5 | 7734.1 | 7760.4 | 7786.5 | 7838.9 | 7870.2 | 7917.3 | 8011.6 |
| 32.5° | 7289.4 | 7299.8 | 7294.6 | 7289.4 | 7273.7 | 7268.4 | 7263.2 | 7273.7 | 7284.2 | 7299.8 | 7336.4 |
| 35°   | 7054.0 | 7027.7 | 7006.9 | 6970.2 | 6928.4 | 6876.0 | 6828.9 | 6766.1 | 6708.5 | 6661.4 | 6609.2 |
| 37.5° | 6828.9 | 6823.6 | 6792.3 | 6739.9 | 6656.2 | 6562.0 | 6452.2 | 6316.1 | 6180.0 | 6033.5 | 5892.3 |
| 40°   | 6514.9 | 6499.2 | 6473.1 | 6399.8 | 6305.6 | 6190.5 | 6044.0 | 5876.5 | 5656.7 | 5431.7 | 5201.5 |
| 42.5° | 5981.1 | 5986.4 | 5955.0 | 5897.4 | 5808.5 | 5698.5 | 5546.8 | 5363.7 | 5128.3 | 4861.3 | 4563.1 |
| 45°   | 5358.5 | 5358.5 | 5348.0 | 5300.9 | 5238.1 | 5149.1 | 5034.0 | 4882.3 | 4652.1 | 4379.9 | 4060.7 |
| 47.5° | 4709.6 | 4714.8 | 4699.1 | 4688.7 | 4662.4 | 4605.0 | 4521.2 | 4406.1 | 4243.9 | 3982.2 | 3663.0 |
| 50°   | 4050.3 | 4050.3 | 4076.4 | 4071.2 | 4071.2 | 4050.3 | 4013.7 | 3945.6 | 3804.3 | 3595.0 | 3296.8 |
| 52.5° | 3390.9 | 3401.4 | 3417.1 | 3438.0 | 3464.1 | 3506.0 | 3464.1 | 3432.7 | 3343.8 | 3181.5 | 2925.2 |
| 55°   | 2710.6 | 2721.1 | 2747.2 | 2783.8 | 2815.3 | 2857.2 | 2867.6 | 2867.6 | 2820.5 | 2710.6 | 2517.0 |
| 57.5° | 2129.8 | 2114.1 | 2135.1 | 2166.4 | 2208.3 | 2250.2 | 2281.5 | 2318.2 | 2312.9 | 2239.7 | 2082.7 |
| 60°   | 1601.3 | 1606.5 | 1622.1 | 1653.6 | 1685.0 | 1721.6 | 1763.5 | 1794.9 | 1810.6 | 1774.0 | 1674.5 |
| 62.5° | 1167.0 | 1167.0 | 1187.8 | 1219.2 | 1234.9 | 1287.3 | 1313.4 | 1329.2 | 1344.8 | 1339.6 | 1276.8 |
| 65°   | 816.4  | 826.8  | 837.3  | 853.0  | 868.6  | 900.0  | 915.7  | 947.1  | 957.6  | 962.9  | 915.7  |
| 67.5° | 575.7  | 559.9  | 570.4  | 580.8  | 596.5  | 617.5  | 648.9  | 648.9  | 664.5  | 664.5  | 633.2  |
| 70°   | 366.3  | 366.3  | 371.6  | 387.2  | 397.7  | 402.9  | 413.4  | 423.8  | 439.6  | 434.3  | 434.3  |
| 72.5° | 246.0  | 240.7  | 246.0  | 251.2  | 256.5  | 272.1  | 272.1  | 277.3  | 287.8  | 293.1  | 272.1  |
| 75°   | 125.6  | 130.9  | 141.2  | 136.1  | 151.7  | 141.2  | 146.5  | 162.2  | 157.0  | 146.5  | 146.5  |
| 77.5° | 104.6  | 104.6  | 104.6  | 99.5   | 109.9  | 109.9  | 104.6  | 115.1  | 109.9  | 109.9  | 104.6  |
| 80°   | 73.2   | 78.5   | 73.2   | 68.0   | 73.2   | 68.0   | 68.0   | 68.0   | 68.0   | 68.0   | 62.7   |
| 82.5° | 57.6   | 47.1   | 52.4   | 47.1   | 52.4   | 52.4   | 47.1   | 41.9   | 41.9   | 47.1   | 41.9   |
| 85°   | 41.9   | 31.4   | 36.6   | 36.6   | 31.4   | 31.4   | 31.4   | 31.4   | 31.4   | 26.1   | 26.1   |
| 87.5° | 26.1   | 15.7   | 15.7   | 15.7   | 20.9   | 20.9   | 20.9   | 15.7   | 20.9   | 20.9   | 10.5   |
| 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°    | 9748.8 | 9748.8 | 9748.8 | 9748.8 | 9748.8 | 9748.8 | 9748.8 | 9748.8 | 9748.8 | 9748.8 | 9748.8 |
| 2.5°  | 9764.6 | 9759.3 | 9769.8 | 9764.6 | 9764.6 | 9759.3 | 9764.6 | 9759.3 | 9769.8 | 9748.8 | 9754.1 |
| 5°    | 9764.6 | 9754.1 | 9759.3 | 9764.6 | 9769.8 | 9759.3 | 9759.3 | 9759.3 | 9769.8 | 9759.3 | 9764.6 |
| 7.5°  | 9743.6 | 9738.3 | 9754.1 | 9764.6 | 9759.3 | 9754.1 | 9764.6 | 9759.3 | 9769.8 | 9764.6 | 9775.0 |
| 10°   | 9701.7 | 9707.0 | 9717.5 | 9733.1 | 9738.3 | 9743.6 | 9754.1 | 9754.1 | 9769.8 | 9748.8 | 9759.3 |
| 12.5° | 9639.0 | 9659.8 | 9686.1 | 9696.5 | 9717.5 | 9717.5 | 9728.0 | 9733.1 | 9743.6 | 9738.3 | 9754.1 |
| 15°   | 9560.5 | 9586.6 | 9618.0 | 9644.2 | 9670.3 | 9686.1 | 9701.7 | 9707.0 | 9722.7 | 9707.0 | 9712.2 |
| 17.5° | 9466.2 | 9497.6 | 9544.7 | 9576.1 | 9618.0 | 9633.7 | 9654.6 | 9665.1 | 9680.8 | 9670.3 | 9675.6 |
| 20°   | 9335.4 | 9372.1 | 9424.4 | 9471.5 | 9497.6 | 9534.2 | 9560.5 | 9576.1 | 9586.6 | 9576.1 | 9581.4 |
| 22.5° | 9152.3 | 9204.7 | 9272.6 | 9309.3 | 9361.6 | 9393.0 | 9398.3 | 9434.9 | 9461.0 | 9434.9 | 9445.4 |
| 25°   | 8937.7 | 8990.1 | 9042.4 | 9120.9 | 9168.0 | 9204.7 | 9241.3 | 9246.5 | 9272.6 | 9267.4 | 9262.2 |
| 27.5° | 8581.9 | 8650.0 | 8738.9 | 8801.7 | 8864.5 | 8922.1 | 8963.9 | 8974.3 | 9000.6 | 8990.1 | 8995.3 |
| 30°   | 8095.2 | 8168.6 | 8252.3 | 8351.7 | 8440.6 | 8498.1 | 8550.5 | 8587.1 | 8613.2 | 8597.6 | 8592.4 |
| 32.5° | 7404.5 | 7477.8 | 7566.8 | 7666.1 | 7770.9 | 7854.5 | 7917.3 | 7964.5 | 7995.8 | 7985.3 | 7959.2 |
| 35°   | 6614.4 | 6635.3 | 6692.9 | 6771.4 | 6860.3 | 6949.2 | 7006.9 | 7059.1 | 7095.7 | 7106.2 | 7106.2 |
| 37.5° | 5803.3 | 5735.3 | 5693.4 | 5693.4 | 5745.7 | 5782.3 | 5834.6 | 5866.0 | 5923.6 | 5944.5 | 5960.3 |
| 40°   | 5018.3 | 4861.3 | 4714.8 | 4605.0 | 4531.7 | 4526.5 | 4526.5 | 4542.1 | 4594.5 | 4662.4 | 4725.3 |
| 42.5° | 4317.1 | 4065.9 | 3840.9 | 3636.8 | 3490.4 | 3406.6 | 3370.0 | 3375.3 | 3417.1 | 3479.9 | 3584.5 |
| 45°   | 3757.2 | 3443.2 | 3160.7 | 2914.7 | 2715.9 | 2585.0 | 2522.3 | 2517.0 | 2548.4 | 2621.6 | 2736.8 |
| 47.5° | 3322.9 | 2987.9 | 2668.7 | 2386.2 | 2171.7 | 2030.3 | 1957.1 | 1936.2 | 1957.1 | 2025.1 | 2161.2 |
| 50°   | 2961.8 | 2616.5 | 2286.8 | 1993.7 | 1763.5 | 1617.0 | 1548.9 | 1522.8 | 1548.9 | 1606.5 | 1742.5 |
| 52.5° | 2626.9 | 2271.0 | 1962.3 | 1679.8 | 1433.8 | 1308.2 | 1234.9 | 1219.2 | 1234.9 | 1302.9 | 1412.9 |
| 55°   | 2239.7 | 1936.2 | 1632.6 | 1350.1 | 1135.6 | 1010.0 | 952.4  | 936.7  | 952.4  | 1015.2 | 1130.3 |
| 57.5° | 1857.7 | 1596.0 | 1329.2 | 1072.7 | 889.6  | 779.6  | 727.4  | 706.4  | 743.0  | 784.9  | 921.0  |
| 60°   | 1501.8 | 1292.6 | 1067.5 | 842.5  | 690.8  | 591.3  | 549.4  | 544.2  | 554.7  | 607.0  | 701.1  |
| 62.5° | 1177.5 | 1004.7 | 826.8  | 643.7  | 518.0  | 476.2  | 423.8  | 418.7  | 429.1  | 460.4  | 533.8  |
| 65°   | 847.8  | 737.9  | 601.8  | 470.9  | 371.6  | 314.0  | 293.1  | 298.3  | 308.7  | 329.7  | 397.7  |
| 67.5° | 591.3  | 512.8  | 418.7  | 329.7  | 256.5  | 230.2  | 209.3  | 204.1  | 209.3  | 246.0  | 282.6  |
| 70°   | 397.7  | 350.6  | 282.6  | 251.2  | 178.0  | 141.2  | 146.5  | 130.9  | 151.7  | 151.7  | 183.1  |
| 72.5° | 261.6  | 230.2  | 188.3  | 146.5  | 125.6  | 99.5   | 99.5   | 94.2   | 104.6  | 109.9  | 136.1  |
| 75°   | 136.1  | 104.6  | 104.6  | 73.2   | 52.4   | 26.1   | 47.1   | 41.9   | 36.6   | 41.9   | 52.4   |
| 77.5° | 94.2   | 78.5   | 73.2   | 57.6   | 52.4   | 41.9   | 41.9   | 41.9   | 41.9   | 47.1   | 52.4   |
| 80°   | 57.6   | 57.6   | 41.9   | 36.6   | 31.4   | 26.1   | 31.4   | 31.4   | 31.4   | 31.4   | 36.6   |
| 82.5° | 36.6   | 31.4   | 31.4   | 26.1   | 26.1   | 20.9   | 20.9   | 20.9   | 20.9   | 20.9   | 31.4   |
| 85°   | 31.4   | 20.9   | 20.9   | 15.7   | 20.9   | 36.6   | 15.7   | 20.9   | 20.9   | 20.9   | 15.7   |
| 87.5° | 10.5   | 15.7   | 15.7   | 15.7   | 10.5   | 5.2    | 10.5   | 15.7   | 15.7   | 26.1   | 20.9   |
| 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: LD8B200D010 ER8B200935 8LBDW0MW

**CANDELA DISTRIBUTION (continued):**

|       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 9748.8 | 9748.8 | 9748.8 | 9748.8 | 9748.8 | 9748.8 | 9748.8 | 9748.8 | 9748.8 | 9748.8 | 9748.8 |
| 2.5°  | 9764.6 | 9769.8 | 9769.8 | 9764.6 | 9764.6 | 9754.1 | 9775.0 | 9759.3 | 9764.6 | 9785.4 | 9769.8 |
| 5°    | 9775.0 | 9780.2 | 9780.2 | 9775.0 | 9775.0 | 9775.0 | 9780.2 | 9780.2 | 9775.0 | 9769.8 | 9780.2 |
| 7.5°  | 9795.9 | 9790.7 | 9790.7 | 9780.2 | 9780.2 | 9769.8 | 9780.2 | 9764.6 | 9775.0 | 9764.6 | 9780.2 |
| 10°   | 9769.8 | 9775.0 | 9769.8 | 9764.6 | 9764.6 | 9759.3 | 9759.3 | 9743.6 | 9748.8 | 9733.1 | 9743.6 |
| 12.5° | 9754.1 | 9748.8 | 9748.8 | 9738.3 | 9728.0 | 9717.5 | 9712.2 | 9696.5 | 9696.5 | 9659.8 | 9675.6 |
| 15°   | 9712.2 | 9717.5 | 9701.7 | 9680.8 | 9670.3 | 9644.2 | 9633.7 | 9612.7 | 9591.9 | 9565.7 | 9571.0 |
| 17.5° | 9675.6 | 9659.8 | 9639.0 | 9618.0 | 9576.1 | 9555.2 | 9534.2 | 9502.9 | 9492.4 | 9461.0 | 9450.6 |
| 20°   | 9565.7 | 9555.2 | 9529.1 | 9492.4 | 9466.2 | 9419.1 | 9398.3 | 9366.9 | 9340.6 | 9309.3 | 9293.5 |
| 22.5° | 9424.4 | 9413.9 | 9382.5 | 9345.9 | 9304.0 | 9283.1 | 9262.2 | 9204.7 | 9178.4 | 9147.0 | 9141.8 |
| 25°   | 9246.5 | 9230.8 | 9199.4 | 9157.5 | 9136.5 | 9079.1 | 9058.1 | 9016.2 | 9005.8 | 8974.3 | 8969.2 |
| 27.5° | 8974.3 | 8953.4 | 8916.8 | 8864.5 | 8827.8 | 8791.2 | 8770.3 | 8738.9 | 8728.5 | 8697.0 | 8691.9 |
| 30°   | 8566.3 | 8540.0 | 8466.8 | 8445.9 | 8383.0 | 8346.4 | 8346.4 | 8304.5 | 8309.8 | 8288.9 | 8288.9 |
| 32.5° | 7922.6 | 7880.7 | 7823.1 | 7781.2 | 7739.4 | 7718.5 | 7718.5 | 7702.8 | 7713.3 | 7713.3 | 7723.7 |
| 35°   | 7069.6 | 7012.1 | 6980.6 | 6954.5 | 6954.5 | 6975.4 | 7038.2 | 7054.0 | 7085.3 | 7111.5 | 7132.5 |
| 37.5° | 5975.9 | 5970.8 | 6007.4 | 6038.7 | 6117.2 | 6206.2 | 6316.1 | 6410.3 | 6499.2 | 6562.0 | 6624.8 |
| 40°   | 4793.3 | 4924.2 | 5028.8 | 5175.4 | 5295.6 | 5468.3 | 5667.2 | 5829.4 | 5981.1 | 6091.1 | 6206.2 |
| 42.5° | 3741.5 | 3908.9 | 4128.8 | 4343.2 | 4557.8 | 4793.3 | 5055.0 | 5280.0 | 5478.8 | 5630.6 | 5750.9 |
| 45°   | 2914.7 | 3144.9 | 3411.9 | 3684.0 | 3961.3 | 4254.4 | 4526.5 | 4756.7 | 4966.0 | 5123.0 | 5243.4 |
| 47.5° | 2349.5 | 2600.7 | 2904.2 | 3202.5 | 3516.5 | 3825.2 | 4128.8 | 4327.6 | 4500.2 | 4625.8 | 4735.8 |
| 50°   | 1941.3 | 2208.3 | 2527.5 | 2867.6 | 3181.5 | 3490.4 | 3752.0 | 3945.6 | 4086.9 | 4196.8 | 4264.8 |
| 52.5° | 1622.1 | 1904.7 | 2244.9 | 2585.0 | 2899.0 | 3181.5 | 3417.1 | 3563.6 | 3678.7 | 3757.2 | 3819.9 |
| 55°   | 1339.6 | 1611.8 | 1931.0 | 2250.2 | 2558.9 | 2825.7 | 3019.3 | 3129.3 | 3218.2 | 3265.3 | 3301.9 |
| 57.5° | 1093.7 | 1344.8 | 1637.9 | 1931.0 | 2197.8 | 2417.6 | 2569.4 | 2679.2 | 2721.1 | 2757.7 | 2752.5 |
| 60°   | 858.2  | 1093.7 | 1360.6 | 1611.8 | 1842.0 | 2019.8 | 2129.8 | 2192.6 | 2223.9 | 2239.7 | 2229.2 |
| 62.5° | 675.0  | 889.6  | 1093.7 | 1313.4 | 1480.9 | 1632.6 | 1737.4 | 1737.4 | 1753.0 | 1758.2 | 1774.0 |
| 65°   | 502.3  | 664.5  | 842.5  | 1004.7 | 1140.7 | 1240.2 | 1297.8 | 1313.4 | 1334.4 | 1329.2 | 1318.7 |
| 67.5° | 371.6  | 491.9  | 622.7  | 743.0  | 837.3  | 900.0  | 941.9  | 978.6  | 973.4  | 962.9  | 957.6  |
| 70°   | 256.5  | 335.0  | 450.1  | 523.3  | 591.3  | 654.2  | 664.5  | 669.8  | 675.0  | 680.3  | 669.8  |
| 72.5° | 178.0  | 235.5  | 298.3  | 361.1  | 402.9  | 429.1  | 455.3  | 460.4  | 460.4  | 460.4  | 455.3  |
| 75°   | 89.0   | 120.4  | 178.0  | 204.1  | 240.7  | 251.2  | 272.1  | 272.1  | 287.8  | 266.8  | 261.6  |
| 77.5° | 78.5   | 94.2   | 125.6  | 146.5  | 162.2  | 178.0  | 183.1  | 198.8  | 193.6  | 183.1  | 188.3  |
| 80°   | 47.1   | 57.6   | 78.5   | 89.0   | 109.9  | 115.1  | 120.4  | 125.6  | 120.4  | 125.6  | 125.6  |
| 82.5° | 36.6   | 41.9   | 52.4   | 52.4   | 68.0   | 68.0   | 73.2   | 73.2   | 78.5   | 78.5   | 78.5   |
| 85°   | 20.9   | 36.6   | 31.4   | 62.7   | 41.9   | 41.9   | 52.4   | 62.7   | 52.4   | 52.4   | 62.7   |
| 87.5° | 20.9   | 20.9   | 15.7   | 20.9   | 20.9   | 20.9   | 26.1   | 31.4   | 31.4   | 36.6   | 31.4   |
| 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: P249585

CATALOG NUMBER: LD8B200D010 ER8B200935 8LBDW0MW

**CANDELA DISTRIBUTION (continued):**

|       | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 9748.8 | 9748.8 | 9748.8 | 9748.8 |
| 2.5°  | 9764.6 | 9775.0 | 9759.3 | 9754.1 |
| 5°    | 9780.2 | 9780.2 | 9769.8 | 9769.8 |
| 7.5°  | 9780.2 | 9780.2 | 9764.6 | 9754.1 |
| 10°   | 9738.3 | 9738.3 | 9722.7 | 9712.2 |
| 12.5° | 9659.8 | 9659.8 | 9654.6 | 9639.0 |
| 15°   | 9560.5 | 9560.5 | 9539.5 | 9523.9 |
| 17.5° | 9424.4 | 9434.9 | 9408.8 | 9408.8 |
| 20°   | 9277.9 | 9272.6 | 9251.8 | 9241.3 |
| 22.5° | 9126.2 | 9115.7 | 9110.4 | 9079.1 |
| 25°   | 8963.9 | 8953.4 | 8937.7 | 8922.1 |
| 27.5° | 8686.6 | 8681.4 | 8665.6 | 8644.7 |
| 30°   | 8262.7 | 8257.4 | 8236.5 | 8236.5 |
| 32.5° | 7713.3 | 7708.0 | 7687.1 | 7692.4 |
| 35°   | 7142.8 | 7163.8 | 7153.3 | 7132.5 |
| 37.5° | 6666.7 | 6682.4 | 6692.9 | 6682.4 |
| 40°   | 6269.0 | 6316.1 | 6321.3 | 6331.8 |
| 42.5° | 5845.1 | 5907.9 | 5928.9 | 5939.3 |
| 45°   | 5337.5 | 5395.1 | 5442.2 | 5431.7 |
| 47.5° | 4819.4 | 4861.3 | 4903.2 | 4871.8 |
| 50°   | 4322.4 | 4348.5 | 4364.2 | 4364.2 |
| 52.5° | 3851.4 | 3851.4 | 3846.2 | 3851.4 |
| 55°   | 3312.4 | 3312.4 | 3291.5 | 3301.9 |
| 57.5° | 2747.2 | 2757.7 | 2742.0 | 2715.9 |
| 60°   | 2223.9 | 2197.8 | 2187.3 | 2171.7 |
| 62.5° | 1732.1 | 1732.1 | 1695.5 | 1742.5 |
| 65°   | 1297.8 | 1282.1 | 1266.3 | 1261.1 |
| 67.5° | 941.9  | 936.7  | 921.0  | 915.7  |
| 70°   | 664.5  | 643.7  | 638.4  | 627.9  |
| 72.5° | 444.8  | 444.8  | 434.3  | 434.3  |
| 75°   | 272.1  | 246.0  | 240.7  | 246.0  |
| 77.5° | 188.3  | 183.1  | 183.1  | 178.0  |
| 80°   | 125.6  | 120.4  | 130.9  | 115.1  |
| 82.5° | 78.5   | 83.7   | 78.5   | 83.7   |
| 85°   | 52.4   | 62.7   | 57.6   | 57.6   |
| 87.5° | 31.4   | 31.4   | 31.4   | 31.4   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)