

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: P249704

Luminaire Tested: **LD8B150D010 ER8B150827 8LBSW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249704  
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: LD8B150D010 ER8B150827 8LBSW0LI  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16116.0 lumens  
Efficiency: N/A  
Efficacy: 101.7 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

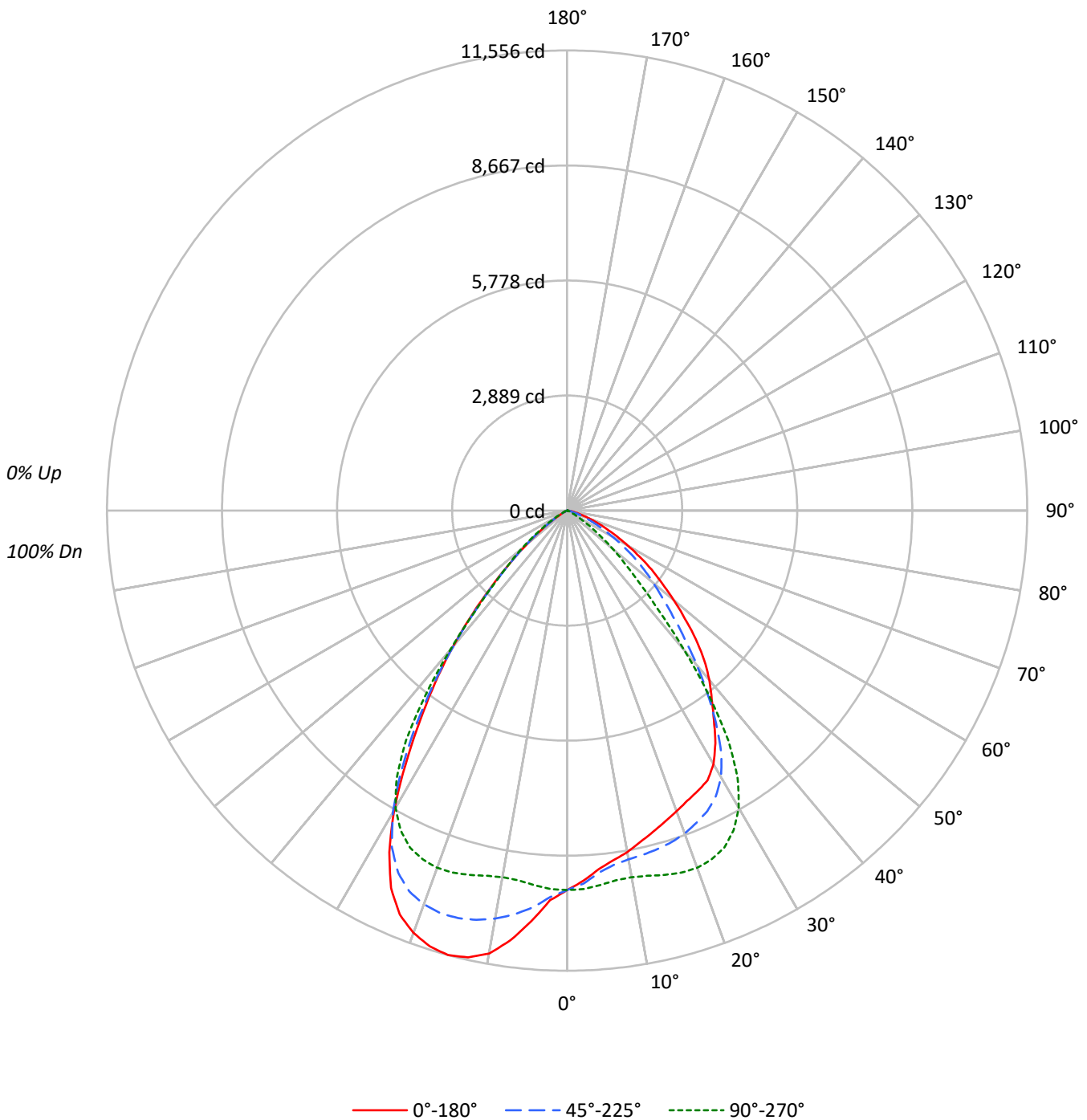
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 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°  | 293852 | 293852 | 293852 |
| 5°  | 279952 | 292216 | 320341 |
| 10° | 272731 | 292670 | 353603 |
| 15° | 266547 | 302369 | 368899 |
| 20° | 263612 | 313294 | 370285 |
| 25° | 264231 | 317721 | 355899 |
| 30° | 261777 | 306809 | 309504 |
| 35° | 241894 | 265523 | 242225 |
| 40° | 223530 | 184093 | 179613 |
| 45° | 199045 | 111081 | 114766 |
| 50° | 167478 | 71566  | 64946  |
| 55° | 139334 | 39257  | 29692  |
| 60° | 108754 | 17022  | 9337   |
| 65° | 80254  | 8449   | 4546   |
| 70° | 55809  | 5220   | 2002   |
| 75° | 33956  | 1072   | 0      |
| 80° | 24506  | 1598   | 0      |
| 85° | 15744  | 1557   | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 916.1   | 5.7       |
| 10°-20°   | 2741.8  | 17.0      |
| 20°-30°   | 4198.8  | 26.1      |
| 30°-40°   | 4116.2  | 25.5      |
| 40°-50°   | 2478.8  | 15.4      |
| 50°-60°   | 1140.9  | 7.1       |
| 60°-70°   | 400.8   | 2.5       |
| 70°-80°   | 104.8   | 0.7       |
| 80°-90°   | 17.9    | 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°    | 7856.7  | 48.8      |
| 0°-40°    | 11972.8 | 74.3      |
| 0°-60°    | 15592.5 | 96.8      |
| 0°-90°    | 16116.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 16116.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135°  | 180°  | Flux |
|-----|------|------|------|-------|-------|------|
| 0°  | 9529 | 9529 | 9529 | 9529  | 9529  |      |
| 5°  | 9044 | 9129 | 9440 | 10006 | 10349 | 854  |
| 15° | 8349 | 8799 | 9472 | 10594 | 11556 | 2359 |
| 25° | 7766 | 8327 | 9338 | 10042 | 10460 | 3577 |
| 35° | 6426 | 6515 | 7054 | 6648  | 6435  | 4024 |
| 45° | 4564 | 3758 | 2547 | 2565  | 2632  | 3500 |
| 55° | 2592 | 2053 | 730  | 574   | 552   | 2312 |
| 65° | 1100 | 761  | 116  | 58    | 62    | 1120 |
| 75° | 285  | 165  | 9    | 0     | 0     | 346  |
| 85° | 44   | 22   | 4    | 0     | 0     | 61   |
| 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°    | 9529.4 | 9529.4 | 9529.4 | 9529.4 | 9529.4 | 9529.4 | 9529.4 | 9529.4 | 9529.4 | 9529.4 | 9529.4 |
| 2.5°  | 9306.7 | 9315.7 | 9315.7 | 9315.7 | 9333.5 | 9338.1 | 9333.5 | 9338.1 | 9346.9 | 9378.0 | 9391.4 |
| 5°    | 9044.1 | 9030.7 | 9039.7 | 9035.1 | 9057.5 | 9070.8 | 9061.9 | 9075.2 | 9106.4 | 9128.8 | 9150.9 |
| 7.5°  | 8857.1 | 8857.1 | 8857.1 | 8865.9 | 8879.3 | 8906.1 | 8901.7 | 8910.5 | 8941.6 | 8972.8 | 9003.9 |
| 10°   | 8710.1 | 8705.7 | 8705.7 | 8727.9 | 8745.7 | 8776.8 | 8785.8 | 8812.6 | 8852.5 | 8892.7 | 8928.2 |
| 12.5° | 8518.6 | 8523.2 | 8545.3 | 8567.7 | 8607.7 | 8656.6 | 8683.4 | 8719.1 | 8781.4 | 8848.1 | 8888.3 |
| 15°   | 8349.4 | 8353.8 | 8371.8 | 8416.1 | 8465.2 | 8523.2 | 8580.9 | 8638.8 | 8714.5 | 8799.2 | 8870.5 |
| 17.5° | 8184.6 | 8189.0 | 8202.4 | 8251.5 | 8313.8 | 8389.5 | 8456.3 | 8532.0 | 8630.0 | 8727.9 | 8817.0 |
| 20°   | 8033.2 | 8028.8 | 8051.0 | 8095.5 | 8175.8 | 8246.9 | 8313.8 | 8402.9 | 8509.8 | 8630.0 | 8732.3 |
| 22.5° | 7886.2 | 7886.2 | 7908.6 | 7953.1 | 8024.4 | 8095.5 | 8166.8 | 8260.3 | 8367.2 | 8483.0 | 8603.3 |
| 25°   | 7766.0 | 7761.6 | 7792.8 | 7815.1 | 7868.5 | 7939.8 | 8015.5 | 8091.1 | 8198.0 | 8327.2 | 8442.9 |
| 27.5° | 7637.0 | 7632.6 | 7637.0 | 7663.7 | 7712.7 | 7766.0 | 7823.9 | 7890.8 | 7979.9 | 8086.8 | 8198.0 |
| 30°   | 7351.9 | 7356.3 | 7356.3 | 7378.7 | 7405.5 | 7463.2 | 7494.4 | 7561.3 | 7641.4 | 7730.4 | 7828.5 |
| 32.5° | 6928.9 | 6933.3 | 6933.3 | 6942.3 | 6964.5 | 6991.2 | 7018.0 | 7066.9 | 7129.2 | 7204.9 | 7294.0 |
| 35°   | 6425.8 | 6425.8 | 6421.2 | 6425.8 | 6439.2 | 6439.2 | 6461.3 | 6439.2 | 6470.3 | 6514.9 | 6581.6 |
| 37.5° | 5962.6 | 5953.6 | 5944.8 | 5935.8 | 5922.5 | 5900.3 | 5869.1 | 5815.6 | 5802.2 | 5784.4 | 5788.8 |
| 40°   | 5553.0 | 5548.6 | 5521.8 | 5499.4 | 5454.9 | 5401.6 | 5325.9 | 5232.4 | 5156.7 | 5067.6 | 4991.9 |
| 42.5° | 5098.8 | 5094.2 | 5072.0 | 5031.9 | 4982.9 | 4902.8 | 4782.6 | 4657.9 | 4506.5 | 4372.9 | 4234.9 |
| 45°   | 4564.3 | 4577.7 | 4546.5 | 4502.0 | 4444.0 | 4368.3 | 4234.9 | 4083.3 | 3931.9 | 3758.4 | 3584.6 |
| 47.5° | 4007.6 | 4003.2 | 3981.1 | 3954.3 | 3905.4 | 3829.7 | 3740.6 | 3575.8 | 3415.4 | 3255.2 | 3077.1 |
| 50°   | 3491.1 | 3473.3 | 3464.4 | 3437.8 | 3406.6 | 3344.3 | 3250.6 | 3117.0 | 2974.6 | 2823.2 | 2658.4 |
| 52.5° | 3001.4 | 3001.4 | 2979.0 | 2961.2 | 2934.5 | 2885.5 | 2805.4 | 2698.6 | 2578.3 | 2435.7 | 2262.2 |
| 55°   | 2591.7 | 2582.7 | 2560.6 | 2538.2 | 2511.4 | 2480.3 | 2409.2 | 2320.1 | 2190.9 | 2052.8 | 1901.4 |
| 57.5° | 2155.3 | 2150.7 | 2141.9 | 2115.2 | 2101.8 | 2070.6 | 1990.5 | 1901.4 | 1790.2 | 1670.0 | 1545.1 |
| 60°   | 1763.4 | 1745.7 | 1727.7 | 1709.9 | 1687.7 | 1656.6 | 1603.1 | 1527.4 | 1433.9 | 1327.0 | 1202.4 |
| 62.5° | 1411.7 | 1438.3 | 1384.9 | 1384.9 | 1340.4 | 1313.6 | 1264.7 | 1220.2 | 1122.1 | 1024.2 | 917.4  |
| 65°   | 1099.9 | 1099.9 | 1077.6 | 1059.8 | 1033.0 | 1001.9 | 952.9  | 908.4  | 837.1  | 761.4  | 685.7  |
| 67.5° | 841.7  | 837.1  | 814.9  | 797.1  | 774.8  | 757.0  | 721.4  | 667.9  | 614.6  | 552.3  | 489.8  |
| 70°   | 619.0  | 614.6  | 610.0  | 578.8  | 561.1  | 538.9  | 512.1  | 476.6  | 436.4  | 391.9  | 334.0  |
| 72.5° | 445.2  | 445.2  | 432.0  | 418.6  | 400.9  | 382.9  | 356.3  | 334.0  | 298.4  | 267.2  | 227.1  |
| 75°   | 285.0  | 280.6  | 280.6  | 258.3  | 258.3  | 231.5  | 213.7  | 200.3  | 182.6  | 164.8  | 129.2  |
| 77.5° | 204.9  | 200.3  | 195.9  | 187.0  | 178.2  | 169.2  | 155.8  | 138.0  | 124.6  | 106.9  | 93.5   |
| 80°   | 138.0  | 129.2  | 124.6  | 124.6  | 111.3  | 106.9  | 111.3  | 84.7   | 80.1   | 66.7   | 57.9   |
| 82.5° | 84.7   | 84.7   | 80.1   | 80.1   | 75.7   | 71.3   | 57.9   | 57.9   | 53.5   | 48.9   | 40.1   |
| 85°   | 44.5   | 57.9   | 40.1   | 44.5   | 40.1   | 44.5   | 40.1   | 31.2   | 26.8   | 22.2   | 22.2   |
| 87.5° | 26.8   | 17.8   | 17.8   | 26.8   | 22.2   | 17.8   | 17.8   | 17.8   | 13.4   | 9.0    | 9.0    |
| 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°    | 9529.4 | 9529.4 | 9529.4 | 9529.4 | 9529.4 | 9529.4 | 9529.4 | 9529.4 | 9529.4 | 9529.4 | 9529.4 |
| 2.5°  | 9382.6 | 9413.8 | 9409.2 | 9449.3 | 9462.7 | 9493.9 | 9493.9 | 9516.0 | 9529.4 | 9560.6 | 9587.3 |
| 5°    | 9159.9 | 9208.9 | 9222.2 | 9271.2 | 9311.3 | 9360.2 | 9391.4 | 9440.3 | 9484.9 | 9551.8 | 9614.1 |
| 7.5°  | 9021.9 | 9061.9 | 9088.6 | 9146.5 | 9191.1 | 9244.4 | 9297.9 | 9364.6 | 9427.0 | 9507.2 | 9596.3 |
| 10°   | 8955.0 | 9008.5 | 9048.5 | 9106.4 | 9159.9 | 9217.8 | 9271.2 | 9346.9 | 9418.2 | 9520.6 | 9618.5 |
| 12.5° | 8937.2 | 8999.5 | 9048.5 | 9128.8 | 9182.1 | 9244.4 | 9306.7 | 9391.4 | 9467.1 | 9574.0 | 9685.4 |
| 15°   | 8937.2 | 9021.9 | 9088.6 | 9177.7 | 9240.0 | 9320.1 | 9387.0 | 9471.5 | 9556.2 | 9667.4 | 9774.3 |
| 17.5° | 8919.4 | 9021.9 | 9106.4 | 9208.9 | 9288.9 | 9369.2 | 9453.7 | 9534.0 | 9622.9 | 9729.9 | 9850.0 |
| 20°   | 8848.1 | 8977.4 | 9079.6 | 9199.9 | 9284.5 | 9373.6 | 9458.3 | 9547.2 | 9640.9 | 9752.1 | 9854.6 |
| 22.5° | 8723.5 | 8874.9 | 8990.7 | 9119.8 | 9217.8 | 9306.7 | 9391.4 | 9480.5 | 9582.9 | 9689.8 | 9796.7 |
| 25°   | 8558.7 | 8701.1 | 8826.0 | 8959.4 | 9057.5 | 9155.3 | 9235.6 | 9338.1 | 9431.5 | 9534.0 | 9618.5 |
| 27.5° | 8309.3 | 8460.7 | 8580.9 | 8719.1 | 8808.0 | 8901.7 | 8968.4 | 9053.1 | 9142.1 | 9226.6 | 9293.5 |
| 30°   | 7935.4 | 8073.4 | 8198.0 | 8322.6 | 8411.7 | 8478.6 | 8549.7 | 8616.6 | 8674.6 | 8732.3 | 8790.2 |
| 32.5° | 7387.5 | 7512.3 | 7632.6 | 7748.2 | 7819.5 | 7877.4 | 7930.8 | 7970.9 | 8002.1 | 8033.2 | 8037.6 |
| 35°   | 6635.1 | 6737.4 | 6813.1 | 6915.5 | 6982.4 | 7035.8 | 7035.8 | 7053.5 | 7049.1 | 7035.8 | 7022.4 |
| 37.5° | 5793.4 | 5833.4 | 5864.5 | 5904.7 | 5909.1 | 5909.1 | 5882.5 | 5860.1 | 5824.6 | 5815.6 | 5788.8 |
| 40°   | 4916.2 | 4862.7 | 4822.5 | 4769.2 | 4738.0 | 4671.1 | 4613.4 | 4573.3 | 4515.3 | 4506.5 | 4497.6 |
| 42.5° | 4083.3 | 3958.7 | 3847.4 | 3754.0 | 3647.1 | 3553.4 | 3468.9 | 3406.6 | 3362.1 | 3357.5 | 3362.1 |
| 45°   | 3406.6 | 3264.0 | 3099.2 | 2970.2 | 2850.0 | 2734.1 | 2622.9 | 2547.2 | 2507.0 | 2498.1 | 2507.0 |
| 47.5° | 2894.5 | 2729.7 | 2569.4 | 2422.4 | 2293.3 | 2164.1 | 2052.8 | 1950.4 | 1901.4 | 1888.1 | 1883.7 |
| 50°   | 2489.3 | 2320.1 | 2150.7 | 1999.3 | 1856.9 | 1727.7 | 1589.7 | 1491.8 | 1429.5 | 1407.1 | 1389.3 |
| 52.5° | 2093.0 | 1941.6 | 1767.8 | 1612.0 | 1469.4 | 1318.0 | 1175.6 | 1064.2 | 1001.9 | 975.3  | 957.3  |
| 55°   | 1745.7 | 1594.3 | 1433.9 | 1282.5 | 1131.1 | 979.7  | 837.1  | 730.2  | 663.5  | 632.4  | 610.0  |
| 57.5° | 1393.7 | 1251.3 | 1113.3 | 961.9  | 837.1  | 690.3  | 547.7  | 454.2  | 396.3  | 360.7  | 342.9  |
| 60°   | 1077.6 | 966.3  | 846.1  | 721.4  | 601.2  | 481.0  | 365.1  | 276.0  | 231.5  | 204.9  | 182.6  |
| 62.5° | 814.9  | 721.4  | 641.1  | 534.3  | 440.8  | 338.4  | 249.5  | 178.2  | 138.0  | 115.8  | 106.9  |
| 65°   | 587.8  | 516.5  | 445.2  | 378.5  | 311.8  | 236.1  | 169.2  | 115.8  | 80.1   | 66.7   | 62.3   |
| 67.5° | 418.6  | 360.7  | 307.2  | 262.7  | 213.7  | 169.2  | 120.2  | 80.1   | 62.3   | 53.5   | 48.9   |
| 70°   | 293.8  | 249.5  | 213.7  | 173.8  | 142.4  | 111.3  | 93.5   | 57.9   | 35.6   | 40.1   | 31.2   |
| 72.5° | 195.9  | 164.8  | 147.0  | 120.2  | 97.9   | 80.1   | 57.9   | 40.1   | 40.1   | 31.2   | 26.8   |
| 75°   | 106.9  | 97.9   | 75.7   | 57.9   | 48.9   | 44.5   | 17.8   | 9.0    | 4.4    | 13.4   | 4.4    |
| 77.5° | 75.7   | 66.7   | 57.9   | 48.9   | 40.1   | 31.2   | 17.8   | 17.8   | 13.4   | 17.8   | 9.0    |
| 80°   | 48.9   | 40.1   | 35.6   | 35.6   | 22.2   | 13.4   | 9.0    | 9.0    | 13.4   | 4.4    | 4.4    |
| 82.5° | 31.2   | 26.8   | 22.2   | 22.2   | 22.2   | 13.4   | 13.4   | 13.4   | 13.4   | 9.0    | 9.0    |
| 85°   | 17.8   | 13.4   | 9.0    | 9.0    | 4.4    | 9.0    | 0.0    | 4.4    | 4.4    | 0.0    | 0.0    |
| 87.5° | 9.0    | 4.4    | 4.4    | 4.4    | 4.4    | 0.0    | 0.0    | 4.4    | 0.0    | 4.4    | 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    |



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**CANDELA DISTRIBUTION (continued):**

|       | 110°   | 115°    | 120°    | 125°    | 130°    | 135°    | 140°    | 145°    | 150°    | 155°    | 160°    |
|-------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 9529.4 | 9529.4  | 9529.4  | 9529.4  | 9529.4  | 9529.4  | 9529.4  | 9529.4  | 9529.4  | 9529.4  | 9529.4  |
| 2.5°  | 9605.1 | 9622.9  | 9645.3  | 9663.0  | 9703.2  | 9712.0  | 9729.9  | 9747.7  | 9761.1  | 9774.3  | 9778.9  |
| 5°    | 9667.4 | 9734.3  | 9796.7  | 9863.4  | 9948.1  | 10006.0 | 10072.7 | 10130.6 | 10188.5 | 10237.5 | 10273.0 |
| 7.5°  | 9685.4 | 9787.7  | 9881.3  | 9997.0  | 10121.6 | 10228.7 | 10339.9 | 10451.2 | 10567.0 | 10656.1 | 10731.8 |
| 10°   | 9721.0 | 9845.6  | 9965.8  | 10103.9 | 10264.2 | 10406.7 | 10544.7 | 10691.7 | 10838.7 | 10963.3 | 11074.7 |
| 12.5° | 9783.3 | 9921.3  | 10050.5 | 10201.9 | 10366.7 | 10526.9 | 10678.3 | 10843.1 | 10999.0 | 11137.1 | 11261.7 |
| 15°   | 9885.7 | 10014.8 | 10139.6 | 10282.0 | 10446.8 | 10593.8 | 10745.2 | 10905.4 | 11061.4 | 11203.8 | 11319.6 |
| 17.5° | 9952.5 | 10072.7 | 10197.3 | 10326.6 | 10464.6 | 10598.2 | 10740.6 | 10883.2 | 11025.6 | 11154.8 | 11261.7 |
| 20°   | 9952.5 | 10068.3 | 10161.8 | 10277.6 | 10406.7 | 10522.5 | 10638.3 | 10763.0 | 10887.6 | 10994.5 | 11096.9 |
| 22.5° | 9872.4 | 9983.6  | 10054.9 | 10144.0 | 10255.3 | 10353.3 | 10415.6 | 10553.6 | 10647.1 | 10740.6 | 10816.3 |
| 25°   | 9685.4 | 9765.5  | 9823.4  | 9885.7  | 9974.8  | 10041.5 | 10095.1 | 10175.2 | 10268.6 | 10304.4 | 10357.7 |
| 27.5° | 9346.9 | 9404.8  | 9435.9  | 9449.3  | 9493.9  | 9529.4  | 9538.4  | 9574.0  | 9614.1  | 9622.9  | 9645.3  |
| 30°   | 8812.6 | 8817.0  | 8803.6  | 8799.2  | 8776.8  | 8750.3  | 8745.7  | 8741.3  | 8723.5  | 8705.7  | 8710.1  |
| 32.5° | 8006.5 | 7984.3  | 7930.8  | 7873.0  | 7815.1  | 7752.8  | 7717.1  | 7672.5  | 7645.8  | 7619.2  | 7588.0  |
| 35°   | 6964.5 | 6911.1  | 6835.4  | 6764.1  | 6697.4  | 6648.3  | 6568.2  | 6541.4  | 6514.9  | 6479.1  | 6470.3  |
| 37.5° | 5739.9 | 5708.7  | 5637.4  | 5584.1  | 5548.6  | 5526.2  | 5486.0  | 5459.5  | 5459.5  | 5446.1  | 5437.1  |
| 40°   | 4475.2 | 4466.4  | 4439.6  | 4453.0  | 4435.2  | 4444.0  | 4439.6  | 4430.7  | 4453.0  | 4453.0  | 4462.0  |
| 42.5° | 3357.5 | 3362.1  | 3375.5  | 3384.3  | 3411.0  | 3415.4  | 3437.8  | 3437.8  | 3451.2  | 3464.4  | 3473.3  |
| 45°   | 2498.1 | 2516.0  | 2516.0  | 2533.8  | 2560.6  | 2565.0  | 2573.8  | 2578.3  | 2587.1  | 2609.5  | 2618.3  |
| 47.5° | 1874.7 | 1879.1  | 1879.1  | 1883.7  | 1892.5  | 1901.4  | 1897.1  | 1901.4  | 1914.8  | 1905.8  | 1914.8  |
| 50°   | 1384.9 | 1389.3  | 1376.0  | 1362.6  | 1376.0  | 1376.0  | 1371.6  | 1358.2  | 1371.6  | 1353.8  | 1362.6  |
| 52.5° | 944.1  | 939.5   | 926.2   | 930.7   | 921.8   | 917.4   | 917.4   | 908.4   | 908.4   | 908.4   | 890.6   |
| 55°   | 596.8  | 596.8   | 587.8   | 587.8   | 583.4   | 574.4   | 570.0   | 565.4   | 561.1   | 556.7   | 556.7   |
| 57.5° | 334.0  | 338.4   | 325.2   | 320.6   | 325.2   | 320.6   | 311.8   | 311.8   | 311.8   | 298.4   | 307.2   |
| 60°   | 182.6  | 178.2   | 173.8   | 169.2   | 164.8   | 169.2   | 169.2   | 160.4   | 160.4   | 160.4   | 164.8   |
| 62.5° | 97.9   | 97.9    | 93.5    | 93.5    | 89.1    | 89.1    | 97.9    | 84.7    | 89.1    | 84.7    | 89.1    |
| 65°   | 53.5   | 66.7    | 48.9    | 48.9    | 62.3    | 57.9    | 53.5    | 53.5    | 57.9    | 48.9    | 53.5    |
| 67.5° | 57.9   | 40.1    | 35.6    | 40.1    | 35.6    | 35.6    | 35.6    | 44.5    | 40.1    | 31.2    | 40.1    |
| 70°   | 26.8   | 31.2    | 31.2    | 22.2    | 35.6    | 17.8    | 31.2    | 17.8    | 26.8    | 22.2    | 26.8    |
| 72.5° | 26.8   | 26.8    | 26.8    | 17.8    | 26.8    | 17.8    | 22.2    | 22.2    | 17.8    | 17.8    | 26.8    |
| 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° | 9.0    | 9.0     | 4.4     | 4.4     | 4.4     | 4.4     | 9.0     | 9.0     | 9.0     | 0.0     | 4.4     |
| 80°   | 9.0    | 9.0     | 0.0     | 4.4     | 0.0     | 0.0     | 4.4     | 0.0     | 4.4     | 0.0     | 9.0     |
| 82.5° | 4.4    | 9.0     | 4.4     | 4.4     | 9.0     | 9.0     | 9.0     | 4.4     | 4.4     | 4.4     | 4.4     |
| 85°   | 0.0    | 4.4     | 0.0     | 0.0     | 0.0     | 0.0     | 9.0     | 0.0     | 0.0     | 0.0     | 4.4     |
| 87.5° | 0.0    | 4.4     | 0.0     | 0.0     | 0.0     | 0.0     | 4.4     | 4.4     | 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: P249704

CATALOG NUMBER: LD8B150D010 ER8B150827 8LBSW0LI

**CANDELA DISTRIBUTION (continued):**

|       | 165°    | 170°    | 175°    | 180°    |
|-------|---------|---------|---------|---------|
| 0°    | 9529.4  | 9529.4  | 9529.4  | 9529.4  |
| 2.5°  | 9783.3  | 9787.7  | 9796.7  | 9792.3  |
| 5°    | 10299.8 | 10335.5 | 10353.3 | 10348.9 |
| 7.5°  | 10785.1 | 10847.6 | 10883.2 | 10883.2 |
| 10°   | 11159.2 | 11230.5 | 11283.9 | 11292.9 |
| 12.5° | 11359.6 | 11439.9 | 11511.2 | 11493.2 |
| 15°   | 11417.5 | 11497.8 | 11568.9 | 11555.5 |
| 17.5° | 11350.8 | 11430.9 | 11484.4 | 11475.4 |
| 20°   | 11168.2 | 11234.9 | 11288.5 | 11283.9 |
| 22.5° | 10883.2 | 10941.1 | 10985.7 | 10981.1 |
| 25°   | 10402.3 | 10442.4 | 10478.0 | 10460.2 |
| 27.5° | 9663.0  | 9676.4  | 9698.6  | 9672.0  |
| 30°   | 8679.0  | 8687.8  | 8696.7  | 8692.3  |
| 32.5° | 7574.6  | 7570.1  | 7561.3  | 7552.3  |
| 35°   | 6456.9  | 6456.9  | 6461.3  | 6434.6  |
| 37.5° | 5441.5  | 5437.1  | 5450.5  | 5437.1  |
| 40°   | 4470.8  | 4466.4  | 4484.2  | 4462.0  |
| 42.5° | 3486.7  | 3500.1  | 3504.5  | 3504.5  |
| 45°   | 2622.9  | 2627.3  | 2631.7  | 2631.7  |
| 47.5° | 1914.8  | 1919.2  | 1941.6  | 1914.8  |
| 50°   | 1353.8  | 1358.2  | 1362.6  | 1353.8  |
| 52.5° | 895.0   | 899.6   | 895.0   | 881.6   |
| 55°   | 547.7   | 552.3   | 552.3   | 552.3   |
| 57.5° | 293.8   | 298.4   | 298.4   | 293.8   |
| 60°   | 160.4   | 155.8   | 160.4   | 151.4   |
| 62.5° | 84.7    | 93.5    | 89.1    | 80.1    |
| 65°   | 53.5    | 53.5    | 53.5    | 62.3    |
| 67.5° | 44.5    | 35.6    | 40.1    | 31.2    |
| 70°   | 26.8    | 31.2    | 31.2    | 22.2    |
| 72.5° | 22.2    | 22.2    | 22.2    | 26.8    |
| 75°   | 0.0     | 0.0     | 0.0     | 0.0     |
| 77.5° | 9.0     | 9.0     | 9.0     | 4.4     |
| 80°   | 4.4     | 0.0     | 4.4     | 0.0     |
| 82.5° | 4.4     | 4.4     | 9.0     | 4.4     |
| 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)