

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: P249429

Luminaire Tested: **LD8B120D010 ER8B120835 8LBDW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249429  
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: LD8B120D010 ER8B120835 8LBDW0B  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 3500 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11065.0 lumens  
Efficiency: N/A  
Efficacy: 93.5 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

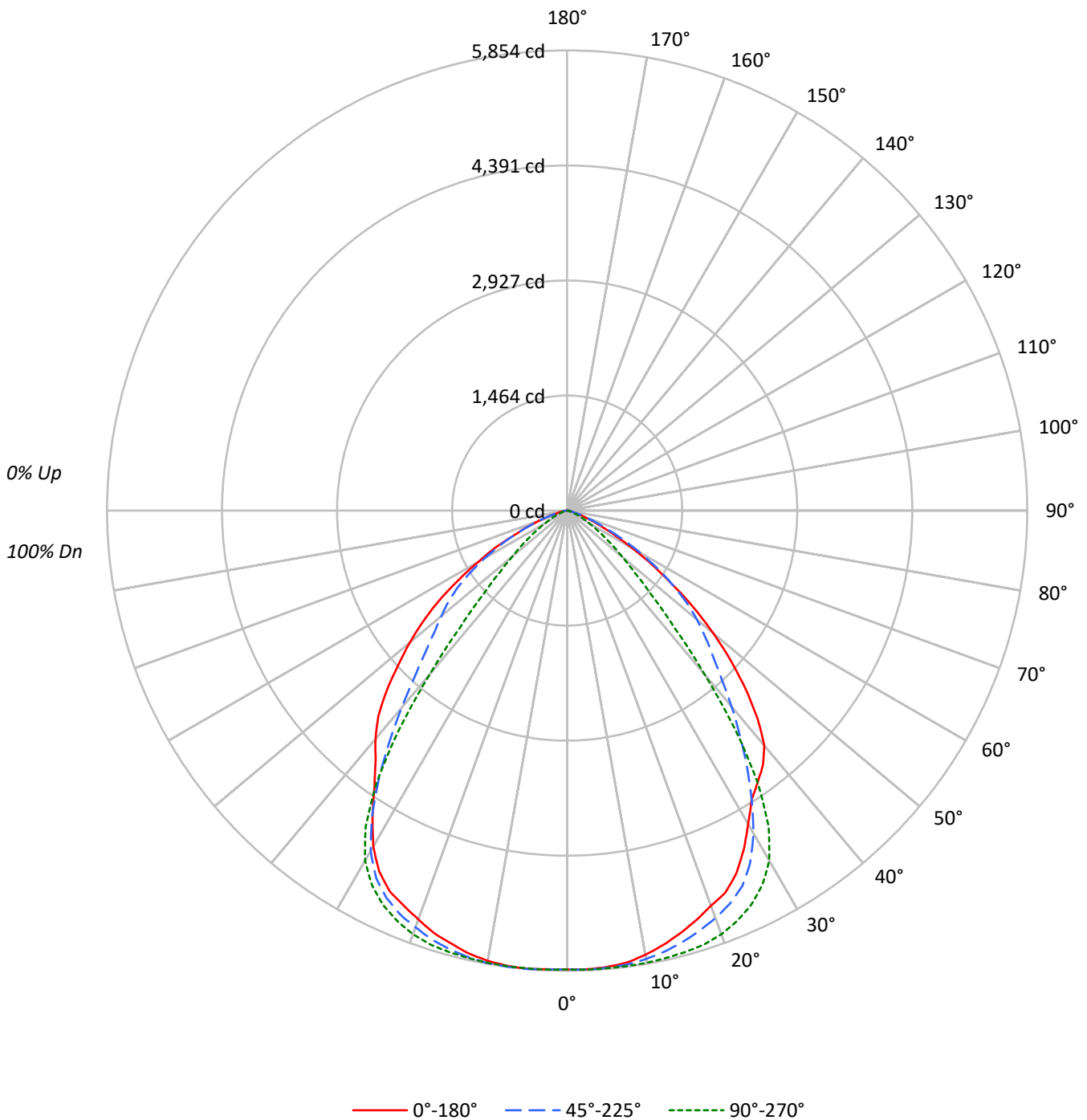
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°  | 180025 | 180025 | 180025 |
| 5°  | 180422 | 180908 | 181103 |
| 10° | 179662 | 182903 | 182117 |
| 15° | 177670 | 185575 | 182076 |
| 20° | 175539 | 188186 | 181607 |
| 25° | 173261 | 188402 | 181791 |
| 30° | 163915 | 183104 | 175630 |
| 35° | 159020 | 159137 | 160790 |
| 40° | 157051 | 109491 | 152635 |
| 45° | 139937 | 65732  | 141852 |
| 50° | 116358 | 43746  | 125377 |
| 55° | 87271  | 30160  | 106303 |
| 60° | 59138  | 20099  | 80205  |
| 65° | 35673  | 13039  | 55103  |
| 70° | 19781  | 7068   | 33900  |
| 75° | 8960   | 2990   | 17550  |
| 80° | 7796   | 3338   | 12235  |
| 85° | 8881   | 4423   | 12206  |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 557.2   | 5.0       |
| 10°-20°   | 1618.1  | 14.6      |
| 20°-30°   | 2455.9  | 22.2      |
| 30°-40°   | 2579.5  | 23.3      |
| 40°-50°   | 1933.9  | 17.5      |
| 50°-60°   | 1240.8  | 11.2      |
| 60°-70°   | 530.8   | 4.8       |
| 70°-80°   | 125.4   | 1.1       |
| 80°-90°   | 23.3    | 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°    | 4631.2  | 41.9      |
| 0°-40°    | 7210.7  | 65.2      |
| 0°-60°    | 10385.5 | 93.9      |
| 0°-90°    | 11065.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 11065.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 5838 | 5838 | 5838 | 5838 | 5838 |      |
| 5°  | 5829 | 5838 | 5844 | 5854 | 5851 | 554  |
| 15° | 5565 | 5682 | 5813 | 5776 | 5703 | 1570 |
| 25° | 5092 | 5271 | 5537 | 5437 | 5343 | 2326 |
| 35° | 4224 | 3989 | 4227 | 4177 | 4271 | 2651 |
| 45° | 3209 | 2623 | 1507 | 2548 | 3253 | 2458 |
| 55° | 1623 | 1623 | 561  | 1692 | 1977 | 1472 |
| 65° | 489  | 577  | 179  | 743  | 755  | 522  |
| 75° | 75   | 88   | 25   | 150  | 147  | 110  |
| 85° | 25   | 16   | 12   | 25   | 34   | 26   |
| 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°    | 5838.1 | 5838.1 | 5838.1 | 5838.1 | 5838.1 | 5838.1 | 5838.1 | 5838.1 | 5838.1 | 5838.1 | 5838.1 |
| 2.5°  | 5841.3 | 5847.5 | 5844.4 | 5844.4 | 5841.3 | 5844.4 | 5844.4 | 5850.7 | 5850.7 | 5844.4 | 5841.3 |
| 5°    | 5828.7 | 5835.0 | 5835.0 | 5828.7 | 5828.7 | 5844.4 | 5835.0 | 5841.3 | 5841.3 | 5838.1 | 5838.1 |
| 7.5°  | 5800.5 | 5800.5 | 5813.0 | 5803.7 | 5803.7 | 5813.0 | 5809.9 | 5816.2 | 5822.5 | 5825.6 | 5825.6 |
| 10°   | 5737.8 | 5744.1 | 5747.2 | 5747.2 | 5750.4 | 5759.7 | 5766.0 | 5778.6 | 5784.8 | 5791.1 | 5794.3 |
| 12.5° | 5659.5 | 5668.9 | 5672.0 | 5668.9 | 5678.3 | 5690.8 | 5706.5 | 5722.2 | 5731.6 | 5744.1 | 5753.5 |
| 15°   | 5565.4 | 5565.4 | 5571.7 | 5581.2 | 5587.5 | 5606.2 | 5621.9 | 5640.7 | 5665.7 | 5681.5 | 5697.1 |
| 17.5° | 5462.1 | 5468.4 | 5477.7 | 5477.7 | 5490.3 | 5521.6 | 5531.0 | 5559.2 | 5587.5 | 5603.1 | 5634.5 |
| 20°   | 5349.3 | 5355.5 | 5364.9 | 5371.2 | 5386.9 | 5411.9 | 5430.7 | 5455.8 | 5487.2 | 5515.4 | 5546.7 |
| 22.5° | 5261.5 | 5249.0 | 5255.2 | 5261.5 | 5277.2 | 5299.1 | 5321.1 | 5352.4 | 5383.7 | 5411.9 | 5443.3 |
| 25°   | 5092.3 | 5095.4 | 5104.8 | 5111.1 | 5129.9 | 5148.7 | 5173.8 | 5211.4 | 5239.6 | 5270.9 | 5305.4 |
| 27.5° | 4863.5 | 4866.7 | 4882.3 | 4882.3 | 4898.0 | 4929.3 | 4945.0 | 4976.3 | 5014.0 | 5045.3 | 5086.1 |
| 30°   | 4603.5 | 4609.7 | 4609.7 | 4622.2 | 4631.6 | 4647.3 | 4663.0 | 4694.3 | 4713.1 | 4741.3 | 4797.8 |
| 32.5° | 4365.3 | 4371.5 | 4368.4 | 4365.3 | 4355.9 | 4352.7 | 4349.6 | 4355.9 | 4362.2 | 4371.5 | 4393.4 |
| 35°   | 4224.3 | 4208.6 | 4196.1 | 4174.1 | 4149.1 | 4117.7 | 4089.5 | 4051.9 | 4017.4 | 3989.2 | 3957.9 |
| 37.5° | 4089.5 | 4086.3 | 4067.6 | 4036.2 | 3986.1 | 3929.7 | 3863.9 | 3782.4 | 3700.9 | 3613.2 | 3528.6 |
| 40°   | 3901.5 | 3892.1 | 3876.4 | 3832.5 | 3776.1 | 3707.2 | 3619.5 | 3519.2 | 3387.5 | 3252.8 | 3114.9 |
| 42.5° | 3581.8 | 3585.0 | 3566.2 | 3531.7 | 3478.5 | 3412.6 | 3321.7 | 3212.1 | 3071.1 | 2911.2 | 2732.6 |
| 45°   | 3208.9 | 3208.9 | 3202.6 | 3174.4 | 3136.9 | 3083.6 | 3014.6 | 2923.8 | 2785.9 | 2622.9 | 2431.7 |
| 47.5° | 2820.3 | 2823.5 | 2814.0 | 2807.8 | 2792.1 | 2757.7 | 2707.5 | 2638.6 | 2541.5 | 2384.7 | 2193.6 |
| 50°   | 2425.5 | 2425.5 | 2441.2 | 2438.0 | 2438.0 | 2425.5 | 2403.6 | 2362.8 | 2278.2 | 2152.9 | 1974.3 |
| 52.5° | 2030.6 | 2036.9 | 2046.4 | 2058.9 | 2074.5 | 2099.6 | 2074.5 | 2055.7 | 2002.4 | 1905.3 | 1751.8 |
| 55°   | 1623.3 | 1629.5 | 1645.2 | 1667.1 | 1686.0 | 1711.0 | 1717.3 | 1717.3 | 1689.0 | 1623.3 | 1507.3 |
| 57.5° | 1275.4 | 1266.0 | 1278.6 | 1297.4 | 1322.4 | 1347.5 | 1366.3 | 1388.2 | 1385.1 | 1341.2 | 1247.2 |
| 60°   | 958.9  | 962.1  | 971.4  | 990.3  | 1009.1 | 1031.0 | 1056.1 | 1074.9 | 1084.3 | 1062.4 | 1002.8 |
| 62.5° | 698.8  | 698.8  | 711.3  | 730.1  | 739.6  | 770.9  | 786.6  | 796.0  | 805.3  | 802.2  | 764.6  |
| 65°   | 488.9  | 495.1  | 501.4  | 510.8  | 520.2  | 539.0  | 548.4  | 567.2  | 573.5  | 576.6  | 548.4  |
| 67.5° | 344.7  | 335.3  | 341.6  | 347.8  | 357.2  | 369.8  | 388.6  | 388.6  | 398.0  | 398.0  | 379.2  |
| 70°   | 219.4  | 219.4  | 222.5  | 231.9  | 238.2  | 241.3  | 247.6  | 253.8  | 263.2  | 260.1  | 260.1  |
| 72.5° | 147.3  | 144.2  | 147.3  | 150.4  | 153.6  | 162.9  | 162.9  | 166.1  | 172.4  | 175.5  | 162.9  |
| 75°   | 75.2   | 78.4   | 84.6   | 81.5   | 90.9   | 84.6   | 87.7   | 97.1   | 94.0   | 87.7   | 87.7   |
| 77.5° | 62.6   | 62.6   | 62.6   | 59.6   | 65.8   | 65.8   | 62.6   | 68.9   | 65.8   | 65.8   | 62.6   |
| 80°   | 43.9   | 47.0   | 43.9   | 40.7   | 43.9   | 40.7   | 40.7   | 40.7   | 40.7   | 40.7   | 37.6   |
| 82.5° | 34.5   | 28.2   | 31.4   | 28.2   | 31.4   | 31.4   | 28.2   | 25.1   | 25.1   | 28.2   | 25.1   |
| 85°   | 25.1   | 18.8   | 21.9   | 21.9   | 18.8   | 18.8   | 18.8   | 18.8   | 18.8   | 15.6   | 15.6   |
| 87.5° | 15.6   | 9.4    | 9.4    | 9.4    | 12.5   | 12.5   | 12.5   | 9.4    | 12.5   | 12.5   | 6.3    |
| 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°    | 5838.1 | 5838.1 | 5838.1 | 5838.1 | 5838.1 | 5838.1 | 5838.1 | 5838.1 | 5838.1 | 5838.1 | 5838.1 |
| 2.5°  | 5847.5 | 5844.4 | 5850.7 | 5847.5 | 5847.5 | 5844.4 | 5847.5 | 5844.4 | 5850.7 | 5838.1 | 5841.3 |
| 5°    | 5847.5 | 5841.3 | 5844.4 | 5847.5 | 5850.7 | 5844.4 | 5844.4 | 5844.4 | 5850.7 | 5844.4 | 5847.5 |
| 7.5°  | 5835.0 | 5831.8 | 5841.3 | 5847.5 | 5844.4 | 5841.3 | 5847.5 | 5844.4 | 5850.7 | 5847.5 | 5853.8 |
| 10°   | 5809.9 | 5813.0 | 5819.3 | 5828.7 | 5831.8 | 5835.0 | 5841.3 | 5841.3 | 5850.7 | 5838.1 | 5844.4 |
| 12.5° | 5772.3 | 5784.8 | 5800.5 | 5806.8 | 5819.3 | 5819.3 | 5825.6 | 5828.7 | 5835.0 | 5831.8 | 5841.3 |
| 15°   | 5725.3 | 5741.0 | 5759.7 | 5775.5 | 5791.1 | 5800.5 | 5809.9 | 5813.0 | 5822.5 | 5813.0 | 5816.2 |
| 17.5° | 5668.9 | 5687.7 | 5715.9 | 5734.7 | 5759.7 | 5769.2 | 5781.7 | 5788.0 | 5797.4 | 5791.1 | 5794.3 |
| 20°   | 5590.5 | 5612.5 | 5643.8 | 5672.0 | 5687.7 | 5709.6 | 5725.3 | 5734.7 | 5741.0 | 5734.7 | 5737.8 |
| 22.5° | 5480.9 | 5512.2 | 5552.9 | 5574.9 | 5606.2 | 5625.0 | 5628.2 | 5650.1 | 5665.7 | 5650.1 | 5656.4 |
| 25°   | 5352.4 | 5383.7 | 5415.1 | 5462.1 | 5490.3 | 5512.2 | 5534.2 | 5537.3 | 5552.9 | 5549.8 | 5546.7 |
| 27.5° | 5139.3 | 5180.1 | 5233.3 | 5270.9 | 5308.5 | 5343.0 | 5368.1 | 5374.3 | 5390.0 | 5383.7 | 5386.9 |
| 30°   | 4847.8 | 4891.8 | 4941.9 | 5001.4 | 5054.7 | 5089.1 | 5120.5 | 5142.4 | 5158.1 | 5148.7 | 5145.6 |
| 32.5° | 4434.2 | 4478.1 | 4531.4 | 4590.9 | 4653.6 | 4703.7 | 4741.3 | 4769.5 | 4788.3 | 4782.0 | 4766.4 |
| 35°   | 3961.1 | 3973.6 | 4008.1 | 4055.1 | 4108.3 | 4161.6 | 4196.1 | 4227.4 | 4249.3 | 4255.6 | 4255.6 |
| 37.5° | 3475.3 | 3434.6 | 3409.5 | 3409.5 | 3440.8 | 3462.7 | 3494.1 | 3512.9 | 3547.4 | 3559.9 | 3569.3 |
| 40°   | 3005.2 | 2911.2 | 2823.5 | 2757.7 | 2713.8 | 2710.7 | 2710.7 | 2720.0 | 2751.4 | 2792.1 | 2829.8 |
| 42.5° | 2585.3 | 2434.9 | 2300.2 | 2177.9 | 2090.2 | 2040.1 | 2018.1 | 2021.3 | 2046.4 | 2083.9 | 2146.6 |
| 45°   | 2250.0 | 2062.0 | 1892.8 | 1745.5 | 1626.4 | 1548.0 | 1510.5 | 1507.3 | 1526.1 | 1570.0 | 1639.0 |
| 47.5° | 1989.9 | 1789.3 | 1598.2 | 1429.0 | 1300.5 | 1215.9 | 1172.0 | 1159.5 | 1172.0 | 1212.7 | 1294.2 |
| 50°   | 1773.7 | 1566.9 | 1369.5 | 1193.9 | 1056.1 | 968.4  | 927.6  | 911.9  | 927.6  | 962.1  | 1043.5 |
| 52.5° | 1573.1 | 1360.0 | 1175.2 | 1005.9 | 858.6  | 783.4  | 739.6  | 730.1  | 739.6  | 780.3  | 846.1  |
| 55°   | 1341.2 | 1159.5 | 977.7  | 808.5  | 680.0  | 604.8  | 570.3  | 561.0  | 570.3  | 608.0  | 676.9  |
| 57.5° | 1112.5 | 955.8  | 796.0  | 642.4  | 532.8  | 466.9  | 435.6  | 423.0  | 445.0  | 470.0  | 551.5  |
| 60°   | 899.3  | 774.1  | 639.3  | 504.5  | 413.7  | 354.1  | 329.0  | 325.9  | 332.2  | 363.5  | 419.9  |
| 62.5° | 705.1  | 601.7  | 495.1  | 385.5  | 310.2  | 285.2  | 253.8  | 250.7  | 256.9  | 275.7  | 319.7  |
| 65°   | 507.7  | 441.9  | 360.4  | 282.0  | 222.5  | 188.0  | 175.5  | 178.7  | 184.9  | 197.4  | 238.2  |
| 67.5° | 354.1  | 307.1  | 250.7  | 197.4  | 153.6  | 137.9  | 125.4  | 122.2  | 125.4  | 147.3  | 169.2  |
| 70°   | 238.2  | 209.9  | 169.2  | 150.4  | 106.6  | 84.6   | 87.7   | 78.4   | 90.9   | 90.9   | 109.6  |
| 72.5° | 156.7  | 137.9  | 112.8  | 87.7   | 75.2   | 59.6   | 59.6   | 56.4   | 62.6   | 65.8   | 81.5   |
| 75°   | 81.5   | 62.6   | 62.6   | 43.9   | 31.4   | 15.6   | 28.2   | 25.1   | 21.9   | 25.1   | 31.4   |
| 77.5° | 56.4   | 47.0   | 43.9   | 34.5   | 31.4   | 25.1   | 25.1   | 25.1   | 25.1   | 28.2   | 31.4   |
| 80°   | 34.5   | 34.5   | 25.1   | 21.9   | 18.8   | 15.6   | 18.8   | 18.8   | 18.8   | 18.8   | 21.9   |
| 82.5° | 21.9   | 18.8   | 18.8   | 15.6   | 15.6   | 12.5   | 12.5   | 12.5   | 12.5   | 12.5   | 18.8   |
| 85°   | 18.8   | 12.5   | 12.5   | 9.4    | 12.5   | 21.9   | 9.4    | 12.5   | 12.5   | 12.5   | 9.4    |
| 87.5° | 6.3    | 9.4    | 9.4    | 9.4    | 6.3    | 3.1    | 6.3    | 9.4    | 9.4    | 15.6   | 12.5   |
| 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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CATALOG NUMBER: LD8B120D010 ER8B120835 8LBDW0B

**CANDELA DISTRIBUTION (continued):**

|       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5838.1 | 5838.1 | 5838.1 | 5838.1 | 5838.1 | 5838.1 | 5838.1 | 5838.1 | 5838.1 | 5838.1 | 5838.1 |
| 2.5°  | 5847.5 | 5850.7 | 5850.7 | 5847.5 | 5847.5 | 5841.3 | 5853.8 | 5844.4 | 5847.5 | 5860.0 | 5850.7 |
| 5°    | 5853.8 | 5856.9 | 5856.9 | 5853.8 | 5853.8 | 5853.8 | 5856.9 | 5856.9 | 5853.8 | 5850.7 | 5856.9 |
| 7.5°  | 5866.3 | 5863.2 | 5863.2 | 5856.9 | 5856.9 | 5850.7 | 5856.9 | 5847.5 | 5853.8 | 5847.5 | 5856.9 |
| 10°   | 5850.7 | 5853.8 | 5850.7 | 5847.5 | 5847.5 | 5844.4 | 5844.4 | 5835.0 | 5838.1 | 5828.7 | 5835.0 |
| 12.5° | 5841.3 | 5838.1 | 5838.1 | 5831.8 | 5825.6 | 5819.3 | 5816.2 | 5806.8 | 5806.8 | 5784.8 | 5794.3 |
| 15°   | 5816.2 | 5819.3 | 5809.9 | 5797.4 | 5791.1 | 5775.5 | 5769.2 | 5756.6 | 5744.1 | 5728.5 | 5731.6 |
| 17.5° | 5794.3 | 5784.8 | 5772.3 | 5759.7 | 5734.7 | 5722.2 | 5709.6 | 5690.8 | 5684.5 | 5665.7 | 5659.5 |
| 20°   | 5728.5 | 5722.2 | 5706.5 | 5684.5 | 5668.9 | 5640.7 | 5628.2 | 5609.4 | 5593.7 | 5574.9 | 5565.4 |
| 22.5° | 5643.8 | 5637.5 | 5618.7 | 5596.8 | 5571.7 | 5559.2 | 5546.7 | 5512.2 | 5496.5 | 5477.7 | 5474.6 |
| 25°   | 5537.3 | 5527.9 | 5509.1 | 5484.0 | 5471.4 | 5437.0 | 5424.4 | 5399.4 | 5393.2 | 5374.3 | 5371.2 |
| 27.5° | 5374.3 | 5361.8 | 5339.9 | 5308.5 | 5286.6 | 5264.6 | 5252.1 | 5233.3 | 5227.1 | 5208.2 | 5205.1 |
| 30°   | 5129.9 | 5114.2 | 5070.3 | 5057.8 | 5020.2 | 4998.3 | 4998.3 | 4973.2 | 4976.3 | 4963.8 | 4963.8 |
| 32.5° | 4744.5 | 4719.4 | 4684.9 | 4659.8 | 4634.7 | 4622.2 | 4622.2 | 4612.8 | 4619.1 | 4619.1 | 4625.4 |
| 35°   | 4233.6 | 4199.2 | 4180.4 | 4164.7 | 4164.7 | 4177.2 | 4214.9 | 4224.3 | 4243.1 | 4258.7 | 4271.3 |
| 37.5° | 3578.7 | 3575.6 | 3597.5 | 3616.3 | 3663.3 | 3716.6 | 3782.4 | 3838.8 | 3892.1 | 3929.7 | 3967.3 |
| 40°   | 2870.5 | 2948.8 | 3011.5 | 3099.3 | 3171.3 | 3274.7 | 3393.8 | 3491.0 | 3581.8 | 3647.7 | 3716.6 |
| 42.5° | 2240.6 | 2340.9 | 2472.5 | 2601.0 | 2729.5 | 2870.5 | 3027.2 | 3161.9 | 3281.0 | 3371.9 | 3443.9 |
| 45°   | 1745.5 | 1883.3 | 2043.2 | 2206.2 | 2372.2 | 2547.7 | 2710.7 | 2848.6 | 2973.9 | 3067.9 | 3140.0 |
| 47.5° | 1407.0 | 1557.5 | 1739.2 | 1917.8 | 2105.9 | 2290.7 | 2472.5 | 2591.6 | 2695.0 | 2770.2 | 2836.1 |
| 50°   | 1162.6 | 1322.4 | 1513.6 | 1717.3 | 1905.3 | 2090.2 | 2246.9 | 2362.8 | 2447.5 | 2513.2 | 2554.0 |
| 52.5° | 971.4  | 1140.6 | 1344.4 | 1548.0 | 1736.0 | 1905.3 | 2046.4 | 2134.1 | 2203.0 | 2250.0 | 2287.6 |
| 55°   | 802.2  | 965.2  | 1156.4 | 1347.5 | 1532.4 | 1692.2 | 1808.1 | 1874.0 | 1927.2 | 1955.4 | 1977.3 |
| 57.5° | 655.0  | 805.3  | 980.9  | 1156.4 | 1316.2 | 1447.8 | 1538.7 | 1604.5 | 1629.5 | 1651.5 | 1648.3 |
| 60°   | 514.0  | 655.0  | 814.8  | 965.2  | 1103.1 | 1209.6 | 1275.4 | 1313.0 | 1331.8 | 1341.2 | 1334.9 |
| 62.5° | 404.2  | 532.8  | 655.0  | 786.6  | 886.8  | 977.7  | 1040.4 | 1040.4 | 1049.8 | 1052.9 | 1062.4 |
| 65°   | 300.8  | 398.0  | 504.5  | 601.7  | 683.1  | 742.7  | 777.2  | 786.6  | 799.1  | 796.0  | 789.7  |
| 67.5° | 222.5  | 294.6  | 372.9  | 445.0  | 501.4  | 539.0  | 564.0  | 586.0  | 582.9  | 576.6  | 573.5  |
| 70°   | 153.6  | 200.6  | 269.5  | 313.4  | 354.1  | 391.7  | 398.0  | 401.1  | 404.2  | 407.4  | 401.1  |
| 72.5° | 106.6  | 141.0  | 178.7  | 216.2  | 241.3  | 256.9  | 272.7  | 275.7  | 275.7  | 275.7  | 272.7  |
| 75°   | 53.3   | 72.1   | 106.6  | 122.2  | 144.2  | 150.4  | 162.9  | 162.9  | 172.4  | 159.8  | 156.7  |
| 77.5° | 47.0   | 56.4   | 75.2   | 87.7   | 97.1   | 106.6  | 109.6  | 119.1  | 115.9  | 109.6  | 112.8  |
| 80°   | 28.2   | 34.5   | 47.0   | 53.3   | 65.8   | 68.9   | 72.1   | 75.2   | 72.1   | 75.2   | 75.2   |
| 82.5° | 21.9   | 25.1   | 31.4   | 31.4   | 40.7   | 40.7   | 43.9   | 43.9   | 47.0   | 47.0   | 47.0   |
| 85°   | 12.5   | 21.9   | 18.8   | 37.6   | 25.1   | 25.1   | 31.4   | 37.6   | 31.4   | 31.4   | 37.6   |
| 87.5° | 12.5   | 12.5   | 9.4    | 12.5   | 12.5   | 12.5   | 15.6   | 18.8   | 18.8   | 21.9   | 18.8   |
| 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: P249429

CATALOG NUMBER: LD8B120D010 ER8B120835 8LBDW0B

**CANDELA DISTRIBUTION (continued):**

|       | 165°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 5838.1 | 5838.1 | 5838.1 | 5838.1 |
| 2.5°  | 5847.5 | 5853.8 | 5844.4 | 5841.3 |
| 5°    | 5856.9 | 5856.9 | 5850.7 | 5850.7 |
| 7.5°  | 5856.9 | 5856.9 | 5847.5 | 5841.3 |
| 10°   | 5831.8 | 5831.8 | 5822.5 | 5816.2 |
| 12.5° | 5784.8 | 5784.8 | 5781.7 | 5772.3 |
| 15°   | 5725.3 | 5725.3 | 5712.7 | 5703.4 |
| 17.5° | 5643.8 | 5650.1 | 5634.5 | 5634.5 |
| 20°   | 5556.1 | 5552.9 | 5540.4 | 5534.2 |
| 22.5° | 5465.2 | 5458.9 | 5455.8 | 5437.0 |
| 25°   | 5368.1 | 5361.8 | 5352.4 | 5343.0 |
| 27.5° | 5202.0 | 5198.9 | 5189.4 | 5176.9 |
| 30°   | 4948.1 | 4945.0 | 4932.5 | 4932.5 |
| 32.5° | 4619.1 | 4616.0 | 4603.5 | 4606.6 |
| 35°   | 4277.5 | 4290.1 | 4283.8 | 4271.3 |
| 37.5° | 3992.3 | 4001.8 | 4008.1 | 4001.8 |
| 40°   | 3754.2 | 3782.4 | 3785.5 | 3791.8 |
| 42.5° | 3500.4 | 3538.0 | 3550.5 | 3556.7 |
| 45°   | 3196.4 | 3230.9 | 3259.1 | 3252.8 |
| 47.5° | 2886.1 | 2911.2 | 2936.3 | 2917.5 |
| 50°   | 2588.5 | 2604.1 | 2613.5 | 2613.5 |
| 52.5° | 2306.4 | 2306.4 | 2303.3 | 2306.4 |
| 55°   | 1983.6 | 1983.6 | 1971.1 | 1977.3 |
| 57.5° | 1645.2 | 1651.5 | 1642.0 | 1626.4 |
| 60°   | 1331.8 | 1316.2 | 1309.9 | 1300.5 |
| 62.5° | 1037.3 | 1037.3 | 1015.4 | 1043.5 |
| 65°   | 777.2  | 767.8  | 758.3  | 755.2  |
| 67.5° | 564.0  | 561.0  | 551.5  | 548.4  |
| 70°   | 398.0  | 385.5  | 382.3  | 376.0  |
| 72.5° | 266.4  | 266.4  | 260.1  | 260.1  |
| 75°   | 162.9  | 147.3  | 144.2  | 147.3  |
| 77.5° | 112.8  | 109.6  | 109.6  | 106.6  |
| 80°   | 75.2   | 72.1   | 78.4   | 68.9   |
| 82.5° | 47.0   | 50.1   | 47.0   | 50.1   |
| 85°   | 31.4   | 37.6   | 34.5   | 34.5   |
| 87.5° | 18.8   | 18.8   | 18.8   | 18.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)