

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: FAIL-SAFE

Report Number: P834612

Luminaire Tested: **ORLG-24-4-INS-ASY2-LD4-6HI-50-120-EDD**

Issue Date: 5/16/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P834612  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 5/16/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: ORLG-24-4-INS-ASY2-LD4-6HI-50-120-EDD  
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

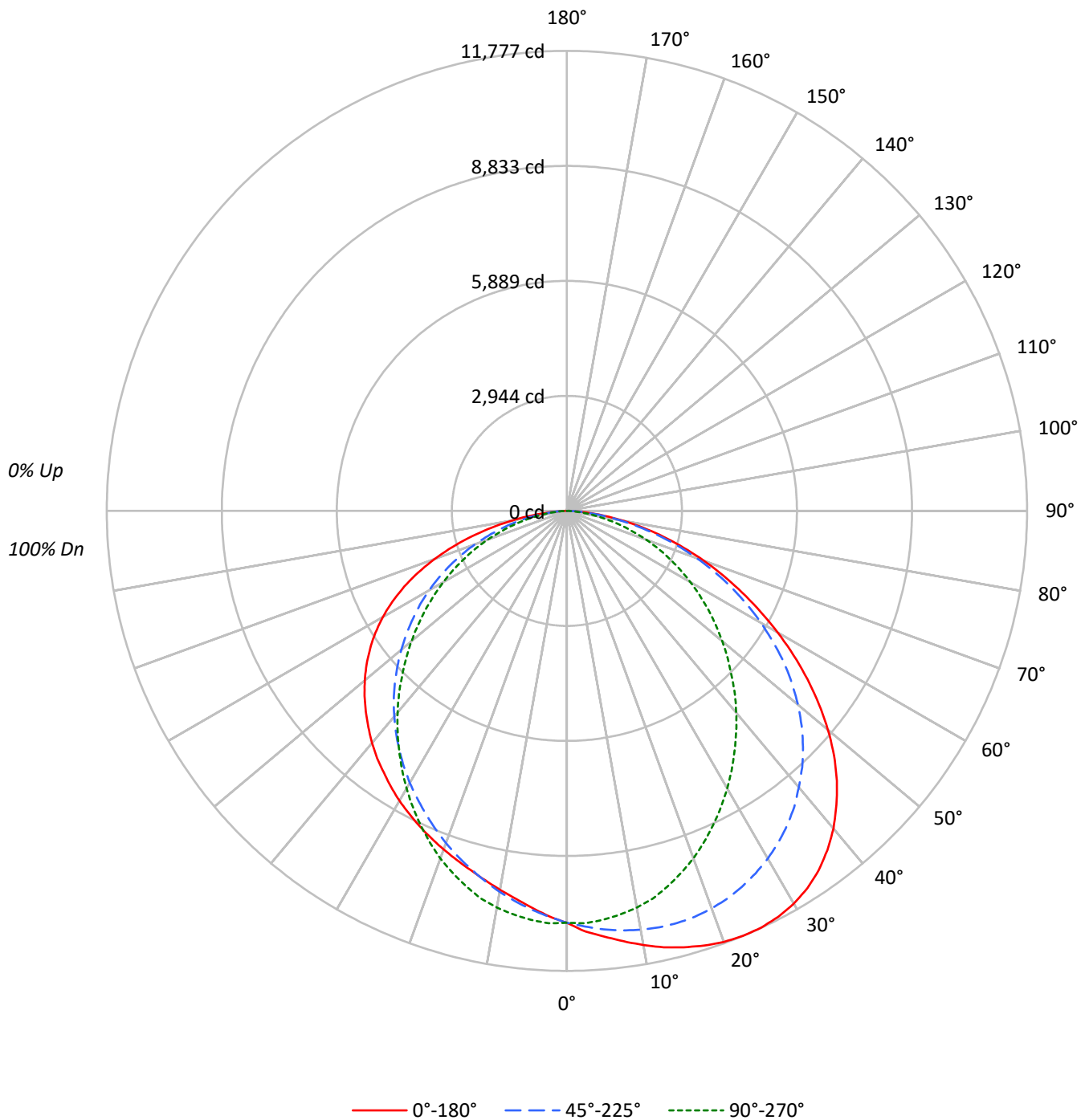
Lumens per Lamp: N/A  
Luminaire Lumens: 31016.0 lumens  
Efficiency: N/A  
Efficacy: 117.5 lumens/watt  
Spacing Criteria (0/90/45): 1.41 / 1.17 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 264  
Input Voltage (V): 120  
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: 28.75 FT

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### Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |
| RC  | 80  |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |     |     | 10  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 94  | 97  | 94  | 91  | 94  | 91  | 88  | 90  | 88  | 86  | 86  | 86  | 84  |
| 2   | 99  | 90  | 84  | 78  | 96  | 89  | 82  | 77  | 85  | 80  | 75  | 82  | 77  | 73  | 79  | 75  | 72  | 72  | 72  | 70  |
| 3   | 90  | 79  | 71  | 65  | 87  | 78  | 70  | 64  | 75  | 68  | 63  | 72  | 66  | 62  | 69  | 65  | 61  | 61  | 61  | 58  |
| 4   | 82  | 70  | 61  | 55  | 80  | 69  | 61  | 54  | 66  | 59  | 53  | 64  | 58  | 53  | 62  | 56  | 52  | 52  | 52  | 50  |
| 5   | 76  | 63  | 54  | 47  | 73  | 61  | 53  | 47  | 59  | 52  | 46  | 57  | 51  | 46  | 55  | 50  | 45  | 45  | 45  | 43  |
| 6   | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 41  | 54  | 46  | 40  | 52  | 45  | 40  | 50  | 44  | 40  | 40  | 40  | 37  |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 36  | 47  | 40  | 35  | 46  | 40  | 35  | 35  | 35  | 33  |
| 8   | 60  | 46  | 38  | 32  | 59  | 46  | 38  | 32  | 44  | 37  | 32  | 43  | 36  | 31  | 42  | 36  | 31  | 31  | 31  | 29  |
| 9   | 56  | 43  | 34  | 29  | 55  | 42  | 34  | 29  | 41  | 34  | 29  | 40  | 33  | 28  | 39  | 33  | 28  | 28  | 28  | 26  |
| 10  | 53  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 31  | 26  | 37  | 30  | 26  | 36  | 30  | 26  | 26  | 26  | 24  |

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

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 14187 | 14187 | 14187 |
| 5°  | 14770 | 14195 | 13774 |
| 10° | 15417 | 14088 | 13455 |
| 15° | 16110 | 13862 | 13262 |
| 20° | 16814 | 13556 | 13207 |
| 25° | 17474 | 13163 | 13228 |
| 30° | 18043 | 12751 | 13313 |
| 35° | 18455 | 12296 | 13424 |
| 40° | 18641 | 11840 | 13622 |
| 45° | 18590 | 11341 | 13845 |
| 50° | 18260 | 10864 | 14130 |
| 55° | 17636 | 10364 | 14424 |
| 60° | 16776 | 9830  | 14643 |
| 65° | 15754 | 9231  | 14624 |
| 70° | 14661 | 8513  | 14189 |
| 75° | 13311 | 7477  | 13084 |
| 80° | 11429 | 6143  | 11036 |
| 85° | 8718  | 4199  | 7578  |

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P834612

CATALOG NUMBER: ORLG-24-4-INS-ASY2-LD4-6HI-50-120-EDD

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1000.0  | 3.2       |
| 10°-20°   | 2887.9  | 9.3       |
| 20°-30°   | 4424.3  | 14.3      |
| 30°-40°   | 5399.3  | 17.4      |
| 40°-50°   | 5646.5  | 18.2      |
| 50°-60°   | 5110.5  | 16.5      |
| 60°-70°   | 3870.3  | 12.5      |
| 70°-80°   | 2156.9  | 7.0       |
| 80°-90°   | 520.3   | 1.7       |
| 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°    | 8312.3  | 26.8      |
| 0°-40°    | 13711.5 | 44.2      |
| 0°-60°    | 24468.5 | 78.9      |
| 0°-90°    | 31016.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 31016.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 45°   | 90°   | 135°  | 180°  | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 10544 | 10544 | 10544 | 10544 | 10544 |      |
| 5°  | 10936 | 10754 | 10510 | 10252 | 10198 | ###  |
| 15° | 11565 | 10922 | 9952  | 9489  | 9521  | 3280 |
| 25° | 11770 | 10613 | 8866  | 8553  | 8910  | 5430 |
| 35° | 11236 | 9827  | 7486  | 7477  | 8173  | 7016 |
| 45° | 9770  | 8546  | 5960  | 6223  | 7276  | 7517 |
| 55° | 7518  | 6787  | 4418  | 4808  | 6149  | 6708 |
| 65° | 4948  | 4653  | 2899  | 3296  | 4593  | 4908 |
| 75° | 2561  | 2418  | 1438  | 1717  | 2517  | 2716 |
| 85° | 565   | 498   | 272   | 364   | 491   | 679  |
| 90° | 0     | 0     | 0     | 0     | 0     |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 10°     | 20°     | 22.5°   | 30°     | 40°     | 45°     | 50°     | 60°     | 67.5°   | 70°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10544.2 | 10544.2 | 10544.2 | 10544.2 | 10544.2 | 10544.2 | 10544.2 | 10544.2 | 10544.2 | 10544.2 | 10544.2 |
| 2.5°  | 10776.9 | 10726.2 | 10684.7 | 10700.9 | 10710.1 | 10677.8 | 10650.2 | 10654.8 | 10627.1 | 10680.1 | 10555.7 |
| 5°    | 10936.0 | 10889.9 | 10841.5 | 10859.9 | 10841.5 | 10793.1 | 10753.9 | 10742.4 | 10668.6 | 10698.6 | 10571.8 |
| 7.5°  | 11113.4 | 11062.7 | 10991.3 | 11012.0 | 10972.8 | 10882.9 | 10832.2 | 10802.3 | 10689.4 | 10691.7 | 10551.1 |
| 10°   | 11284.0 | 11240.2 | 11143.4 | 11157.2 | 11085.8 | 10965.9 | 10885.3 | 10843.8 | 10684.7 | 10661.7 | 10516.5 |
| 12.5° | 11443.0 | 11383.1 | 11279.4 | 11286.3 | 11182.6 | 11023.5 | 10919.8 | 10859.9 | 10652.5 | 10583.3 | 10440.4 |
| 15°   | 11565.2 | 11507.5 | 11383.1 | 11380.8 | 11247.1 | 11039.7 | 10922.1 | 10839.2 | 10576.4 | 10468.1 | 10318.3 |
| 17.5° | 11668.9 | 11615.9 | 11461.4 | 11456.8 | 11295.5 | 11032.8 | 10892.2 | 10788.5 | 10465.8 | 10332.1 | 10166.2 |
| 20°   | 11742.6 | 11689.6 | 11516.8 | 11500.6 | 11307.0 | 10998.2 | 10829.9 | 10698.6 | 10320.6 | 10161.6 | 9977.2  |
| 22.5° | 11777.2 | 11724.2 | 11528.3 | 11505.2 | 11279.4 | 10929.0 | 10740.1 | 10585.6 | 10154.7 | 9947.2  | 9755.9  |
| 25°   | 11770.3 | 11719.6 | 11498.3 | 11475.3 | 11226.4 | 10825.3 | 10613.3 | 10435.8 | 9944.9  | 9700.6  | 9511.6  |
| 27.5° | 11712.7 | 11673.5 | 11440.7 | 11410.7 | 11129.6 | 10684.7 | 10458.9 | 10263.0 | 9712.1  | 9440.2  | 9235.1  |
| 30°   | 11613.6 | 11583.6 | 11337.0 | 11309.3 | 11009.7 | 10530.3 | 10279.1 | 10053.2 | 9460.9  | 9154.4  | 8947.0  |
| 32.5° | 11454.5 | 11426.9 | 11178.0 | 11152.6 | 10848.4 | 10332.1 | 10069.4 | 9836.6  | 9186.7  | 8847.9  | 8640.4  |
| 35°   | 11235.6 | 11219.4 | 10977.4 | 10949.8 | 10641.0 | 10106.3 | 9827.4  | 9571.6  | 8900.9  | 8518.3  | 8320.1  |
| 37.5° | 10947.5 | 10947.5 | 10714.7 | 10684.7 | 10382.8 | 9829.7  | 9555.4  | 9283.5  | 8578.2  | 8172.6  | 7976.7  |
| 40°   | 10613.3 | 10643.3 | 10405.9 | 10375.9 | 10083.2 | 9532.4  | 9232.8  | 8947.0  | 8230.2  | 7808.4  | 7617.1  |
| 42.5° | 10212.3 | 10239.9 | 10041.7 | 10014.1 | 9739.8  | 9189.0  | 8910.1  | 8599.0  | 7866.1  | 7437.4  | 7239.2  |
| 45°   | 9769.8  | 9806.6  | 9629.2  | 9608.4  | 9352.6  | 8813.3  | 8546.0  | 8230.2  | 7485.8  | 7050.2  | 6856.6  |
| 47.5° | 9276.6  | 9325.0  | 9170.5  | 9159.0  | 8921.6  | 8428.4  | 8149.5  | 7829.2  | 7087.1  | 6646.9  | 6464.8  |
| 50°   | 8723.4  | 8792.6  | 8665.8  | 8665.8  | 8453.8  | 7962.9  | 7720.9  | 7400.5  | 6672.2  | 6232.0  | 6052.2  |
| 52.5° | 8131.1  | 8218.7  | 8124.2  | 8126.5  | 7953.6  | 7513.4  | 7262.2  | 6948.8  | 6238.9  | 5805.6  | 5639.7  |
| 55°   | 7518.0  | 7603.3  | 7543.4  | 7552.6  | 7416.6  | 7015.6  | 6787.4  | 6476.3  | 5796.4  | 5374.6  | 5217.9  |
| 57.5° | 6877.3  | 6969.5  | 6930.3  | 6948.8  | 6854.3  | 6494.7  | 6257.4  | 5985.4  | 5340.1  | 4922.9  | 4789.2  |
| 60°   | 6234.3  | 6321.9  | 6301.1  | 6326.5  | 6266.6  | 5955.4  | 5738.8  | 5457.6  | 4881.4  | 4480.4  | 4362.9  |
| 62.5° | 5584.4  | 5665.0  | 5660.4  | 5688.1  | 5655.8  | 5397.7  | 5204.1  | 4964.4  | 4406.6  | 4037.9  | 3929.6  |
| 65°   | 4948.3  | 5017.4  | 5012.8  | 5042.8  | 5035.8  | 4828.4  | 4653.3  | 4434.3  | 3931.9  | 3593.1  | 3498.6  |
| 67.5° | 4330.6  | 4388.2  | 4372.1  | 4406.6  | 4415.9  | 4249.9  | 4097.8  | 3901.9  | 3480.1  | 3150.6  | 3069.9  |
| 70°   | 3726.8  | 3765.9  | 3745.2  | 3768.2  | 3789.0  | 3664.5  | 3535.5  | 3362.6  | 2998.5  | 2708.1  | 2641.2  |
| 72.5° | 3134.4  | 3162.1  | 3129.8  | 3152.9  | 3171.3  | 3081.4  | 2975.4  | 2825.6  | 2523.7  | 2272.5  | 2217.2  |
| 75°   | 2560.6  | 2599.7  | 2532.9  | 2555.9  | 2569.8  | 2479.9  | 2417.7  | 2295.5  | 2035.1  | 1841.5  | 1804.6  |
| 77.5° | 2005.1  | 2028.2  | 1991.3  | 1982.1  | 1991.3  | 1926.8  | 1878.4  | 1783.9  | 1588.0  | 1428.9  | 1405.9  |
| 80°   | 1475.0  | 1488.9  | 1452.0  | 1442.8  | 1449.7  | 1403.6  | 1366.7  | 1297.6  | 1159.3  | 1039.4  | 1030.2  |
| 82.5° | 988.7   | 995.6   | 963.4   | 954.2   | 958.8   | 944.9   | 901.2   | 852.8   | 788.2   | 686.8   | 684.5   |
| 85°   | 564.7   | 564.7   | 541.6   | 532.4   | 537.0   | 514.0   | 497.8   | 472.5   | 447.1   | 378.0   | 382.6   |
| 87.5° | 207.4   | 207.4   | 195.9   | 193.6   | 216.6   | 191.3   | 184.4   | 172.9   | 179.8   | 142.9   | 152.1   |
| 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):**

|       | 80°     | 90°     | 100°    | 110°    | 112.5°  | 120°    | 130°    | 135°    | 140°    | 150°    | 157.5°  |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10544.2 | 10544.2 | 10544.2 | 10544.2 | 10544.2 | 10544.2 | 10544.2 | 10544.2 | 10544.2 | 10544.2 | 10544.2 |
| 2.5°  | 10590.2 | 10567.2 | 10546.5 | 10475.0 | 10505.0 | 10431.2 | 10426.6 | 10399.0 | 10378.2 | 10339.0 | 10389.7 |
| 5°    | 10555.7 | 10509.6 | 10449.7 | 10364.4 | 10389.7 | 10302.2 | 10283.7 | 10251.5 | 10223.8 | 10173.1 | 10212.3 |
| 7.5°  | 10500.4 | 10424.3 | 10329.8 | 10221.5 | 10256.1 | 10147.7 | 10120.1 | 10085.5 | 10062.5 | 10002.5 | 10037.1 |
| 10°   | 10419.7 | 10311.4 | 10200.7 | 10069.4 | 10094.7 | 9977.2  | 9942.6  | 9905.7  | 9885.0  | 9832.0  | 9866.6  |
| 12.5° | 10295.2 | 10163.9 | 10014.1 | 9871.2  | 9898.8  | 9788.2  | 9742.1  | 9702.9  | 9696.0  | 9652.2  | 9693.7  |
| 15°   | 10133.9 | 9951.8  | 9797.4  | 9645.3  | 9677.6  | 9548.5  | 9527.8  | 9488.6  | 9500.1  | 9470.1  | 9520.9  |
| 17.5° | 9928.8  | 9719.1  | 9550.8  | 9387.2  | 9419.4  | 9311.1  | 9295.0  | 9276.6  | 9288.1  | 9283.5  | 9338.8  |
| 20°   | 9698.3  | 9467.8  | 9274.2  | 9112.9  | 9131.4  | 9046.1  | 9053.0  | 9048.4  | 9071.4  | 9096.8  | 9172.8  |
| 22.5° | 9437.9  | 9177.4  | 8974.6  | 8808.7  | 8836.3  | 8762.6  | 8794.9  | 8804.1  | 8843.3  | 8900.9  | 8997.7  |
| 25°   | 9145.2  | 8866.3  | 8654.3  | 8497.6  | 8522.9  | 8474.5  | 8529.8  | 8552.9  | 8615.1  | 8711.9  | 8811.0  |
| 27.5° | 8838.7  | 8543.6  | 8317.8  | 8168.0  | 8216.4  | 8168.0  | 8250.9  | 8297.0  | 8391.5  | 8497.6  | 8619.7  |
| 30°   | 8513.7  | 8207.2  | 7974.4  | 7840.7  | 7886.8  | 7843.0  | 7976.7  | 8038.9  | 8133.4  | 8278.6  | 8423.8  |
| 32.5° | 8172.6  | 7849.9  | 7621.8  | 7518.0  | 7550.3  | 7543.4  | 7693.2  | 7762.3  | 7889.1  | 8055.0  | 8209.5  |
| 35°   | 7822.3  | 7485.8  | 7255.3  | 7167.7  | 7206.9  | 7216.1  | 7395.9  | 7476.6  | 7614.8  | 7815.4  | 7981.3  |
| 37.5° | 7460.4  | 7117.0  | 6891.2  | 6819.7  | 6854.3  | 6888.8  | 7098.6  | 7179.2  | 7336.0  | 7554.9  | 7737.0  |
| 40°   | 7084.7  | 6741.3  | 6520.1  | 6462.5  | 6497.0  | 6533.9  | 6762.1  | 6872.7  | 7043.3  | 7280.7  | 7478.9  |
| 42.5° | 6704.5  | 6361.1  | 6146.7  | 6105.2  | 6139.8  | 6211.3  | 6453.3  | 6557.0  | 6736.7  | 6999.5  | 7218.4  |
| 45°   | 6317.3  | 5960.0  | 5773.4  | 5741.1  | 5778.0  | 5860.9  | 6098.3  | 6222.8  | 6414.1  | 6702.2  | 6937.2  |
| 47.5° | 5925.5  | 5577.5  | 5400.0  | 5379.2  | 5416.1  | 5508.3  | 5771.1  | 5884.0  | 6086.8  | 6393.3  | 6646.9  |
| 50°   | 5529.1  | 5190.3  | 5019.7  | 5012.8  | 5047.4  | 5146.5  | 5397.7  | 5531.4  | 5741.1  | 6084.5  | 6344.9  |
| 52.5° | 5128.0  | 4803.1  | 4648.6  | 4648.6  | 4680.9  | 4782.3  | 5035.8  | 5174.1  | 5390.8  | 5752.6  | 6040.7  |
| 55°   | 4727.0  | 4418.2  | 4270.7  | 4282.2  | 4328.3  | 4415.9  | 4662.5  | 4807.7  | 5026.6  | 5402.3  | 5706.5  |
| 57.5° | 4326.0  | 4033.3  | 3899.6  | 3915.7  | 3959.5  | 4047.1  | 4289.1  | 4452.7  | 4651.0  | 5040.5  | 5351.6  |
| 60°   | 3929.6  | 3653.0  | 3535.5  | 3553.9  | 3593.1  | 3680.7  | 3931.9  | 4072.5  | 4270.7  | 4667.1  | 4978.2  |
| 62.5° | 3528.5  | 3277.3  | 3166.7  | 3189.8  | 3224.3  | 3311.9  | 3549.3  | 3685.3  | 3881.2  | 4270.7  | 4584.1  |
| 65°   | 3132.1  | 2899.4  | 2804.9  | 2827.9  | 2860.2  | 2940.8  | 3164.4  | 3295.8  | 3482.5  | 3862.7  | 4162.3  |
| 67.5° | 2740.3  | 2528.3  | 2449.9  | 2473.0  | 2498.3  | 2574.4  | 2758.8  | 2901.7  | 3076.8  | 3438.7  | 3722.1  |
| 70°   | 2353.1  | 2164.1  | 2095.0  | 2118.0  | 2141.1  | 2210.2  | 2371.6  | 2502.9  | 2664.3  | 2996.2  | 3258.9  |
| 72.5° | 1970.5  | 1786.2  | 1751.6  | 1772.3  | 1790.8  | 1850.7  | 2005.1  | 2108.8  | 2249.4  | 2544.4  | 2770.3  |
| 75°   | 1597.2  | 1438.2  | 1415.1  | 1435.8  | 1452.0  | 1498.1  | 1627.1  | 1717.0  | 1834.6  | 2090.4  | 2274.8  |
| 77.5° | 1237.6  | 1104.0  | 1094.7  | 1110.9  | 1127.0  | 1159.3  | 1260.7  | 1355.2  | 1447.4  | 1636.4  | 1800.0  |
| 80°   | 901.2   | 792.8   | 792.8   | 809.0   | 804.4   | 843.5   | 915.0   | 991.0   | 1057.9  | 1193.9  | 1313.7  |
| 82.5° | 594.6   | 509.3   | 520.9   | 532.4   | 539.3   | 555.4   | 599.2   | 656.8   | 698.3   | 781.3   | 859.7   |
| 85°   | 329.6   | 272.0   | 283.5   | 292.7   | 288.1   | 306.5   | 329.6   | 364.1   | 384.9   | 424.1   | 465.6   |
| 87.5° | 122.2   | 101.4   | 103.7   | 110.6   | 115.2   | 124.5   | 124.5   | 145.2   | 147.5   | 152.1   | 161.3   |
| 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: P834612

CATALOG NUMBER: ORLG-24-4-INS-ASY2-LD4-6HI-50-120-EDD

**CANDELA DISTRIBUTION (continued):**

|       | 160°    | 170°    | 180°    |
|-------|---------|---------|---------|
| 0°    | 10544.2 | 10544.2 | 10544.2 |
| 2.5°  | 10292.9 | 10348.3 | 10389.7 |
| 5°    | 10115.5 | 10161.6 | 10198.4 |
| 7.5°  | 9942.6  | 9984.1  | 10016.4 |
| 10°   | 9779.0  | 9825.1  | 9848.1  |
| 12.5° | 9610.7  | 9663.7  | 9682.2  |
| 15°   | 9444.8  | 9497.8  | 9520.9  |
| 17.5° | 9274.2  | 9343.4  | 9368.7  |
| 20°   | 9115.2  | 9202.8  | 9223.5  |
| 22.5° | 8953.9  | 9043.8  | 9069.1  |
| 25°   | 8778.7  | 8884.7  | 8910.1  |
| 27.5° | 8592.0  | 8718.8  | 8744.2  |
| 30°   | 8405.4  | 8543.6  | 8569.0  |
| 32.5° | 8204.8  | 8354.7  | 8377.7  |
| 35°   | 7995.1  | 8144.9  | 8172.6  |
| 37.5° | 7762.3  | 7926.0  | 7981.3  |
| 40°   | 7520.3  | 7697.8  | 7755.4  |
| 42.5° | 7266.8  | 7460.4  | 7520.3  |
| 45°   | 6994.9  | 7206.9  | 7276.0  |
| 47.5° | 6720.6  | 6960.3  | 7020.2  |
| 50°   | 6423.3  | 6679.1  | 6750.6  |
| 52.5° | 6112.2  | 6391.0  | 6462.5  |
| 55°   | 5789.5  | 6070.7  | 6149.0  |
| 57.5° | 5439.2  | 5729.6  | 5812.5  |
| 60°   | 5072.7  | 5363.1  | 5441.5  |
| 62.5° | 4697.0  | 4959.8  | 5035.8  |
| 65°   | 4277.6  | 4524.2  | 4593.3  |
| 67.5° | 3832.8  | 4058.6  | 4116.3  |
| 70°   | 3360.3  | 3556.2  | 3606.9  |
| 72.5° | 2867.1  | 3003.1  | 3069.9  |
| 75°   | 2357.7  | 2466.1  | 2516.8  |
| 77.5° | 1846.1  | 1922.1  | 1963.6  |
| 80°   | 1346.0  | 1389.8  | 1424.3  |
| 82.5° | 880.4   | 898.8   | 924.2   |
| 85°   | 474.8   | 474.8   | 490.9   |
| 87.5° | 161.3   | 154.4   | 161.3   |
| 90°   | 0.0     | 0.0     | 0.0     |

(END OF REPORT)