

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: P838215

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-6STD-35-120-EDD-90**

Issue Date: 5/21/2024

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

**Test Information**

Test Method: LM-79-08  
Report Number: P838215  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 5/21/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: ORLG-24-4-INS-ASY2R-LD4-6STD-35-120-EDD-90  
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and  
RFI grid  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

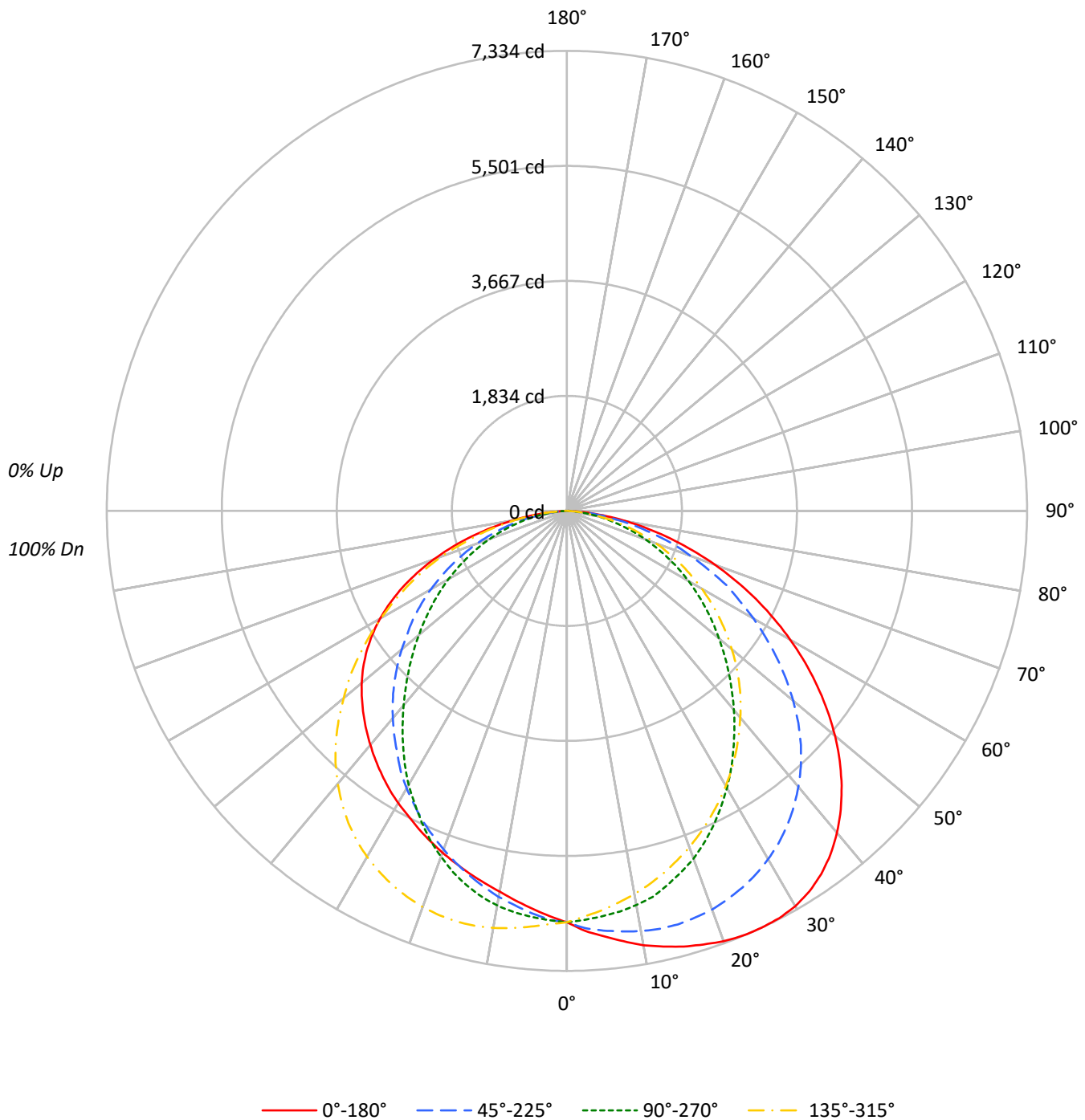
Lumens per Lamp: N/A  
Luminaire Lumens: 19241.4 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 199.8  
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: 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  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 94  | 97  | 94  | 91  |  | 94  | 91  | 89  |  | 90  |
| 2   | 99  | 91  | 84  | 78  | 96  | 89  | 82  | 77  | 85  | 80  | 75  |  | 82  | 77  | 73  |  | 79  |
| 3   | 90  | 79  | 71  | 65  | 88  | 78  | 70  | 64  | 75  | 68  | 63  |  | 72  | 66  | 62  |  | 69  |
| 4   | 82  | 70  | 61  | 55  | 80  | 69  | 61  | 54  | 66  | 59  | 53  |  | 64  | 58  | 53  |  | 62  |
| 5   | 76  | 63  | 54  | 47  | 74  | 62  | 53  | 47  | 59  | 52  | 46  |  | 57  | 51  | 46  |  | 56  |
| 6   | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 41  | 54  | 46  | 40  |  | 52  | 45  | 40  |  | 50  |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 36  |  | 47  | 40  | 35  |  | 46  |
| 8   | 60  | 47  | 38  | 32  | 59  | 46  | 38  | 32  | 45  | 37  | 32  |  | 43  | 37  | 32  |  | 42  |
| 9   | 56  | 43  | 34  | 29  | 55  | 42  | 34  | 29  | 41  | 34  | 29  |  | 40  | 33  | 28  |  | 39  |
| 10  | 53  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 31  | 26  |  | 37  | 30  | 26  |  | 36  |

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

|     | 0°    | 90°  | 180° | 270° |
|-----|-------|------|------|------|
| 0°  | 8824  | 8824 | 8824 | 8824 |
| 5°  | 9197  | 8761 | 8596 | 8775 |
| 10° | 9606  | 8716 | 8421 | 8728 |
| 15° | 10018 | 8605 | 8338 | 8607 |
| 20° | 10455 | 8449 | 8302 | 8400 |
| 25° | 10888 | 8213 | 8301 | 8129 |
| 30° | 11309 | 7927 | 8357 | 7839 |
| 35° | 11609 | 7601 | 8441 | 7481 |
| 40° | 11764 | 7274 | 8558 | 7110 |
| 45° | 11787 | 6943 | 8724 | 6768 |
| 50° | 11676 | 6625 | 8938 | 6449 |
| 55° | 11433 | 6330 | 9137 | 6155 |
| 60° | 11074 | 6023 | 9259 | 5866 |
| 65° | 10579 | 5669 | 9210 | 5538 |
| 70° | 9882  | 5254 | 8883 | 5158 |
| 75° | 8892  | 4684 | 8152 | 4661 |
| 80° | 7539  | 3924 | 6851 | 3983 |
| 85° | 5243  | 2598 | 4346 | 2669 |

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 622.7   | 3.2       |
| 10°-20°   | 1803.1  | 9.4       |
| 20°-30°   | 2763.4  | 14.4      |
| 30°-40°   | 3360.1  | 17.5      |
| 40°-50°   | 3493.0  | 18.2      |
| 50°-60°   | 3155.2  | 16.4      |
| 60°-70°   | 2398.8  | 12.5      |
| 70°-80°   | 1337.3  | 7.0       |
| 80°-90°   | 307.9   | 1.6       |
| 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°    | 5189.2  | 27.0      |
| 0°-40°    | 8549.2  | 44.4      |
| 0°-60°    | 15197.4 | 79.0      |
| 0°-90°    | 19241.4 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 19241.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 90°  | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 6558 | 6558 | 6558 | 6558 | 6558 |      |
| 5°  | 6809 | 6486 | 6364 | 6497 | 6809 | 657  |
| 15° | 7192 | 6178 | 5986 | 6179 | 7192 | 2039 |
| 25° | 7334 | 5532 | 5592 | 5475 | 7334 | 3387 |
| 35° | 7068 | 4628 | 5139 | 4554 | 7068 | 4414 |
| 45° | 6194 | 3649 | 4585 | 3557 | 6194 | 4769 |
| 55° | 4874 | 2699 | 3895 | 2624 | 4874 | 4351 |
| 65° | 3323 | 1781 | 2893 | 1739 | 3323 | 3284 |
| 75° | 1710 | 901  | 1568 | 896  | 1710 | 1817 |
| 85° | 340  | 168  | 282  | 173  | 340  | 428  |
| 90° | 0    | 0    | 0    | 0    | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6558.4 | 6558.4 | 6558.4 | 6558.4 | 6558.4 | 6558.4 | 6558.4 | 6558.4 | 6558.4 | 6558.4 | 6558.4 |
| 2.5°  | 6703.7 | 6605.8 | 6607.3 | 6693.0 | 6627.2 | 6659.4 | 6567.6 | 6602.8 | 6592.0 | 6599.7 | 6524.7 |
| 5°    | 6809.3 | 6703.7 | 6702.2 | 6775.6 | 6702.2 | 6716.0 | 6599.7 | 6622.6 | 6589.0 | 6567.6 | 6486.5 |
| 7.5°  | 6921.0 | 6815.4 | 6804.7 | 6868.9 | 6772.6 | 6761.9 | 6633.4 | 6633.4 | 6572.2 | 6518.6 | 6442.1 |
| 10°   | 7031.1 | 6922.5 | 6908.7 | 6957.7 | 6838.4 | 6803.2 | 6647.1 | 6622.6 | 6541.6 | 6462.0 | 6379.4 |
| 12.5° | 7113.7 | 7003.6 | 6992.9 | 7023.5 | 6888.8 | 6824.6 | 6647.1 | 6599.7 | 6480.4 | 6368.7 | 6304.4 |
| 15°   | 7191.7 | 7078.5 | 7049.5 | 7064.8 | 6910.3 | 6824.6 | 6625.7 | 6552.3 | 6399.3 | 6252.4 | 6177.5 |
| 17.5° | 7246.8 | 7138.2 | 7109.1 | 7107.6 | 6921.0 | 6798.6 | 6579.8 | 6478.8 | 6295.3 | 6117.8 | 6042.8 |
| 20°   | 7301.9 | 7193.3 | 7156.6 | 7129.0 | 6917.9 | 6763.4 | 6512.5 | 6376.3 | 6162.2 | 5963.3 | 5900.6 |
| 22.5° | 7329.4 | 7217.7 | 7178.0 | 7136.7 | 6898.0 | 6699.1 | 6429.9 | 6257.0 | 6012.2 | 5775.1 | 5723.1 |
| 25°   | 7334.0 | 7219.3 | 7176.4 | 7116.8 | 6858.2 | 6622.6 | 6322.8 | 6113.2 | 5839.4 | 5576.2 | 5531.9 |
| 27.5° | 7321.8 | 7196.3 | 7153.5 | 7081.6 | 6798.6 | 6529.3 | 6195.8 | 5949.5 | 5655.8 | 5365.1 | 5317.7 |
| 30°   | 7278.9 | 7152.0 | 7110.7 | 7017.3 | 6714.4 | 6414.6 | 6056.6 | 5767.5 | 5452.3 | 5143.3 | 5102.0 |
| 32.5° | 7193.3 | 7069.4 | 7035.7 | 6942.4 | 6622.6 | 6281.5 | 5894.4 | 5571.6 | 5227.4 | 4932.2 | 4871.0 |
| 35°   | 7067.8 | 6943.9 | 6922.5 | 6824.6 | 6494.1 | 6122.4 | 5717.0 | 5357.5 | 4988.8 | 4687.4 | 4627.7 |
| 37.5° | 6904.1 | 6800.1 | 6768.0 | 6671.6 | 6342.7 | 5941.9 | 5513.5 | 5124.9 | 4745.5 | 4421.2 | 4384.5 |
| 40°   | 6697.6 | 6599.7 | 6575.2 | 6489.5 | 6166.8 | 5741.5 | 5293.2 | 4884.8 | 4494.6 | 4193.3 | 4141.3 |
| 42.5° | 6462.0 | 6370.2 | 6356.5 | 6267.7 | 5949.5 | 5519.6 | 5054.6 | 4635.4 | 4233.0 | 3942.4 | 3890.4 |
| 45°   | 6194.3 | 6105.6 | 6102.5 | 6018.4 | 5712.4 | 5273.3 | 4803.7 | 4383.0 | 3977.6 | 3676.2 | 3648.7 |
| 47.5° | 5899.0 | 5819.5 | 5819.5 | 5741.5 | 5447.7 | 5002.6 | 4545.1 | 4119.8 | 3720.6 | 3454.4 | 3405.4 |
| 50°   | 5577.8 | 5502.8 | 5479.9 | 5441.6 | 5155.5 | 4707.3 | 4272.8 | 3862.8 | 3466.6 | 3212.6 | 3165.2 |
| 52.5° | 5235.1 | 5170.8 | 5186.1 | 5115.8 | 4838.9 | 4399.8 | 3997.5 | 3573.7 | 3211.1 | 2980.1 | 2932.7 |
| 55°   | 4874.0 | 4782.3 | 4796.0 | 4770.0 | 4508.4 | 4083.1 | 3688.4 | 3335.0 | 2960.2 | 2743.0 | 2698.6 |
| 57.5° | 4499.2 | 4379.9 | 4428.9 | 4413.6 | 4156.6 | 3758.8 | 3405.4 | 3064.3 | 2710.9 | 2510.5 | 2467.6 |
| 60°   | 4115.2 | 4000.5 | 4051.0 | 4037.2 | 3795.5 | 3434.5 | 3113.2 | 2796.5 | 2463.0 | 2281.0 | 2238.1 |
| 62.5° | 3720.6 | 3615.0 | 3660.9 | 3650.2 | 3428.4 | 3102.5 | 2822.5 | 2531.9 | 2213.7 | 2050.0 | 2010.2 |
| 65°   | 3322.8 | 3221.8 | 3263.1 | 3255.5 | 3050.5 | 2802.7 | 2524.2 | 2258.0 | 1962.8 | 1820.5 | 1780.7 |
| 67.5° | 2915.9 | 2822.5 | 2860.8 | 2860.8 | 2672.6 | 2435.5 | 2224.4 | 1981.1 | 1716.5 | 1594.1 | 1557.4 |
| 70°   | 2512.0 | 2424.8 | 2458.4 | 2455.4 | 2296.3 | 2103.5 | 1921.5 | 1704.2 | 1467.1 | 1366.1 | 1335.5 |
| 72.5° | 2105.0 | 2028.6 | 2059.2 | 2056.1 | 1923.0 | 1799.1 | 1618.6 | 1430.4 | 1223.9 | 1142.8 | 1115.2 |
| 75°   | 1710.4 | 1638.5 | 1667.5 | 1664.5 | 1555.8 | 1439.6 | 1318.7 | 1162.7 | 985.2  | 928.6  | 901.1  |
| 77.5° | 1334.0 | 1260.6 | 1285.1 | 1285.1 | 1205.5 | 1121.4 | 1025.0 | 904.1  | 778.7  | 717.5  | 697.6  |
| 80°   | 973.0  | 937.8  | 925.5  | 927.1  | 873.5  | 818.5  | 769.5  | 653.2  | 561.4  | 520.1  | 506.4  |
| 82.5° | 639.5  | 610.4  | 598.2  | 601.2  | 570.6  | 537.0  | 506.4  | 425.3  | 364.1  | 339.6  | 332.0  |
| 85°   | 339.6  | 318.2  | 307.5  | 315.1  | 309.0  | 290.7  | 275.4  | 220.3  | 182.1  | 172.9  | 168.3  |
| 87.5° | 107.1  | 93.3   | 85.7   | 113.2  | 96.4   | 85.7   | 82.6   | 65.8   | 50.5   | 50.5   | 49.0   |
| 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):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   | 185°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6558.4 | 6558.4 | 6558.4 | 6558.4 | 6558.4 | 6558.4 | 6558.4 | 6558.4 | 6558.4 | 6558.4 | 6558.4 |
| 2.5°  | 6549.2 | 6549.2 | 6489.5 | 6475.8 | 6469.7 | 6477.3 | 6417.6 | 6406.9 | 6492.6 | 6463.5 | 6397.8 |
| 5°    | 6497.2 | 6494.1 | 6410.0 | 6394.7 | 6394.7 | 6385.5 | 6318.2 | 6302.9 | 6388.6 | 6364.1 | 6292.2 |
| 7.5°  | 6432.9 | 6423.8 | 6324.3 | 6313.6 | 6298.3 | 6292.2 | 6217.2 | 6206.5 | 6280.0 | 6264.7 | 6197.4 |
| 10°   | 6354.9 | 6345.7 | 6227.9 | 6220.3 | 6203.5 | 6191.2 | 6120.9 | 6113.2 | 6188.2 | 6163.7 | 6110.2 |
| 12.5° | 6252.4 | 6235.6 | 6114.7 | 6107.1 | 6093.3 | 6088.7 | 6019.9 | 6016.8 | 6099.4 | 6075.0 | 6018.4 |
| 15°   | 6117.8 | 6104.0 | 5969.4 | 5972.5 | 5974.0 | 5974.0 | 5918.9 | 5915.9 | 5996.9 | 5986.2 | 5925.0 |
| 17.5° | 5969.4 | 5951.0 | 5822.5 | 5831.7 | 5842.4 | 5854.7 | 5811.8 | 5819.5 | 5905.2 | 5891.4 | 5836.3 |
| 20°   | 5801.1 | 5782.8 | 5657.3 | 5683.3 | 5706.3 | 5730.8 | 5703.2 | 5724.6 | 5804.2 | 5798.1 | 5756.8 |
| 22.5° | 5613.0 | 5594.6 | 5478.3 | 5518.1 | 5556.4 | 5602.2 | 5590.0 | 5614.5 | 5698.6 | 5697.1 | 5660.4 |
| 25°   | 5383.5 | 5388.1 | 5285.6 | 5334.5 | 5398.8 | 5463.0 | 5467.6 | 5507.4 | 5600.7 | 5591.5 | 5557.9 |
| 27.5° | 5169.3 | 5175.4 | 5066.8 | 5149.4 | 5235.1 | 5317.7 | 5337.6 | 5392.7 | 5487.5 | 5479.9 | 5450.8 |
| 30°   | 4944.4 | 4952.1 | 4846.5 | 4959.7 | 5063.7 | 5164.7 | 5207.5 | 5282.5 | 5378.9 | 5378.9 | 5348.3 |
| 32.5° | 4710.4 | 4724.1 | 4614.0 | 4765.4 | 4886.3 | 5004.1 | 5079.0 | 5157.1 | 5267.2 | 5264.2 | 5238.1 |
| 35°   | 4470.2 | 4485.5 | 4384.5 | 4577.3 | 4698.1 | 4841.9 | 4935.2 | 5039.3 | 5137.2 | 5138.7 | 5118.8 |
| 37.5° | 4225.4 | 4243.8 | 4152.0 | 4363.1 | 4500.8 | 4670.6 | 4789.9 | 4893.9 | 5002.6 | 5008.7 | 4990.3 |
| 40°   | 3982.2 | 4002.0 | 3922.5 | 4126.0 | 4300.4 | 4490.1 | 4627.7 | 4750.1 | 4869.5 | 4872.5 | 4860.3 |
| 42.5° | 3738.9 | 3760.3 | 3700.7 | 3899.5 | 4096.9 | 4300.4 | 4462.5 | 4601.7 | 4724.1 | 4731.8 | 4718.0 |
| 45°   | 3501.8 | 3520.1 | 3477.3 | 3694.5 | 3884.2 | 4106.1 | 4292.7 | 4450.3 | 4574.2 | 4584.9 | 4580.3 |
| 47.5° | 3266.2 | 3283.0 | 3244.8 | 3443.7 | 3662.4 | 3898.0 | 4113.7 | 4288.1 | 4419.7 | 4431.9 | 4428.9 |
| 50°   | 3035.2 | 3049.0 | 3007.7 | 3215.7 | 3432.9 | 3683.8 | 3908.7 | 4110.7 | 4257.5 | 4269.8 | 4268.2 |
| 52.5° | 2805.7 | 2819.5 | 2784.3 | 3003.1 | 3200.4 | 3465.1 | 3709.8 | 3928.6 | 4073.9 | 4092.3 | 4095.4 |
| 55°   | 2583.9 | 2590.0 | 2562.5 | 2772.1 | 2963.3 | 3240.2 | 3521.7 | 3734.3 | 3879.7 | 3895.0 | 3904.1 |
| 57.5° | 2362.1 | 2363.6 | 2340.6 | 2541.1 | 2724.6 | 3007.7 | 3302.9 | 3526.3 | 3663.9 | 3679.2 | 3693.0 |
| 60°   | 2141.8 | 2140.2 | 2114.2 | 2308.5 | 2484.4 | 2764.4 | 3071.9 | 3293.7 | 3426.8 | 3440.6 | 3459.0 |
| 62.5° | 1923.0 | 1918.4 | 1895.5 | 2074.5 | 2239.7 | 2516.6 | 2825.6 | 3039.8 | 3166.8 | 3175.9 | 3200.4 |
| 65°   | 1705.8 | 1701.2 | 1679.8 | 1845.0 | 1994.9 | 2259.6 | 2562.5 | 2765.9 | 2880.7 | 2892.9 | 2888.3 |
| 67.5° | 1491.6 | 1482.4 | 1465.6 | 1614.0 | 1750.1 | 1994.9 | 2285.6 | 2479.9 | 2574.7 | 2585.4 | 2614.5 |
| 70°   | 1277.4 | 1266.7 | 1228.5 | 1386.0 | 1505.4 | 1724.1 | 1994.9 | 2167.8 | 2247.3 | 2258.0 | 2253.4 |
| 72.5° | 1066.3 | 1055.6 | 1014.3 | 1159.6 | 1260.6 | 1451.8 | 1693.5 | 1837.3 | 1906.2 | 1915.4 | 1915.4 |
| 75°   | 861.3  | 855.2  | 829.2  | 939.3  | 1023.5 | 1179.5 | 1384.5 | 1503.8 | 1557.4 | 1568.1 | 1565.0 |
| 77.5° | 663.9  | 659.4  | 633.4  | 728.2  | 794.0  | 910.3  | 1075.5 | 1168.8 | 1208.6 | 1220.8 | 1246.8 |
| 80°   | 475.8  | 474.2  | 432.9  | 526.3  | 555.3  | 653.2  | 774.1  | 846.0  | 867.4  | 884.2  | 902.6  |
| 82.5° | 304.4  | 306.0  | 264.7  | 344.2  | 356.5  | 419.2  | 494.1  | 538.5  | 553.8  | 567.6  | 581.3  |
| 85°   | 148.4  | 154.5  | 131.6  | 182.1  | 183.6  | 215.7  | 247.8  | 264.7  | 270.8  | 281.5  | 293.7  |
| 87.5° | 38.2   | 44.4   | 24.5   | 52.0   | 45.9   | 59.7   | 68.8   | 73.4   | 71.9   | 79.6   | 84.1   |
| 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):**

|       | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   | 285°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6558.4 | 6558.4 | 6558.4 | 6558.4 | 6558.4 | 6558.4 | 6558.4 | 6558.4 | 6558.4 | 6558.4 | 6558.4 |
| 2.5°  | 6419.2 | 6468.1 | 6443.7 | 6523.2 | 6553.8 | 6504.8 | 6590.5 | 6592.0 | 6530.9 | 6602.8 | 6642.5 |
| 5°    | 6319.7 | 6370.2 | 6354.9 | 6437.5 | 6475.8 | 6432.9 | 6537.0 | 6556.9 | 6497.2 | 6578.3 | 6642.5 |
| 7.5°  | 6218.8 | 6278.4 | 6258.5 | 6342.7 | 6388.6 | 6354.9 | 6466.6 | 6498.7 | 6452.8 | 6541.6 | 6627.2 |
| 10°   | 6131.6 | 6182.1 | 6160.6 | 6249.4 | 6289.1 | 6261.6 | 6371.8 | 6431.4 | 6388.6 | 6497.2 | 6599.7 |
| 12.5° | 6045.9 | 6087.2 | 6062.7 | 6136.2 | 6174.4 | 6139.2 | 6273.8 | 6328.9 | 6298.3 | 6411.5 | 6543.1 |
| 15°   | 5935.8 | 5981.6 | 5948.0 | 6013.8 | 6042.8 | 6012.2 | 6122.4 | 6217.2 | 6179.0 | 6302.9 | 6448.2 |
| 17.5° | 5851.6 | 5877.6 | 5831.7 | 5883.7 | 5900.6 | 5859.3 | 5970.9 | 6064.3 | 6036.7 | 6171.3 | 6339.6 |
| 20°   | 5758.3 | 5779.7 | 5715.5 | 5744.5 | 5743.0 | 5691.0 | 5793.5 | 5885.3 | 5866.9 | 6015.3 | 6206.5 |
| 22.5° | 5654.3 | 5665.0 | 5590.0 | 5596.1 | 5593.1 | 5507.4 | 5599.2 | 5692.5 | 5684.9 | 5834.8 | 6049.0 |
| 25°   | 5544.1 | 5545.6 | 5449.3 | 5446.2 | 5412.5 | 5311.6 | 5392.7 | 5498.2 | 5475.3 | 5637.4 | 5862.3 |
| 27.5° | 5435.5 | 5420.2 | 5303.9 | 5276.4 | 5222.8 | 5102.0 | 5173.9 | 5268.7 | 5255.0 | 5414.1 | 5663.4 |
| 30°   | 5319.2 | 5299.3 | 5157.1 | 5106.6 | 5028.6 | 4889.3 | 4949.0 | 5037.7 | 5045.4 | 5184.6 | 5446.2 |
| 32.5° | 5209.1 | 5158.6 | 5001.0 | 4927.6 | 4829.7 | 4667.5 | 4699.6 | 4789.9 | 4802.1 | 4942.9 | 5212.1 |
| 35°   | 5066.8 | 5033.1 | 4838.9 | 4713.4 | 4617.0 | 4439.6 | 4473.2 | 4536.0 | 4554.3 | 4692.0 | 4965.8 |
| 37.5° | 4932.2 | 4878.6 | 4672.1 | 4519.1 | 4395.2 | 4208.6 | 4217.7 | 4282.0 | 4300.4 | 4439.6 | 4710.4 |
| 40°   | 4793.0 | 4716.5 | 4494.6 | 4315.7 | 4173.4 | 3977.6 | 3966.9 | 4034.2 | 4047.9 | 4184.1 | 4428.9 |
| 42.5° | 4644.6 | 4552.8 | 4303.4 | 4107.6 | 3943.9 | 3745.0 | 3723.6 | 3781.7 | 3797.0 | 3930.1 | 4170.3 |
| 45°   | 4494.6 | 4384.5 | 4107.6 | 3893.4 | 3714.4 | 3511.0 | 3489.5 | 3533.9 | 3556.9 | 3682.3 | 3913.3 |
| 47.5° | 4335.5 | 4207.0 | 3905.7 | 3667.0 | 3481.9 | 3278.4 | 3252.4 | 3296.8 | 3315.1 | 3439.1 | 3657.8 |
| 50°   | 4168.8 | 4012.8 | 3697.6 | 3434.5 | 3250.9 | 3050.5 | 3012.2 | 3064.3 | 3081.1 | 3197.3 | 3411.5 |
| 52.5° | 3985.2 | 3812.3 | 3475.8 | 3200.4 | 3016.8 | 2825.6 | 2779.7 | 2830.2 | 2850.1 | 2963.3 | 3160.6 |
| 55°   | 3790.9 | 3604.3 | 3252.4 | 2984.7 | 2785.8 | 2599.2 | 2560.9 | 2580.8 | 2623.7 | 2730.8 | 2914.3 |
| 57.5° | 3572.2 | 3387.0 | 3016.8 | 2744.5 | 2553.3 | 2374.3 | 2342.2 | 2360.5 | 2400.3 | 2504.3 | 2669.6 |
| 60°   | 3339.6 | 3143.8 | 2776.6 | 2504.3 | 2319.2 | 2149.4 | 2120.3 | 2137.2 | 2180.0 | 2274.9 | 2427.8 |
| 62.5° | 3110.1 | 2889.9 | 2528.8 | 2258.0 | 2089.8 | 1932.2 | 1924.5 | 1918.4 | 1958.2 | 2050.0 | 2184.6 |
| 65°   | 2831.7 | 2620.6 | 2270.3 | 2013.3 | 1860.3 | 1718.0 | 1687.4 | 1701.2 | 1739.4 | 1823.6 | 1964.3 |
| 67.5° | 2533.4 | 2342.2 | 2005.6 | 1768.5 | 1632.3 | 1505.4 | 1479.3 | 1485.5 | 1525.2 | 1598.7 | 1721.1 |
| 70°   | 2216.7 | 2048.4 | 1734.8 | 1522.2 | 1407.4 | 1288.1 | 1271.3 | 1272.8 | 1311.1 | 1375.3 | 1482.4 |
| 72.5° | 1884.8 | 1733.3 | 1461.0 | 1278.9 | 1184.1 | 1098.4 | 1083.1 | 1064.8 | 1099.9 | 1155.0 | 1246.8 |
| 75°   | 1546.7 | 1413.6 | 1188.7 | 1040.3 | 965.3  | 893.4  | 879.7  | 861.3  | 896.5  | 943.9  | 1015.8 |
| 77.5° | 1205.5 | 1098.4 | 924.0  | 809.3  | 751.1  | 697.6  | 685.4  | 665.5  | 700.7  | 735.8  | 792.5  |
| 80°   | 872.0  | 794.0  | 690.0  | 569.1  | 549.2  | 514.0  | 501.8  | 480.4  | 514.0  | 537.0  | 579.8  |
| 82.5° | 563.0  | 511.0  | 451.3  | 367.2  | 364.1  | 338.1  | 332.0  | 307.5  | 338.1  | 351.9  | 384.0  |
| 85°   | 284.5  | 260.1  | 244.8  | 186.6  | 192.8  | 175.9  | 174.4  | 148.4  | 172.9  | 179.0  | 197.3  |
| 87.5° | 81.1   | 85.7   | 76.5   | 45.9   | 58.1   | 55.1   | 55.1   | 39.8   | 55.1   | 55.1   | 62.7   |
| 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: P838215

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-6STD-35-120-EDD-90

**CANDELA DISTRIBUTION (continued):**

|       | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°   | 360°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6558.4 | 6558.4 | 6558.4 | 6558.4 | 6558.4 | 6558.4 | 6558.4 | 6558.4 |
| 2.5°  | 6564.5 | 6590.5 | 6596.6 | 6595.1 | 6611.9 | 6703.7 | 6673.1 | 6703.7 |
| 5°    | 6579.8 | 6637.9 | 6653.2 | 6674.7 | 6702.2 | 6806.2 | 6772.6 | 6809.3 |
| 7.5°  | 6589.0 | 6676.2 | 6709.8 | 6751.2 | 6795.5 | 6911.8 | 6884.2 | 6921.0 |
| 10°   | 6589.0 | 6702.2 | 6751.2 | 6820.0 | 6879.7 | 7014.3 | 6988.3 | 7031.1 |
| 12.5° | 6561.5 | 6706.8 | 6775.6 | 6872.0 | 6948.5 | 7093.8 | 7083.1 | 7113.7 |
| 15°   | 6504.8 | 6683.8 | 6778.7 | 6902.6 | 6997.5 | 7159.6 | 7155.0 | 7191.7 |
| 17.5° | 6428.4 | 6644.1 | 6758.8 | 6914.8 | 7034.2 | 7216.2 | 7226.9 | 7246.8 |
| 20°   | 6332.0 | 6569.1 | 6719.0 | 6910.3 | 7060.2 | 7260.6 | 7274.4 | 7301.9 |
| 22.5° | 6205.0 | 6478.8 | 6659.4 | 6890.4 | 7063.2 | 7278.9 | 7303.4 | 7329.4 |
| 25°   | 6055.1 | 6370.2 | 6581.3 | 6852.1 | 7047.9 | 7277.4 | 7311.1 | 7334.0 |
| 27.5° | 5883.7 | 6229.5 | 6481.9 | 6790.9 | 7005.1 | 7252.9 | 7294.2 | 7321.8 |
| 30°   | 5684.9 | 6079.6 | 6368.7 | 6711.4 | 6947.0 | 7207.0 | 7251.4 | 7278.9 |
| 32.5° | 5479.9 | 5914.3 | 6234.1 | 6608.9 | 6862.8 | 7133.6 | 7171.9 | 7193.3 |
| 35°   | 5256.5 | 5713.9 | 6071.9 | 6477.3 | 6754.2 | 7015.8 | 7044.9 | 7067.8 |
| 37.5° | 5013.3 | 5496.7 | 5886.8 | 6328.9 | 6601.2 | 6852.1 | 6878.1 | 6904.1 |
| 40°   | 4762.4 | 5268.7 | 5678.7 | 6146.9 | 6419.2 | 6651.7 | 6679.2 | 6697.6 |
| 42.5° | 4509.9 | 5016.3 | 5456.9 | 5932.7 | 6203.5 | 6426.8 | 6443.7 | 6462.0 |
| 45°   | 4254.5 | 4754.7 | 5207.5 | 5695.6 | 5963.3 | 6172.9 | 6179.0 | 6194.3 |
| 47.5° | 3994.4 | 4483.9 | 4933.7 | 5424.8 | 5689.4 | 5880.7 | 5886.8 | 5899.0 |
| 50°   | 3732.8 | 4213.2 | 4641.5 | 5132.6 | 5391.1 | 5593.1 | 5565.5 | 5577.8 |
| 52.5° | 3475.8 | 3928.6 | 4366.1 | 4817.4 | 5072.9 | 5251.9 | 5259.6 | 5235.1 |
| 55°   | 3223.4 | 3650.2 | 4052.5 | 4487.0 | 4730.2 | 4869.5 | 4864.9 | 4874.0 |
| 57.5° | 2967.9 | 3368.7 | 3737.4 | 4135.1 | 4372.3 | 4503.8 | 4531.4 | 4499.2 |
| 60°   | 2707.8 | 3084.1 | 3414.6 | 3774.1 | 4003.6 | 4113.7 | 4145.8 | 4115.2 |
| 62.5° | 2449.3 | 2795.0 | 3094.9 | 3408.5 | 3621.1 | 3757.3 | 3754.2 | 3720.6 |
| 65°   | 2190.7 | 2504.3 | 2772.1 | 3038.2 | 3223.4 | 3359.5 | 3353.4 | 3322.8 |
| 67.5° | 1952.1 | 2210.6 | 2450.8 | 2666.5 | 2827.1 | 2920.5 | 2952.6 | 2915.9 |
| 70°   | 1688.9 | 1912.3 | 2123.4 | 2296.3 | 2429.4 | 2513.5 | 2544.1 | 2512.0 |
| 72.5° | 1425.8 | 1615.5 | 1763.9 | 1930.6 | 2033.1 | 2103.5 | 2135.6 | 2105.0 |
| 75°   | 1165.7 | 1321.8 | 1442.6 | 1572.7 | 1644.6 | 1704.2 | 1740.9 | 1710.4 |
| 77.5° | 913.3  | 1034.2 | 1130.5 | 1225.4 | 1308.0 | 1321.8 | 1353.9 | 1334.0 |
| 80°   | 673.1  | 760.3  | 830.7  | 893.4  | 953.1  | 959.2  | 985.2  | 973.0  |
| 82.5° | 448.2  | 506.4  | 524.7  | 590.5  | 628.8  | 622.6  | 648.6  | 639.5  |
| 85°   | 237.1  | 272.3  | 304.4  | 324.3  | 345.7  | 325.9  | 348.8  | 339.6  |
| 87.5° | 79.6   | 84.1   | 73.4   | 104.0  | 114.7  | 97.9   | 111.7  | 107.1  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)