

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: P834698

Luminaire Tested: **ORLG-24-4-INS-ASY2-LD4-5STD-40-120-EDD-90**

Issue Date: 5/16/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P834698  
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-LD4-5STD-40-120-EDD-90  
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

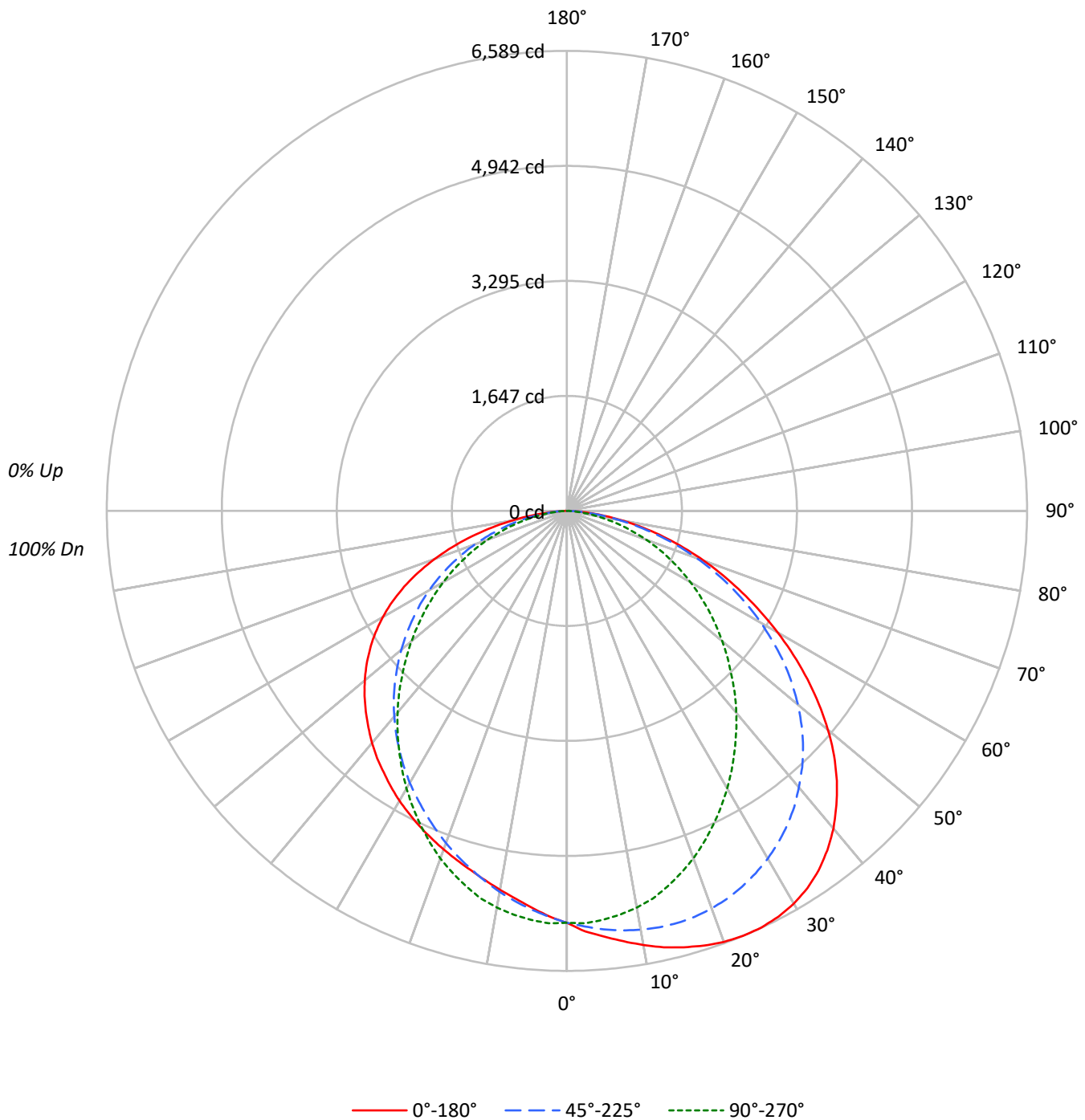
Lumens per Lamp: N/A  
Luminaire Lumens: 17353.3 lumens  
Efficiency: N/A  
Efficacy: 104.2 lumens/watt  
Spacing Criteria (0/90/45): 1.41 / 1.17 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 166.5  
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

TEST NUMBER: P834698

CATALOG NUMBER: ORLG-24-4-INS-ASY2-LD4-5STD-40-120-EDD-90

### Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P834698

CATALOG NUMBER: ORLG-24-4-INS-ASY2-LD4-5STD-40-120-EDD-90

**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  | 88  |  | 90  |
| 2   | 99  | 90  | 84  | 78  | 96  | 89  | 82  | 77  | 85  | 80  | 75  |  | 82  | 77  | 73  |  | 79  |
| 3   | 90  | 79  | 71  | 65  | 87  | 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  | 73  | 61  | 53  | 47  | 59  | 52  | 46  |  | 57  | 51  | 46  |  | 55  |
| 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  | 46  | 38  | 32  | 59  | 46  | 38  | 32  | 44  | 37  | 32  |  | 43  | 36  | 31  |  | 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° |
|-----|-------|------|------|
| 0°  | 7938  | 7938 | 7938 |
| 5°  | 8264  | 7942 | 7707 |
| 10° | 8626  | 7882 | 7528 |
| 15° | 9013  | 7756 | 7420 |
| 20° | 9407  | 7585 | 7389 |
| 25° | 9777  | 7364 | 7401 |
| 30° | 10095 | 7134 | 7449 |
| 35° | 10325 | 6879 | 7511 |
| 40° | 10430 | 6625 | 7621 |
| 45° | 10401 | 6345 | 7746 |
| 50° | 10216 | 6078 | 7906 |
| 55° | 9867  | 5799 | 8070 |
| 60° | 9386  | 5500 | 8193 |
| 65° | 8814  | 5165 | 8182 |
| 70° | 8203  | 4763 | 7939 |
| 75° | 7447  | 4183 | 7320 |
| 80° | 6395  | 3437 | 6175 |
| 85° | 4877  | 2350 | 4241 |

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°    | 559.5   | 3.2       |
| 10°-20°   | 1615.8  | 9.3       |
| 20°-30°   | 2475.4  | 14.3      |
| 30°-40°   | 3020.9  | 17.4      |
| 40°-50°   | 3159.2  | 18.2      |
| 50°-60°   | 2859.3  | 16.5      |
| 60°-70°   | 2165.4  | 12.5      |
| 70°-80°   | 1206.8  | 7.0       |
| 80°-90°   | 291.1   | 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°    | 4650.7  | 26.8      |
| 0°-40°    | 7671.5  | 44.2      |
| 0°-60°    | 13690.0 | 78.9      |
| 0°-90°    | 17353.3 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 17353.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 5899 | 5899 | 5899 | 5899 | 5899 |      |
| 5°  | 6119 | 6017 | 5880 | 5736 | 5706 | 590  |
| 15° | 6471 | 6111 | 5568 | 5309 | 5327 | 1835 |
| 25° | 6585 | 5938 | 4961 | 4785 | 4985 | 3038 |
| 35° | 6286 | 5498 | 4188 | 4183 | 4572 | 3925 |
| 45° | 5466 | 4781 | 3335 | 3482 | 4071 | 4206 |
| 55° | 4206 | 3798 | 2472 | 2690 | 3440 | 3753 |
| 65° | 2768 | 2604 | 1622 | 1844 | 2570 | 2746 |
| 75° | 1433 | 1353 | 805  | 961  | 1408 | 1519 |
| 85° | 316  | 278  | 152  | 204  | 275  | 380  |
| 90° | 0    | 0    | 0    | 0    | 0    |      |

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CATALOG NUMBER: ORLG-24-4-INS-ASY2-LD4-5STD-40-120-EDD-90

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 10°    | 20°    | 22.5°  | 30°    | 40°    | 45°    | 50°    | 60°    | 67.5°  | 70°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5899.4 | 5899.4 | 5899.4 | 5899.4 | 5899.4 | 5899.4 | 5899.4 | 5899.4 | 5899.4 | 5899.4 | 5899.4 |
| 2.5°  | 6029.6 | 6001.3 | 5978.1 | 5987.1 | 5992.2 | 5974.2 | 5958.7 | 5961.3 | 5945.8 | 5975.5 | 5905.8 |
| 5°    | 6118.6 | 6092.8 | 6065.7 | 6076.1 | 6065.7 | 6038.7 | 6016.7 | 6010.3 | 5969.0 | 5985.8 | 5914.9 |
| 7.5°  | 6217.9 | 6189.5 | 6149.6 | 6161.2 | 6139.2 | 6088.9 | 6060.6 | 6043.8 | 5980.6 | 5981.9 | 5903.3 |
| 10°   | 6313.3 | 6288.8 | 6234.7 | 6242.4 | 6202.4 | 6135.4 | 6090.2 | 6067.0 | 5978.1 | 5965.2 | 5883.9 |
| 12.5° | 6402.3 | 6368.8 | 6310.7 | 6314.6 | 6256.6 | 6167.6 | 6109.6 | 6076.1 | 5960.0 | 5921.3 | 5841.4 |
| 15°   | 6470.6 | 6438.4 | 6368.8 | 6367.5 | 6292.7 | 6176.6 | 6110.9 | 6064.4 | 5917.4 | 5856.8 | 5773.0 |
| 17.5° | 6528.7 | 6499.0 | 6412.6 | 6410.0 | 6319.8 | 6172.8 | 6094.1 | 6036.1 | 5855.6 | 5780.8 | 5687.9 |
| 20°   | 6569.9 | 6540.3 | 6443.6 | 6434.5 | 6326.2 | 6153.4 | 6059.3 | 5985.8 | 5774.3 | 5685.3 | 5582.2 |
| 22.5° | 6589.3 | 6559.6 | 6450.0 | 6437.1 | 6310.7 | 6114.7 | 6009.0 | 5922.6 | 5681.5 | 5565.4 | 5458.4 |
| 25°   | 6585.4 | 6557.0 | 6433.2 | 6420.3 | 6281.1 | 6056.7 | 5938.1 | 5838.8 | 5564.1 | 5427.4 | 5321.7 |
| 27.5° | 6553.2 | 6531.2 | 6401.0 | 6384.2 | 6226.9 | 5978.1 | 5851.7 | 5742.1 | 5433.9 | 5281.7 | 5167.0 |
| 30°   | 6497.7 | 6481.0 | 6343.0 | 6327.5 | 6159.9 | 5891.7 | 5751.1 | 5624.7 | 5293.3 | 5121.8 | 5005.8 |
| 32.5° | 6408.7 | 6393.3 | 6254.0 | 6239.8 | 6069.6 | 5780.8 | 5633.8 | 5503.5 | 5139.9 | 4950.3 | 4834.3 |
| 35°   | 6286.2 | 6277.2 | 6141.8 | 6126.3 | 5953.6 | 5654.4 | 5498.4 | 5355.2 | 4980.0 | 4765.9 | 4655.0 |
| 37.5° | 6125.1 | 6125.1 | 5994.8 | 5978.1 | 5809.1 | 5499.7 | 5346.2 | 5194.0 | 4799.5 | 4572.5 | 4462.9 |
| 40°   | 5938.1 | 5954.8 | 5822.0 | 5805.3 | 5641.5 | 5333.3 | 5165.7 | 5005.8 | 4604.8 | 4368.8 | 4261.7 |
| 42.5° | 5713.7 | 5729.2 | 5618.3 | 5602.8 | 5449.4 | 5141.2 | 4985.1 | 4811.1 | 4401.0 | 4161.2 | 4050.3 |
| 45°   | 5466.1 | 5486.8 | 5387.5 | 5375.9 | 5232.7 | 4931.0 | 4781.4 | 4604.8 | 4188.2 | 3944.5 | 3836.2 |
| 47.5° | 5190.2 | 5217.3 | 5130.9 | 5124.4 | 4991.6 | 4715.6 | 4559.6 | 4380.4 | 3965.2 | 3718.9 | 3617.0 |
| 50°   | 4880.7 | 4919.4 | 4848.5 | 4848.5 | 4729.8 | 4455.2 | 4319.8 | 4140.5 | 3733.1 | 3486.8 | 3386.2 |
| 52.5° | 4549.3 | 4598.3 | 4545.4 | 4546.7 | 4450.0 | 4203.7 | 4063.2 | 3887.8 | 3490.6 | 3248.2 | 3155.4 |
| 55°   | 4206.3 | 4254.0 | 4220.5 | 4225.6 | 4149.6 | 3925.2 | 3797.5 | 3623.5 | 3243.1 | 3007.1 | 2919.4 |
| 57.5° | 3847.8 | 3899.4 | 3877.5 | 3887.8 | 3834.9 | 3633.8 | 3501.0 | 3348.8 | 2987.7 | 2754.3 | 2679.5 |
| 60°   | 3488.1 | 3537.1 | 3525.5 | 3539.6 | 3506.1 | 3332.0 | 3210.8 | 3053.5 | 2731.1 | 2506.8 | 2441.0 |
| 62.5° | 3124.4 | 3169.6 | 3167.0 | 3182.4 | 3164.4 | 3020.0 | 2911.7 | 2777.6 | 2465.5 | 2259.2 | 2198.6 |
| 65°   | 2768.5 | 2807.2 | 2804.6 | 2821.4 | 2817.5 | 2701.5 | 2603.5 | 2481.0 | 2199.9 | 2010.3 | 1957.4 |
| 67.5° | 2422.9 | 2455.2 | 2446.2 | 2465.5 | 2470.7 | 2377.8 | 2292.7 | 2183.1 | 1947.1 | 1762.7 | 1717.6 |
| 70°   | 2085.1 | 2107.0 | 2095.4 | 2108.3 | 2119.9 | 2050.3 | 1978.1 | 1881.4 | 1677.6 | 1515.1 | 1477.7 |
| 72.5° | 1753.7 | 1769.2 | 1751.1 | 1764.0 | 1774.3 | 1724.0 | 1664.7 | 1580.9 | 1412.0 | 1271.4 | 1240.5 |
| 75°   | 1432.6 | 1454.5 | 1417.1 | 1430.0 | 1437.8 | 1387.5 | 1352.7 | 1284.3 | 1138.6 | 1030.3 | 1009.7 |
| 77.5° | 1121.9 | 1134.7 | 1114.1 | 1109.0 | 1114.1 | 1078.0 | 1050.9 | 998.1  | 888.5  | 799.5  | 786.6  |
| 80°   | 825.3  | 833.0  | 812.4  | 807.2  | 811.1  | 785.3  | 764.7  | 726.0  | 648.6  | 581.6  | 576.4  |
| 82.5° | 553.2  | 557.1  | 539.0  | 533.8  | 536.4  | 528.7  | 504.2  | 477.1  | 441.0  | 384.3  | 383.0  |
| 85°   | 315.9  | 315.9  | 303.0  | 297.9  | 300.4  | 287.6  | 278.5  | 264.3  | 250.2  | 211.5  | 214.1  |
| 87.5° | 116.1  | 116.1  | 109.6  | 108.3  | 121.2  | 107.0  | 103.2  | 96.7   | 100.6  | 79.9   | 85.1   |
| 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°    | 5899.4 | 5899.4 | 5899.4 | 5899.4 | 5899.4 | 5899.4 | 5899.4 | 5899.4 | 5899.4 | 5899.4 | 5899.4 |
| 2.5°  | 5925.2 | 5912.3 | 5900.7 | 5860.7 | 5877.5 | 5836.2 | 5833.6 | 5818.2 | 5806.6 | 5784.6 | 5813.0 |
| 5°    | 5905.8 | 5880.1 | 5846.5 | 5798.8 | 5813.0 | 5764.0 | 5753.7 | 5735.6 | 5720.2 | 5691.8 | 5713.7 |
| 7.5°  | 5874.9 | 5832.3 | 5779.5 | 5718.9 | 5738.2 | 5677.6 | 5662.1 | 5642.8 | 5629.9 | 5596.4 | 5615.7 |
| 10°   | 5829.8 | 5769.2 | 5707.3 | 5633.8 | 5647.9 | 5582.2 | 5562.8 | 5542.2 | 5530.6 | 5500.9 | 5520.3 |
| 12.5° | 5760.1 | 5686.6 | 5602.8 | 5522.9 | 5538.3 | 5476.4 | 5450.7 | 5428.7 | 5424.9 | 5400.4 | 5423.6 |
| 15°   | 5669.9 | 5568.0 | 5481.6 | 5396.5 | 5414.5 | 5342.3 | 5330.7 | 5308.8 | 5315.3 | 5298.5 | 5326.9 |
| 17.5° | 5555.1 | 5437.8 | 5343.6 | 5252.1 | 5270.1 | 5209.5 | 5200.5 | 5190.2 | 5196.6 | 5194.0 | 5225.0 |
| 20°   | 5426.2 | 5297.2 | 5188.9 | 5098.6 | 5108.9 | 5061.2 | 5065.1 | 5062.5 | 5075.4 | 5089.6 | 5132.1 |
| 22.5° | 5280.4 | 5134.7 | 5021.3 | 4928.4 | 4943.9 | 4902.6 | 4920.7 | 4925.8 | 4947.8 | 4980.0 | 5034.1 |
| 25°   | 5116.7 | 4960.6 | 4842.0 | 4754.3 | 4768.5 | 4741.4 | 4772.4 | 4785.3 | 4820.1 | 4874.3 | 4929.7 |
| 27.5° | 4945.2 | 4780.1 | 4653.8 | 4569.9 | 4597.0 | 4569.9 | 4616.4 | 4642.1 | 4695.0 | 4754.3 | 4822.7 |
| 30°   | 4763.4 | 4591.9 | 4461.6 | 4386.8 | 4412.6 | 4388.1 | 4462.9 | 4497.7 | 4550.6 | 4631.8 | 4713.1 |
| 32.5° | 4572.5 | 4392.0 | 4264.3 | 4206.3 | 4224.4 | 4220.5 | 4304.3 | 4343.0 | 4413.9 | 4506.7 | 4593.1 |
| 35°   | 4376.5 | 4188.2 | 4059.3 | 4010.3 | 4032.2 | 4037.4 | 4138.0 | 4183.1 | 4260.5 | 4372.6 | 4465.5 |
| 37.5° | 4174.1 | 3981.9 | 3855.6 | 3815.6 | 3834.9 | 3854.3 | 3971.6 | 4016.7 | 4104.4 | 4226.9 | 4328.8 |
| 40°   | 3963.9 | 3771.7 | 3648.0 | 3615.7 | 3635.1 | 3655.7 | 3783.3 | 3845.2 | 3940.7 | 4073.5 | 4184.4 |
| 42.5° | 3751.1 | 3559.0 | 3439.1 | 3415.8 | 3435.2 | 3475.2 | 3610.6 | 3668.6 | 3769.2 | 3916.2 | 4038.7 |
| 45°   | 3534.5 | 3334.6 | 3230.2 | 3212.1 | 3232.7 | 3279.2 | 3412.0 | 3481.6 | 3588.6 | 3749.8 | 3881.3 |
| 47.5° | 3315.3 | 3120.6 | 3021.3 | 3009.7 | 3030.3 | 3081.9 | 3228.9 | 3292.1 | 3405.5 | 3577.0 | 3718.9 |
| 50°   | 3093.5 | 2903.9 | 2808.5 | 2804.6 | 2824.0 | 2879.4 | 3020.0 | 3094.8 | 3212.1 | 3404.2 | 3550.0 |
| 52.5° | 2869.1 | 2687.3 | 2600.9 | 2600.9 | 2618.9 | 2675.7 | 2817.5 | 2894.9 | 3016.1 | 3218.6 | 3379.7 |
| 55°   | 2644.7 | 2471.9 | 2389.4 | 2395.9 | 2421.7 | 2470.7 | 2608.6 | 2689.9 | 2812.4 | 3022.6 | 3192.8 |
| 57.5° | 2420.4 | 2256.6 | 2181.8 | 2190.8 | 2215.3 | 2264.3 | 2399.7 | 2491.3 | 2602.2 | 2820.1 | 2994.2 |
| 60°   | 2198.6 | 2043.8 | 1978.1 | 1988.4 | 2010.3 | 2059.3 | 2199.9 | 2278.5 | 2389.4 | 2611.2 | 2785.3 |
| 62.5° | 1974.2 | 1833.6 | 1771.8 | 1784.6 | 1804.0 | 1853.0 | 1985.8 | 2061.9 | 2171.5 | 2389.4 | 2564.8 |
| 65°   | 1752.4 | 1622.2 | 1569.3 | 1582.2 | 1600.3 | 1645.4 | 1770.5 | 1844.0 | 1948.4 | 2161.2 | 2328.8 |
| 67.5° | 1533.2 | 1414.6 | 1370.7 | 1383.6 | 1397.8 | 1440.4 | 1543.5 | 1623.5 | 1721.5 | 1923.9 | 2082.5 |
| 70°   | 1316.6 | 1210.8 | 1172.1 | 1185.0 | 1197.9 | 1236.6 | 1326.9 | 1400.4 | 1490.6 | 1676.3 | 1823.3 |
| 72.5° | 1102.5 | 999.4  | 980.0  | 991.6  | 1001.9 | 1035.5 | 1121.9 | 1179.9 | 1258.5 | 1423.6 | 1550.0 |
| 75°   | 893.6  | 804.6  | 791.7  | 803.3  | 812.4  | 838.2  | 910.4  | 960.7  | 1026.4 | 1169.6 | 1272.7 |
| 77.5° | 692.5  | 617.7  | 612.5  | 621.5  | 630.6  | 648.6  | 705.3  | 758.2  | 809.8  | 915.5  | 1007.1 |
| 80°   | 504.2  | 443.6  | 443.6  | 452.6  | 450.0  | 472.0  | 511.9  | 554.5  | 591.9  | 668.0  | 735.0  |
| 82.5° | 332.7  | 285.0  | 291.4  | 297.9  | 301.7  | 310.8  | 335.3  | 367.5  | 390.7  | 437.1  | 481.0  |
| 85°   | 184.4  | 152.2  | 158.6  | 163.8  | 161.2  | 171.5  | 184.4  | 203.7  | 215.3  | 237.3  | 260.5  |
| 87.5° | 68.3   | 56.7   | 58.0   | 61.9   | 64.5   | 69.6   | 69.6   | 81.2   | 82.5   | 85.1   | 90.3   |
| 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):**

|       | 160°   | 170°   | 180°   |
|-------|--------|--------|--------|
| 0°    | 5899.4 | 5899.4 | 5899.4 |
| 2.5°  | 5758.8 | 5789.8 | 5813.0 |
| 5°    | 5659.5 | 5685.3 | 5706.0 |
| 7.5°  | 5562.8 | 5586.0 | 5604.1 |
| 10°   | 5471.3 | 5497.1 | 5510.0 |
| 12.5° | 5377.2 | 5406.8 | 5417.1 |
| 15°   | 5284.3 | 5314.0 | 5326.9 |
| 17.5° | 5188.9 | 5227.6 | 5241.8 |
| 20°   | 5099.9 | 5148.9 | 5160.5 |
| 22.5° | 5009.6 | 5059.9 | 5074.1 |
| 25°   | 4911.6 | 4971.0 | 4985.1 |
| 27.5° | 4807.2 | 4878.1 | 4892.3 |
| 30°   | 4702.8 | 4780.1 | 4794.3 |
| 32.5° | 4590.6 | 4674.4 | 4687.3 |
| 35°   | 4473.2 | 4557.0 | 4572.5 |
| 37.5° | 4343.0 | 4434.5 | 4465.5 |
| 40°   | 4207.6 | 4306.9 | 4339.1 |
| 42.5° | 4065.7 | 4174.1 | 4207.6 |
| 45°   | 3913.6 | 4032.2 | 4070.9 |
| 47.5° | 3760.1 | 3894.2 | 3927.8 |
| 50°   | 3593.8 | 3736.9 | 3776.9 |
| 52.5° | 3419.7 | 3575.7 | 3615.7 |
| 55°   | 3239.2 | 3396.5 | 3440.3 |
| 57.5° | 3043.2 | 3205.7 | 3252.1 |
| 60°   | 2838.2 | 3000.6 | 3044.5 |
| 62.5° | 2628.0 | 2775.0 | 2817.5 |
| 65°   | 2393.3 | 2531.3 | 2569.9 |
| 67.5° | 2144.4 | 2270.8 | 2303.0 |
| 70°   | 1880.1 | 1989.7 | 2018.0 |
| 72.5° | 1604.1 | 1680.2 | 1717.6 |
| 75°   | 1319.1 | 1379.7 | 1408.1 |
| 77.5° | 1032.9 | 1075.4 | 1098.6 |
| 80°   | 753.1  | 777.6  | 796.9  |
| 82.5° | 492.6  | 502.9  | 517.1  |
| 85°   | 265.6  | 265.6  | 274.7  |
| 87.5° | 90.3   | 86.4   | 90.3   |
| 90°   | 0.0    | 0.0    | 0.0    |

(END OF REPORT)