

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P599449

Luminaire Tested: **IFLD-L-SA7B-730-U-SLL-HSS**

Issue Date: 05/04/2022

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-08  
 Report Number: P599449  
 Test Lab: INNOVATION CENTER(G1)  
 Issue Date: 05/04/2022  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: IFLD-L-SA7B-730-U-SLL-HSS  
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens with House Side Shield  
 Light Source: (112) 3000K CCT, 70 CRI LEDS  
 Ballast/Driver: ELECTRONIC DRIVER

**Summary**

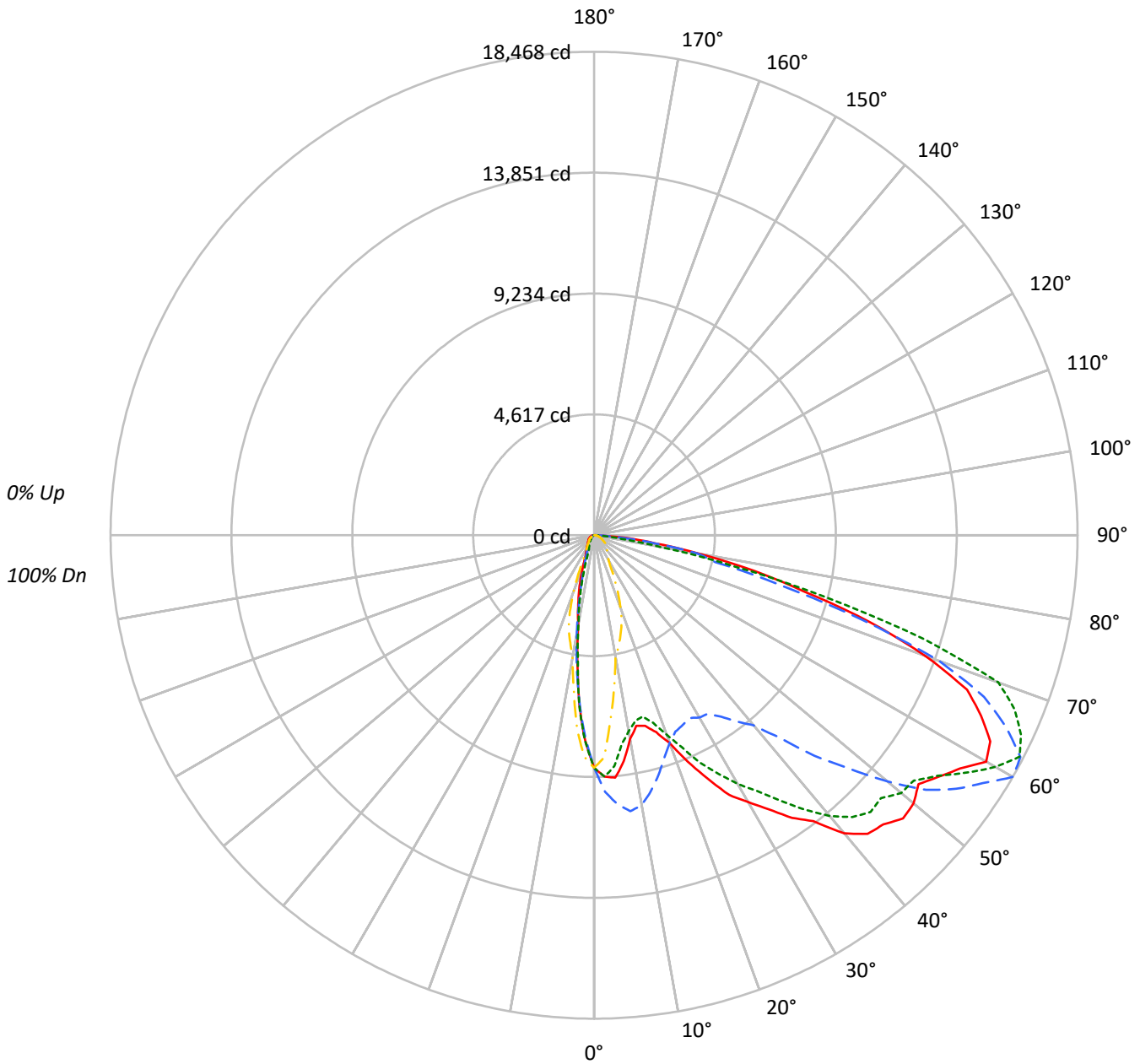
Lumens per Lamp: N/A  
 Luminaire Lumens: 23618.9 lumens  
 Efficiency: N/A  
 Efficacy: 84.1 lumens/watt  
 Spacing Criteria (0/90/45): 0.53 / 0.46 / 0.63  
 Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
 CIE Type: Direct

Input Watts (W): 281  
 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

| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| Photometer                     | GONIO 1 IN0055        | 4/22/2021        | 10/22/2021           |
| Power Meter                    | XITRON 2801 IN0197    | 12/1/2020        | 12/1/2021            |
| AC Power Source                | CHROMA 61505 IN0196   | 12/1/2020        | 12/1/2021            |
| DC Power Supply                | AGILENT E3634A IN0198 | 11/30/2020       | 11/30/2021           |
| Room Thermometer               | ONSET IN0143          | 12/1/2020        | 12/1/2021            |

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### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    ··· 90°-270°    - · 135°-315°

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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 | 0   |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |     |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    | 100 |   |
| 1   | 106 | 100 | 95  | 90  | 103 | 98  | 93  | 89  | 94  | 90  | 86  | 90  | 86  | 83  | 86  | 83  | 81  | 79  |    |    | 79  |   |
| 2   | 94  | 84  | 76  | 69  | 91  | 82  | 75  | 68  | 78  | 72  | 66  | 75  | 70  | 65  | 72  | 67  | 63  | 61  |    |    | 61  |   |
| 3   | 84  | 72  | 62  | 54  | 81  | 70  | 61  | 53  | 67  | 59  | 52  | 64  | 57  | 51  | 61  | 55  | 50  | 48  |    |    | 48  |   |
| 4   | 76  | 62  | 51  | 44  | 73  | 60  | 51  | 43  | 58  | 49  | 43  | 55  | 48  | 42  | 53  | 46  | 41  | 39  |    |    | 39  |   |
| 5   | 69  | 54  | 44  | 36  | 67  | 53  | 43  | 36  | 51  | 42  | 35  | 48  | 41  | 35  | 46  | 40  | 34  | 32  |    |    | 32  |   |
| 6   | 63  | 48  | 38  | 30  | 61  | 47  | 37  | 30  | 45  | 36  | 30  | 43  | 35  | 30  | 41  | 35  | 29  | 27  |    |    | 27  |   |
| 7   | 58  | 43  | 33  | 26  | 56  | 42  | 33  | 26  | 40  | 32  | 26  | 39  | 31  | 26  | 37  | 31  | 25  | 23  |    |    | 23  |   |
| 8   | 54  | 39  | 29  | 23  | 52  | 38  | 29  | 23  | 37  | 28  | 23  | 35  | 28  | 22  | 34  | 27  | 22  | 20  |    |    | 20  |   |
| 9   | 50  | 35  | 26  | 20  | 49  | 35  | 26  | 20  | 34  | 26  | 20  | 32  | 25  | 20  | 31  | 25  | 20  | 18  |    |    | 18  |   |
| 10  | 47  | 33  | 24  | 18  | 46  | 32  | 24  | 18  | 31  | 23  | 18  | 30  | 23  | 18  | 29  | 23  | 18  | 16  |    |    | 16  |   |

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

|     | 0°     | 90°    | 180°  | 270°  |
|-----|--------|--------|-------|-------|
| 0°  | 47794  | 47794  | 47794 | 47794 |
| 5°  | 50226  | 47807  | 34927 | 35131 |
| 10° | 43189  | 41535  | 19096 | 18648 |
| 15° | 41995  | 39922  | 12405 | 9348  |
| 20° | 48405  | 46382  | 6647  | 3324  |
| 25° | 60863  | 56930  | 4307  | 2584  |
| 30° | 73101  | 68123  | 3488  | 2117  |
| 35° | 86566  | 81221  | 2859  | 1699  |
| 40° | 104443 | 98329  | 2526  | 1285  |
| 45° | 118910 | 113725 | 2353  | 864   |
| 50° | 133396 | 128221 | 2323  | 528   |
| 55° | 150853 | 150321 | 2308  | 236   |
| 60° | 186154 | 190568 | 2104  | 68    |
| 65° | 207710 | 229075 | 1928  | 0     |
| 70° | 211796 | 258542 | 1786  | 0     |
| 75° | 172335 | 190698 | 1705  | 0     |
| 80° | 125303 | 79755  | 1760  | 0     |
| 85° | 81011  | 33494  | 2334  | 0     |

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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 674.6   | 2.9       |
| 10°-20°   | 1323.0  | 5.6       |
| 20°-30°   | 1830.8  | 7.8       |
| 30°-40°   | 2587.3  | 11.0      |
| 40°-50°   | 3522.7  | 14.9      |
| 50°-60°   | 4665.6  | 19.8      |
| 60°-70°   | 5417.1  | 22.9      |
| 70°-80°   | 3067.7  | 13.0      |
| 80°-90°   | 530.1   | 2.2       |
| 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°    | 3828.4  | 16.2      |
| 0°-40°    | 6415.7  | 27.2      |
| 0°-60°    | 14604.0 | 61.8      |
| 0°-90°    | 23618.9 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 23618.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 90°   | 180° | 270° | 360°  | Flux  |
|-----|-------|-------|------|------|-------|-------|
| 0°  | 8880  | 8880  | 8880 | 8880 | 8880  |       |
| 5°  | 9297  | 8849  | 6465 | 6503 | 9297  | 835   |
| 15° | 7537  | 7165  | 2226 | 1678 | 7537  | 2211  |
| 25° | 10249 | 9587  | 725  | 435  | 10249 | 4780  |
| 35° | 13176 | 12362 | 435  | 259  | 13176 | 8306  |
| 45° | 15623 | 14942 | 309  | 114  | 15623 | 12112 |
| 55° | 16077 | 16020 | 246  | 25   | 16077 | 14566 |
| 65° | 16310 | 17988 | 151  | 0    | 16310 | 15900 |
| 75° | 8288  | 9171  | 82   | 0    | 8288  | 9045  |
| 85° | 1312  | 542   | 38   | 0    | 1312  | 1576  |
| 90° | 0     | 0     | 0    | 0    | 0     |       |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 2°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8880.5  | 8880.5  | 8880.5  | 8880.5  | 8880.5  | 8880.5  | 8880.5  | 8880.5  | 8880.5  | 8880.5  | 8880.5  |
| 2.5°  | 9227.4  | 9422.9  | 9429.3  | 9517.6  | 9605.9  | 9605.9  | 9814.0  | 9763.5  | 9580.6  | 9549.1  | 9416.6  |
| 5°    | 9296.8  | 9366.2  | 9416.6  | 9864.4  | 10242.9 | 10205.0 | 10318.6 | 10242.9 | 9889.7  | 9435.6  | 9126.5  |
| 7.5°  | 8697.6  | 8773.3  | 8975.1  | 9738.3  | 10249.2 | 10419.5 | 10633.9 | 10160.9 | 9788.8  | 8968.8  | 8375.9  |
| 10°   | 7902.9  | 8048.0  | 8420.1  | 9290.5  | 9921.2  | 10463.6 | 10463.6 | 10085.2 | 9366.2  | 8565.2  | 7839.8  |
| 12.5° | 7461.4  | 7751.5  | 7953.4  | 8836.4  | 9656.3  | 10028.4 | 10015.8 | 9814.0  | 9347.3  | 8338.1  | 7518.2  |
| 15°   | 7537.1  | 7619.1  | 8048.0  | 8735.5  | 9277.9  | 9259.0  | 9486.0  | 9422.9  | 9095.0  | 8539.9  | 7638.0  |
| 17.5° | 7884.0  | 8010.1  | 8382.3  | 8735.5  | 8994.1  | 8918.4  | 8912.1  | 9214.8  | 9233.7  | 8880.5  | 8085.8  |
| 20°   | 8451.6  | 8823.8  | 9000.4  | 9107.6  | 8792.2  | 8470.6  | 8432.7  | 8855.3  | 9183.3  | 9315.7  | 8621.9  |
| 22.5° | 9359.9  | 9605.9  | 9965.4  | 9416.6  | 8596.7  | 8193.0  | 8117.4  | 8584.1  | 9246.3  | 9832.9  | 9315.7  |
| 25°   | 10249.2 | 10438.4 | 10785.3 | 10078.9 | 8817.5  | 8136.3  | 8003.8  | 8407.5  | 9486.0  | 10551.9 | 10154.6 |
| 27.5° | 11189.0 | 11352.9 | 11390.8 | 10564.5 | 8937.3  | 8022.7  | 7865.1  | 8407.5  | 9687.8  | 10930.4 | 11157.4 |
| 30°   | 11762.9 | 11958.4 | 11996.3 | 10993.4 | 9132.8  | 8117.4  | 8041.7  | 8445.3  | 9826.6  | 11252.0 | 11876.4 |
| 32.5° | 12406.2 | 12456.7 | 12425.2 | 11069.1 | 9347.3  | 8394.9  | 8079.5  | 8697.6  | 9984.3  | 11636.8 | 12532.4 |
| 35°   | 13175.7 | 13264.0 | 12942.4 | 11416.0 | 9826.6  | 8571.5  | 8457.9  | 9006.7  | 10255.5 | 11813.4 | 13327.1 |
| 37.5° | 13762.3 | 14039.8 | 13314.5 | 11548.5 | 9921.2  | 8943.6  | 8962.5  | 9650.0  | 10444.7 | 12027.8 | 14203.8 |
| 40°   | 14866.0 | 14399.3 | 13945.2 | 12002.6 | 10280.7 | 9574.3  | 9473.4  | 10312.3 | 11081.7 | 12166.6 | 14777.7 |
| 42.5° | 15471.5 | 15225.6 | 14191.2 | 12046.7 | 10835.8 | 10444.7 | 10469.9 | 11062.8 | 11416.0 | 12557.6 | 14935.4 |
| 45°   | 15622.9 | 15364.3 | 14525.5 | 12078.3 | 11384.5 | 11472.8 | 11908.0 | 12021.5 | 11908.0 | 12816.2 | 15231.9 |
| 47.5° | 16007.7 | 15446.3 | 14487.6 | 12500.9 | 12273.8 | 12614.4 | 13169.4 | 13415.4 | 12576.5 | 12721.6 | 15370.6 |
| 50°   | 15932.0 | 15610.3 | 14405.6 | 12677.5 | 13358.6 | 14260.6 | 14632.7 | 14531.8 | 13320.8 | 12526.1 | 15219.3 |
| 52.5° | 15616.6 | 15269.7 | 14657.9 | 13156.8 | 14374.1 | 15465.2 | 15982.4 | 15730.1 | 13983.0 | 12967.6 | 15118.3 |
| 55°   | 16077.0 | 15812.1 | 14985.9 | 13806.4 | 15137.3 | 16524.8 | 16890.7 | 16701.4 | 14796.7 | 13377.6 | 15692.3 |
| 57.5° | 16575.3 | 16518.5 | 15875.2 | 14569.6 | 16039.2 | 17616.0 | 17616.0 | 17382.6 | 15503.1 | 13970.4 | 16543.8 |
| 60°   | 17294.3 | 17420.5 | 16531.1 | 15074.2 | 16348.2 | 17552.9 | 18467.5 | 18196.2 | 16215.8 | 15011.1 | 17508.8 |
| 62.5° | 17061.0 | 17464.6 | 17376.3 | 16159.0 | 16701.4 | 17862.0 | 18360.2 | 18562.1 | 17098.8 | 16278.9 | 18795.4 |
| 65°   | 16310.4 | 16739.3 | 17370.0 | 16871.7 | 16436.5 | 17111.4 | 17363.7 | 17975.5 | 17540.3 | 17470.9 | 19325.2 |
| 67.5° | 15414.8 | 15881.5 | 16272.6 | 17351.1 | 15900.4 | 16348.2 | 16127.5 | 16323.0 | 17061.0 | 18776.5 | 19628.0 |
| 70°   | 13459.5 | 13907.4 | 14525.5 | 16285.2 | 14481.3 | 14077.6 | 14020.9 | 13926.3 | 15074.2 | 18309.8 | 18253.0 |
| 72.5° | 11069.1 | 11277.3 | 12299.0 | 13238.8 | 10715.9 | 10640.2 | 10728.5 | 10621.3 | 11952.1 | 16575.3 | 15635.5 |
| 75°   | 8287.6  | 8495.8  | 9076.0  | 10167.2 | 7297.4  | 6862.2  | 7366.8  | 7865.1  | 9126.5  | 12866.7 | 11233.1 |
| 77.5° | 6231.5  | 6496.4  | 6862.2  | 7606.5  | 5354.8  | 4673.6  | 4743.0  | 5216.0  | 6597.3  | 10305.9 | 6294.6  |
| 80°   | 4042.9  | 4011.4  | 4717.8  | 5235.0  | 4030.3  | 4156.4  | 3979.8  | 4326.7  | 4780.9  | 5512.5  | 3216.7  |
| 82.5° | 2333.7  | 2365.2  | 2661.6  | 3002.2  | 2806.7  | 3210.4  | 2314.7  | 3866.3  | 3412.2  | 2245.4  | 1198.4  |
| 85°   | 1311.9  | 1368.7  | 1639.9  | 2081.4  | 1759.7  | 1179.4  | 965.0   | 1917.4  | 2144.4  | 920.8   | 580.3   |
| 87.5° | 132.5   | 113.5   | 220.8   | 788.4   | 479.3   | 195.5   | 290.1   | 460.4   | 517.2   | 346.9   | 170.3   |
| 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):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 8880.5  | 8880.5  | 8880.5 | 8880.5 | 8880.5 | 8880.5 | 8880.5 | 8880.5 | 8880.5 | 8880.5 | 8880.5 |
| 2.5°  | 9227.4  | 9227.4  | 9069.7 | 8804.8 | 8697.6 | 8508.4 | 8249.8 | 8331.8 | 8243.5 | 7921.8 | 7839.8 |
| 5°    | 8849.0  | 8546.2  | 8218.3 | 7814.6 | 7581.2 | 7101.9 | 6950.5 | 6679.3 | 6723.5 | 6452.3 | 6464.9 |
| 7.5°  | 8060.6  | 7820.9  | 7265.9 | 6736.1 | 6275.7 | 5859.4 | 5272.8 | 5052.1 | 4837.6 | 4730.4 | 4856.5 |
| 10°   | 7600.2  | 7152.4  | 6395.5 | 5701.7 | 5089.9 | 4717.8 | 4326.7 | 4024.0 | 3746.5 | 3538.3 | 3494.2 |
| 12.5° | 7265.9  | 6868.5  | 5954.0 | 5108.8 | 4629.5 | 4326.7 | 3967.2 | 3550.9 | 3279.7 | 2920.2 | 2813.0 |
| 15°   | 7165.0  | 6679.3  | 5714.3 | 4875.5 | 4408.7 | 3910.5 | 3500.5 | 3090.5 | 2737.3 | 2358.9 | 2226.4 |
| 17.5° | 7511.9  | 6950.5  | 5708.0 | 4686.2 | 4030.3 | 3494.2 | 2926.5 | 2466.1 | 2106.6 | 1759.7 | 1677.7 |
| 20°   | 8098.4  | 7240.7  | 5890.9 | 4572.7 | 3670.8 | 2951.8 | 2308.4 | 1848.0 | 1444.3 | 1217.3 | 1160.5 |
| 22.5° | 8767.0  | 7732.6  | 5909.8 | 4270.0 | 3311.3 | 2409.3 | 1684.0 | 1217.3 | 990.2  | 883.0  | 851.5  |
| 25°   | 9586.9  | 8521.0  | 6136.9 | 4024.0 | 2888.7 | 1829.1 | 1198.4 | 933.5  | 801.0  | 737.9  | 725.3  |
| 27.5° | 10261.8 | 9069.7  | 6382.9 | 3765.4 | 2472.4 | 1356.0 | 939.8  | 763.2  | 693.8  | 630.7  | 624.4  |
| 30°   | 10961.9 | 9700.5  | 6452.3 | 3607.7 | 2112.9 | 1116.4 | 807.3  | 674.9  | 599.2  | 567.6  | 561.3  |
| 32.5° | 11573.7 | 10387.9 | 6673.0 | 3349.1 | 1772.3 | 983.9  | 731.6  | 605.5  | 555.0  | 504.6  | 498.3  |
| 35°   | 12362.1 | 10785.3 | 6780.2 | 3210.4 | 1646.2 | 889.3  | 668.6  | 555.0  | 479.3  | 447.8  | 435.2  |
| 37.5° | 13207.3 | 11170.0 | 6849.6 | 3103.1 | 1539.0 | 832.5  | 630.7  | 523.5  | 454.1  | 410.0  | 397.4  |
| 40°   | 13995.7 | 11712.5 | 6748.7 | 2970.7 | 1457.0 | 763.2  | 605.5  | 485.7  | 422.6  | 378.4  | 359.5  |
| 42.5° | 14601.1 | 12242.3 | 6717.2 | 2844.5 | 1368.7 | 737.9  | 574.0  | 466.7  | 397.4  | 346.9  | 340.6  |
| 45°   | 14941.7 | 12601.8 | 6496.4 | 2743.6 | 1299.3 | 750.6  | 561.3  | 441.5  | 378.4  | 334.3  | 309.1  |
| 47.5° | 14859.7 | 12879.3 | 6553.2 | 2712.1 | 1204.7 | 700.1  | 555.0  | 422.6  | 346.9  | 309.1  | 290.1  |
| 50°   | 15313.9 | 13440.6 | 6458.6 | 2611.2 | 1135.3 | 630.7  | 605.5  | 422.6  | 340.6  | 296.4  | 277.5  |
| 52.5° | 15389.5 | 13951.5 | 6660.4 | 2428.3 | 1028.1 | 580.3  | 599.2  | 416.3  | 328.0  | 283.8  | 258.6  |
| 55°   | 16020.3 | 14544.4 | 7051.4 | 2327.4 | 939.8  | 504.6  | 548.7  | 403.7  | 296.4  | 258.6  | 246.0  |
| 57.5° | 16878.0 | 15774.3 | 7303.7 | 2232.7 | 819.9  | 441.5  | 460.4  | 397.4  | 271.2  | 239.7  | 220.8  |
| 60°   | 17704.3 | 16266.2 | 7322.6 | 2062.5 | 706.4  | 397.4  | 359.5  | 397.4  | 252.3  | 214.4  | 195.5  |
| 62.5° | 18322.4 | 16266.2 | 7196.5 | 1917.4 | 618.1  | 353.2  | 315.4  | 378.4  | 227.1  | 189.2  | 176.6  |
| 65°   | 17988.1 | 15831.0 | 6868.5 | 1797.5 | 561.3  | 309.1  | 271.2  | 290.1  | 201.8  | 164.0  | 151.4  |
| 67.5° | 17388.9 | 14475.0 | 6143.2 | 1652.5 | 555.0  | 271.2  | 233.4  | 214.4  | 176.6  | 145.1  | 132.5  |
| 70°   | 16430.2 | 12645.9 | 5115.1 | 1488.5 | 542.4  | 246.0  | 208.1  | 182.9  | 157.7  | 126.1  | 113.5  |
| 72.5° | 13238.8 | 10444.7 | 4200.6 | 1393.9 | 529.8  | 214.4  | 176.6  | 157.7  | 132.5  | 107.2  | 94.6   |
| 75°   | 9170.7  | 6673.0  | 3235.6 | 1192.1 | 517.2  | 195.5  | 164.0  | 138.8  | 113.5  | 88.3   | 82.0   |
| 77.5° | 5499.9  | 4459.2  | 2087.7 | 895.6  | 340.6  | 157.7  | 138.8  | 107.2  | 94.6   | 75.7   | 69.4   |
| 80°   | 2573.3  | 2106.6  | 845.2  | 346.9  | 164.0  | 113.5  | 94.6   | 82.0   | 75.7   | 63.1   | 56.8   |
| 82.5° | 1009.2  | 889.3   | 410.0  | 201.8  | 132.5  | 88.3   | 75.7   | 69.4   | 63.1   | 50.5   | 44.2   |
| 85°   | 542.4   | 479.3   | 195.5  | 138.8  | 94.6   | 63.1   | 63.1   | 56.8   | 50.5   | 44.2   | 37.8   |
| 87.5° | 119.8   | 88.3    | 82.0   | 82.0   | 69.4   | 50.5   | 50.5   | 44.2   | 37.8   | 31.5   | 25.2   |
| 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):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 8880.5 | 8880.5 | 8880.5 | 8880.5 | 8880.5 | 8880.5 | 8880.5 | 8880.5 | 8880.5 | 8880.5 | 8880.5 |
| 2.5°  | 7795.7 | 7890.3 | 7738.9 | 7833.5 | 7701.1 | 7802.0 | 7814.6 | 7720.0 | 7745.2 | 7871.4 | 7928.1 |
| 5°    | 6641.5 | 6578.4 | 6439.6 | 6395.5 | 6401.8 | 6319.8 | 6351.3 | 6395.5 | 6464.9 | 6502.7 | 6616.2 |
| 7.5°  | 4787.2 | 4932.2 | 4925.9 | 5033.1 | 5039.4 | 5026.8 | 4938.5 | 4749.3 | 4812.4 | 4761.9 | 4825.0 |
| 10°   | 3424.8 | 3487.9 | 3607.7 | 3677.1 | 3803.2 | 3733.9 | 3532.0 | 3456.3 | 3418.5 | 3412.2 | 3475.3 |
| 12.5° | 2737.3 | 2585.9 | 2573.3 | 2598.6 | 2661.6 | 2579.6 | 2478.7 | 2390.4 | 2434.6 | 2522.9 | 2592.3 |
| 15°   | 2119.2 | 1993.1 | 1829.1 | 1803.9 | 1816.5 | 1778.6 | 1671.4 | 1557.9 | 1589.4 | 1677.7 | 1728.2 |
| 17.5° | 1627.3 | 1482.2 | 1368.7 | 1293.0 | 1267.7 | 1135.3 | 977.6  | 883.0  | 857.8  | 851.5  | 895.6  |
| 20°   | 1097.5 | 1072.2 | 1053.3 | 958.7  | 958.7  | 769.5  | 637.0  | 567.6  | 567.6  | 580.3  | 586.6  |
| 22.5° | 819.9  | 788.4  | 794.7  | 775.8  | 725.3  | 574.0  | 504.6  | 485.7  | 485.7  | 498.3  | 498.3  |
| 25°   | 712.7  | 668.6  | 655.9  | 649.6  | 599.2  | 492.0  | 441.5  | 422.6  | 422.6  | 435.2  | 435.2  |
| 27.5° | 605.5  | 592.9  | 574.0  | 548.7  | 504.6  | 422.6  | 391.0  | 372.1  | 378.4  | 384.7  | 378.4  |
| 30°   | 555.0  | 523.5  | 498.3  | 498.3  | 447.8  | 378.4  | 353.2  | 340.6  | 328.0  | 340.6  | 346.9  |
| 32.5° | 492.0  | 473.0  | 460.4  | 441.5  | 384.7  | 334.3  | 309.1  | 296.4  | 290.1  | 290.1  | 296.4  |
| 35°   | 422.6  | 422.6  | 410.0  | 384.7  | 334.3  | 302.7  | 271.2  | 258.6  | 252.3  | 258.6  | 258.6  |
| 37.5° | 378.4  | 359.5  | 365.8  | 340.6  | 296.4  | 264.9  | 233.4  | 220.8  | 220.8  | 214.4  | 220.8  |
| 40°   | 353.2  | 321.7  | 302.7  | 290.1  | 264.9  | 227.1  | 201.8  | 189.2  | 182.9  | 182.9  | 182.9  |
| 42.5° | 315.4  | 290.1  | 252.3  | 246.0  | 239.7  | 195.5  | 164.0  | 157.7  | 151.4  | 145.1  | 145.1  |
| 45°   | 296.4  | 258.6  | 227.1  | 195.5  | 195.5  | 164.0  | 138.8  | 126.1  | 119.8  | 113.5  | 119.8  |
| 47.5° | 271.2  | 233.4  | 195.5  | 164.0  | 157.7  | 132.5  | 107.2  | 94.6   | 88.3   | 88.3   | 88.3   |
| 50°   | 258.6  | 208.1  | 170.3  | 138.8  | 119.8  | 107.2  | 82.0   | 69.4   | 63.1   | 63.1   | 63.1   |
| 52.5° | 239.7  | 195.5  | 151.4  | 119.8  | 94.6   | 82.0   | 63.1   | 50.5   | 44.2   | 44.2   | 44.2   |
| 55°   | 214.4  | 176.6  | 132.5  | 100.9  | 82.0   | 63.1   | 44.2   | 31.5   | 25.2   | 25.2   | 25.2   |
| 57.5° | 201.8  | 157.7  | 113.5  | 88.3   | 63.1   | 44.2   | 25.2   | 18.9   | 18.9   | 12.6   | 18.9   |
| 60°   | 182.9  | 138.8  | 94.6   | 69.4   | 50.5   | 31.5   | 18.9   | 6.3    | 6.3    | 6.3    | 6.3    |
| 62.5° | 157.7  | 119.8  | 82.0   | 56.8   | 37.8   | 18.9   | 6.3    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 132.5  | 94.6   | 63.1   | 44.2   | 25.2   | 6.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 113.5  | 82.0   | 50.5   | 31.5   | 18.9   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 100.9  | 69.4   | 37.8   | 25.2   | 6.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 82.0   | 56.8   | 31.5   | 12.6   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 69.4   | 44.2   | 18.9   | 6.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 56.8   | 31.5   | 12.6   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 44.2   | 25.2   | 6.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 37.8   | 18.9   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 25.2   | 6.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 18.9   | 6.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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    |



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**CANDELA DISTRIBUTION (continued):**

|       | 285°   | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°    | 358°    | 360°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 8880.5 | 8880.5 | 8880.5 | 8880.5 | 8880.5 | 8880.5 | 8880.5 | 8880.5  | 8880.5  | 8880.5  |
| 2.5°  | 8010.1 | 7972.3 | 8161.5 | 8470.6 | 8628.2 | 8937.3 | 9013.0 | 9208.5  | 9158.0  | 9227.4  |
| 5°    | 6628.9 | 6704.5 | 6982.1 | 7436.2 | 7600.2 | 8048.0 | 8470.6 | 8893.1  | 9164.3  | 9296.8  |
| 7.5°  | 4919.6 | 5171.9 | 5512.5 | 5928.8 | 6351.3 | 6937.9 | 7656.9 | 8148.9  | 8413.8  | 8697.6  |
| 10°   | 3664.5 | 3935.7 | 4326.7 | 4736.7 | 5424.2 | 6080.1 | 6799.2 | 7410.9  | 7638.0  | 7902.9  |
| 12.5° | 2882.4 | 3305.0 | 3759.1 | 4200.6 | 4610.6 | 5235.0 | 6124.3 | 7013.6  | 7259.6  | 7461.4  |
| 15°   | 2005.7 | 2522.9 | 3172.5 | 3746.5 | 4320.4 | 4862.8 | 5783.7 | 6862.2  | 7196.5  | 7537.1  |
| 17.5° | 1110.1 | 1520.0 | 2264.3 | 3071.6 | 3916.8 | 4749.3 | 5897.2 | 7139.7  | 7644.3  | 7884.0  |
| 20°   | 643.3  | 807.3  | 1337.1 | 2295.8 | 3412.2 | 4503.3 | 5954.0 | 7663.2  | 8331.8  | 8451.6  |
| 22.5° | 529.8  | 586.6  | 756.9  | 1438.0 | 2794.1 | 4345.7 | 6244.1 | 8394.9  | 9076.0  | 9359.9  |
| 25°   | 454.1  | 498.3  | 586.6  | 864.1  | 2112.9 | 4011.4 | 6427.0 | 9309.4  | 9940.1  | 10249.2 |
| 27.5° | 403.7  | 447.8  | 517.2  | 637.0  | 1438.0 | 3550.9 | 6729.8 | 10135.7 | 10766.4 | 11189.0 |
| 30°   | 353.2  | 391.0  | 460.4  | 542.4  | 996.5  | 3033.8 | 6988.4 | 10741.1 | 11630.5 | 11762.9 |
| 32.5° | 315.4  | 346.9  | 397.4  | 466.7  | 737.9  | 2302.1 | 7196.5 | 11365.6 | 12116.1 | 12406.2 |
| 35°   | 271.2  | 309.1  | 340.6  | 397.4  | 561.3  | 1734.5 | 7070.4 | 11851.2 | 12828.8 | 13175.7 |
| 37.5° | 239.7  | 264.9  | 296.4  | 334.3  | 473.0  | 1356.0 | 6811.8 | 12431.5 | 13440.6 | 13762.3 |
| 40°   | 201.8  | 220.8  | 258.6  | 296.4  | 428.9  | 1047.0 | 6515.3 | 13131.6 | 14298.4 | 14866.0 |
| 42.5° | 170.3  | 189.2  | 214.4  | 277.5  | 353.2  | 775.8  | 5916.1 | 13674.0 | 14992.2 | 15471.5 |
| 45°   | 132.5  | 157.7  | 195.5  | 277.5  | 283.8  | 574.0  | 5298.0 | 14077.6 | 15383.2 | 15622.9 |
| 47.5° | 100.9  | 126.1  | 189.2  | 239.7  | 227.1  | 397.4  | 4566.4 | 14538.1 | 15786.9 | 16007.7 |
| 50°   | 75.7   | 100.9  | 214.4  | 208.1  | 189.2  | 302.7  | 4106.0 | 14859.7 | 15812.1 | 15932.0 |
| 52.5° | 50.5   | 75.7   | 176.6  | 157.7  | 157.7  | 264.9  | 3979.8 | 14847.1 | 15875.2 | 15616.6 |
| 55°   | 37.8   | 56.8   | 100.9  | 113.5  | 138.8  | 233.4  | 3866.3 | 15320.2 | 15894.1 | 16077.0 |
| 57.5° | 25.2   | 44.2   | 69.4   | 88.3   | 119.8  | 201.8  | 3632.9 | 15887.8 | 16480.7 | 16575.3 |
| 60°   | 12.6   | 31.5   | 50.5   | 69.4   | 100.9  | 176.6  | 3305.0 | 16304.1 | 17193.4 | 17294.3 |
| 62.5° | 6.3    | 18.9   | 37.8   | 56.8   | 82.0   | 138.8  | 2964.4 | 15641.8 | 16884.3 | 17061.0 |
| 65°   | 0.0    | 12.6   | 25.2   | 37.8   | 50.5   | 100.9  | 2409.3 | 14121.8 | 15660.8 | 16310.4 |
| 67.5° | 0.0    | 0.0    | 12.6   | 25.2   | 31.5   | 75.7   | 1816.5 | 12847.7 | 14531.8 | 15414.8 |
| 70°   | 0.0    | 0.0    | 6.3    | 6.3    | 18.9   | 56.8   | 1160.5 | 10640.2 | 12973.9 | 13459.5 |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 6.3    | 37.8   | 674.9  | 7902.9  | 10167.2 | 11069.1 |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 31.5   | 340.6  | 5083.6  | 7076.7  | 8287.6  |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 25.2   | 182.9  | 3279.7  | 5216.0  | 6231.5  |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 6.3    | 107.2  | 1904.8  | 3336.5  | 4042.9  |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 44.2   | 933.5   | 1993.1  | 2333.7  |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 12.6   | 498.3   | 996.5   | 1311.9  |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 18.9    | 69.4    | 132.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     |

(END OF REPORT)