

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: AMETRIX

Report Number: P508455

Luminaire Tested: **ASYX-X-S3-X-U-W-L27-1-UNV-X-X-X-STD**

Issue Date: 4/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P508455  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-840-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/5/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: AMETRIX  
Catalog Number: ASYX-X-S3-X-U-W-L27-1-UNV-X-X-X-STD  
Description: AMETRIX ASYMMETRIC INDIRECT LED LUMINAIRE.  
(3) AF LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

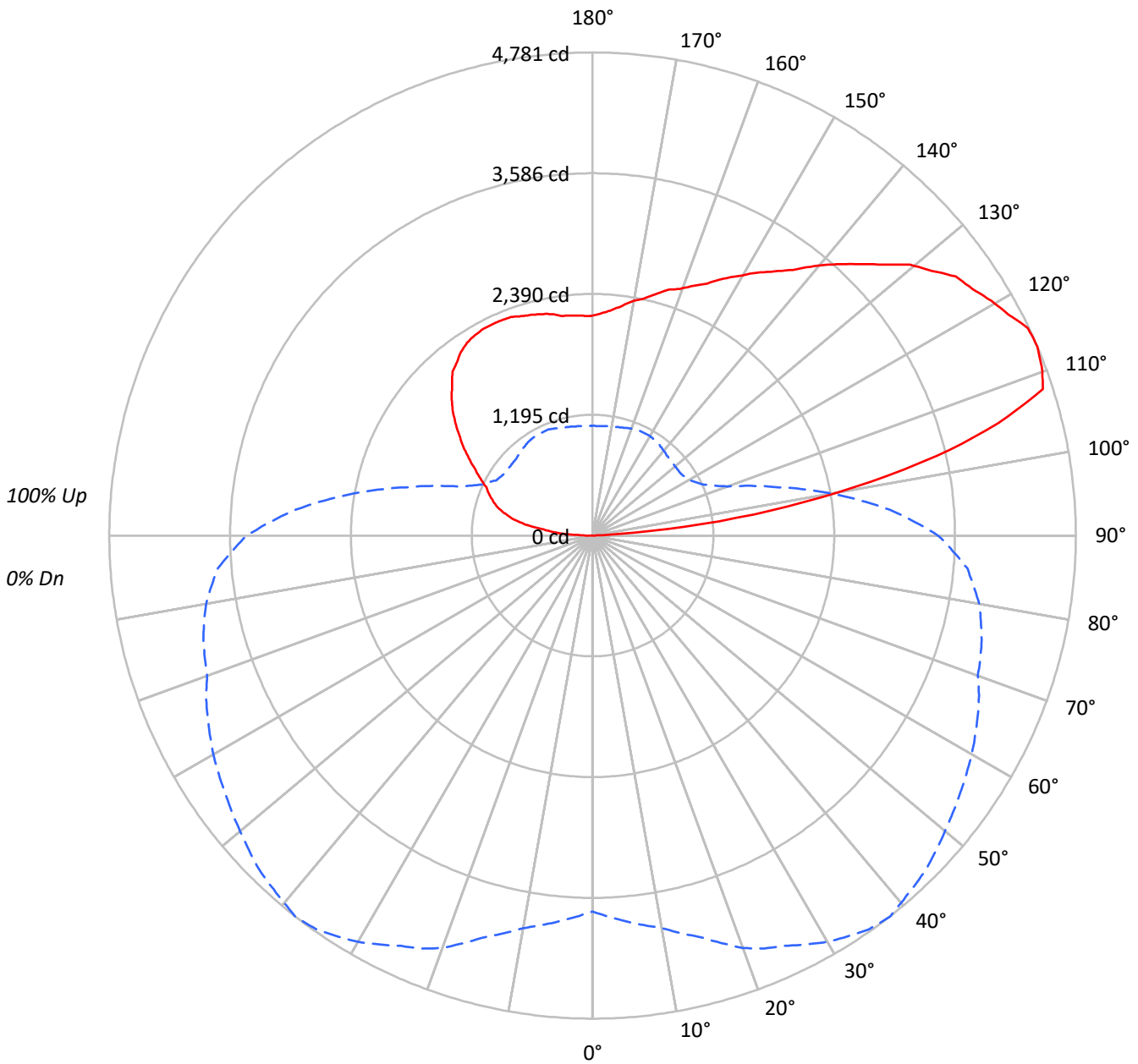
Lumens per Lamp: N/A  
Luminaire Lumens: 14373.2 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
N/A  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
CIE Type: Indirect

Input Watts (W): 160.2  
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: 24 FT



TEST NUMBER: P508455  
CATALOG NUMBER: ASYX-X-S3-X-U-W-L27-1-UNV-X-X-X-STD

### Luminous Intensity Polar Plot



— Vertical Plane Through 38° Lateral      - - - Horizontal Cone Through 112.5° Vertical



TEST NUMBER: P508455

CATALOG NUMBER: ASYX-X-S3-X-U-W-L27-1-UNV-X-X-X-STD

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

|     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|----|
| RF  | 20 |    |    |    |    |    |    |    |    | 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 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| RCR |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 0   | 95 | 95 | 95 | 95 | 81 | 81 | 81 | 81 | 56 | 56 | 56 | 32 | 32 | 32 | 10 | 10 | 10 | 0  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 1   | 87 | 83 | 79 | 76 | 74 | 71 | 68 | 65 | 48 | 47 | 45 | 28 | 27 | 26 | 9  | 9  | 8  | 0  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 2   | 79 | 72 | 66 | 62 | 67 | 62 | 57 | 53 | 42 | 40 | 37 | 24 | 23 | 22 | 8  | 7  | 7  | 0  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 3   | 72 | 63 | 57 | 51 | 61 | 54 | 49 | 44 | 37 | 34 | 31 | 21 | 20 | 18 | 7  | 6  | 6  | 0  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 4   | 65 | 56 | 48 | 43 | 56 | 48 | 42 | 37 | 33 | 29 | 26 | 19 | 17 | 16 | 6  | 6  | 5  | 0  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 5   | 60 | 49 | 42 | 36 | 51 | 42 | 36 | 32 | 29 | 25 | 22 | 17 | 15 | 13 | 5  | 5  | 4  | 0  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 6   | 55 | 44 | 36 | 31 | 47 | 38 | 32 | 27 | 26 | 22 | 19 | 15 | 13 | 11 | 5  | 4  | 4  | 0  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 7   | 50 | 39 | 32 | 27 | 43 | 34 | 28 | 23 | 23 | 19 | 17 | 14 | 11 | 10 | 4  | 4  | 3  | 0  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 8   | 47 | 35 | 28 | 23 | 40 | 30 | 24 | 20 | 21 | 17 | 14 | 12 | 10 | 9  | 4  | 3  | 3  | 0  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 9   | 43 | 32 | 25 | 20 | 37 | 27 | 22 | 18 | 19 | 15 | 13 | 11 | 9  | 8  | 4  | 3  | 3  | 0  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |
| 10  | 40 | 29 | 22 | 18 | 34 | 25 | 19 | 16 | 17 | 14 | 11 | 10 | 8  | 7  | 3  | 3  | 2  | 0  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |    |

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

|      | 0°     | 90°    | 180°  |
|------|--------|--------|-------|
| 95°  | 44477  | 49516  | 62953 |
| 100° | 121321 | 93939  | 57292 |
| 105° | 121533 | 100334 | 52568 |
| 110° | 135382 | 123406 | 44274 |
| 115° | 142796 | 123758 | 36866 |
| 120° | 133863 | 108994 | 34235 |
| 125° | 116947 | 93226  | 34052 |
| 130° | 100599 | 77385  | 35278 |
| 135° | 85345  | 66415  | 35897 |
| 140° | 71619  | 56531  | 37050 |
| 145° | 60545  | 49740  | 37149 |
| 150° | 51524  | 44092  | 37249 |
| 155° | 45119  | 39469  | 36240 |
| 160° | 40635  | 35965  | 35264 |
| 165° | 37260  | 33851  | 33776 |
| 170° | 34613  | 32236  | 32385 |
| 175° | 32382  | 31428  | 31281 |



TEST NUMBER: P508455

CATALOG NUMBER: ASYX-X-S3-X-U-W-L27-1-UNV-X-X-X-STD

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 0.0     | 0.0       |
| 10°-20°   | 0.0     | 0.0       |
| 20°-30°   | 0.0     | 0.0       |
| 30°-40°   | 0.0     | 0.0       |
| 40°-50°   | 0.0     | 0.0       |
| 50°-60°   | 0.0     | 0.0       |
| 60°-70°   | 0.0     | 0.0       |
| 70°-80°   | 0.0     | 0.0       |
| 80°-90°   | 0.0     | 0.0       |
| 90°-100°  | 588.3   | 4.1       |
| 100°-110° | 2129.4  | 14.8      |
| 110°-120° | 2870.4  | 20.0      |
| 120°-130° | 2732.0  | 19.0      |
| 130°-140° | 2276.2  | 15.8      |
| 140°-150° | 1724.4  | 12.0      |
| 150°-160° | 1173.5  | 8.2       |
| 160°-170° | 666.8   | 4.6       |
| 170°-180° | 212.1   | 1.5       |
| 0°-30°    | 0.0     | 0.0       |
| 0°-40°    | 0.0     | 0.0       |
| 0°-60°    | 0.0     | 0.0       |
| 0°-90°    | 0.0     | 0.0       |
| 90°-120°  | 5588.1  | 38.9      |
| 90°-150°  | 12320.8 | 85.7      |
| 90°-180°  | 14373.0 | 100.0     |
| 0°-180°   | 14373.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|------|------|------|------|------|------|------|
| 90°  | 0    | 0    | 0    | 0    | 0    |      |
| 95°  | 270  | 882  | 301  | 301  | 382  | 480  |
| 105° | 2192 | 4475 | 1809 | 800  | 948  | 2378 |
| 115° | 4205 | 4577 | 3644 | 1157 | 1086 | 4054 |
| 125° | 4674 | 4184 | 3726 | 1554 | 1361 | 4171 |
| 135° | 4205 | 3604 | 3272 | 1972 | 1769 | 3258 |
| 145° | 3456 | 3073 | 2839 | 2243 | 2120 | 2186 |
| 155° | 2849 | 2701 | 2492 | 2324 | 2288 | 1331 |
| 165° | 2508 | 2431 | 2278 | 2263 | 2273 | 716  |
| 175° | 2248 | 2217 | 2182 | 2176 | 2171 | 219  |
| 180° | 2171 | 2171 | 2171 | 2171 | 2171 |      |



TEST NUMBER: P508455

CATALOG NUMBER: ASYX-X-S3-X-U-W-L27-1-UNV-X-X-X-STD

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 22.5°  | 25°    | 30°    | 35°    | 38°    | 40°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 40.8   | 40.8   | 40.8   | 45.9   | 51.0   | 56.1   | 56.1   | 71.4   | 91.7   | 96.8   | 112.1  |
| 95°    | 270.1  | 310.9  | 463.8  | 535.2  | 540.3  | 555.6  | 555.6  | 703.4  | 876.7  | 917.4  | 958.2  |
| 97.5°  | 723.8  | 774.7  | 937.8  | 1065.2 | 1248.7 | 1299.7 | 1360.9 | 1483.2 | 1671.8 | 1783.9 | 1840.0 |
| 100°   | 1467.9 | 1478.1 | 1564.7 | 1682.0 | 1880.7 | 1992.9 | 2130.5 | 2466.9 | 2635.1 | 2635.1 | 2573.9 |
| 102.5° | 1860.4 | 1870.6 | 1947.0 | 2059.1 | 2293.6 | 2461.8 | 2619.8 | 3027.5 | 3369.0 | 3496.5 | 3547.4 |
| 105°   | 2191.7 | 2227.3 | 2308.9 | 2466.9 | 2752.3 | 2940.9 | 3088.7 | 3552.5 | 3950.1 | 4169.2 | 4337.4 |
| 107.5° | 2614.7 | 2670.8 | 2808.4 | 2991.9 | 3333.4 | 3552.5 | 3741.1 | 4118.3 | 4464.9 | 4684.0 | 4678.9 |
| 110°   | 3226.3 | 3256.9 | 3399.6 | 3639.2 | 3934.8 | 4108.1 | 4225.3 | 4490.3 | 4724.8 | 4745.2 | 4755.4 |
| 112.5° | 3720.7 | 3832.9 | 3945.0 | 4113.2 | 4342.5 | 4424.1 | 4480.2 | 4643.3 | 4760.5 | 4780.9 | 4745.2 |
| 115°   | 4204.9 | 4245.7 | 4301.8 | 4413.9 | 4520.9 | 4602.5 | 4612.7 | 4699.3 | 4724.8 | 4770.7 | 4689.1 |
| 117.5° | 4505.6 | 4526.0 | 4531.1 | 4571.9 | 4628.0 | 4673.8 | 4663.6 | 4689.1 | 4719.7 | 4658.5 | 4617.8 |
| 120°   | 4663.6 | 4684.0 | 4648.4 | 4663.6 | 4678.9 | 4689.1 | 4668.7 | 4678.9 | 4622.9 | 4577.0 | 4531.1 |
| 122.5° | 4724.8 | 4719.7 | 4684.0 | 4684.0 | 4663.6 | 4658.5 | 4617.8 | 4582.1 | 4541.3 | 4480.2 | 4424.1 |
| 125°   | 4673.8 | 4694.2 | 4648.4 | 4612.7 | 4566.8 | 4643.3 | 4541.3 | 4505.6 | 4434.3 | 4413.9 | 4306.9 |
| 127.5° | 4607.6 | 4648.4 | 4571.9 | 4536.2 | 4490.3 | 4475.1 | 4413.9 | 4362.9 | 4312.0 | 4255.9 | 4184.5 |
| 130°   | 4505.6 | 4520.9 | 4449.6 | 4413.9 | 4368.0 | 4322.2 | 4312.0 | 4199.8 | 4164.1 | 4128.5 | 4031.6 |
| 132.5° | 4403.7 | 4378.2 | 4306.9 | 4261.0 | 4204.9 | 4179.4 | 4154.0 | 4057.1 | 4006.1 | 3929.7 | 3878.7 |
| 135°   | 4204.9 | 4210.0 | 4143.8 | 4092.8 | 4016.3 | 4016.3 | 3970.5 | 3899.1 | 3832.9 | 3766.6 | 3700.3 |
| 137.5° | 4016.3 | 4052.0 | 3955.2 | 3909.3 | 3868.5 | 3837.9 | 3776.8 | 3710.5 | 3639.2 | 3613.7 | 3562.7 |
| 140°   | 3822.7 | 3827.8 | 3751.3 | 3710.5 | 3679.9 | 3623.9 | 3588.2 | 3527.0 | 3501.6 | 3455.7 | 3384.3 |
| 142.5° | 3654.5 | 3634.1 | 3572.9 | 3527.0 | 3496.5 | 3455.7 | 3435.3 | 3374.1 | 3333.4 | 3292.6 | 3267.1 |
| 145°   | 3455.7 | 3450.6 | 3379.2 | 3348.6 | 3323.2 | 3307.9 | 3272.2 | 3226.3 | 3205.9 | 3170.3 | 3170.3 |
| 147.5° | 3287.5 | 3262.0 | 3221.2 | 3185.5 | 3155.0 | 3139.7 | 3139.7 | 3058.1 | 3073.4 | 3068.3 | 3022.4 |
| 150°   | 3109.1 | 3104.0 | 3047.9 | 3032.6 | 3007.2 | 3017.4 | 3007.2 | 2971.5 | 2971.5 | 2951.1 | 2920.5 |
| 152.5° | 2966.4 | 2966.4 | 2920.5 | 2910.3 | 2900.1 | 2895.0 | 2874.6 | 2859.3 | 2859.3 | 2854.3 | 2818.6 |
| 155°   | 2849.2 | 2849.2 | 2813.5 | 2808.4 | 2793.1 | 2788.0 | 2777.8 | 2762.5 | 2752.3 | 2742.1 | 2711.5 |
| 157.5° | 2752.3 | 2747.2 | 2706.4 | 2711.5 | 2696.2 | 2696.2 | 2691.2 | 2660.6 | 2670.8 | 2665.7 | 2645.3 |
| 160°   | 2660.6 | 2655.5 | 2614.7 | 2630.0 | 2619.8 | 2619.8 | 2619.8 | 2599.4 | 2589.2 | 2589.2 | 2543.3 |
| 162.5° | 2579.0 | 2589.2 | 2548.4 | 2543.3 | 2548.4 | 2548.4 | 2528.1 | 2512.8 | 2528.1 | 2543.3 | 2497.5 |
| 165°   | 2507.7 | 2497.5 | 2482.2 | 2477.1 | 2466.9 | 2456.7 | 2466.9 | 2456.7 | 2446.5 | 2466.9 | 2451.6 |
| 167.5° | 2436.3 | 2446.5 | 2415.9 | 2405.7 | 2405.7 | 2426.1 | 2410.8 | 2390.4 | 2400.6 | 2395.5 | 2365.0 |
| 170°   | 2375.1 | 2385.3 | 2344.6 | 2344.6 | 2344.6 | 2344.6 | 2329.3 | 2314.0 | 2339.5 | 2349.7 | 2314.0 |
| 172.5° | 2314.0 | 2329.3 | 2293.6 | 2288.5 | 2283.4 | 2293.6 | 2283.4 | 2268.1 | 2298.7 | 2283.4 | 2268.1 |
| 175°   | 2247.7 | 2273.2 | 2237.5 | 2232.4 | 2242.6 | 2242.6 | 2232.4 | 2222.2 | 2242.6 | 2232.4 | 2222.2 |
| 177.5° | 2217.1 | 2217.1 | 2181.5 | 2186.6 | 2186.6 | 2181.5 | 2196.8 | 2191.7 | 2196.8 | 2196.8 | 2217.1 |
| 180°   | 2171.3 | 2171.3 | 2171.3 | 2171.3 | 2171.3 | 2171.3 | 2171.3 | 2171.3 | 2171.3 | 2171.3 | 2171.3 |



TEST NUMBER: P508455

CATALOG NUMBER: ASYX-X-S3-X-U-W-L27-1-UNV-X-X-X-STD

**CANDELA DISTRIBUTION (continued):**

|        | 45°    | 50°    | 55°    | 60°    | 65°    | 67.5°  | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 117.2  | 137.6  | 147.8  | 81.6   | 81.6   | 91.7   | 86.6   | 76.5   | 66.3   | 61.2   | 61.2   |
| 95°    | 881.8  | 835.9  | 861.4  | 774.7  | 672.8  | 591.2  | 586.1  | 591.2  | 407.8  | 305.8  | 300.7  |
| 97.5°  | 1896.0 | 1875.7 | 1717.6 | 1473.0 | 1401.6 | 1406.7 | 1320.1 | 1095.8 | 917.4  | 784.9  | 677.9  |
| 100°   | 2466.9 | 2400.6 | 2329.3 | 2380.2 | 2237.5 | 2125.4 | 1967.4 | 1768.6 | 1559.6 | 1381.3 | 1136.6 |
| 102.5° | 3516.8 | 3414.9 | 3155.0 | 2869.5 | 2584.1 | 2482.2 | 2365.0 | 2140.7 | 1921.5 | 1712.6 | 1462.8 |
| 105°   | 4475.1 | 4301.8 | 3863.4 | 3455.7 | 3068.3 | 2951.1 | 2798.2 | 2548.4 | 2293.6 | 2084.6 | 1809.4 |
| 107.5° | 4704.4 | 4577.0 | 4332.3 | 4057.1 | 3720.7 | 3527.0 | 3384.3 | 3114.2 | 2874.6 | 2589.2 | 2273.2 |
| 110°   | 4724.8 | 4597.4 | 4444.5 | 4255.9 | 4092.8 | 3980.7 | 3888.9 | 3685.0 | 3511.7 | 3262.0 | 2940.9 |
| 112.5° | 4668.7 | 4551.5 | 4439.4 | 4332.3 | 4204.9 | 4138.7 | 4057.1 | 3985.8 | 3883.8 | 3720.7 | 3420.0 |
| 115°   | 4577.0 | 4475.1 | 4373.1 | 4281.4 | 4220.2 | 4189.6 | 4148.9 | 4092.8 | 4036.7 | 3914.4 | 3644.3 |
| 117.5° | 4490.3 | 4373.1 | 4281.4 | 4250.8 | 4194.7 | 4148.9 | 4143.8 | 4133.6 | 4097.9 | 4036.7 | 3776.8 |
| 120°   | 4403.7 | 4312.0 | 4220.2 | 4154.0 | 4133.6 | 4128.5 | 4128.5 | 4097.9 | 4108.1 | 4057.1 | 3797.2 |
| 122.5° | 4266.1 | 4194.7 | 4118.3 | 4087.7 | 4001.0 | 4021.4 | 4031.6 | 4011.2 | 4052.0 | 4016.3 | 3771.7 |
| 125°   | 4184.5 | 4113.2 | 4016.3 | 3970.5 | 3955.2 | 3934.8 | 3955.2 | 3919.5 | 3939.9 | 3914.4 | 3725.8 |
| 127.5° | 4046.9 | 3955.2 | 3904.2 | 3868.5 | 3858.3 | 3787.0 | 3822.7 | 3827.8 | 3832.9 | 3792.1 | 3623.9 |
| 130°   | 3899.1 | 3848.1 | 3730.9 | 3746.2 | 3746.2 | 3720.7 | 3725.8 | 3705.4 | 3695.2 | 3659.6 | 3465.9 |
| 132.5° | 3792.1 | 3725.8 | 3649.4 | 3629.0 | 3608.6 | 3603.5 | 3603.5 | 3567.8 | 3567.8 | 3521.9 | 3394.5 |
| 135°   | 3603.5 | 3557.6 | 3527.0 | 3506.7 | 3501.6 | 3481.2 | 3481.2 | 3445.5 | 3440.4 | 3399.6 | 3272.2 |
| 137.5° | 3471.0 | 3425.1 | 3399.6 | 3384.3 | 3369.0 | 3333.4 | 3353.7 | 3323.2 | 3292.6 | 3282.4 | 3160.1 |
| 140°   | 3338.5 | 3302.8 | 3282.4 | 3256.9 | 3251.8 | 3231.4 | 3231.4 | 3195.7 | 3185.5 | 3139.7 | 3017.4 |
| 142.5° | 3226.3 | 3205.9 | 3165.2 | 3155.0 | 3119.3 | 3124.4 | 3098.9 | 3104.0 | 3063.2 | 3012.3 | 2915.4 |
| 145°   | 3073.4 | 3078.5 | 3058.1 | 3037.7 | 3032.6 | 3002.1 | 3007.2 | 2976.6 | 2951.1 | 2915.4 | 2839.0 |
| 147.5° | 2991.9 | 2991.9 | 2961.3 | 2935.8 | 2915.4 | 2910.3 | 2884.8 | 2889.9 | 2849.2 | 2798.2 | 2747.2 |
| 150°   | 2884.8 | 2874.6 | 2844.1 | 2828.8 | 2813.5 | 2813.5 | 2788.0 | 2772.7 | 2742.1 | 2726.8 | 2660.6 |
| 152.5° | 2808.4 | 2782.9 | 2767.6 | 2737.0 | 2737.0 | 2711.5 | 2691.2 | 2681.0 | 2655.5 | 2624.9 | 2573.9 |
| 155°   | 2701.3 | 2691.2 | 2670.8 | 2665.7 | 2645.3 | 2624.9 | 2589.2 | 2584.1 | 2568.8 | 2538.2 | 2492.4 |
| 157.5° | 2614.7 | 2630.0 | 2599.4 | 2584.1 | 2553.5 | 2548.4 | 2512.8 | 2517.9 | 2487.3 | 2466.9 | 2426.1 |
| 160°   | 2573.9 | 2548.4 | 2517.9 | 2512.8 | 2502.6 | 2461.8 | 2456.7 | 2441.4 | 2421.0 | 2405.7 | 2354.8 |
| 162.5° | 2482.2 | 2477.1 | 2461.8 | 2451.6 | 2415.9 | 2415.9 | 2354.8 | 2380.2 | 2365.0 | 2349.7 | 2324.2 |
| 165°   | 2431.2 | 2436.3 | 2400.6 | 2390.4 | 2380.2 | 2359.9 | 2344.6 | 2329.3 | 2314.0 | 2303.8 | 2278.3 |
| 167.5° | 2365.0 | 2354.8 | 2344.6 | 2324.2 | 2329.3 | 2314.0 | 2298.7 | 2288.5 | 2278.3 | 2268.1 | 2247.7 |
| 170°   | 2308.9 | 2303.8 | 2293.6 | 2278.3 | 2283.4 | 2268.1 | 2268.1 | 2247.7 | 2242.6 | 2237.5 | 2212.0 |
| 172.5° | 2263.0 | 2263.0 | 2252.8 | 2252.8 | 2247.7 | 2232.4 | 2222.2 | 2212.0 | 2212.0 | 2201.9 | 2196.8 |
| 175°   | 2217.1 | 2222.2 | 2217.1 | 2212.0 | 2212.0 | 2201.9 | 2201.9 | 2206.9 | 2196.8 | 2196.8 | 2181.5 |
| 177.5° | 2181.5 | 2181.5 | 2181.5 | 2181.5 | 2181.5 | 2181.5 | 2181.5 | 2176.4 | 2181.5 | 2176.4 | 2161.1 |
| 180°   | 2171.3 | 2171.3 | 2171.3 | 2171.3 | 2171.3 | 2171.3 | 2171.3 | 2171.3 | 2171.3 | 2171.3 | 2171.3 |



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**CANDELA DISTRIBUTION (continued):**

|        | 95°    | 100°   | 105°   | 110°   | 112.5° | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 66.3   | 71.4   | 76.5   | 81.6   | 96.8   | 91.7   | 107.0  | 112.1  | 122.3  | 142.7  | 147.8  |
| 95°    | 270.1  | 270.1  | 265.0  | 265.0  | 254.8  | 254.8  | 249.7  | 244.7  | 270.1  | 300.7  | 341.5  |
| 97.5°  | 555.6  | 474.0  | 433.2  | 417.9  | 412.8  | 407.8  | 397.6  | 382.3  | 392.5  | 417.9  | 468.9  |
| 100°   | 937.8  | 774.7  | 642.2  | 565.8  | 550.5  | 525.0  | 514.8  | 509.7  | 509.7  | 560.7  | 642.2  |
| 102.5° | 1213.1 | 973.5  | 800.2  | 688.1  | 657.5  | 632.0  | 616.7  | 616.7  | 626.9  | 688.1  | 779.8  |
| 105°   | 1534.2 | 1228.3 | 963.3  | 815.5  | 790.0  | 754.3  | 728.9  | 734.0  | 744.1  | 800.2  | 881.8  |
| 107.5° | 1921.5 | 1554.5 | 1238.5 | 1009.2 | 953.1  | 902.1  | 861.4  | 861.4  | 866.5  | 902.1  | 963.3  |
| 110°   | 2502.6 | 2028.6 | 1554.5 | 1213.1 | 1121.3 | 1065.2 | 968.4  | 968.4  | 963.3  | 988.8  | 1029.6 |
| 112.5° | 2946.0 | 2395.5 | 1855.3 | 1416.9 | 1289.5 | 1197.8 | 1095.8 | 1065.2 | 1065.2 | 1070.3 | 1095.8 |
| 115°   | 3211.0 | 2640.2 | 2064.2 | 1605.5 | 1437.3 | 1325.2 | 1197.8 | 1162.1 | 1146.8 | 1157.0 | 1146.8 |
| 117.5° | 3363.9 | 2788.0 | 2242.6 | 1743.1 | 1585.1 | 1457.7 | 1299.7 | 1253.8 | 1228.3 | 1248.7 | 1243.6 |
| 120°   | 3440.4 | 2920.5 | 2385.3 | 1885.8 | 1722.7 | 1574.9 | 1406.7 | 1360.9 | 1340.5 | 1340.5 | 1345.6 |
| 122.5° | 3450.6 | 2991.9 | 2466.9 | 2013.3 | 1850.2 | 1707.5 | 1534.2 | 1467.9 | 1447.5 | 1452.6 | 1452.6 |
| 125°   | 3414.9 | 2981.7 | 2543.3 | 2115.2 | 1957.2 | 1814.5 | 1636.1 | 1580.0 | 1534.2 | 1554.5 | 1559.6 |
| 127.5° | 3358.8 | 2956.2 | 2589.2 | 2196.8 | 2054.0 | 1926.6 | 1763.5 | 1697.3 | 1656.5 | 1666.7 | 1661.6 |
| 130°   | 3277.3 | 2925.6 | 2630.0 | 2268.1 | 2145.8 | 2018.4 | 1875.7 | 1814.5 | 1758.4 | 1763.5 | 1768.6 |
| 132.5° | 3195.7 | 2915.4 | 2650.4 | 2324.2 | 2222.2 | 2115.2 | 1972.5 | 1911.3 | 1860.4 | 1865.5 | 1865.5 |
| 135°   | 3109.1 | 2889.9 | 2624.9 | 2359.9 | 2308.9 | 2196.8 | 2079.5 | 2013.3 | 1972.5 | 1972.5 | 1962.3 |
| 137.5° | 3017.4 | 2828.8 | 2645.3 | 2431.2 | 2359.9 | 2268.1 | 2150.9 | 2099.9 | 2059.1 | 2054.0 | 2048.9 |
| 140°   | 2935.8 | 2762.5 | 2619.8 | 2446.5 | 2395.5 | 2324.2 | 2227.3 | 2186.6 | 2130.5 | 2120.3 | 2150.9 |
| 142.5° | 2854.3 | 2731.9 | 2645.3 | 2482.2 | 2431.2 | 2370.0 | 2298.7 | 2242.6 | 2201.9 | 2191.7 | 2186.6 |
| 145°   | 2772.7 | 2701.3 | 2604.5 | 2472.0 | 2451.6 | 2390.4 | 2314.0 | 2298.7 | 2252.8 | 2242.6 | 2242.6 |
| 147.5° | 2691.2 | 2630.0 | 2558.6 | 2466.9 | 2466.9 | 2415.9 | 2380.2 | 2334.4 | 2298.7 | 2278.3 | 2278.3 |
| 150°   | 2619.8 | 2568.8 | 2533.1 | 2461.8 | 2456.7 | 2415.9 | 2385.3 | 2365.0 | 2324.2 | 2314.0 | 2308.9 |
| 152.5° | 2553.5 | 2507.7 | 2477.1 | 2431.2 | 2426.1 | 2370.0 | 2380.2 | 2359.9 | 2319.1 | 2308.9 | 2308.9 |
| 155°   | 2472.0 | 2466.9 | 2431.2 | 2385.3 | 2405.7 | 2375.1 | 2349.7 | 2375.1 | 2314.0 | 2324.2 | 2324.2 |
| 157.5° | 2415.9 | 2410.8 | 2405.7 | 2359.9 | 2365.0 | 2349.7 | 2334.4 | 2354.8 | 2303.8 | 2308.9 | 2308.9 |
| 160°   | 2354.8 | 2344.6 | 2344.6 | 2303.8 | 2334.4 | 2303.8 | 2308.9 | 2319.1 | 2288.5 | 2293.6 | 2308.9 |
| 162.5° | 2324.2 | 2303.8 | 2303.8 | 2288.5 | 2298.7 | 2288.5 | 2263.0 | 2298.7 | 2293.6 | 2283.4 | 2288.5 |
| 165°   | 2273.2 | 2268.1 | 2278.3 | 2247.7 | 2273.2 | 2242.6 | 2252.8 | 2268.1 | 2257.9 | 2263.0 | 2268.1 |
| 167.5° | 2242.6 | 2237.5 | 2242.6 | 2227.3 | 2242.6 | 2232.4 | 2227.3 | 2247.7 | 2237.5 | 2242.6 | 2247.7 |
| 170°   | 2217.1 | 2217.1 | 2222.2 | 2206.9 | 2222.2 | 2206.9 | 2222.2 | 2222.2 | 2217.1 | 2217.1 | 2227.3 |
| 172.5° | 2206.9 | 2191.7 | 2206.9 | 2181.5 | 2206.9 | 2176.4 | 2186.6 | 2201.9 | 2196.8 | 2191.7 | 2191.7 |
| 175°   | 2186.6 | 2181.5 | 2196.8 | 2171.3 | 2186.6 | 2171.3 | 2171.3 | 2186.6 | 2181.5 | 2176.4 | 2196.8 |
| 177.5° | 2186.6 | 2171.3 | 2186.6 | 2161.1 | 2176.4 | 2166.2 | 2166.2 | 2181.5 | 2171.3 | 2171.3 | 2186.6 |
| 180°   | 2171.3 | 2171.3 | 2171.3 | 2171.3 | 2171.3 | 2171.3 | 2171.3 | 2171.3 | 2171.3 | 2171.3 | 2171.3 |





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**CANDELA DISTRIBUTION (continued):**

|        | 145°   | 150°   | 155°   | 157.5° | 160°   | 165°   | 170°   | 175°   | 180°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 147.8  | 173.3  | 178.4  | 193.7  | 188.6  | 158.0  | 137.6  | 112.1  | 96.8   |
| 95°    | 387.4  | 428.1  | 468.9  | 463.8  | 479.1  | 448.5  | 417.9  | 402.7  | 382.3  |
| 97.5°  | 519.9  | 586.1  | 626.9  | 626.9  | 632.0  | 611.6  | 601.4  | 611.6  | 586.1  |
| 100°   | 734.0  | 779.8  | 795.1  | 790.0  | 774.7  | 739.0  | 718.7  | 708.5  | 693.2  |
| 102.5° | 861.4  | 912.3  | 927.6  | 917.4  | 907.2  | 892.0  | 871.6  | 861.4  | 856.3  |
| 105°   | 948.0  | 993.9  | 1014.3 | 1009.2 | 1004.1 | 978.6  | 937.8  | 953.1  | 948.0  |
| 107.5° | 1029.6 | 1060.2 | 1080.5 | 1065.2 | 1060.2 | 1044.9 | 1019.4 | 1034.7 | 1014.3 |
| 110°   | 1080.5 | 1106.0 | 1111.1 | 1111.1 | 1100.9 | 1085.6 | 1065.2 | 1070.3 | 1055.1 |
| 112.5° | 1121.3 | 1136.6 | 1136.6 | 1136.6 | 1126.4 | 1106.0 | 1095.8 | 1085.6 | 1085.6 |
| 115°   | 1167.2 | 1157.0 | 1162.1 | 1162.1 | 1151.9 | 1121.3 | 1106.0 | 1095.8 | 1085.6 |
| 117.5° | 1248.7 | 1233.4 | 1218.2 | 1218.2 | 1192.7 | 1172.3 | 1157.0 | 1141.7 | 1126.4 |
| 120°   | 1325.2 | 1315.0 | 1304.8 | 1289.5 | 1274.2 | 1248.7 | 1223.3 | 1202.9 | 1192.7 |
| 122.5° | 1427.1 | 1401.6 | 1386.4 | 1396.5 | 1366.0 | 1340.5 | 1309.9 | 1289.5 | 1264.0 |
| 125°   | 1539.3 | 1518.9 | 1493.4 | 1483.2 | 1457.7 | 1437.3 | 1411.8 | 1391.4 | 1360.9 |
| 127.5° | 1636.1 | 1605.5 | 1595.3 | 1590.2 | 1559.6 | 1534.2 | 1493.4 | 1478.1 | 1478.1 |
| 130°   | 1748.2 | 1712.6 | 1717.6 | 1692.2 | 1666.7 | 1625.9 | 1585.1 | 1585.1 | 1580.0 |
| 132.5° | 1855.3 | 1814.5 | 1809.4 | 1799.2 | 1768.6 | 1738.0 | 1712.6 | 1707.5 | 1687.1 |
| 135°   | 1941.9 | 1911.3 | 1906.2 | 1896.0 | 1870.6 | 1840.0 | 1799.2 | 1809.4 | 1768.6 |
| 137.5° | 2018.4 | 2003.1 | 1998.0 | 1977.6 | 1952.1 | 1947.0 | 1901.1 | 1896.0 | 1870.6 |
| 140°   | 2105.0 | 2074.4 | 2094.8 | 2069.3 | 2038.8 | 2028.6 | 1967.4 | 1977.6 | 1977.6 |
| 142.5° | 2166.2 | 2150.9 | 2145.8 | 2135.6 | 2115.2 | 2094.8 | 2079.5 | 2059.1 | 2069.3 |
| 145°   | 2227.3 | 2217.1 | 2206.9 | 2206.9 | 2176.4 | 2166.2 | 2135.6 | 2135.6 | 2120.3 |
| 147.5° | 2278.3 | 2257.9 | 2257.9 | 2247.7 | 2232.4 | 2222.2 | 2191.7 | 2206.9 | 2181.5 |
| 150°   | 2278.3 | 2288.5 | 2278.3 | 2278.3 | 2283.4 | 2278.3 | 2252.8 | 2242.6 | 2247.7 |
| 152.5° | 2319.1 | 2303.8 | 2293.6 | 2314.0 | 2288.5 | 2303.8 | 2268.1 | 2278.3 | 2268.1 |
| 155°   | 2298.7 | 2308.9 | 2314.0 | 2303.8 | 2303.8 | 2303.8 | 2288.5 | 2314.0 | 2288.5 |
| 157.5° | 2319.1 | 2308.9 | 2314.0 | 2308.9 | 2298.7 | 2314.0 | 2298.7 | 2319.1 | 2303.8 |
| 160°   | 2308.9 | 2298.7 | 2308.9 | 2303.8 | 2293.6 | 2314.0 | 2314.0 | 2329.3 | 2308.9 |
| 162.5° | 2273.2 | 2283.4 | 2308.9 | 2293.6 | 2293.6 | 2329.3 | 2273.2 | 2324.2 | 2293.6 |
| 165°   | 2263.0 | 2268.1 | 2278.3 | 2288.5 | 2268.1 | 2283.4 | 2283.4 | 2288.5 | 2273.2 |
| 167.5° | 2252.8 | 2232.4 | 2252.8 | 2252.8 | 2257.9 | 2257.9 | 2257.9 | 2268.1 | 2247.7 |
| 170°   | 2232.4 | 2191.7 | 2232.4 | 2232.4 | 2222.2 | 2222.2 | 2217.1 | 2247.7 | 2222.2 |
| 172.5° | 2196.8 | 2186.6 | 2201.9 | 2201.9 | 2212.0 | 2206.9 | 2206.9 | 2212.0 | 2196.8 |
| 175°   | 2176.4 | 2181.5 | 2201.9 | 2186.6 | 2181.5 | 2186.6 | 2171.3 | 2186.6 | 2171.3 |
| 177.5° | 2166.2 | 2166.2 | 2171.3 | 2176.4 | 2186.6 | 2176.4 | 2161.1 | 2176.4 | 2161.1 |
| 180°   | 2171.3 | 2171.3 | 2171.3 | 2171.3 | 2171.3 | 2171.3 | 2171.3 | 2171.3 | 2171.3 |

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