

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: STREETWORKS

Report Number: P268350

Luminaire Tested: **GAN-AF-03-LED-U-SL2-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P268350  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-03-LED-U-SL2-7027-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16966.9 lumens  
Efficiency: N/A  
Efficacy: 88.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G3

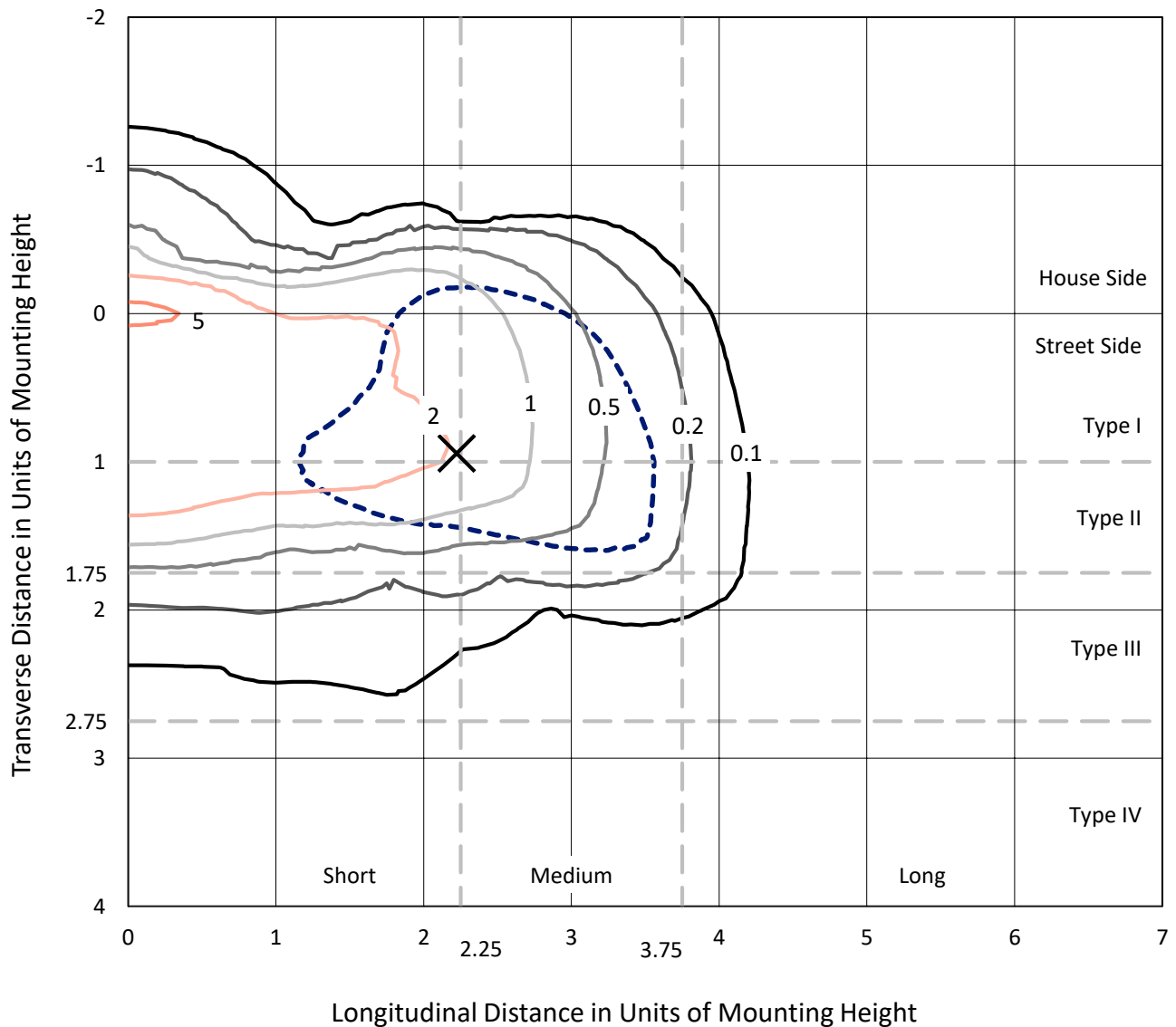
Input Watts (W): 191  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

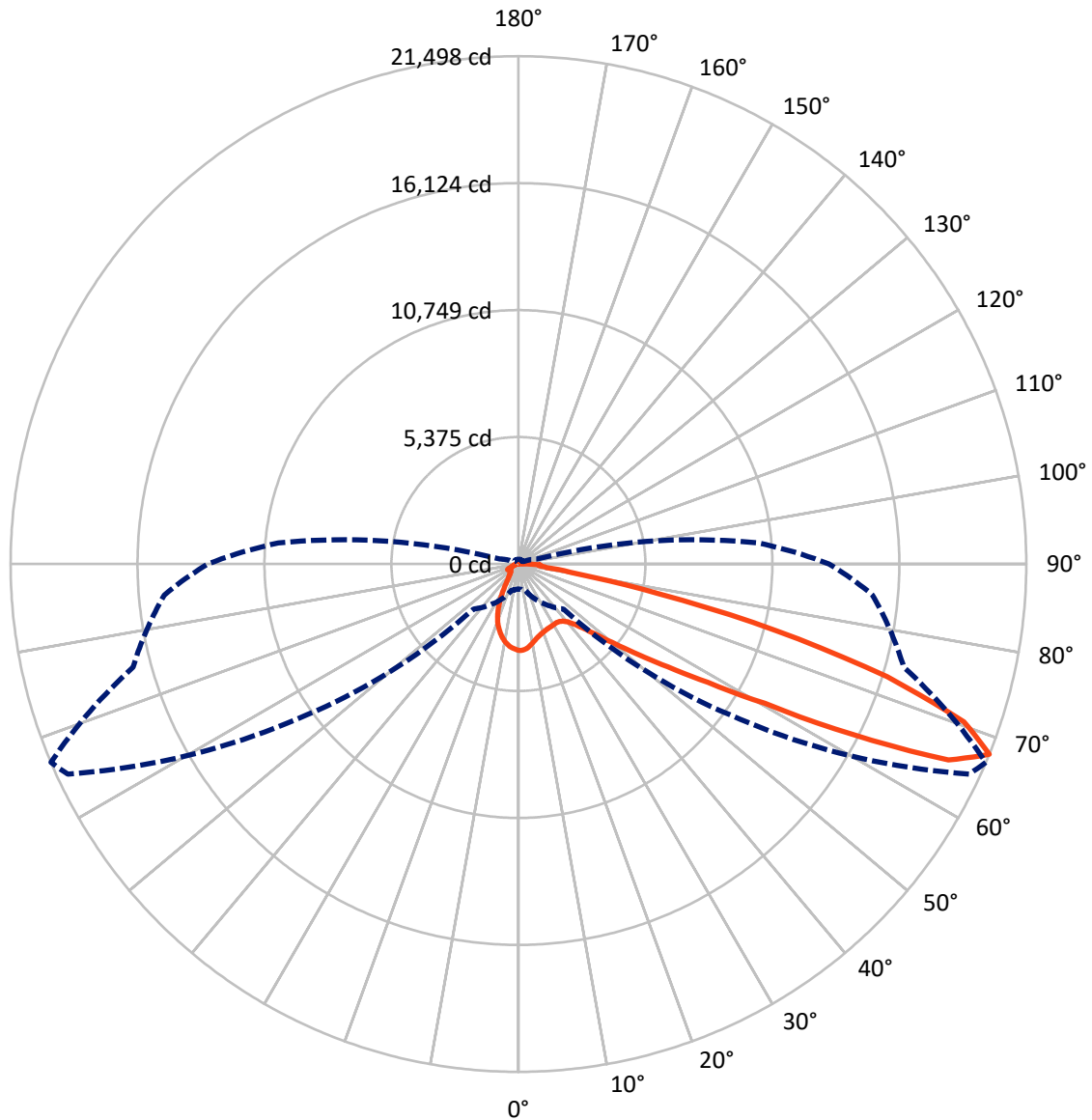


Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2811.2   | 0.0    | 2811.2  |
|                    | % Fixture | 16.6     | 0.0    | 16.6    |
| <b>Street Side</b> | Lumens    | 14155.7  | 0.0    | 14155.7 |
|                    | % Fixture | 83.4     | 0.0    | 83.4    |
| <b>Total</b>       | Lumens    | 16966.9  | 0.0    | 16966.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 312.2   | 1.8       |
| 10°-20°   | 722.4   | 4.3       |
| 20°-30°   | 979.3   | 5.8       |
| 30°-40°   | 1392.2  | 8.2       |
| 40°-50°   | 2329.1  | 13.7      |
| 50°-60°   | 3684.7  | 21.7      |
| 60°-70°   | 4693.9  | 27.7      |
| 70°-80°   | 2458.7  | 14.5      |
| 80°-90°   | 394.3   | 2.3       |
| 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°-90°    | 16966.9 | 100.0     |
| 0°-180°   | 16966.9 | 100.0     |

**Coefficient of Utilization**



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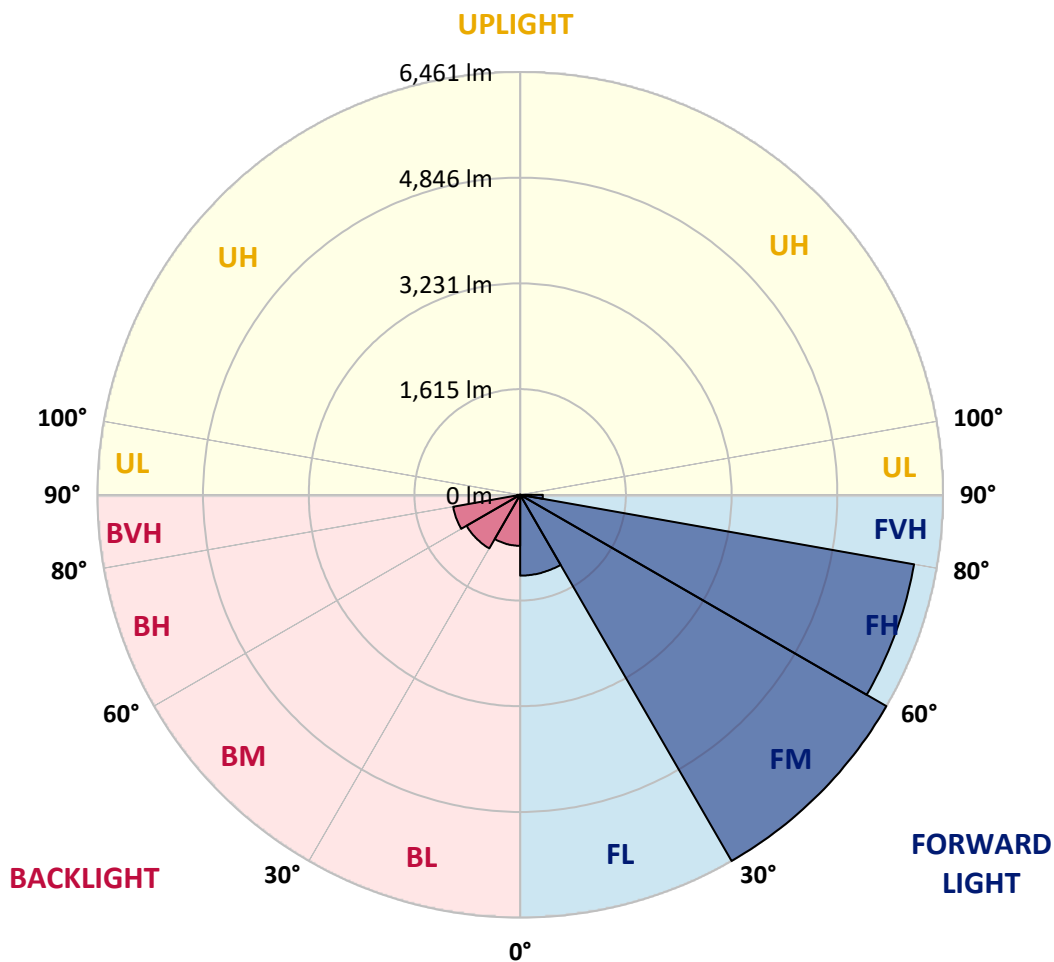
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1234.8 | 7.3       |                         |      |         |
| FM (30°-60°)   | 6461.3 | 38.1      |                         |      |         |
| FH (60°-80°)   | 6112.8 | 36.0      |                         |      | G3/7500 |
| FVH (80°-90°)  | 346.7  | 2.0       |                         |      | G3/500  |
| BL (0°-30°)    | 779.2  | 4.6       | B2/1000                 |      |         |
| BM (30°-60°)   | 944.7  | 5.6       | B1/1000                 |      |         |
| BH (60°-80°)   | 1039.8 | 6.1       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 47.6   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 65°     | 67°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0°    | 3659.8 | 3659.8 | 3659.8 | 3659.8 | 3659.8 | 3659.8 | 3659.8  | 3659.8  | 3659.8  | 3659.8  | 3659.8  |
| 2.5°  | 3509.0 | 3515.0 | 3533.4 | 3545.2 | 3597.8 | 3620.3 | 3636.2  | 3652.1  | 3654.7  | 3662.2  | 3654.7  |
| 5°    | 3141.0 | 3153.5 | 3187.8 | 3226.4 | 3328.4 | 3408.7 | 3493.1  | 3581.1  | 3597.0  | 3653.9  | 3669.8  |
| 7.5°  | 2855.6 | 2852.3 | 2880.8 | 2926.8 | 3031.3 | 3142.6 | 3290.8  | 3465.7  | 3499.8  | 3628.0  | 3689.9  |
| 10°   | 2647.3 | 2644.8 | 2675.0 | 2722.7 | 2822.1 | 2927.5 | 3094.9  | 3334.1  | 3382.7  | 3586.9  | 3709.1  |
| 12.5° | 2493.3 | 2494.2 | 2524.2 | 2577.0 | 2678.2 | 2784.6 | 2954.3  | 3207.0  | 3269.0  | 3539.2  | 3729.1  |
| 15°   | 2391.3 | 2397.9 | 2422.2 | 2478.3 | 2577.0 | 2683.2 | 2849.9  | 3111.6  | 3181.1  | 3501.6  | 3751.7  |
| 17.5° | 2357.0 | 2367.8 | 2376.2 | 2417.2 | 2501.7 | 2608.0 | 2771.1  | 3041.4  | 3115.1  | 3475.6  | 3771.9  |
| 20°   | 2388.8 | 2401.3 | 2385.4 | 2399.6 | 2453.2 | 2547.0 | 2709.2  | 2986.1  | 3061.5  | 3446.3  | 3774.4  |
| 22.5° | 2525.1 | 2536.9 | 2490.0 | 2449.0 | 2445.6 | 2502.6 | 2658.2  | 2942.7  | 3020.6  | 3424.6  | 3775.1  |
| 25°   | 2765.3 | 2772.8 | 2694.1 | 2598.7 | 2505.9 | 2486.7 | 2622.2  | 2912.6  | 2995.4  | 3405.4  | 3759.2  |
| 27.5° | 3059.7 | 3065.6 | 2975.2 | 2834.7 | 2648.2 | 2524.2 | 2609.7  | 2895.0  | 2981.1  | 3388.6  | 3732.5  |
| 30°   | 3418.0 | 3445.4 | 3324.2 | 3146.9 | 2874.8 | 2635.5 | 2634.8  | 2885.7  | 2965.2  | 3360.2  | 3679.7  |
| 32.5° | 3784.4 | 3796.1 | 3712.4 | 3532.6 | 3180.3 | 2831.4 | 2705.1  | 2892.5  | 2961.1  | 3325.9  | 3612.9  |
| 35°   | 4155.9 | 4170.9 | 4116.6 | 3971.8 | 3597.8 | 3118.3 | 2842.2  | 2931.8  | 2987.0  | 3314.1  | 3566.0  |
| 37.5° | 4637.1 | 4657.1 | 4581.7 | 4414.5 | 4105.7 | 3507.4 | 3070.6  | 3030.5  | 3066.5  | 3347.7  | 3551.8  |
| 40°   | 5397.6 | 5388.4 | 5168.3 | 4918.9 | 4661.2 | 4005.3 | 3397.0  | 3197.8  | 3218.7  | 3455.6  | 3595.2  |
| 42.5° | 6282.7 | 6260.2 | 5881.2 | 5489.5 | 5272.1 | 4607.6 | 3828.8  | 3488.2  | 3483.9  | 3668.0  | 3748.4  |
| 45°   | 6989.0 | 6970.5 | 6629.1 | 6146.4 | 5972.3 | 5293.8 | 4386.9  | 3920.7  | 3889.8  | 4005.3  | 4031.2  |
| 47.5° | 7371.3 | 7372.1 | 7175.5 | 6781.5 | 6777.3 | 6165.6 | 5103.9  | 4546.6  | 4493.1  | 4547.4  | 4519.8  |
| 50°   | 7237.5 | 7255.0 | 7234.1 | 7108.6 | 7511.8 | 7308.5 | 6040.2  | 5419.3  | 5311.4  | 5364.9  | 5258.7  |
| 52.5° | 6589.8 | 6612.5 | 6736.2 | 6928.6 | 7820.6 | 8689.9 | 7415.7  | 6503.6  | 6378.1  | 6358.9  | 6241.0  |
| 55°   | 5441.9 | 5469.5 | 5722.2 | 6245.0 | 7563.8 | 9617.9 | 9586.1  | 7886.0  | 7685.9  | 7504.4  | 7454.1  |
| 57.5° | 3751.0 | 3797.0 | 4203.6 | 4980.1 | 6732.8 | 9898.2 | 12170.5 | 9856.4  | 9449.7  | 8815.4  | 8827.1  |
| 60°   | 2114.3 | 2167.9 | 2647.3 | 3352.7 | 5056.2 | 9593.5 | 14136.8 | 12840.8 | 11982.3 | 10350.8 | 10437.8 |
| 62.5° | 1344.6 | 1402.3 | 1766.2 | 2329.3 | 3033.8 | 7953.7 | 14942.5 | 16990.0 | 15899.7 | 12243.4 | 12328.7 |
| 65°   | 1088.6 | 1113.7 | 1285.1 | 1922.7 | 2203.1 | 4791.7 | 14330.9 | 20407.9 | 20001.2 | 14645.5 | 14247.3 |
| 67.5° | 1062.7 | 1071.0 | 1159.6 | 1614.0 | 2112.6 | 2693.3 | 11430.9 | 21047.1 | 21498.1 | 16888.8 | 15046.3 |
| 70°   | 1050.1 | 1079.4 | 1306.9 | 1540.4 | 2023.2 | 2271.6 | 6869.2  | 19295.1 | 20007.1 | 17475.3 | 13982.8 |
| 72.5° | 509.6  | 507.9  | 657.6  | 1393.1 | 2279.2 | 2356.2 | 3529.3  | 15612.0 | 16326.4 | 15140.0 | 11490.4 |
| 75°   | 410.9  | 375.8  | 359.0  | 510.3  | 2191.3 | 2433.1 | 2249.0  | 10742.3 | 11259.4 | 10150.8 | 7063.5  |
| 77.5° | 390.0  | 348.1  | 318.8  | 319.5  | 926.2  | 2580.4 | 1905.1  | 5945.5  | 6096.2  | 4585.0  | 1935.3  |
| 80°   | 323.0  | 284.5  | 263.6  | 297.0  | 448.4  | 2457.4 | 2060.0  | 2690.9  | 2469.1  | 1126.1  | 644.3   |
| 82.5° | 224.2  | 204.2  | 198.3  | 249.3  | 359.0  | 1751.2 | 2395.5  | 1445.8  | 1212.4  | 564.0   | 397.4   |
| 85°   | 143.1  | 122.2  | 135.6  | 181.5  | 279.5  | 808.2  | 2467.5  | 1127.1  | 896.1   | 358.2   | 224.2   |
| 87.5° | 66.0   | 53.5   | 67.0   | 100.4  | 182.4  | 278.7  | 2347.8  | 1265.9  | 922.9   | 189.2   | 141.5   |
| 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°    | 3659.8  | 3659.8  | 3659.8 | 3659.8 | 3659.8 | 3659.8 | 3659.8 | 3659.8 | 3659.8 | 3659.8 | 3659.8 |
| 2.5°  | 3661.4  | 3645.5  | 3632.9 | 3609.5 | 3583.6 | 3558.5 | 3535.9 | 3507.4 | 3499.1 | 3491.5 | 3503.2 |
| 5°    | 3673.1  | 3657.2  | 3611.1 | 3539.2 | 3459.7 | 3385.3 | 3310.9 | 3247.3 | 3207.8 | 3186.2 | 3198.7 |
| 7.5°  | 3690.6  | 3668.0  | 3572.6 | 3440.5 | 3297.4 | 3167.0 | 3032.1 | 2924.3 | 2844.8 | 2807.2 | 2818.1 |
| 10°   | 3706.5  | 3663.1  | 3507.4 | 3309.1 | 3100.1 | 2905.8 | 2693.3 | 2517.6 | 2387.1 | 2318.4 | 2335.2 |
| 12.5° | 3713.2  | 3643.9  | 3416.3 | 3145.1 | 2858.1 | 2573.6 | 2260.8 | 1998.0 | 1810.7 | 1742.1 | 1727.8 |
| 15°   | 3719.9  | 3622.1  | 3315.9 | 2958.6 | 2566.2 | 2163.7 | 1725.3 | 1410.7 | 1255.0 | 1220.7 | 1213.3 |
| 17.5° | 3721.6  | 3584.3  | 3202.1 | 2756.1 | 2223.9 | 1675.9 | 1179.7 | 979.8  | 980.6  | 1035.8 | 1042.6 |
| 20°   | 3704.0  | 3528.4  | 3063.9 | 2504.3 | 1813.9 | 1158.9 | 809.9  | 775.6  | 902.0  | 1040.0 | 1056.8 |
| 22.5° | 3663.8  | 3454.0  | 2907.5 | 2210.5 | 1344.6 | 763.1  | 626.7  | 664.3  | 827.5  | 996.5  | 1015.8 |
| 25°   | 3612.9  | 3363.6  | 2722.7 | 1870.0 | 890.2  | 545.5  | 525.5  | 571.4  | 682.0  | 794.9  | 805.7  |
| 27.5° | 3543.5  | 3256.4  | 2515.2 | 1480.0 | 578.1  | 449.3  | 462.6  | 493.7  | 538.9  | 589.0  | 594.0  |
| 30°   | 3454.0  | 3128.3  | 2293.5 | 1079.4 | 436.8  | 404.1  | 423.5  | 440.1  | 459.4  | 487.8  | 490.4  |
| 32.5° | 3350.9  | 3005.4  | 2065.8 | 745.6  | 387.3  | 380.7  | 395.8  | 404.1  | 419.1  | 436.8  | 438.5  |
| 35°   | 3264.8  | 2888.3  | 1829.8 | 527.1  | 366.5  | 363.2  | 373.2  | 376.5  | 390.8  | 409.9  | 411.7  |
| 37.5° | 3215.5  | 2792.9  | 1586.3 | 425.1  | 352.2  | 347.3  | 353.0  | 353.0  | 373.2  | 401.6  | 405.9  |
| 40°   | 3218.7  | 2740.2  | 1342.8 | 384.0  | 340.5  | 333.8  | 334.7  | 334.7  | 360.6  | 391.7  | 394.0  |
| 42.5° | 3310.0  | 2753.6  | 1127.1 | 368.1  | 331.4  | 323.7  | 319.5  | 322.1  | 344.0  | 364.0  | 365.6  |
| 45°   | 3524.2  | 2848.2  | 924.5  | 358.2  | 322.1  | 319.5  | 310.5  | 309.6  | 317.9  | 327.2  | 327.2  |
| 47.5° | 3875.6  | 3034.7  | 787.4  | 351.3  | 314.5  | 313.8  | 302.9  | 291.9  | 291.2  | 294.6  | 294.6  |
| 50°   | 4447.1  | 3356.0  | 695.3  | 344.0  | 309.6  | 302.9  | 290.3  | 273.7  | 267.8  | 270.3  | 270.3  |
| 52.5° | 5303.9  | 3929.1  | 660.2  | 333.8  | 298.6  | 287.8  | 273.7  | 256.8  | 251.9  | 252.8  | 252.8  |
| 55°   | 6427.6  | 4809.3  | 655.1  | 322.1  | 287.0  | 269.4  | 257.8  | 245.1  | 239.3  | 240.9  | 240.9  |
| 57.5° | 7800.5  | 6026.6  | 744.7  | 303.7  | 271.1  | 250.9  | 244.2  | 236.0  | 231.8  | 234.3  | 233.4  |
| 60°   | 9469.8  | 7619.9  | 1104.5 | 284.5  | 255.2  | 234.3  | 234.3  | 227.6  | 224.2  | 226.7  | 226.0  |
| 62.5° | 11392.5 | 9449.7  | 1552.9 | 270.3  | 238.5  | 221.0  | 224.2  | 221.0  | 217.5  | 219.2  | 218.4  |
| 65°   | 13097.6 | 10642.0 | 1454.1 | 259.4  | 221.7  | 208.3  | 214.2  | 212.4  | 210.1  | 211.7  | 210.8  |
| 67.5° | 13147.1 | 10200.2 | 816.6  | 247.7  | 205.8  | 195.8  | 204.2  | 203.3  | 201.6  | 203.3  | 202.5  |
| 70°   | 11733.0 | 8612.9  | 460.2  | 226.0  | 189.2  | 180.6  | 192.4  | 191.6  | 189.9  | 193.2  | 192.4  |
| 72.5° | 9400.4  | 6250.1  | 336.3  | 199.2  | 172.4  | 164.7  | 178.3  | 177.3  | 177.3  | 182.4  | 179.9  |
| 75°   | 5409.2  | 3216.2  | 268.6  | 170.7  | 154.8  | 148.8  | 160.6  | 161.4  | 163.1  | 169.9  | 164.7  |
| 77.5° | 1542.0  | 1002.4  | 219.2  | 144.7  | 132.9  | 130.6  | 142.2  | 143.9  | 144.7  | 152.4  | 145.5  |
| 80°   | 573.2   | 461.9   | 180.6  | 121.4  | 108.8  | 109.7  | 120.6  | 123.0  | 123.8  | 131.3  | 123.0  |
| 82.5° | 365.6   | 304.5   | 146.5  | 93.8   | 85.3   | 84.5   | 97.8   | 101.2  | 101.2  | 102.0  | 97.0   |
| 85°   | 213.3   | 182.4   | 110.4  | 67.8   | 60.2   | 57.8   | 72.9   | 78.6   | 76.1   | 74.5   | 71.1   |
| 87.5° | 143.1   | 125.6   | 67.8   | 37.6   | 32.6   | 30.9   | 42.7   | 46.8   | 45.2   | 42.7   | 40.2   |
| 90°   | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)