

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: P317611

Luminaire Tested: **GAN-SA7C-830-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317611  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA7C-830-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41418 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

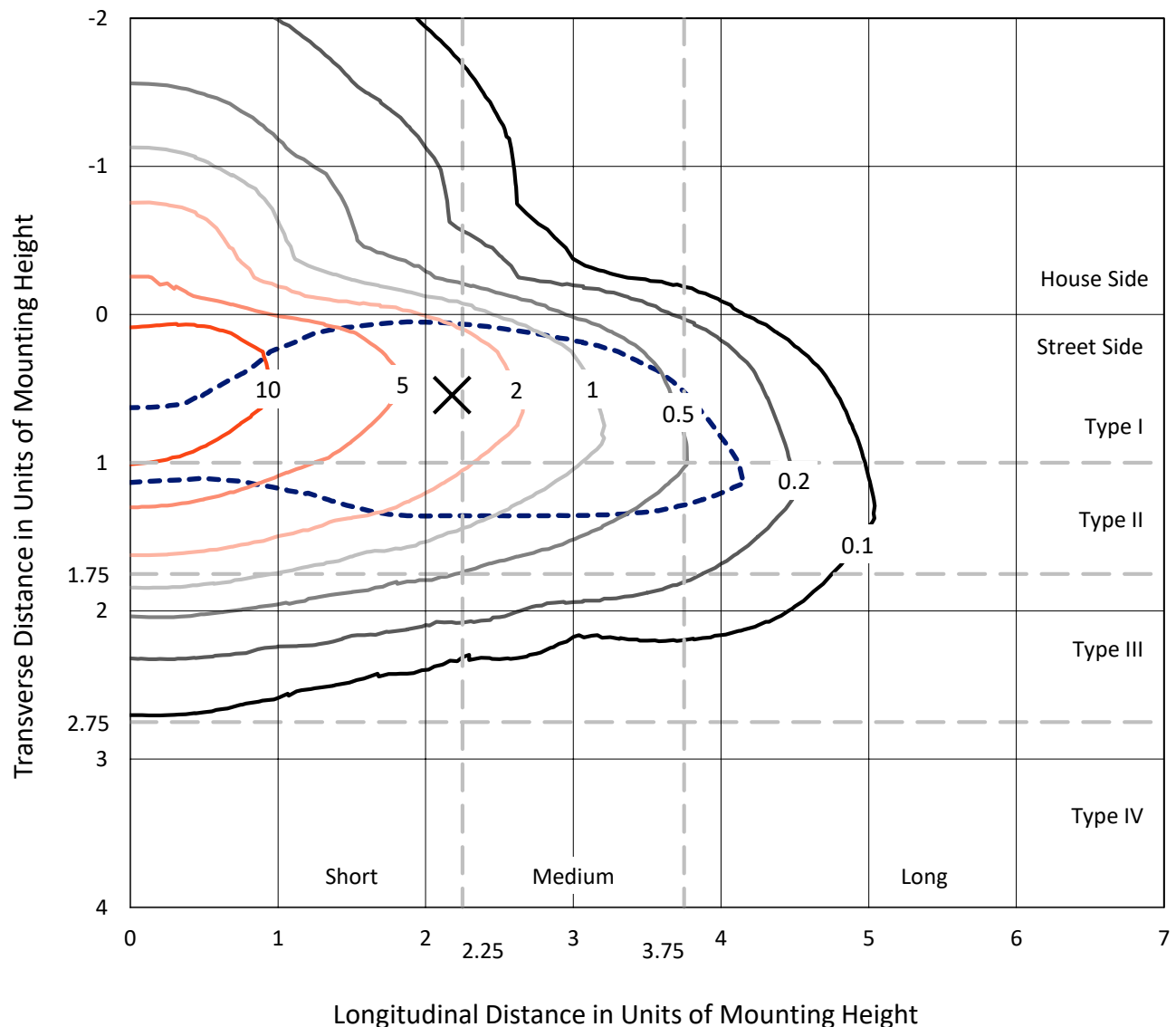
Input Watts (W): 391  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

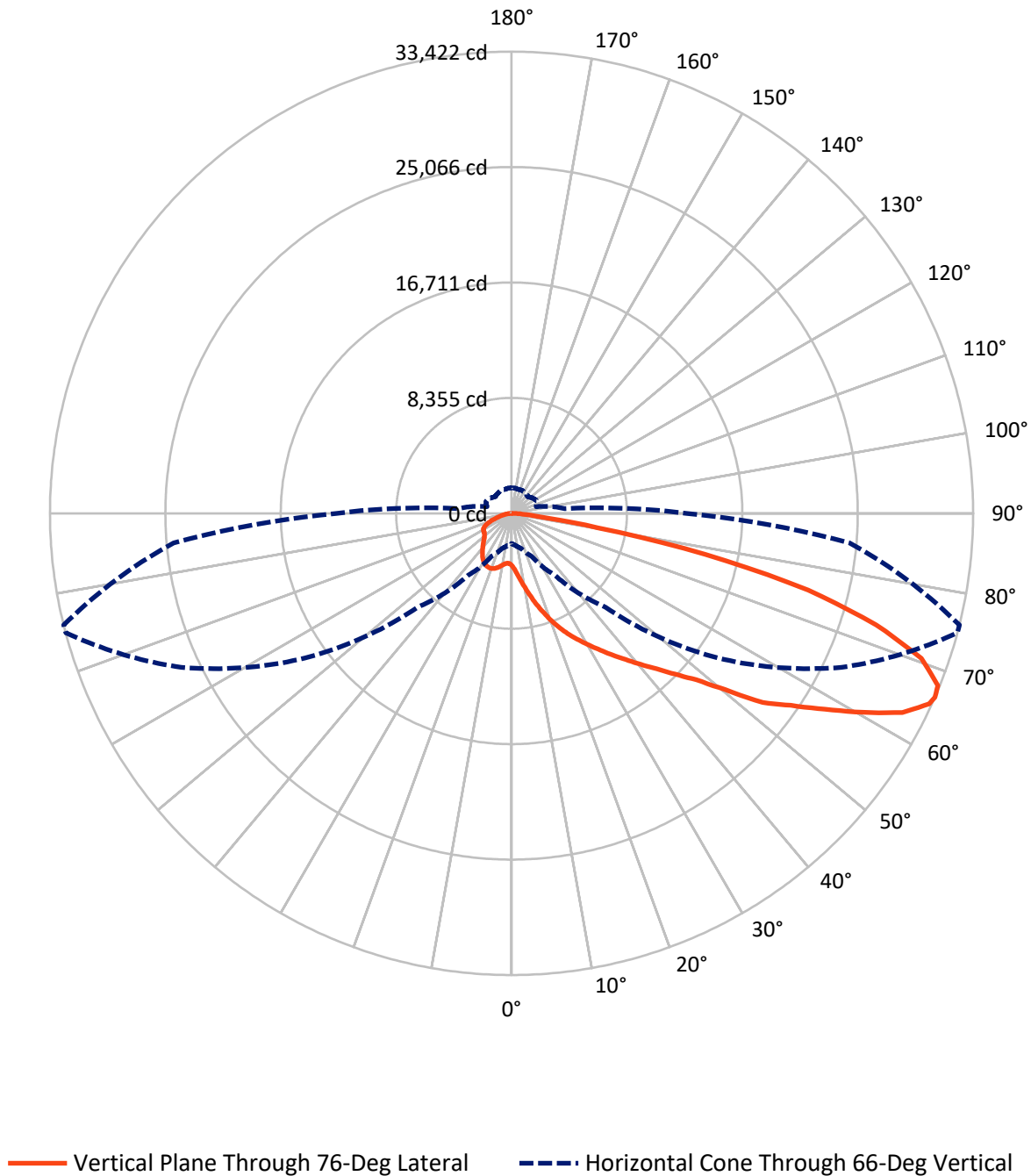
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6969.2   | 0.0    | 6969.2  |
|                    | % Fixture | 16.8     | 0.0    | 16.8    |
| <b>Street Side</b> | Lumens    | 34448.8  | 0.0    | 34448.8 |
|                    | % Fixture | 83.2     | 0.0    | 83.2    |
| <b>Total</b>       | Lumens    | 41418.0  | 0.0    | 41418.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 457.4   | 1.1       |
| 10°-20°   | 1806.2  | 4.4       |
| 20°-30°   | 3509.9  | 8.5       |
| 30°-40°   | 5729.0  | 13.8      |
| 40°-50°   | 7827.2  | 18.9      |
| 50°-60°   | 9117.1  | 22.0      |
| 60°-70°   | 8173.6  | 19.7      |
| 70°-80°   | 4130.6  | 10.0      |
| 80°-90°   | 667.0   | 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°-90°    | 41418.0 | 100.0     |
| 0°-180°   | 41418.0 | 100.0     |

**Coefficient of Utilization**



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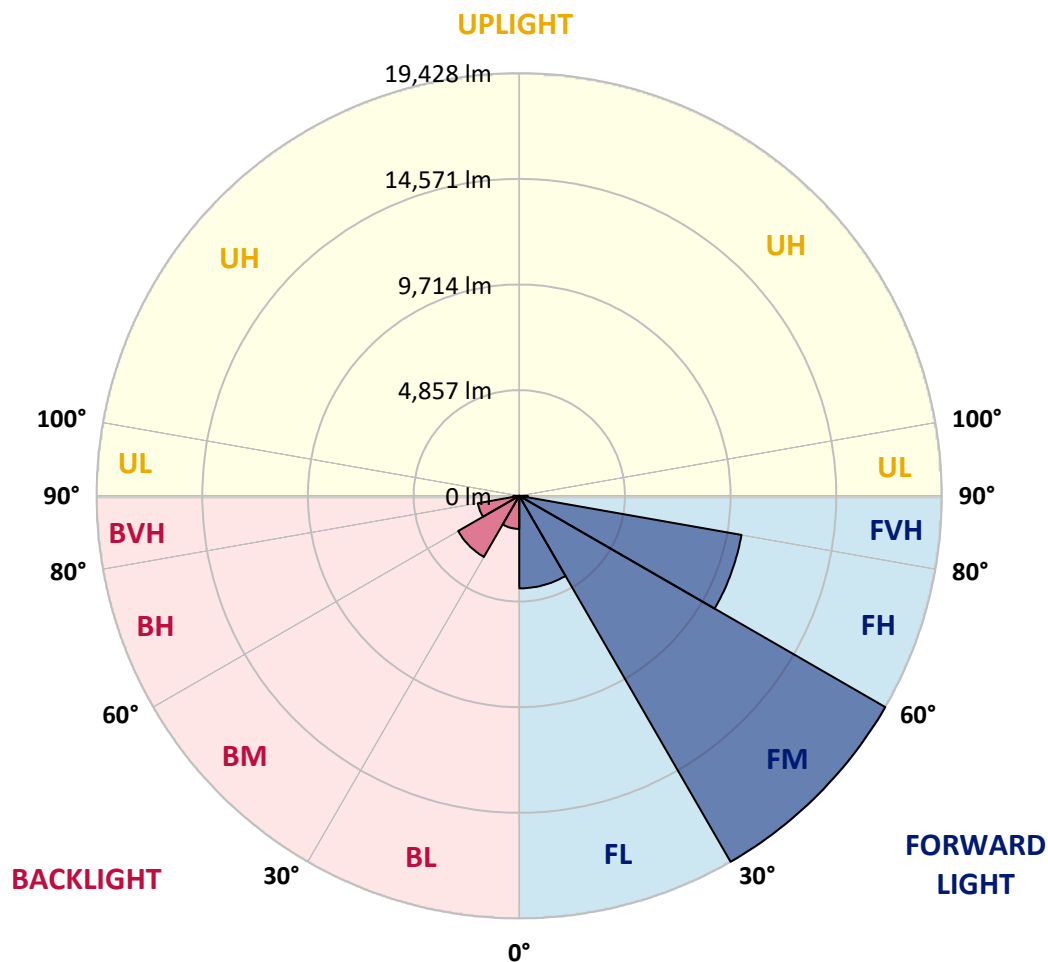
CATALOG NUMBER: GAN-SA7C-830-U-T2R

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 4253.5  | 10.3      |                         |      |          |
| FM   | (30°-60°)   | 19427.9 | 46.9      |                         |      |          |
| FH   | (60°-80°)   | 10373.4 | 25.0      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 393.9   | 1.0       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1520.0  | 3.7       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 3245.3  | 7.8       | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1930.8  | 4.7       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 273.1   | 0.7       |                         |      | G3/500   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 76°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3782.4  | 3782.4  | 3782.4  | 3782.4  | 3782.4  | 3782.4  | 3782.4  | 3782.4  | 3782.4  | 3782.4  | 3782.4  |
| 2.5°  | 5021.2  | 4945.2  | 4938.2  | 4827.1  | 4801.8  | 4589.5  | 4433.4  | 4270.3  | 4084.7  | 4048.1  | 3901.9  |
| 5°    | 6449.8  | 6442.7  | 6345.7  | 6164.3  | 6022.3  | 5659.5  | 5301.0  | 4921.3  | 4505.1  | 4437.6  | 4108.6  |
| 7.5°  | 7734.9  | 7723.7  | 7649.2  | 7453.7  | 7248.4  | 6802.7  | 6290.9  | 5708.7  | 5033.8  | 4934.0  | 4388.4  |
| 10°   | 8710.8  | 8706.5  | 8681.2  | 8537.8  | 8363.5  | 7936.0  | 7370.8  | 6576.3  | 5648.3  | 5511.9  | 4738.5  |
| 12.5° | 9464.4  | 9472.9  | 9489.7  | 9439.1  | 9356.2  | 8992.0  | 8412.7  | 7495.9  | 6303.5  | 6168.5  | 5128.0  |
| 15°   | 9974.8  | 10000.2 | 10087.3 | 10159.0 | 10202.6 | 9979.1  | 9418.0  | 8436.6  | 7037.5  | 6875.8  | 5559.7  |
| 17.5° | 10232.2 | 10260.3 | 10410.7 | 10627.3 | 10826.9 | 10804.4 | 10358.7 | 9333.7  | 7742.0  | 7585.9  | 6023.7  |
| 20°   | 10454.3 | 10475.4 | 10644.1 | 10904.3 | 11257.2 | 11413.3 | 11163.0 | 10197.0 | 8513.9  | 8328.3  | 6515.8  |
| 22.5° | 11098.3 | 11125.0 | 11175.6 | 11323.3 | 11635.4 | 11922.3 | 11801.4 | 11013.9 | 9221.2  | 9048.2  | 6982.7  |
| 25°   | 12341.3 | 12373.6 | 12264.0 | 12138.8 | 12197.9 | 12397.5 | 12420.0 | 11759.2 | 9938.3  | 9742.8  | 7484.6  |
| 27.5° | 13838.8 | 13885.2 | 13698.2 | 13376.2 | 13095.0 | 13017.6 | 12990.9 | 12369.4 | 10623.1 | 10396.7 | 7981.0  |
| 30°   | 15305.4 | 15385.5 | 15142.2 | 14724.6 | 14208.6 | 13845.8 | 13577.3 | 12967.0 | 11298.0 | 11081.4 | 8449.2  |
| 32.5° | 16738.2 | 16705.8 | 16352.9 | 15945.1 | 15340.5 | 14886.3 | 14236.7 | 13608.2 | 12057.3 | 11808.4 | 8914.6  |
| 35°   | 17719.6 | 17730.9 | 17403.2 | 16919.6 | 16343.1 | 15994.3 | 15119.7 | 14300.0 | 12832.0 | 12602.8 | 9443.3  |
| 37.5° | 18554.8 | 18502.8 | 18131.6 | 17680.2 | 17183.9 | 17034.8 | 16153.2 | 15062.1 | 13671.5 | 13421.2 | 10005.8 |
| 40°   | 18833.2 | 18772.8 | 18529.5 | 18204.7 | 17806.8 | 17794.1 | 17293.6 | 15925.4 | 14620.6 | 14373.1 | 10639.9 |
| 42.5° | 18664.5 | 18587.2 | 18487.3 | 18398.8 | 18276.4 | 18332.7 | 18365.0 | 16937.8 | 15663.9 | 15386.9 | 11373.9 |
| 45°   | 18041.6 | 17924.9 | 17995.2 | 18187.8 | 18453.6 | 18771.4 | 19332.4 | 18058.5 | 16832.4 | 16600.4 | 12235.8 |
| 47.5° | 17084.1 | 16978.6 | 17198.0 | 17609.9 | 18332.7 | 19137.0 | 20247.8 | 19295.9 | 18227.2 | 17996.6 | 13463.4 |
| 50°   | 15737.0 | 15768.0 | 16081.5 | 16831.0 | 17923.5 | 19305.7 | 21375.5 | 20934.0 | 20254.8 | 20039.7 | 15138.0 |
| 52.5° | 13526.6 | 13532.3 | 14415.3 | 15645.6 | 17198.0 | 19218.5 | 22001.2 | 23027.6 | 23023.4 | 22763.3 | 16732.5 |
| 55°   | 11473.7 | 11598.9 | 12297.7 | 13933.0 | 16022.5 | 18869.8 | 22438.5 | 24045.6 | 24841.5 | 24536.4 | 18218.8 |
| 57.5° | 9468.6  | 9541.8  | 10204.0 | 11846.4 | 14345.0 | 17940.4 | 22887.0 | 25267.5 | 26936.6 | 26743.9 | 20066.4 |
| 60°   | 7188.0  | 7300.4  | 7985.2  | 9502.4  | 12199.3 | 16291.0 | 22929.2 | 26542.9 | 29440.8 | 29246.8 | 22129.1 |
| 62.5° | 4665.4  | 4859.5  | 5500.6  | 6922.2  | 9603.6  | 13918.9 | 21950.6 | 27376.7 | 31814.3 | 31745.4 | 23959.9 |
| 65°   | 2681.4  | 2827.7  | 3273.4  | 4370.1  | 6625.5  | 10940.8 | 19623.5 | 27056.1 | 33275.3 | 33235.9 | 24644.6 |
| 66°   | 2190.7  | 2282.1  | 2623.8  | 3415.4  | 5466.9  | 9607.9  | 18270.8 | 26379.8 | 33420.1 | 33421.5 | 24565.9 |
| 67.5° | 1752.0  | 1792.8  | 1946.0  | 2445.2  | 4034.1  | 7615.4  | 15853.7 | 24887.9 | 33240.1 | 33289.3 | 24058.3 |
| 70°   | 1449.7  | 1470.8  | 1518.6  | 1639.5  | 2201.9  | 4592.3  | 11253.0 | 21011.3 | 31433.3 | 31471.2 | 22077.1 |
| 72.5° | 1300.6  | 1313.3  | 1331.6  | 1348.4  | 1553.7  | 2566.1  | 6873.0  | 16808.5 | 27559.5 | 27608.7 | 19058.2 |
| 75°   | 1178.3  | 1185.3  | 1182.5  | 1183.9  | 1303.5  | 1635.3  | 3551.8  | 12549.4 | 22283.8 | 22185.4 | 14599.5 |
| 77.5° | 1034.9  | 1041.9  | 1027.9  | 1030.7  | 1153.0  | 1257.0  | 1767.5  | 8785.3  | 15038.2 | 14343.6 | 8225.7  |
| 80°   | 874.6   | 880.2   | 874.6   | 884.4   | 1004.0  | 949.1   | 1027.9  | 4942.4  | 6649.4  | 6289.5  | 2924.7  |
| 82.5° | 660.9   | 684.8   | 701.6   | 741.0   | 826.8   | 674.9   | 687.6   | 1924.9  | 2024.8  | 1927.8  | 897.1   |
| 85°   | 289.7   | 352.9   | 528.7   | 566.7   | 621.5   | 405.0   | 451.4   | 784.6   | 824.0   | 798.7   | 326.2   |
| 87.5° | 75.9    | 83.0    | 261.5   | 329.0   | 344.5   | 182.8   | 234.8   | 357.1   | 376.8   | 357.1   | 108.3   |
| 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°    | 3782.4  | 3782.4 | 3782.4 | 3782.4 | 3782.4 | 3782.4 | 3782.4 | 3782.4 | 3782.4 | 3782.4 | 3782.4 |
| 2.5°  | 3824.6  | 3755.7 | 3631.9 | 3522.3 | 3439.3 | 3383.1 | 3326.8 | 3298.7 | 3281.8 | 3265.0 | 3267.8 |
| 5°    | 3946.9  | 3807.7 | 3595.4 | 3444.9 | 3360.6 | 3307.1 | 3279.0 | 3267.8 | 3260.7 | 3243.9 | 3243.9 |
| 7.5°  | 4131.1  | 3934.3 | 3641.8 | 3487.1 | 3421.0 | 3380.3 | 3363.4 | 3357.8 | 3349.3 | 3329.6 | 3332.4 |
| 10°   | 4363.1  | 4087.5 | 3738.8 | 3588.4 | 3527.9 | 3482.9 | 3459.0 | 3450.6 | 3435.1 | 3412.6 | 3415.4 |
| 12.5° | 4635.9  | 4277.3 | 3866.8 | 3709.3 | 3636.2 | 3575.7 | 3536.3 | 3512.4 | 3485.7 | 3456.2 | 3457.6 |
| 15°   | 4934.0  | 4484.0 | 4004.6 | 3817.5 | 3717.7 | 3633.4 | 3570.1 | 3529.3 | 3487.1 | 3450.6 | 3449.2 |
| 17.5° | 5236.3  | 4683.7 | 4110.0 | 3876.6 | 3741.6 | 3630.5 | 3544.8 | 3481.5 | 3429.5 | 3384.5 | 3380.3 |
| 20°   | 5562.5  | 4863.7 | 4169.1 | 3871.0 | 3696.6 | 3564.5 | 3450.6 | 3371.8 | 3314.2 | 3269.2 | 3262.1 |
| 22.5° | 5894.4  | 5032.4 | 4178.9 | 3813.3 | 3596.8 | 3435.1 | 3315.6 | 3228.4 | 3169.3 | 3122.9 | 3106.1 |
| 25°   | 6198.1  | 5163.2 | 4138.1 | 3702.3 | 3457.6 | 3283.2 | 3166.5 | 3077.9 | 3030.1 | 2975.3 | 2958.4 |
| 27.5° | 6475.1  | 5254.6 | 4056.6 | 3560.2 | 3301.5 | 3130.0 | 3020.3 | 2944.4 | 2892.3 | 2850.2 | 2836.1 |
| 30°   | 6723.9  | 5303.8 | 3923.0 | 3391.5 | 3141.2 | 2985.1 | 2892.3 | 2840.3 | 2795.3 | 2741.9 | 2732.0 |
| 32.5° | 6960.2  | 5303.8 | 3751.5 | 3207.3 | 2982.3 | 2857.2 | 2802.3 | 2770.0 | 2719.4 | 2667.4 | 2653.3 |
| 35°   | 7196.4  | 5271.5 | 3549.0 | 3014.7 | 2836.1 | 2765.8 | 2763.0 | 2725.0 | 2647.7 | 2577.4 | 2559.1 |
| 37.5° | 7445.3  | 5205.4 | 3321.2 | 2834.7 | 2716.6 | 2725.0 | 2748.9 | 2664.6 | 2554.9 | 2455.0 | 2428.3 |
| 40°   | 7726.5  | 5114.0 | 3085.0 | 2678.6 | 2616.7 | 2706.7 | 2711.0 | 2577.4 | 2363.6 | 2272.3 | 2248.3 |
| 42.5° | 8056.9  | 5022.6 | 2865.6 | 2540.8 | 2538.0 | 2651.9 | 2639.2 | 2389.0 | 2261.0 | 2214.6 | 2201.9 |
| 45°   | 8491.4  | 4970.5 | 2657.5 | 2410.0 | 2476.1 | 2563.3 | 2516.9 | 2284.9 | 2231.5 | 2204.8 | 2193.5 |
| 47.5° | 9176.2  | 4997.3 | 2466.3 | 2306.0 | 2414.3 | 2474.7 | 2289.1 | 2242.7 | 2204.8 | 2172.4 | 2161.2 |
| 50°   | 10033.9 | 4981.8 | 2311.6 | 2234.3 | 2344.0 | 2381.9 | 2186.5 | 2187.9 | 2168.2 | 2131.6 | 2114.8 |
| 52.5° | 10679.3 | 4860.9 | 2211.8 | 2193.5 | 2282.1 | 2217.4 | 2121.8 | 2134.5 | 2124.6 | 2071.2 | 2052.9 |
| 55°   | 11302.2 | 4756.8 | 2161.2 | 2178.0 | 2237.1 | 2012.1 | 2045.9 | 2076.8 | 2067.0 | 2014.9 | 2006.5 |
| 57.5° | 12077.0 | 4737.1 | 2130.2 | 2182.3 | 2199.1 | 1909.5 | 1972.8 | 2013.5 | 2006.5 | 1984.0 | 1979.8 |
| 60°   | 13026.1 | 4742.8 | 2102.1 | 2189.3 | 2157.0 | 1833.5 | 1903.9 | 1955.9 | 1960.1 | 1955.9 | 1953.1 |
| 62.5° | 13547.7 | 4589.5 | 2031.8 | 2169.6 | 2082.4 | 1767.5 | 1832.1 | 1908.1 | 1909.5 | 1917.9 | 1916.5 |
| 65°   | 13104.8 | 4131.1 | 1901.0 | 2100.7 | 1957.3 | 1712.6 | 1770.3 | 1853.2 | 1832.1 | 1870.1 | 1870.1 |
| 66°   | 12674.5 | 3866.8 | 1836.4 | 2055.7 | 1903.9 | 1691.5 | 1750.6 | 1825.1 | 1798.4 | 1850.4 | 1850.4 |
| 67.5° | 11795.7 | 3421.0 | 1719.7 | 1960.1 | 1827.9 | 1662.0 | 1728.1 | 1778.7 | 1742.2 | 1819.5 | 1813.9 |
| 70°   | 10190.0 | 2646.3 | 1484.8 | 1743.6 | 1702.8 | 1618.4 | 1697.2 | 1685.9 | 1632.5 | 1750.6 | 1728.1 |
| 72.5° | 8591.2  | 2010.7 | 1192.4 | 1459.5 | 1513.0 | 1563.6 | 1653.6 | 1567.8 | 1500.3 | 1583.3 | 1534.1 |
| 75°   | 6666.3  | 1511.6 | 942.1  | 1134.7 | 1278.1 | 1477.8 | 1601.5 | 1431.4 | 1334.4 | 1325.9 | 1299.2 |
| 77.5° | 3603.8  | 1037.7 | 746.6  | 866.2  | 1015.2 | 1370.9 | 1566.4 | 1285.2 | 1138.9 | 1105.2 | 1084.1 |
| 80°   | 1427.2  | 674.9  | 542.8  | 656.6  | 710.1  | 1216.3 | 1482.0 | 1115.0 | 939.3  | 905.5  | 873.2  |
| 82.5° | 589.2   | 399.3  | 350.1  | 440.1  | 462.6  | 1040.5 | 1330.2 | 914.0  | 725.5  | 1004.0 | 1065.8 |
| 85°   | 253.1   | 219.4  | 208.1  | 227.8  | 261.5  | 729.8  | 1058.8 | 697.4  | 783.2  | 698.8  | 555.4  |
| 87.5° | 75.9    | 92.8   | 88.6   | 87.2   | 95.6   | 174.4  | 563.8  | 388.1  | 575.1  | 217.9  | 163.1  |
| 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)