

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: P317522

Luminaire Tested: **GAN-SA8B-760-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317522  
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-SA8B-760-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47713 lumens  
Efficiency: N/A  
Efficacy: 142.9 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): 334  
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

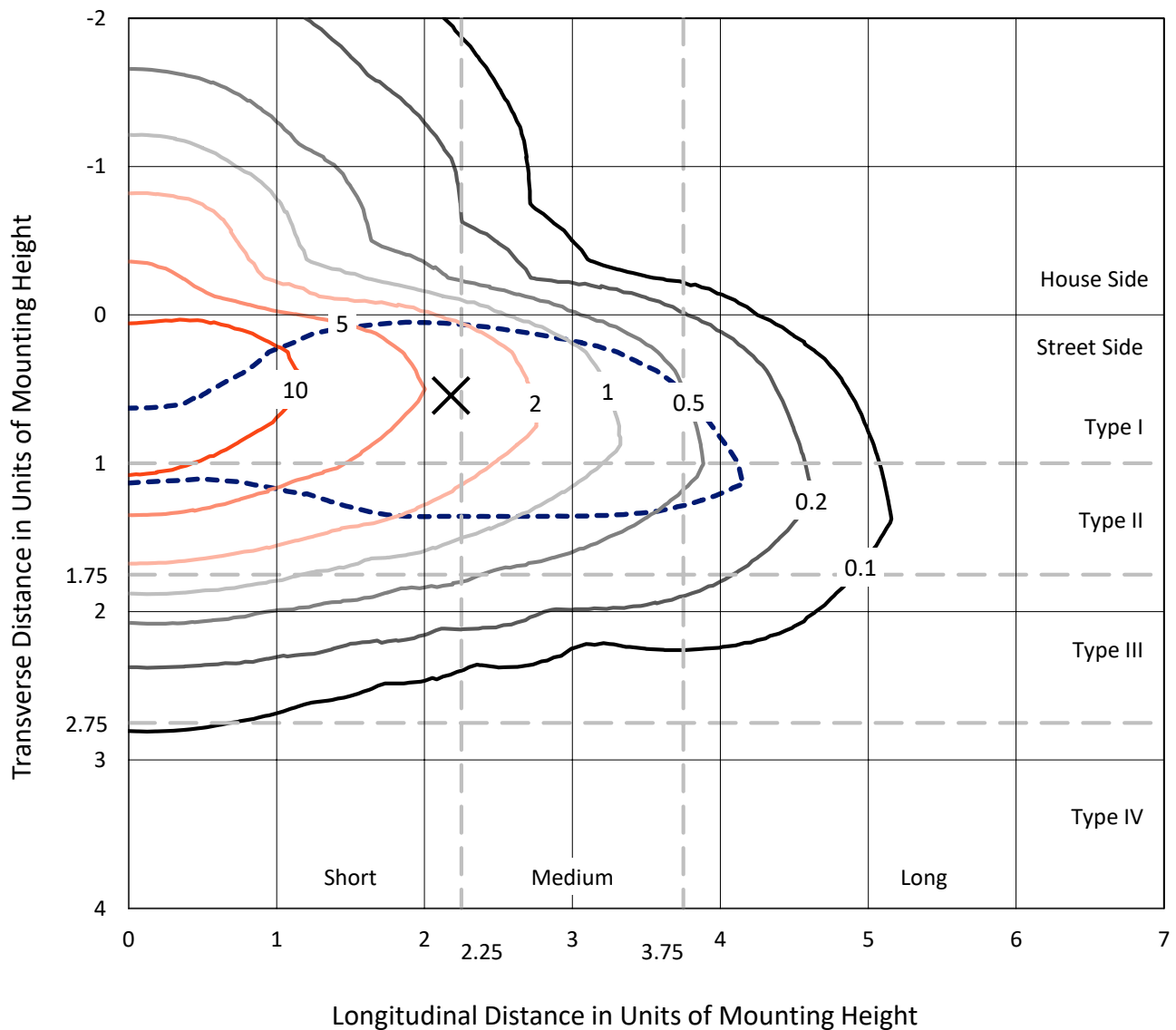


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## Iso-Footcandle Lines of Horizontal Illumination

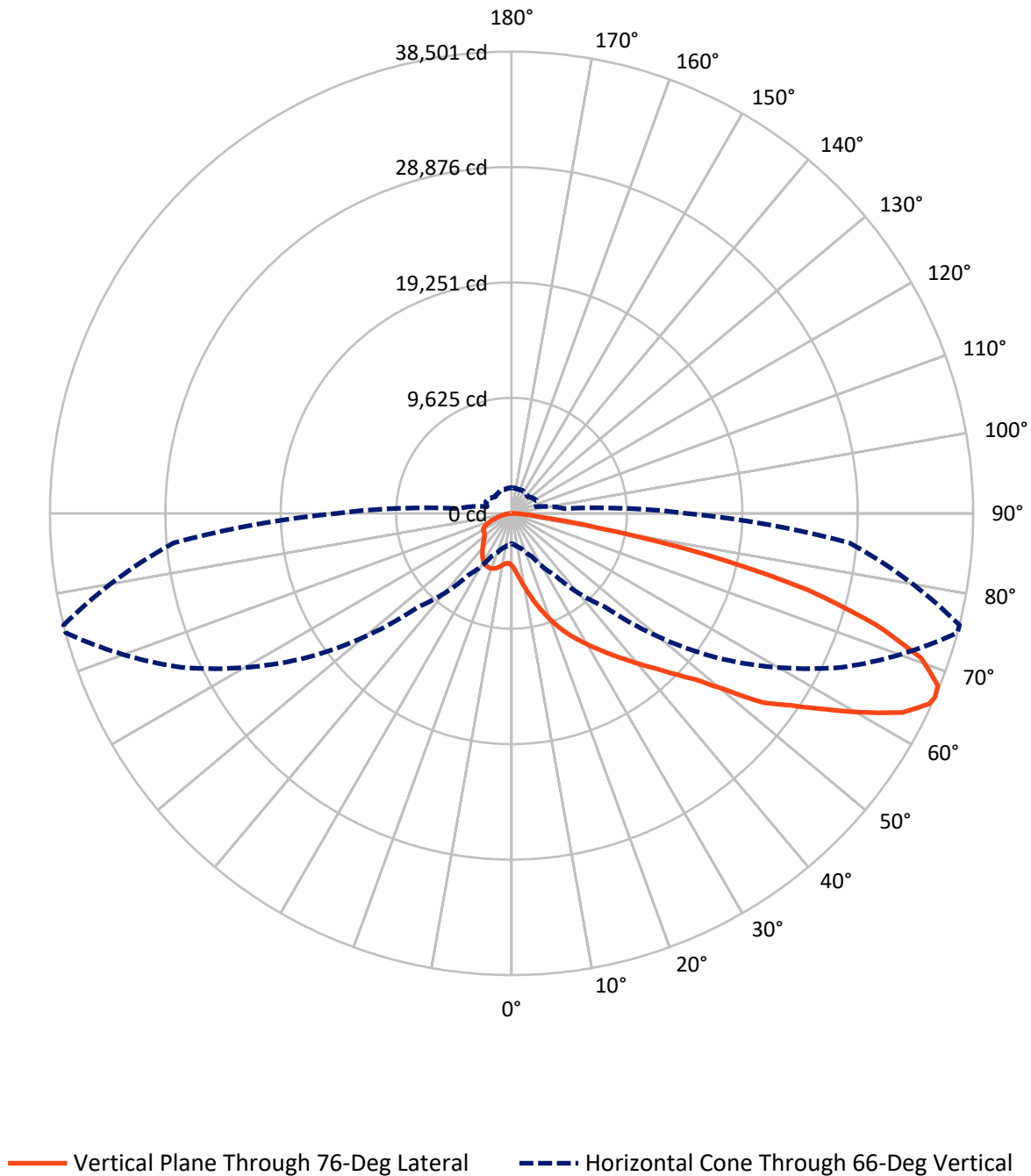
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 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    | 8028.5   | 0.0    | 8028.5  |
|                    | % Fixture | 16.8     | 0.0    | 16.8    |
| <b>Street Side</b> | Lumens    | 39684.5  | 0.0    | 39684.5 |
|                    | % Fixture | 83.2     | 0.0    | 83.2    |
| <b>Total</b>       | Lumens    | 47713.0  | 0.0    | 47713.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 526.9   | 1.1       |
| 10°-20°   | 2080.7  | 4.4       |
| 20°-30°   | 4043.4  | 8.5       |
| 30°-40°   | 6599.7  | 13.8      |
| 40°-50°   | 9016.8  | 18.9      |
| 50°-60°   | 10502.7 | 22.0      |
| 60°-70°   | 9415.9  | 19.7      |
| 70°-80°   | 4758.4  | 10.0      |
| 80°-90°   | 768.4   | 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°    | 47713.0 | 100.0     |
| 0°-180°   | 47713.0 | 100.0     |

**Coefficient of Utilization**



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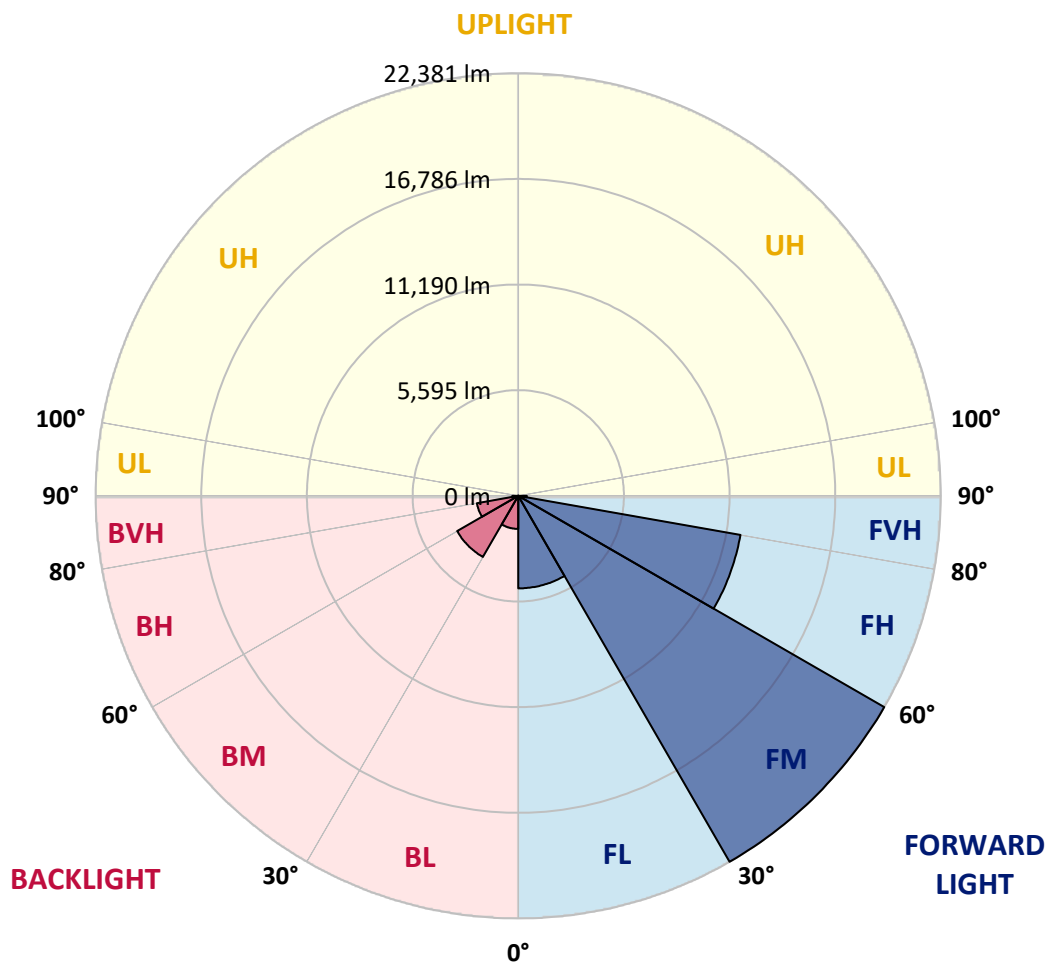
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 4900.0  | 10.3      |                         |      |          |
| FM   | (30°-60°)   | 22380.7 | 46.9      |                         |      |          |
| FH   | (60°-80°)   | 11950.0 | 25.0      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 453.8   | 1.0       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1751.0  | 3.7       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 3738.5  | 7.8       | B3/5000                 |      |          |
| BH   | (60°-80°)   | 2224.3  | 4.7       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 314.6   | 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°    | 4357.3  | 4357.3  | 4357.3  | 4357.3  | 4357.3  | 4357.3  | 4357.3  | 4357.3  | 4357.3  | 4357.3  | 4357.3  |
| 2.5°  | 5784.3  | 5696.9  | 5688.8  | 5560.8  | 5531.6  | 5287.0  | 5107.2  | 4919.3  | 4705.5  | 4663.4  | 4495.0  |
| 5°    | 7430.0  | 7421.9  | 7310.2  | 7101.2  | 6937.6  | 6519.7  | 6106.7  | 5669.3  | 5189.9  | 5112.1  | 4733.1  |
| 7.5°  | 8910.5  | 8897.6  | 8811.7  | 8586.6  | 8350.1  | 7836.6  | 7247.0  | 6576.4  | 5798.9  | 5683.9  | 5055.4  |
| 10°   | 10034.7 | 10029.8 | 10000.7 | 9835.5  | 9634.6  | 9142.2  | 8491.0  | 7575.8  | 6506.8  | 6349.6  | 5458.7  |
| 12.5° | 10902.9 | 10912.6 | 10932.1 | 10873.7 | 10778.2 | 10358.6 | 9691.3  | 8635.2  | 7261.6  | 7106.1  | 5907.4  |
| 15°   | 11490.9 | 11520.0 | 11620.5 | 11703.1 | 11753.3 | 11495.7 | 10849.4 | 9718.8  | 8107.1  | 7920.8  | 6404.7  |
| 17.5° | 11787.3 | 11819.7 | 11993.0 | 12242.5 | 12472.5 | 12446.6 | 11933.1 | 10752.3 | 8918.6  | 8738.8  | 6939.2  |
| 20°   | 12043.2 | 12067.5 | 12261.9 | 12561.6 | 12968.2 | 13147.9 | 12859.6 | 11746.8 | 9807.9  | 9594.1  | 7506.2  |
| 22.5° | 12785.1 | 12815.9 | 12874.2 | 13044.3 | 13403.9 | 13734.3 | 13595.0 | 12687.9 | 10622.7 | 10423.4 | 8043.9  |
| 25°   | 14217.0 | 14254.3 | 14127.9 | 13983.8 | 14051.8 | 14281.8 | 14307.7 | 13546.4 | 11448.8 | 11223.6 | 8622.2  |
| 27.5° | 15942.1 | 15995.6 | 15780.1 | 15409.2 | 15085.2 | 14996.1 | 14965.4 | 14249.4 | 12237.6 | 11976.8 | 9194.0  |
| 30°   | 17631.6 | 17723.9 | 17443.7 | 16962.6 | 16368.1 | 15950.2 | 15640.8 | 14937.8 | 13015.1 | 12765.7 | 9733.4  |
| 32.5° | 19282.1 | 19244.9 | 18838.3 | 18368.6 | 17672.1 | 17148.9 | 16400.5 | 15676.5 | 13889.8 | 13603.1 | 10269.6 |
| 35°   | 20412.8 | 20425.7 | 20048.3 | 19491.1 | 18827.0 | 18425.3 | 17417.8 | 16473.4 | 14782.3 | 14518.3 | 10878.6 |
| 37.5° | 21374.9 | 21315.0 | 20887.4 | 20367.4 | 19795.6 | 19623.9 | 18608.3 | 17351.3 | 15749.4 | 15461.0 | 11526.5 |
| 40°   | 21695.7 | 21626.0 | 21345.8 | 20971.6 | 20513.2 | 20498.6 | 19922.0 | 18345.9 | 16842.7 | 16557.6 | 12257.1 |
| 42.5° | 21501.3 | 21412.2 | 21297.2 | 21195.1 | 21054.2 | 21119.0 | 21156.3 | 19512.2 | 18044.6 | 17725.5 | 13102.6 |
| 45°   | 20783.7 | 20649.3 | 20730.3 | 20952.2 | 21258.3 | 21624.4 | 22270.7 | 20803.1 | 19390.7 | 19123.4 | 14095.5 |
| 47.5° | 19680.6 | 19559.1 | 19811.8 | 20286.4 | 21119.0 | 22045.5 | 23325.2 | 22228.6 | 20997.5 | 20731.9 | 15509.6 |
| 50°   | 18128.8 | 18164.5 | 18525.7 | 19389.1 | 20647.6 | 22239.9 | 24624.3 | 24115.6 | 23333.3 | 23085.4 | 17438.8 |
| 52.5° | 15582.5 | 15589.0 | 16606.2 | 18023.6 | 19811.8 | 22139.5 | 25345.1 | 26527.5 | 26522.7 | 26223.0 | 19275.7 |
| 55°   | 13217.6 | 13361.8 | 14166.8 | 16050.6 | 18457.7 | 21737.8 | 25848.8 | 27700.3 | 28617.1 | 28265.6 | 20987.8 |
| 57.5° | 10907.8 | 10992.0 | 11754.9 | 13646.8 | 16525.2 | 20667.1 | 26365.6 | 29107.9 | 31030.6 | 30808.7 | 23116.2 |
| 60°   | 8280.4  | 8410.0  | 9198.9  | 10946.6 | 14053.4 | 18767.1 | 26414.1 | 30577.0 | 33915.5 | 33691.9 | 25492.5 |
| 62.5° | 5374.5  | 5598.0  | 6336.7  | 7974.3  | 11063.3 | 16034.4 | 25286.8 | 31537.6 | 36649.7 | 36570.3 | 27601.5 |
| 65°   | 3089.0  | 3257.4  | 3770.9  | 5034.4  | 7632.5  | 12603.7 | 22606.0 | 31168.3 | 38332.7 | 38287.3 | 28390.3 |
| 66°   | 2523.7  | 2628.9  | 3022.6  | 3934.5  | 6297.8  | 11068.1 | 21047.7 | 30389.1 | 38499.5 | 38501.1 | 28299.6 |
| 67.5° | 2018.3  | 2065.3  | 2241.8  | 2816.8  | 4647.2  | 8772.9  | 18263.3 | 28670.5 | 38292.2 | 38348.9 | 27714.8 |
| 70°   | 1670.0  | 1694.3  | 1749.4  | 1888.7  | 2536.6  | 5290.3  | 12963.3 | 24204.7 | 36210.7 | 36254.5 | 25432.5 |
| 72.5° | 1498.3  | 1512.9  | 1534.0  | 1553.4  | 1789.9  | 2956.1  | 7917.6  | 19363.1 | 31748.2 | 31804.9 | 21954.8 |
| 75°   | 1357.4  | 1365.5  | 1362.3  | 1363.9  | 1501.6  | 1883.8  | 4091.6  | 14456.8 | 25670.7 | 25557.3 | 16818.4 |
| 77.5° | 1192.2  | 1200.3  | 1184.1  | 1187.3  | 1328.2  | 1448.1  | 2036.1  | 10120.5 | 17323.8 | 16523.6 | 9475.9  |
| 80°   | 1007.5  | 1014.0  | 1007.5  | 1018.9  | 1156.5  | 1093.4  | 1184.1  | 5693.6  | 7660.1  | 7245.4  | 3369.2  |
| 82.5° | 761.3   | 788.8   | 808.3   | 853.6   | 952.4   | 777.5   | 792.1   | 2217.5  | 2332.5  | 2220.8  | 1033.4  |
| 85°   | 333.7   | 406.6   | 609.0   | 652.8   | 716.0   | 466.5   | 520.0   | 903.9   | 949.2   | 920.0   | 375.8   |
| 87.5° | 87.5    | 95.6    | 301.3   | 379.0   | 396.9   | 210.6   | 270.5   | 411.4   | 434.1   | 411.4   | 124.7   |
| 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°    | 4357.3  | 4357.3 | 4357.3 | 4357.3 | 4357.3 | 4357.3 | 4357.3 | 4357.3 | 4357.3 | 4357.3 | 4357.3 |
| 2.5°  | 4405.9  | 4326.5 | 4184.0 | 4057.6 | 3962.0 | 3897.2 | 3832.5 | 3800.1 | 3780.6 | 3761.2 | 3764.4 |
| 5°    | 4546.8  | 4386.4 | 4141.8 | 3968.5 | 3871.3 | 3809.8 | 3777.4 | 3764.4 | 3756.3 | 3736.9 | 3736.9 |
| 7.5°  | 4759.0  | 4532.2 | 4195.3 | 4017.1 | 3941.0 | 3894.0 | 3874.6 | 3868.1 | 3858.4 | 3835.7 | 3838.9 |
| 10°   | 5026.3  | 4708.8 | 4307.1 | 4133.7 | 4064.1 | 4012.3 | 3984.7 | 3975.0 | 3957.2 | 3931.3 | 3934.5 |
| 12.5° | 5340.5  | 4927.4 | 4454.5 | 4273.0 | 4188.8 | 4119.2 | 4073.8 | 4046.3 | 4015.5 | 3981.5 | 3983.1 |
| 15°   | 5683.9  | 5165.6 | 4613.2 | 4397.8 | 4282.8 | 4185.6 | 4112.7 | 4065.7 | 4017.1 | 3975.0 | 3973.4 |
| 17.5° | 6032.2  | 5395.6 | 4734.7 | 4465.8 | 4310.3 | 4182.3 | 4083.5 | 4010.6 | 3950.7 | 3898.9 | 3894.0 |
| 20°   | 6407.9  | 5602.9 | 4802.7 | 4459.3 | 4258.5 | 4106.2 | 3975.0 | 3884.3 | 3817.9 | 3766.0 | 3757.9 |
| 22.5° | 6790.2  | 5797.3 | 4814.1 | 4392.9 | 4143.5 | 3957.2 | 3819.5 | 3719.1 | 3651.0 | 3597.6 | 3578.1 |
| 25°   | 7140.1  | 5947.9 | 4767.1 | 4264.9 | 3983.1 | 3782.2 | 3647.8 | 3545.8 | 3490.7 | 3427.5 | 3408.1 |
| 27.5° | 7459.2  | 6053.2 | 4673.1 | 4101.3 | 3803.3 | 3605.7 | 3479.3 | 3391.9 | 3331.9 | 3283.3 | 3267.1 |
| 30°   | 7745.9  | 6109.9 | 4519.3 | 3907.0 | 3618.6 | 3438.8 | 3331.9 | 3272.0 | 3220.2 | 3158.6 | 3147.3 |
| 32.5° | 8018.0  | 6109.9 | 4321.6 | 3694.8 | 3435.6 | 3291.4 | 3228.3 | 3191.0 | 3132.7 | 3072.8 | 3056.6 |
| 35°   | 8290.2  | 6072.6 | 4088.4 | 3472.9 | 3267.1 | 3186.2 | 3182.9 | 3139.2 | 3050.1 | 2969.1 | 2948.0 |
| 37.5° | 8576.9  | 5996.5 | 3826.0 | 3265.5 | 3129.5 | 3139.2 | 3166.7 | 3069.5 | 2943.2 | 2828.2 | 2797.4 |
| 40°   | 8900.8  | 5891.2 | 3553.9 | 3085.7 | 3014.5 | 3118.1 | 3123.0 | 2969.1 | 2722.9 | 2617.6 | 2590.1 |
| 42.5° | 9281.5  | 5785.9 | 3301.2 | 2927.0 | 2923.7 | 3055.0 | 3040.4 | 2752.0 | 2604.6 | 2551.2 | 2536.6 |
| 45°   | 9782.0  | 5726.0 | 3061.4 | 2776.3 | 2852.5 | 2952.9 | 2899.4 | 2632.2 | 2570.6 | 2539.9 | 2526.9 |
| 47.5° | 10570.8 | 5756.8 | 2841.1 | 2656.5 | 2781.2 | 2850.9 | 2637.0 | 2583.6 | 2539.9 | 2502.6 | 2489.6 |
| 50°   | 11558.9 | 5739.0 | 2663.0 | 2573.9 | 2700.2 | 2743.9 | 2518.8 | 2520.4 | 2497.7 | 2455.6 | 2436.2 |
| 52.5° | 12302.4 | 5599.7 | 2548.0 | 2526.9 | 2628.9 | 2554.4 | 2444.3 | 2458.9 | 2447.5 | 2386.0 | 2364.9 |
| 55°   | 13020.0 | 5479.8 | 2489.6 | 2509.1 | 2577.1 | 2317.9 | 2356.8 | 2392.5 | 2381.1 | 2321.2 | 2311.5 |
| 57.5° | 13912.5 | 5457.1 | 2454.0 | 2513.9 | 2533.4 | 2199.7 | 2272.6 | 2319.6 | 2311.5 | 2285.5 | 2280.7 |
| 60°   | 15005.9 | 5463.6 | 2421.6 | 2522.0 | 2484.8 | 2112.2 | 2193.2 | 2253.1 | 2258.0 | 2253.1 | 2249.9 |
| 62.5° | 15606.8 | 5287.0 | 2340.6 | 2499.4 | 2398.9 | 2036.1 | 2110.6 | 2198.1 | 2199.7 | 2209.4 | 2207.8 |
| 65°   | 15096.6 | 4759.0 | 2190.0 | 2420.0 | 2254.8 | 1972.9 | 2039.3 | 2134.9 | 2110.6 | 2154.3 | 2154.3 |
| 66°   | 14600.9 | 4454.5 | 2115.5 | 2368.2 | 2193.2 | 1948.6 | 2016.7 | 2102.5 | 2071.7 | 2131.7 | 2131.7 |
| 67.5° | 13588.5 | 3941.0 | 1981.0 | 2258.0 | 2105.7 | 1914.6 | 1990.7 | 2049.1 | 2006.9 | 2096.0 | 2089.5 |
| 70°   | 11738.7 | 3048.5 | 1710.5 | 2008.6 | 1961.6 | 1864.4 | 1955.1 | 1942.1 | 1880.6 | 2016.7 | 1990.7 |
| 72.5° | 9897.0  | 2316.3 | 1373.6 | 1681.4 | 1742.9 | 1801.2 | 1904.9 | 1806.1 | 1728.3 | 1823.9 | 1767.2 |
| 75°   | 7679.5  | 1741.3 | 1085.3 | 1307.2 | 1472.4 | 1702.4 | 1845.0 | 1649.0 | 1537.2 | 1527.5 | 1496.7 |
| 77.5° | 4151.6  | 1195.4 | 860.1  | 997.8  | 1169.5 | 1579.3 | 1804.5 | 1480.5 | 1312.0 | 1273.2 | 1248.9 |
| 80°   | 1644.1  | 777.5  | 625.2  | 756.4  | 818.0  | 1401.1 | 1707.3 | 1284.5 | 1082.0 | 1043.2 | 1005.9 |
| 82.5° | 678.7   | 460.0  | 403.3  | 507.0  | 532.9  | 1198.7 | 1532.3 | 1052.9 | 835.8  | 1156.5 | 1227.8 |
| 85°   | 291.6   | 252.7  | 239.7  | 262.4  | 301.3  | 840.7  | 1219.7 | 803.4  | 902.2  | 805.0  | 639.8  |
| 87.5° | 87.5    | 106.9  | 102.0  | 100.4  | 110.1  | 200.9  | 649.5  | 447.1  | 662.5  | 251.1  | 187.9  |
| 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)