

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: P193445

Luminaire Tested: **GAN-AF-07-LED-U-5WQ-8030-1200-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193445  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-07-LED-U-5WQ-8030-1200-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39697 lumens  
Efficiency: N/A  
Efficacy: 88.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B5 - U0 - G4

Input Watts (W): 448  
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

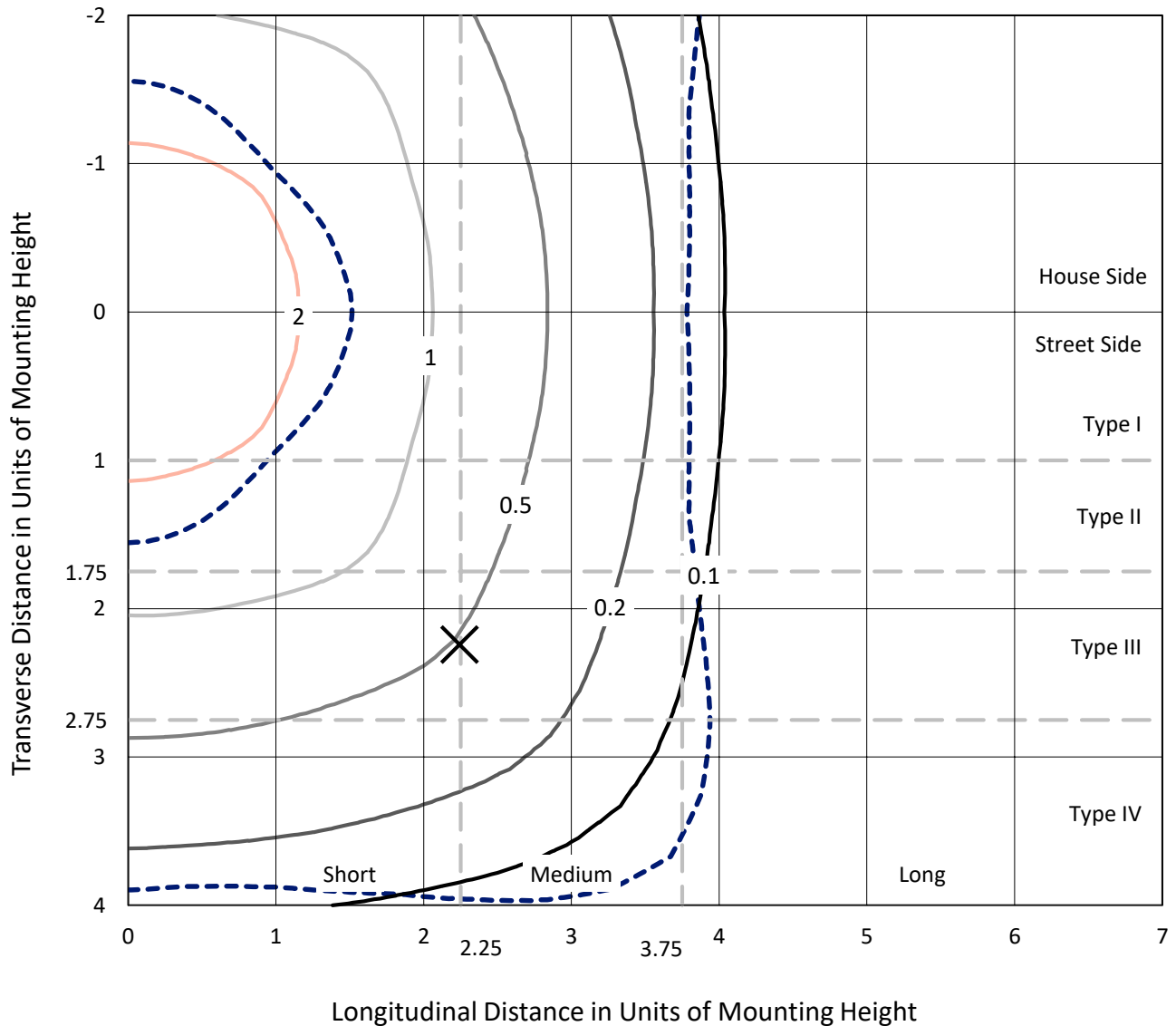


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

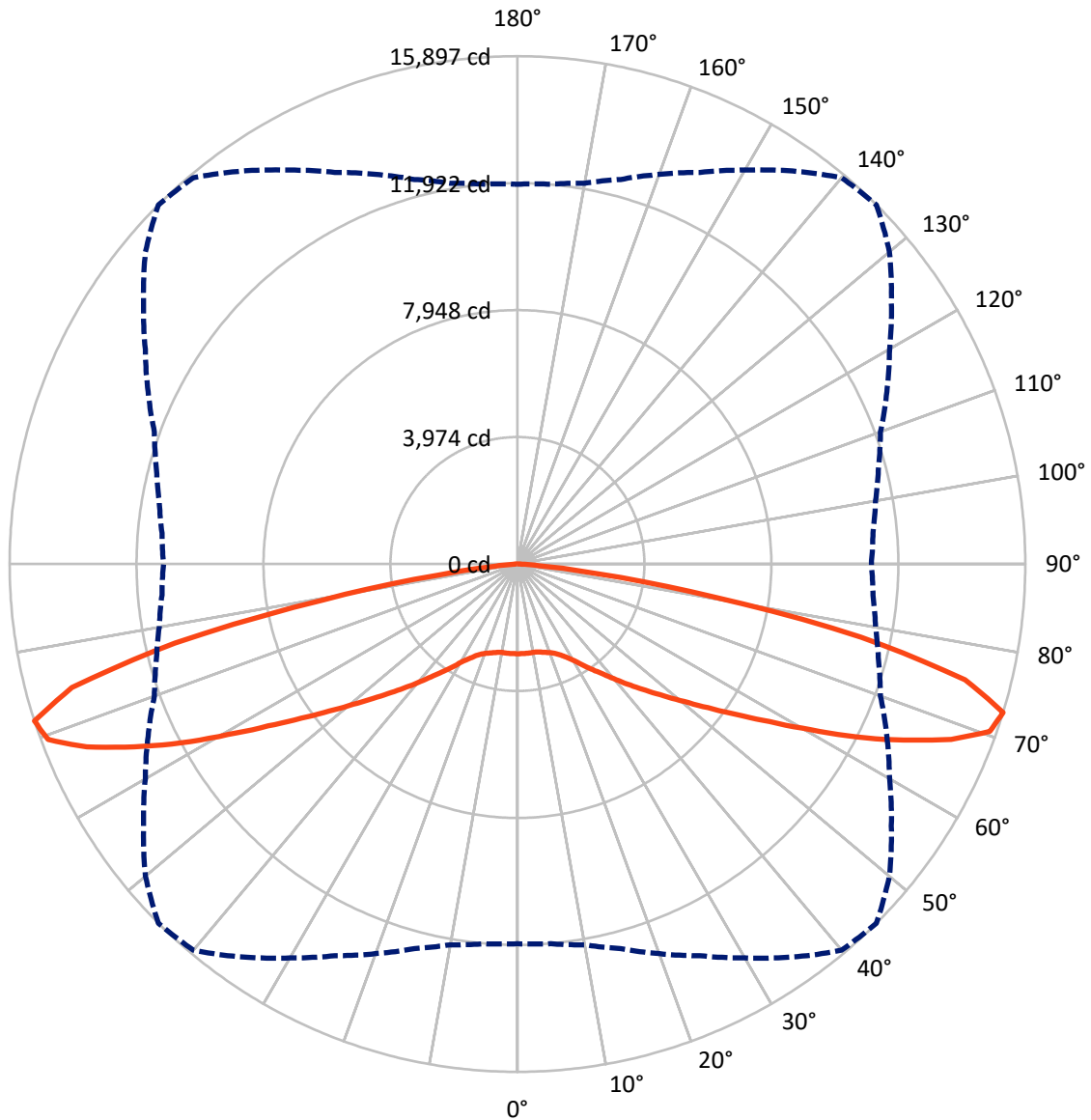


Based on 30 foot mounting height. Maximum calculated value = 3.1 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 19848.5  | 0.0    | 19848.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 19848.5  | 0.0    | 19848.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 39697.0  | 0.0    | 39697.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 268.4   | 0.7       |
| 10°-20°   | 815.3   | 2.1       |
| 20°-30°   | 1489.8  | 3.8       |
| 30°-40°   | 2568.7  | 6.5       |
| 40°-50°   | 4391.2  | 11.1      |
| 50°-60°   | 7117.5  | 17.9      |
| 60°-70°   | 11807.7 | 29.7      |
| 70°-80°   | 10399.8 | 26.2      |
| 80°-90°   | 838.5   | 2.1       |
| 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°    | 39697.0 | 100.0     |
| 0°-180°   | 39697.0 | 100.0     |



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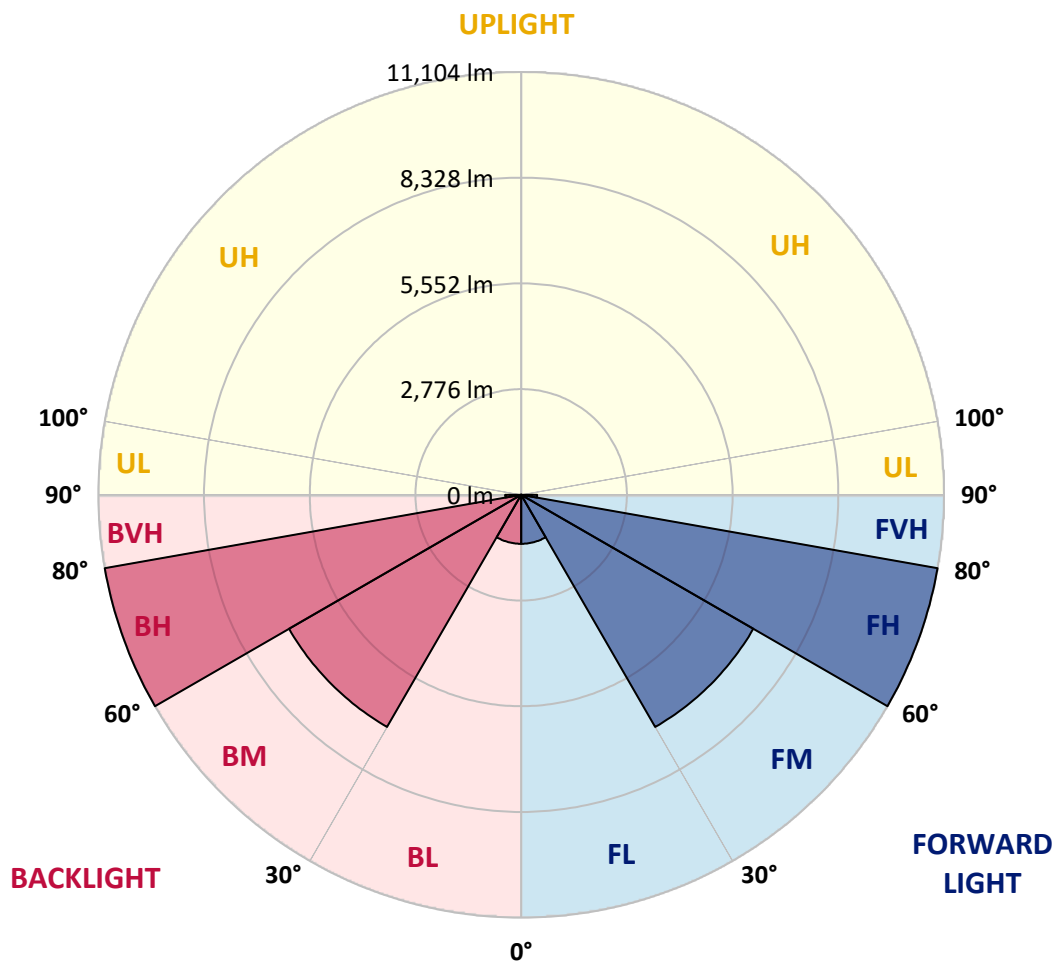
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1286.8  | 3.2       |                         |      |          |
| FM   | (30°-60°)   | 7038.7  | 17.7      |                         |      |          |
| FH   | (60°-80°)   | 11103.8 | 28.0      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 419.3   | 1.1       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1286.8  | 3.2       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 7038.7  | 17.7      | B4/8500                 |      |          |
| BH   | (60°-80°)   | 11103.8 | 28.0      | B5                      |      | G4/12000 |
| BVH  | (80°-90°)   | 419.3   | 1.1       |                         |      | G3/500   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B5-U0-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 10°     | 15°     | 20°     | 25°     | 30°     | 35°     | 40°     | 45°     | 50°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2811.2  | 2811.2  | 2811.2  | 2811.2  | 2811.2  | 2811.2  | 2811.2  | 2811.2  | 2811.2  | 2811.2  | 2811.2  |
| 2.5°  | 2811.2  | 2813.0  | 2814.8  | 2813.0  | 2813.0  | 2811.2  | 2809.3  | 2811.2  | 2809.3  | 2805.7  | 2807.5  |
| 5°    | 2820.3  | 2823.9  | 2823.9  | 2820.3  | 2822.1  | 2820.3  | 2816.6  | 2818.4  | 2814.8  | 2809.3  | 2809.3  |
| 7.5°  | 2831.2  | 2833.0  | 2833.0  | 2829.4  | 2831.2  | 2827.6  | 2823.9  | 2822.1  | 2818.4  | 2811.2  | 2805.7  |
| 10°   | 2847.6  | 2849.4  | 2847.6  | 2843.9  | 2843.9  | 2838.5  | 2829.4  | 2825.7  | 2818.4  | 2807.5  | 2802.1  |
| 12.5° | 2865.8  | 2867.6  | 2865.8  | 2862.1  | 2860.3  | 2851.2  | 2843.9  | 2838.5  | 2833.0  | 2823.9  | 2814.8  |
| 15°   | 2891.3  | 2894.9  | 2891.3  | 2884.0  | 2878.5  | 2871.2  | 2867.6  | 2869.4  | 2871.2  | 2864.0  | 2854.9  |
| 17.5° | 2938.6  | 2940.4  | 2935.0  | 2918.6  | 2911.3  | 2904.0  | 2904.0  | 2907.7  | 2913.1  | 2909.5  | 2900.4  |
| 20°   | 3026.0  | 3020.5  | 3007.8  | 2987.8  | 2978.7  | 2965.9  | 2964.1  | 2965.9  | 2965.9  | 2964.1  | 2956.8  |
| 22.5° | 3135.2  | 3131.6  | 3115.2  | 3089.7  | 3077.0  | 3069.7  | 3058.8  | 3049.7  | 3047.9  | 3042.4  | 3035.1  |
| 25°   | 3266.3  | 3264.5  | 3244.5  | 3222.6  | 3213.5  | 3204.4  | 3195.3  | 3182.6  | 3171.7  | 3158.9  | 3151.6  |
| 27.5° | 3433.8  | 3426.6  | 3397.4  | 3386.5  | 3373.8  | 3368.3  | 3355.6  | 3341.0  | 3331.9  | 3315.5  | 3306.4  |
| 30°   | 3617.7  | 3617.7  | 3594.1  | 3590.4  | 3590.4  | 3577.7  | 3563.1  | 3537.6  | 3521.2  | 3504.9  | 3499.4  |
| 32.5° | 3801.6  | 3803.4  | 3779.8  | 3787.1  | 3792.5  | 3801.6  | 3805.3  | 3796.2  | 3785.2  | 3783.4  | 3772.5  |
| 35°   | 4067.4  | 4060.2  | 4036.5  | 4042.0  | 4040.1  | 4038.3  | 4038.3  | 4058.3  | 4062.0  | 4065.6  | 4043.8  |
| 37.5° | 4397.0  | 4397.0  | 4373.3  | 4373.3  | 4362.4  | 4351.5  | 4336.9  | 4349.7  | 4369.7  | 4375.1  | 4360.6  |
| 40°   | 4773.9  | 4786.6  | 4757.5  | 4755.7  | 4759.3  | 4724.7  | 4708.3  | 4728.4  | 4741.1  | 4763.0  | 4746.6  |
| 42.5° | 5218.1  | 5209.0  | 5179.9  | 5176.3  | 5156.2  | 5145.3  | 5130.7  | 5147.1  | 5167.2  | 5181.7  | 5187.2  |
| 45°   | 5644.2  | 5636.9  | 5604.1  | 5604.1  | 5584.1  | 5575.0  | 5582.3  | 5609.6  | 5618.7  | 5638.7  | 5658.7  |
| 47.5° | 6064.8  | 6055.7  | 6033.8  | 6042.9  | 6044.7  | 6061.1  | 6084.8  | 6110.3  | 6135.8  | 6163.1  | 6172.2  |
| 50°   | 6494.4  | 6496.3  | 6472.6  | 6494.4  | 6521.8  | 6567.3  | 6631.0  | 6672.9  | 6725.7  | 6760.3  | 6771.2  |
| 52.5° | 6885.9  | 6893.2  | 6918.7  | 6969.6  | 7024.3  | 7113.5  | 7222.7  | 7324.7  | 7412.1  | 7470.3  | 7466.7  |
| 55°   | 7355.6  | 7366.6  | 7428.5  | 7515.9  | 7605.1  | 7739.8  | 7901.8  | 8082.1  | 8227.8  | 8311.5  | 8258.7  |
| 57.5° | 7956.5  | 7980.1  | 8049.3  | 8167.7  | 8300.6  | 8475.4  | 8697.5  | 8968.8  | 9194.5  | 9307.4  | 9221.9  |
| 60°   | 8781.2  | 8795.8  | 8879.6  | 9010.7  | 9170.9  | 9387.5  | 9684.3  | 10048.5 | 10367.1 | 10516.4 | 10418.1 |
| 62.5° | 9868.2  | 9895.5  | 9962.9  | 10095.8 | 10259.7 | 10505.5 | 10867.8 | 11322.9 | 11719.9 | 11927.4 | 11705.3 |
| 65°   | 11166.4 | 11253.8 | 11310.2 | 11444.9 | 11597.9 | 11858.2 | 12236.9 | 12724.9 | 13150.9 | 13287.5 | 13030.8 |
| 67.5° | 12451.8 | 12528.3 | 12626.6 | 12781.3 | 12936.1 | 13229.2 | 13580.6 | 14054.0 | 14521.9 | 14645.7 | 14247.0 |
| 70°   | 13014.4 | 13058.1 | 13211.0 | 13422.2 | 13719.0 | 14064.9 | 14470.9 | 15002.6 | 15581.6 | 15683.5 | 15177.4 |
| 72.5° | 11887.4 | 11931.1 | 12102.2 | 12460.9 | 12978.0 | 13527.8 | 14236.1 | 15017.2 | 15781.8 | 15896.6 | 15199.2 |
| 75°   | 8990.6  | 8919.6  | 9172.7  | 9647.9  | 10345.2 | 11111.7 | 12102.2 | 13221.9 | 14327.1 | 14470.9 | 13638.9 |
| 77.5° | 4646.4  | 4637.3  | 4828.5  | 5418.4  | 6250.5  | 7122.6  | 8213.2  | 9478.6  | 10560.1 | 10997.0 | 10319.7 |
| 80°   | 1309.1  | 1323.7  | 1414.7  | 1707.8  | 2193.9  | 2823.9  | 3676.0  | 4861.3  | 5746.1  | 6197.7  | 5819.0  |
| 82.5° | 513.4   | 553.5   | 588.1   | 642.7   | 706.4   | 799.3   | 1066.9  | 1587.7  | 2130.2  | 2545.3  | 2084.7  |
| 85°   | 183.9   | 196.6   | 278.6   | 329.5   | 335.0   | 353.2   | 402.4   | 469.7   | 566.2   | 675.5   | 555.3   |
| 87.5° | 69.2    | 76.5    | 89.2    | 147.5   | 145.7   | 132.9   | 162.0   | 169.3   | 127.4   | 116.5   | 143.8   |
| 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):**

|       | 55°     | 60°     | 65°     | 70°     | 75°     | 80°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2811.2  | 2811.2  | 2811.2  | 2811.2  | 2811.2  | 2811.2  | 2811.2  | 2811.2  |
| 2.5°  | 2803.9  | 2805.7  | 2805.7  | 2807.5  | 2809.3  | 2809.3  | 2813.0  | 2813.0  |
| 5°    | 2805.7  | 2805.7  | 2802.1  | 2803.9  | 2802.1  | 2802.1  | 2803.9  | 2803.9  |
| 7.5°  | 2802.1  | 2800.2  | 2796.6  | 2794.8  | 2791.1  | 2791.1  | 2791.1  | 2791.1  |
| 10°   | 2796.6  | 2794.8  | 2791.1  | 2789.3  | 2787.5  | 2787.5  | 2787.5  | 2787.5  |
| 12.5° | 2811.2  | 2805.7  | 2802.1  | 2800.2  | 2800.2  | 2800.2  | 2800.2  | 2800.2  |
| 15°   | 2849.4  | 2836.7  | 2827.6  | 2827.6  | 2829.4  | 2833.0  | 2833.0  | 2836.7  |
| 17.5° | 2896.7  | 2882.2  | 2873.1  | 2865.8  | 2869.4  | 2874.9  | 2878.5  | 2882.2  |
| 20°   | 2953.2  | 2945.9  | 2933.2  | 2925.9  | 2925.9  | 2933.2  | 2936.8  | 2938.6  |
| 22.5° | 3031.5  | 3026.0  | 3020.5  | 3011.4  | 3011.4  | 3015.1  | 3022.4  | 3022.4  |
| 25°   | 3148.0  | 3144.4  | 3140.7  | 3133.4  | 3131.6  | 3131.6  | 3135.2  | 3138.9  |
| 27.5° | 3293.7  | 3295.5  | 3291.8  | 3290.0  | 3284.5  | 3282.7  | 3288.2  | 3286.4  |
| 30°   | 3488.5  | 3497.6  | 3506.7  | 3499.4  | 3490.3  | 3484.8  | 3479.4  | 3472.1  |
| 32.5° | 3752.5  | 3741.5  | 3734.3  | 3721.5  | 3705.1  | 3690.6  | 3679.6  | 3666.9  |
| 35°   | 4001.9  | 3983.7  | 3976.4  | 3987.3  | 3985.5  | 3976.4  | 3963.7  | 3952.7  |
| 37.5° | 4307.8  | 4304.1  | 4307.8  | 4327.8  | 4324.2  | 4333.3  | 4307.8  | 4306.0  |
| 40°   | 4693.8  | 4697.4  | 4722.9  | 4746.6  | 4759.3  | 4772.1  | 4757.5  | 4742.9  |
| 42.5° | 5141.7  | 5139.8  | 5148.9  | 5181.7  | 5203.6  | 5218.1  | 5187.2  | 5183.5  |
| 45°   | 5615.0  | 5602.3  | 5609.6  | 5636.9  | 5658.7  | 5675.1  | 5640.5  | 5640.5  |
| 47.5° | 6135.8  | 6113.9  | 6090.2  | 6121.2  | 6133.9  | 6144.9  | 6117.6  | 6108.5  |
| 50°   | 6716.6  | 6671.1  | 6620.1  | 6632.8  | 6632.8  | 6629.2  | 6594.6  | 6592.8  |
| 52.5° | 7382.9  | 7299.2  | 7206.3  | 7171.7  | 7151.7  | 7129.9  | 7069.8  | 7040.7  |
| 55°   | 8149.5  | 8023.8  | 7878.2  | 7789.0  | 7741.6  | 7681.5  | 7581.4  | 7554.1  |
| 57.5° | 9045.2  | 8848.6  | 8597.4  | 8488.1  | 8382.5  | 8284.2  | 8173.1  | 8142.2  |
| 60°   | 10106.7 | 9817.2  | 9484.0  | 9281.9  | 9167.2  | 9072.6  | 8957.9  | 8952.4  |
| 62.5° | 11290.2 | 10833.2 | 10456.3 | 10274.2 | 10190.5 | 10106.7 | 9997.5  | 10012.0 |
| 65°   | 12493.7 | 12016.6 | 11663.4 | 11515.9 | 11437.7 | 11368.5 | 11259.2 | 11275.6 |
| 67.5° | 13680.8 | 13242.0 | 12854.2 | 12703.0 | 12615.6 | 12528.3 | 12429.9 | 12446.3 |
| 70°   | 14532.8 | 13988.5 | 13551.5 | 13216.5 | 13007.1 | 12770.4 | 12617.5 | 12579.2 |
| 72.5° | 14288.9 | 13449.5 | 12755.8 | 12091.3 | 11701.7 | 11384.9 | 11170.0 | 11077.2 |
| 75°   | 12366.2 | 11219.2 | 10327.0 | 9511.3  | 9052.5  | 8679.3  | 8408.0  | 8238.7  |
| 77.5° | 9183.6  | 7894.6  | 6840.4  | 5900.9  | 5158.0  | 4659.2  | 4307.8  | 4080.2  |
| 80°   | 5027.0  | 3823.5  | 2794.8  | 1964.5  | 1443.8  | 1199.8  | 1059.6  | 992.3   |
| 82.5° | 1565.8  | 1010.5  | 744.7   | 642.7   | 597.2   | 571.7   | 529.8   | 462.5   |
| 85°   | 498.9   | 437.0   | 406.0   | 387.8   | 369.6   | 322.3   | 222.1   | 202.1   |
| 87.5° | 193.0   | 198.5   | 196.6   | 185.7   | 189.4   | 136.6   | 109.2   | 96.5    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)