

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: P192644

Luminaire Tested: **GAN-AF-06-LED-U-5WQ-7030-1200-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192644  
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-06-LED-U-5WQ-7030-1200-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 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: 39785.7 lumens  
Efficiency: N/A  
Efficacy: 104.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B5 - U0 - G4

Input Watts (W): 382  
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

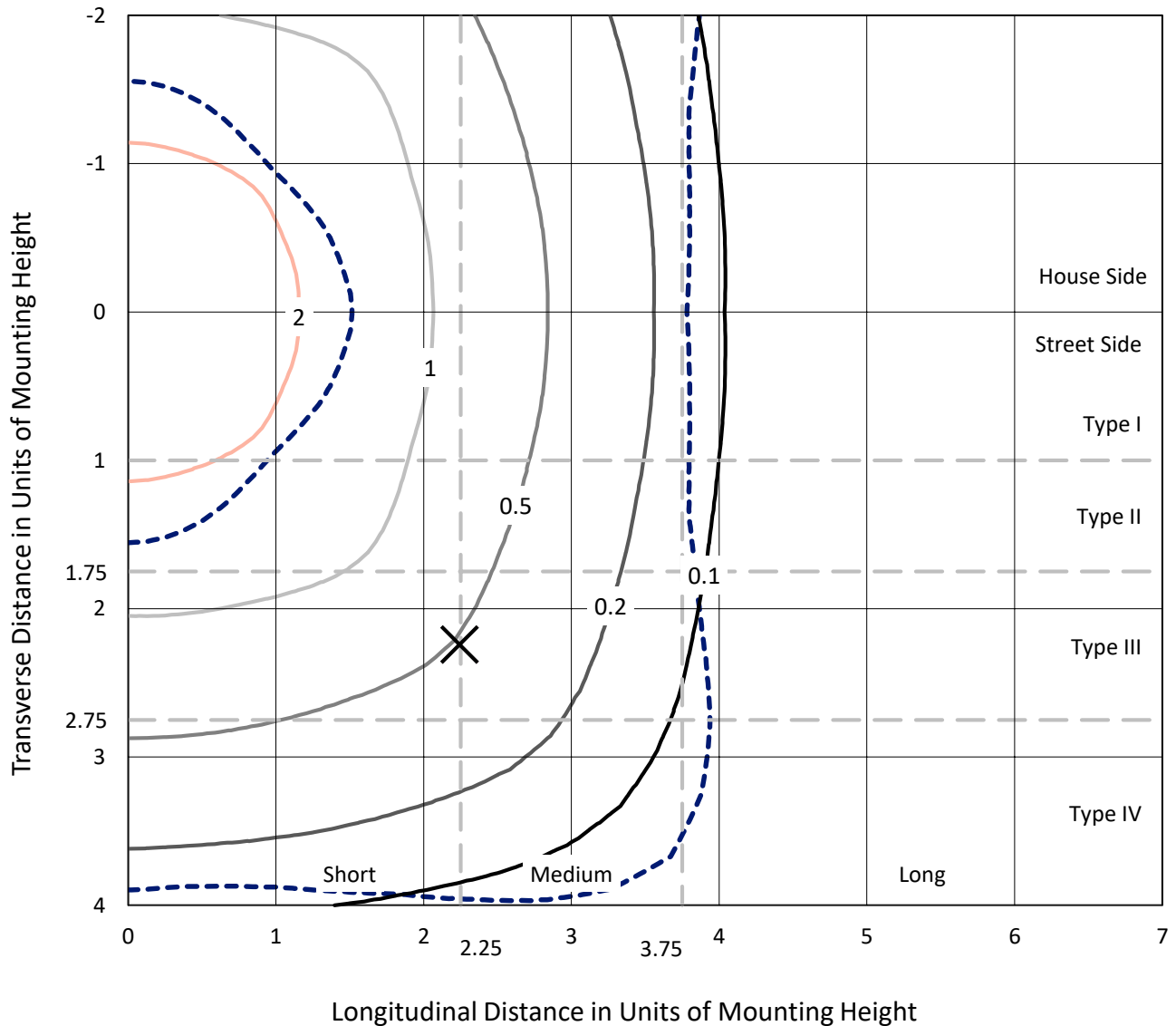


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

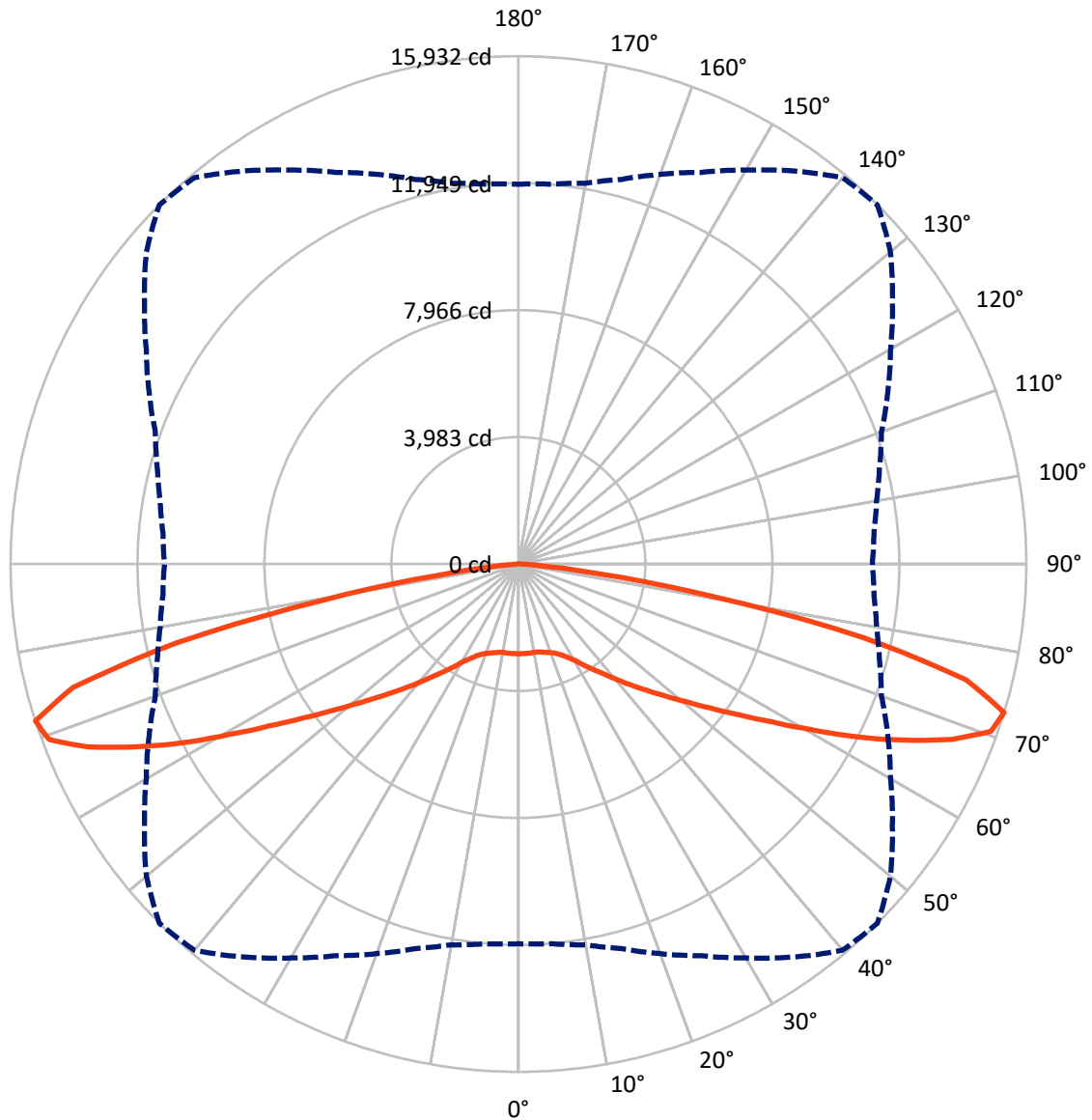


Based on 30 foot mounting height. Maximum calculated value = 3.1 fc  
 Type V - Short - Semi-Cutoff

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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    | 19892.8  | 0.0    | 19892.8 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 19892.8  | 0.0    | 19892.8 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 39785.7  | 0.0    | 39785.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 269.0   | 0.7       |
| 10°-20°   | 817.1   | 2.1       |
| 20°-30°   | 1493.1  | 3.8       |
| 30°-40°   | 2574.4  | 6.5       |
| 40°-50°   | 4401.0  | 11.1      |
| 50°-60°   | 7133.4  | 17.9      |
| 60°-70°   | 11834.1 | 29.7      |
| 70°-80°   | 10423.1 | 26.2      |
| 80°-90°   | 840.4   | 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°    | 39785.7 | 100.0     |
| 0°-180°   | 39785.7 | 100.0     |



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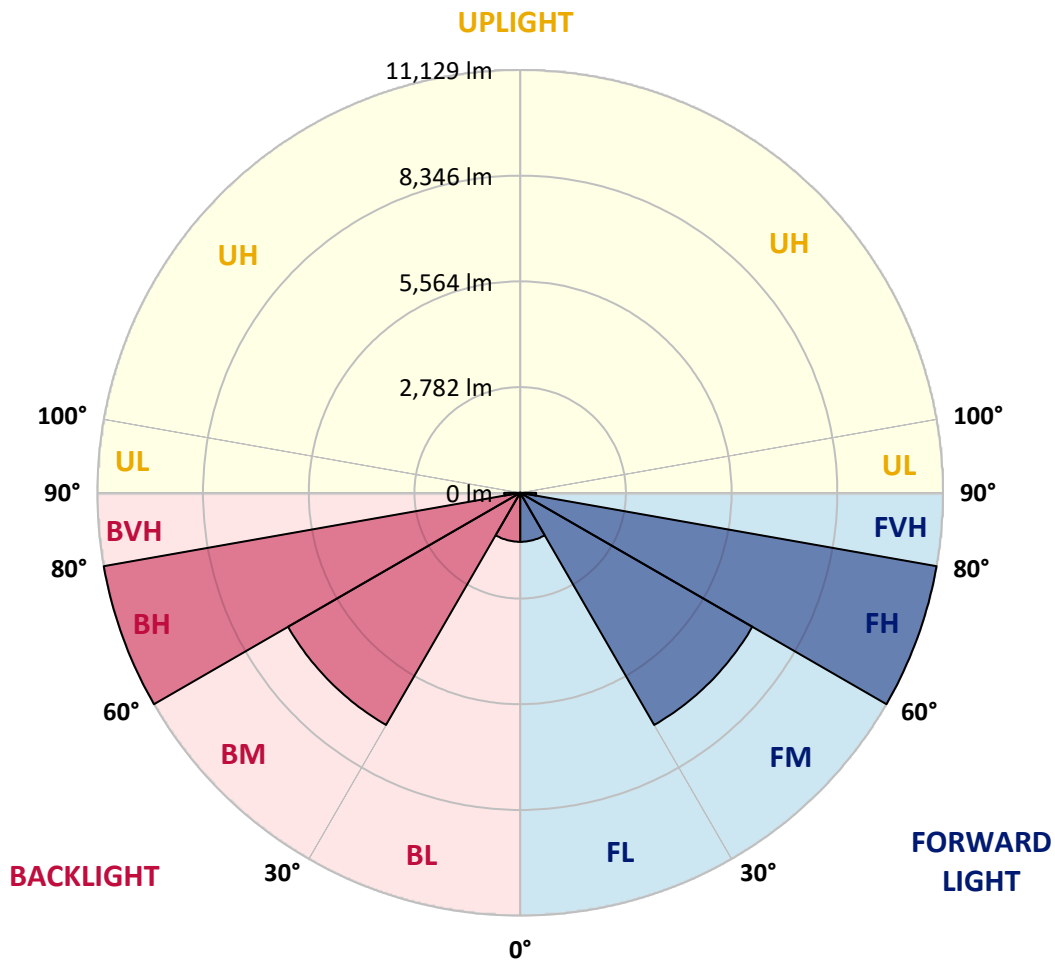
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1289.6  | 3.2       |                         |      |          |
| FM   | (30°-60°)   | 7054.4  | 17.7      |                         |      |          |
| FH   | (60°-80°)   | 11128.6 | 28.0      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 420.2   | 1.1       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1289.6  | 3.2       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 7054.4  | 17.7      | B4/8500                 |      |          |
| BH   | (60°-80°)   | 11128.6 | 28.0      | B5                      |      | G4/12000 |
| BVH  | (80°-90°)   | 420.2   | 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°    | 2817.5  | 2817.5  | 2817.5  | 2817.5  | 2817.5  | 2817.5  | 2817.5  | 2817.5  | 2817.5  | 2817.5  | 2817.5  |
| 2.5°  | 2817.5  | 2819.2  | 2821.1  | 2819.2  | 2819.2  | 2817.5  | 2815.6  | 2817.5  | 2815.6  | 2812.0  | 2813.8  |
| 5°    | 2826.5  | 2830.3  | 2830.3  | 2826.5  | 2828.4  | 2826.5  | 2822.9  | 2824.8  | 2821.1  | 2815.6  | 2815.6  |
| 7.5°  | 2837.5  | 2839.3  | 2839.3  | 2835.8  | 2837.5  | 2833.8  | 2830.3  | 2828.4  | 2824.8  | 2817.5  | 2812.0  |
| 10°   | 2854.0  | 2855.7  | 2854.0  | 2850.2  | 2850.2  | 2844.8  | 2835.8  | 2832.0  | 2824.8  | 2813.8  | 2808.3  |
| 12.5° | 2872.2  | 2874.1  | 2872.2  | 2868.5  | 2866.8  | 2857.5  | 2850.2  | 2844.8  | 2839.3  | 2830.3  | 2821.1  |
| 15°   | 2897.8  | 2901.4  | 2897.8  | 2890.5  | 2885.0  | 2877.7  | 2874.1  | 2875.8  | 2877.7  | 2870.3  | 2861.3  |
| 17.5° | 2945.2  | 2947.0  | 2941.5  | 2925.1  | 2917.8  | 2910.5  | 2910.5  | 2914.2  | 2919.6  | 2916.0  | 2906.9  |
| 20°   | 3032.8  | 3027.2  | 3014.6  | 2994.5  | 2985.3  | 2972.5  | 2970.8  | 2972.5  | 2972.5  | 2970.8  | 2963.4  |
| 22.5° | 3142.3  | 3138.6  | 3122.2  | 3096.6  | 3083.9  | 3076.5  | 3065.6  | 3056.5  | 3054.7  | 3049.2  | 3041.9  |
| 25°   | 3273.6  | 3271.8  | 3251.8  | 3229.8  | 3220.8  | 3211.5  | 3202.5  | 3189.8  | 3178.8  | 3166.0  | 3158.6  |
| 27.5° | 3441.5  | 3434.2  | 3405.1  | 3394.0  | 3381.2  | 3375.8  | 3363.0  | 3348.5  | 3339.3  | 3322.9  | 3313.9  |
| 30°   | 3625.8  | 3625.8  | 3602.1  | 3598.5  | 3598.5  | 3585.7  | 3571.0  | 3545.6  | 3529.1  | 3512.6  | 3507.2  |
| 32.5° | 3810.1  | 3811.9  | 3788.2  | 3795.5  | 3801.0  | 3810.1  | 3813.8  | 3804.6  | 3793.7  | 3791.9  | 3780.9  |
| 35°   | 4076.6  | 4069.3  | 4045.6  | 4051.0  | 4049.1  | 4047.3  | 4047.3  | 4067.4  | 4071.1  | 4074.8  | 4052.9  |
| 37.5° | 4406.9  | 4406.9  | 4383.1  | 4383.1  | 4372.1  | 4361.2  | 4346.6  | 4359.3  | 4379.4  | 4384.9  | 4370.4  |
| 40°   | 4784.6  | 4797.3  | 4768.1  | 4766.3  | 4769.9  | 4735.3  | 4718.8  | 4738.9  | 4751.6  | 4773.6  | 4757.1  |
| 42.5° | 5229.8  | 5220.6  | 5191.5  | 5187.8  | 5167.8  | 5156.8  | 5142.2  | 5158.6  | 5178.7  | 5193.3  | 5198.8  |
| 45°   | 5656.8  | 5649.5  | 5616.7  | 5616.7  | 5596.6  | 5587.4  | 5594.7  | 5622.2  | 5631.2  | 5651.3  | 5671.4  |
| 47.5° | 6078.3  | 6069.2  | 6047.3  | 6056.5  | 6058.2  | 6074.7  | 6098.5  | 6123.9  | 6149.4  | 6176.9  | 6185.9  |
| 50°   | 6508.9  | 6510.8  | 6487.0  | 6508.9  | 6536.3  | 6581.9  | 6645.8  | 6687.8  | 6740.7  | 6775.3  | 6786.3  |
| 52.5° | 6901.3  | 6908.6  | 6934.1  | 6985.2  | 7040.0  | 7129.3  | 7238.9  | 7341.0  | 7428.6  | 7487.0  | 7483.3  |
| 55°   | 7372.0  | 7382.9  | 7445.0  | 7532.7  | 7622.0  | 7757.1  | 7919.5  | 8100.2  | 8246.2  | 8330.0  | 8277.2  |
| 57.5° | 7974.3  | 7998.0  | 8067.2  | 8185.9  | 8319.1  | 8494.3  | 8716.9  | 8988.8  | 9215.0  | 9328.2  | 9242.5  |
| 60°   | 8800.9  | 8815.5  | 8899.3  | 9030.9  | 9191.3  | 9408.6  | 9705.9  | 10070.9 | 10390.2 | 10539.9 | 10441.4 |
| 62.5° | 9890.2  | 9917.6  | 9985.1  | 10118.4 | 10282.6 | 10528.9 | 10892.0 | 11348.2 | 11746.0 | 11954.0 | 11731.3 |
| 65°   | 11191.3 | 11279.0 | 11335.4 | 11470.5 | 11623.8 | 11884.6 | 12264.3 | 12753.3 | 13180.3 | 13317.2 | 13059.9 |
| 67.5° | 12479.6 | 12556.2 | 12654.7 | 12809.9 | 12965.0 | 13258.7 | 13611.0 | 14085.3 | 14554.3 | 14678.4 | 14278.8 |
| 70°   | 13043.5 | 13087.3 | 13240.5 | 13452.2 | 13749.6 | 14096.3 | 14503.3 | 15036.1 | 15616.4 | 15718.6 | 15211.3 |
| 72.5° | 11913.9 | 11957.7 | 12129.2 | 12488.8 | 13007.0 | 13558.0 | 14267.8 | 15050.7 | 15817.1 | 15932.0 | 15233.2 |
| 75°   | 9010.7  | 8939.6  | 9193.2  | 9669.5  | 10368.3 | 11136.6 | 12129.2 | 13251.5 | 14359.1 | 14503.3 | 13669.3 |
| 77.5° | 4656.8  | 4647.7  | 4839.3  | 5430.5  | 6264.4  | 7138.5  | 8231.5  | 9499.8  | 10583.6 | 11021.6 | 10342.8 |
| 80°   | 1311.9  | 1326.6  | 1417.8  | 1711.6  | 2198.9  | 2830.3  | 3684.2  | 4872.1  | 5758.9  | 6211.5  | 5831.9  |
| 82.5° | 514.6   | 554.7   | 589.5   | 644.2   | 708.0   | 801.1   | 1069.3  | 1591.3  | 2134.9  | 2550.9  | 2089.4  |
| 85°   | 184.3   | 197.1   | 279.1   | 330.3   | 335.8   | 354.0   | 403.2   | 470.8   | 567.5   | 677.0   | 556.5   |
| 87.5° | 69.4    | 76.6    | 89.4    | 147.8   | 146.0   | 133.2   | 162.4   | 169.7   | 127.8   | 116.8   | 144.1   |
| 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°    | 2817.5  | 2817.5  | 2817.5  | 2817.5  | 2817.5  | 2817.5  | 2817.5  | 2817.5  |
| 2.5°  | 2810.1  | 2812.0  | 2812.0  | 2813.8  | 2815.6  | 2815.6  | 2819.2  | 2819.2  |
| 5°    | 2812.0  | 2812.0  | 2808.3  | 2810.1  | 2808.3  | 2808.3  | 2810.1  | 2810.1  |
| 7.5°  | 2808.3  | 2806.6  | 2802.8  | 2801.0  | 2797.4  | 2797.4  | 2797.4  | 2797.4  |
| 10°   | 2802.8  | 2801.0  | 2797.4  | 2795.5  | 2793.8  | 2793.8  | 2793.8  | 2793.8  |
| 12.5° | 2817.5  | 2812.0  | 2808.3  | 2806.6  | 2806.6  | 2806.6  | 2806.6  | 2806.6  |
| 15°   | 2855.7  | 2843.0  | 2833.8  | 2833.8  | 2835.8  | 2839.3  | 2839.3  | 2843.0  |
| 17.5° | 2903.2  | 2888.6  | 2879.5  | 2872.2  | 2875.8  | 2881.2  | 2885.0  | 2888.6  |
| 20°   | 2959.8  | 2952.5  | 2939.7  | 2932.4  | 2932.4  | 2939.7  | 2943.3  | 2945.2  |
| 22.5° | 3038.3  | 3032.8  | 3027.2  | 3018.2  | 3018.2  | 3021.8  | 3029.1  | 3029.1  |
| 25°   | 3155.1  | 3151.4  | 3147.8  | 3140.4  | 3138.6  | 3138.6  | 3142.3  | 3145.9  |
| 27.5° | 3301.0  | 3302.8  | 3299.2  | 3297.3  | 3291.9  | 3290.1  | 3295.6  | 3293.7  |
| 30°   | 3496.3  | 3505.4  | 3514.6  | 3507.2  | 3498.1  | 3492.6  | 3487.1  | 3479.8  |
| 32.5° | 3760.8  | 3749.9  | 3742.5  | 3729.8  | 3713.4  | 3698.8  | 3687.8  | 3675.1  |
| 35°   | 4010.8  | 3992.6  | 3985.3  | 3996.2  | 3994.4  | 3985.3  | 3972.5  | 3961.5  |
| 37.5° | 4317.4  | 4313.8  | 4317.4  | 4337.5  | 4333.9  | 4342.9  | 4317.4  | 4315.6  |
| 40°   | 4704.2  | 4707.9  | 4733.4  | 4757.1  | 4769.9  | 4782.8  | 4768.1  | 4753.6  |
| 42.5° | 5153.1  | 5151.3  | 5160.5  | 5193.3  | 5215.2  | 5229.8  | 5198.8  | 5195.2  |
| 45°   | 5627.6  | 5614.9  | 5622.2  | 5649.5  | 5671.4  | 5687.8  | 5653.2  | 5653.2  |
| 47.5° | 6149.4  | 6127.6  | 6103.9  | 6134.9  | 6147.7  | 6158.6  | 6131.2  | 6122.2  |
| 50°   | 6731.6  | 6685.9  | 6634.9  | 6647.7  | 6647.7  | 6643.9  | 6609.3  | 6607.5  |
| 52.5° | 7399.5  | 7315.5  | 7222.5  | 7187.7  | 7167.7  | 7145.8  | 7085.6  | 7056.4  |
| 55°   | 8167.6  | 8041.8  | 7895.7  | 7806.3  | 7758.9  | 7698.7  | 7598.3  | 7571.0  |
| 57.5° | 9065.5  | 8868.3  | 8616.5  | 8507.0  | 8401.3  | 8302.7  | 8191.3  | 8160.3  |
| 60°   | 10129.3 | 9839.2  | 9505.2  | 9302.7  | 9187.7  | 9092.8  | 8977.9  | 8972.4  |
| 62.5° | 11315.4 | 10857.4 | 10479.6 | 10297.1 | 10213.2 | 10129.3 | 10019.8 | 10034.4 |
| 65°   | 12521.5 | 12043.4 | 11689.4 | 11541.7 | 11463.2 | 11393.9 | 11284.4 | 11300.8 |
| 67.5° | 13711.3 | 13271.5 | 12882.9 | 12731.4 | 12643.8 | 12556.2 | 12457.7 | 12474.1 |
| 70°   | 14565.4 | 14019.7 | 13581.8 | 13246.0 | 13036.2 | 12798.9 | 12645.6 | 12607.3 |
| 72.5° | 14320.8 | 13479.6 | 12784.3 | 12118.3 | 11727.8 | 11410.3 | 11194.9 | 11102.0 |
| 75°   | 12393.9 | 11244.2 | 10350.1 | 9532.6  | 9072.8  | 8698.6  | 8426.7  | 8257.0  |
| 77.5° | 9204.1  | 7912.2  | 6855.7  | 5914.1  | 5169.6  | 4669.6  | 4317.4  | 4089.3  |
| 80°   | 5038.2  | 3832.0  | 2801.0  | 1969.0  | 1447.0  | 1202.5  | 1062.0  | 994.5   |
| 82.5° | 1569.3  | 1012.8  | 746.4   | 644.2   | 598.5   | 572.9   | 531.0   | 463.5   |
| 85°   | 500.0   | 437.9   | 406.9   | 388.6   | 370.4   | 323.0   | 222.7   | 202.5   |
| 87.5° | 193.4   | 198.9   | 197.1   | 186.2   | 189.8   | 136.9   | 109.5   | 96.7    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)