

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: P193428

Luminaire Tested: **GAN-AF-10-LED-U-5WQ-8030-800**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P193428  
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-10-LED-U-5WQ-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 40913 lumens  
Efficiency: N/A  
Efficacy: 97.6 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B5 - U0 - G4

Input Watts (W): 419  
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

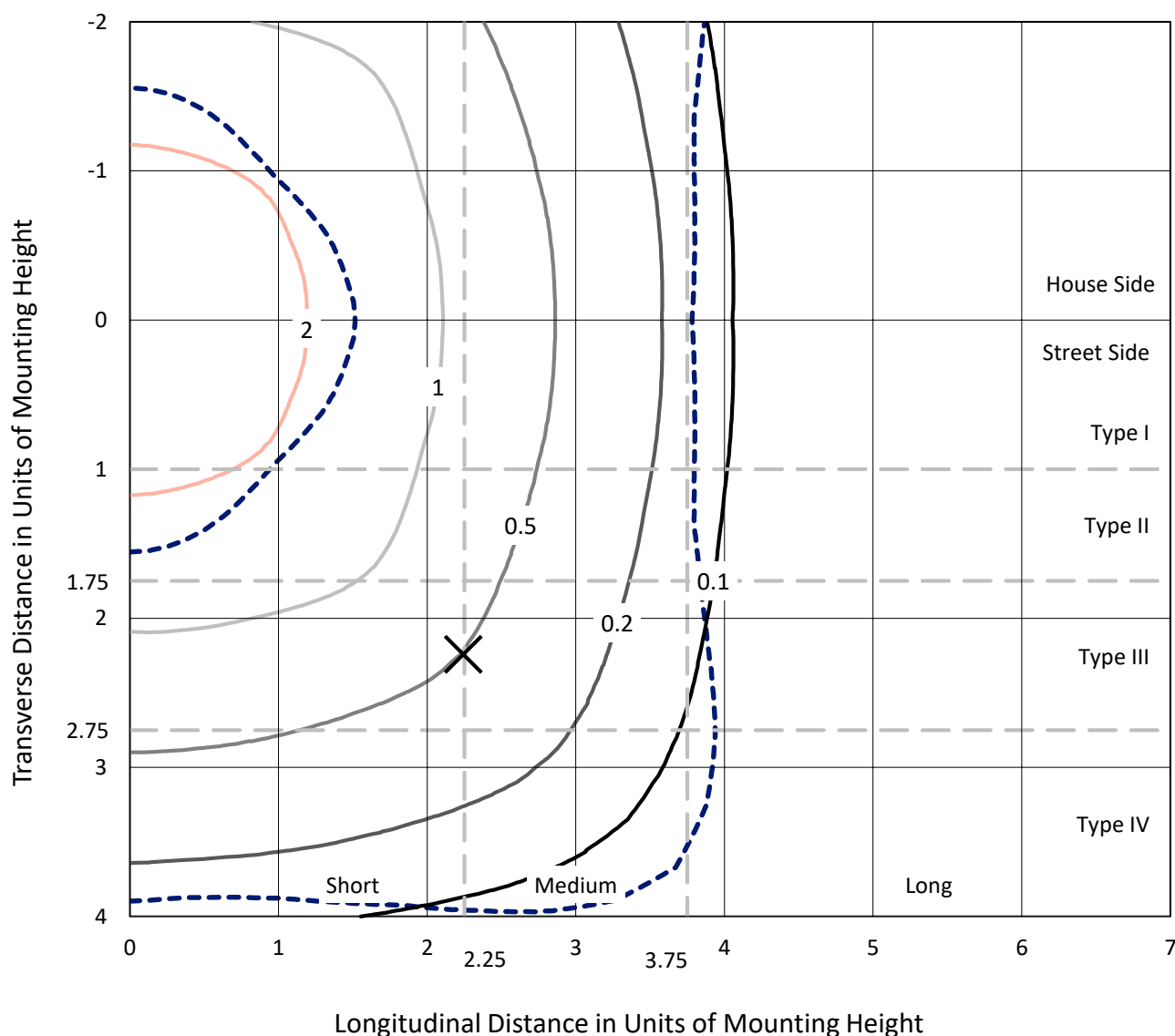


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

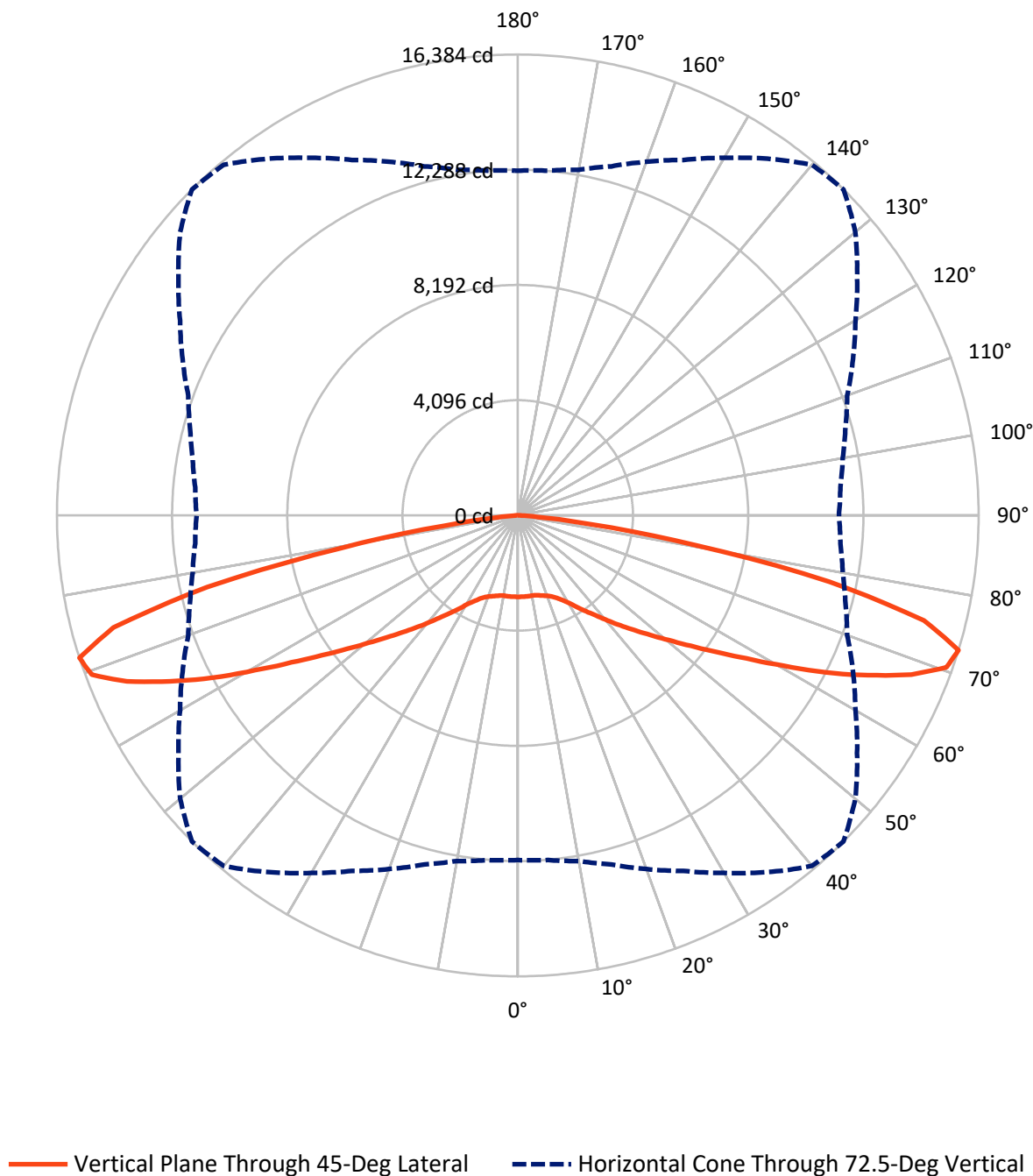


Based on 30 foot mounting height. Maximum calculated value = 3.2 fc  
 Type V - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 20456.5  | 0.0    | 20456.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 20456.5  | 0.0    | 20456.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 40913.0  | 0.0    | 40913.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 276.7   | 0.7       |
| 10°-20°   | 840.2   | 2.1       |
| 20°-30°   | 1535.5  | 3.8       |
| 30°-40°   | 2647.4  | 6.5       |
| 40°-50°   | 4525.7  | 11.1      |
| 50°-60°   | 7335.6  | 17.9      |
| 60°-70°   | 12169.4 | 29.7      |
| 70°-80°   | 10718.4 | 26.2      |
| 80°-90°   | 864.2   | 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°    | 40913.0 | 100.0     |
| 0°-180°   | 40913.0 | 100.0     |

**Coefficient of Utilization**



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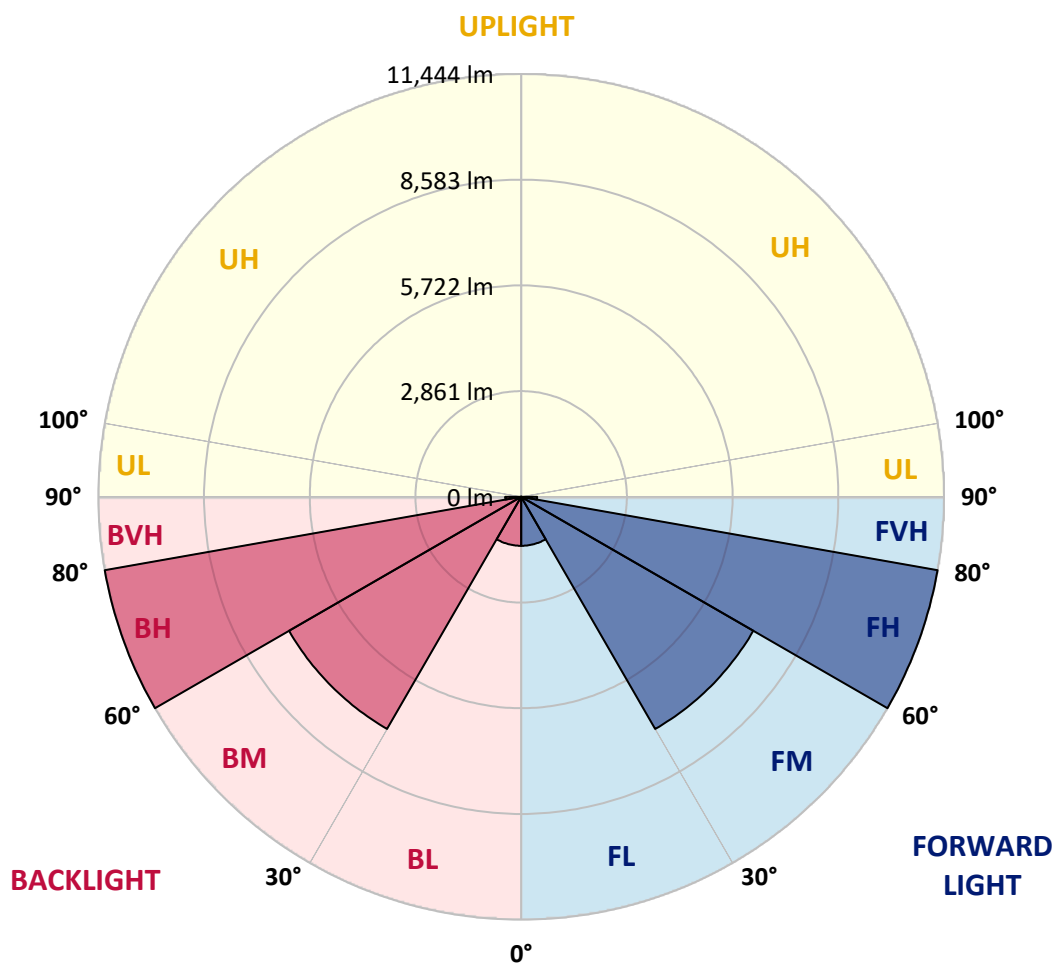
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1326.2  | 3.2       |                         |      |          |
| FM   | (30°-60°)   | 7254.3  | 17.7      |                         |      |          |
| FH   | (60°-80°)   | 11443.9 | 28.0      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 432.1   | 1.1       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1326.2  | 3.2       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 7254.3  | 17.7      | B4/8500                 |      |          |
| BH   | (60°-80°)   | 11443.9 | 28.0      | B5                      |      | G4/12000 |
| BVH  | (80°-90°)   | 432.1   | 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°    | 2897.3  | 2897.3  | 2897.3  | 2897.3  | 2897.3  | 2897.3  | 2897.3  | 2897.3  | 2897.3  | 2897.3  | 2897.3  |
| 2.5°  | 2897.3  | 2899.2  | 2901.0  | 2899.2  | 2899.2  | 2897.3  | 2895.4  | 2897.3  | 2895.4  | 2891.6  | 2893.5  |
| 5°    | 2906.7  | 2910.4  | 2910.4  | 2906.7  | 2908.5  | 2906.7  | 2902.9  | 2904.8  | 2901.0  | 2895.4  | 2895.4  |
| 7.5°  | 2917.9  | 2919.8  | 2919.8  | 2916.0  | 2917.9  | 2914.2  | 2910.4  | 2908.5  | 2904.8  | 2897.3  | 2891.6  |
| 10°   | 2934.8  | 2936.7  | 2934.8  | 2931.1  | 2931.1  | 2925.4  | 2916.0  | 2912.3  | 2904.8  | 2893.5  | 2887.9  |
| 12.5° | 2953.6  | 2955.4  | 2953.6  | 2949.8  | 2947.9  | 2938.6  | 2931.1  | 2925.4  | 2919.8  | 2910.4  | 2901.0  |
| 15°   | 2979.8  | 2983.6  | 2979.8  | 2972.3  | 2966.7  | 2959.2  | 2955.4  | 2957.3  | 2959.2  | 2951.7  | 2942.3  |
| 17.5° | 3028.6  | 3030.5  | 3024.9  | 3008.0  | 3000.5  | 2993.0  | 2993.0  | 2996.7  | 3002.4  | 2998.6  | 2989.2  |
| 20°   | 3118.7  | 3113.1  | 3099.9  | 3079.3  | 3069.9  | 3056.8  | 3054.9  | 3056.8  | 3056.8  | 3054.9  | 3047.4  |
| 22.5° | 3231.3  | 3227.5  | 3210.6  | 3184.4  | 3171.2  | 3163.7  | 3152.5  | 3143.1  | 3141.2  | 3135.6  | 3128.1  |
| 25°   | 3366.4  | 3364.5  | 3343.9  | 3321.4  | 3312.0  | 3302.6  | 3293.2  | 3280.1  | 3268.8  | 3255.7  | 3248.2  |
| 27.5° | 3539.0  | 3531.5  | 3501.5  | 3490.2  | 3477.1  | 3471.5  | 3458.3  | 3443.3  | 3433.9  | 3417.1  | 3407.7  |
| 30°   | 3728.6  | 3728.6  | 3704.2  | 3700.4  | 3700.4  | 3687.3  | 3672.3  | 3646.0  | 3629.1  | 3612.2  | 3606.6  |
| 32.5° | 3918.1  | 3920.0  | 3895.6  | 3903.1  | 3908.7  | 3918.1  | 3921.8  | 3912.4  | 3901.2  | 3899.3  | 3888.1  |
| 35°   | 4192.0  | 4184.5  | 4160.1  | 4165.8  | 4163.9  | 4162.0  | 4162.0  | 4182.7  | 4186.4  | 4190.2  | 4167.6  |
| 37.5° | 4531.7  | 4531.7  | 4507.3  | 4507.3  | 4496.0  | 4484.8  | 4469.8  | 4482.9  | 4503.5  | 4509.2  | 4494.2  |
| 40°   | 4920.1  | 4933.3  | 4903.2  | 4901.4  | 4905.1  | 4869.5  | 4852.6  | 4873.2  | 4886.3  | 4908.9  | 4892.0  |
| 42.5° | 5378.0  | 5368.6  | 5338.6  | 5334.8  | 5314.2  | 5302.9  | 5287.9  | 5304.8  | 5325.4  | 5340.4  | 5346.1  |
| 45°   | 5817.1  | 5809.6  | 5775.8  | 5775.8  | 5755.1  | 5745.8  | 5753.3  | 5781.4  | 5790.8  | 5811.4  | 5832.1  |
| 47.5° | 6250.5  | 6241.2  | 6218.6  | 6228.0  | 6229.9  | 6246.8  | 6271.2  | 6297.4  | 6323.7  | 6351.9  | 6361.2  |
| 50°   | 6693.4  | 6695.3  | 6670.9  | 6693.4  | 6721.5  | 6768.4  | 6834.1  | 6877.3  | 6931.7  | 6967.3  | 6978.6  |
| 52.5° | 7096.8  | 7104.3  | 7130.6  | 7183.1  | 7239.4  | 7331.4  | 7444.0  | 7549.1  | 7639.1  | 7699.2  | 7695.4  |
| 55°   | 7581.0  | 7592.2  | 7656.0  | 7746.1  | 7838.0  | 7976.9  | 8143.9  | 8329.7  | 8479.8  | 8566.1  | 8511.7  |
| 57.5° | 8200.2  | 8224.6  | 8295.9  | 8417.9  | 8554.8  | 8735.0  | 8963.9  | 9243.5  | 9476.2  | 9592.5  | 9504.3  |
| 60°   | 9050.2  | 9065.2  | 9151.6  | 9286.7  | 9451.8  | 9675.1  | 9981.0  | 10356.3 | 10684.6 | 10838.5 | 10737.2 |
| 62.5° | 10170.5 | 10198.6 | 10268.1 | 10405.0 | 10573.9 | 10827.3 | 11200.7 | 11669.8 | 12078.9 | 12292.8 | 12063.9 |
| 65°   | 11508.4 | 11598.5 | 11656.7 | 11795.5 | 11953.1 | 12221.5 | 12611.8 | 13114.7 | 13553.8 | 13694.5 | 13429.9 |
| 67.5° | 12833.2 | 12912.0 | 13013.3 | 13172.8 | 13332.3 | 13634.5 | 13996.6 | 14484.5 | 14966.8 | 15094.4 | 14683.4 |
| 70°   | 13413.0 | 13458.1 | 13615.7 | 13833.4 | 14139.2 | 14495.8 | 14914.2 | 15462.1 | 16058.9 | 16163.9 | 15642.3 |
| 72.5° | 12251.5 | 12296.5 | 12472.9 | 12842.6 | 13375.5 | 13942.2 | 14672.2 | 15477.2 | 16265.3 | 16383.5 | 15664.8 |
| 75°   | 9266.0  | 9192.8  | 9453.7  | 9943.4  | 10662.1 | 11452.1 | 12472.9 | 13627.0 | 14766.0 | 14914.2 | 14056.7 |
| 77.5° | 4788.8  | 4779.4  | 4976.4  | 5584.4  | 6441.9  | 7340.8  | 8464.8  | 9768.9  | 10883.5 | 11333.9 | 10635.9 |
| 80°   | 1349.2  | 1364.2  | 1458.0  | 1760.1  | 2261.2  | 2910.4  | 3788.6  | 5010.2  | 5922.2  | 6387.5  | 5997.2  |
| 82.5° | 529.2   | 570.4   | 606.1   | 662.4   | 728.1   | 823.8   | 1099.6  | 1636.3  | 2195.5  | 2623.3  | 2148.6  |
| 85°   | 189.5   | 202.7   | 287.1   | 339.6   | 345.3   | 364.0   | 414.7   | 484.1   | 583.6   | 696.2   | 572.3   |
| 87.5° | 71.3    | 78.8    | 91.9    | 152.0   | 150.1   | 137.0   | 167.0   | 174.5   | 131.4   | 120.1   | 148.2   |
| 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°    | 2897.3  | 2897.3  | 2897.3  | 2897.3  | 2897.3  | 2897.3  | 2897.3  | 2897.3  |
| 2.5°  | 2889.8  | 2891.6  | 2891.6  | 2893.5  | 2895.4  | 2895.4  | 2899.2  | 2899.2  |
| 5°    | 2891.6  | 2891.6  | 2887.9  | 2889.8  | 2887.9  | 2887.9  | 2889.8  | 2889.8  |
| 7.5°  | 2887.9  | 2886.0  | 2882.3  | 2880.4  | 2876.6  | 2876.6  | 2876.6  | 2876.6  |
| 10°   | 2882.3  | 2880.4  | 2876.6  | 2874.8  | 2872.9  | 2872.9  | 2872.9  | 2872.9  |
| 12.5° | 2897.3  | 2891.6  | 2887.9  | 2886.0  | 2886.0  | 2886.0  | 2886.0  | 2886.0  |
| 15°   | 2936.7  | 2923.5  | 2914.2  | 2914.2  | 2916.0  | 2919.8  | 2919.8  | 2923.5  |
| 17.5° | 2985.5  | 2970.5  | 2961.1  | 2953.6  | 2957.3  | 2963.0  | 2966.7  | 2970.5  |
| 20°   | 3043.6  | 3036.1  | 3023.0  | 3015.5  | 3015.5  | 3023.0  | 3026.8  | 3028.6  |
| 22.5° | 3124.3  | 3118.7  | 3113.1  | 3103.7  | 3103.7  | 3107.4  | 3114.9  | 3114.9  |
| 25°   | 3244.4  | 3240.7  | 3236.9  | 3229.4  | 3227.5  | 3227.5  | 3231.3  | 3235.0  |
| 27.5° | 3394.5  | 3396.4  | 3392.7  | 3390.8  | 3385.2  | 3383.3  | 3388.9  | 3387.0  |
| 30°   | 3595.3  | 3604.7  | 3614.1  | 3606.6  | 3597.2  | 3591.6  | 3585.9  | 3578.4  |
| 32.5° | 3867.4  | 3856.2  | 3848.6  | 3835.5  | 3818.6  | 3803.6  | 3792.4  | 3779.2  |
| 35°   | 4124.5  | 4105.7  | 4098.2  | 4109.5  | 4107.6  | 4098.2  | 4085.1  | 4073.8  |
| 37.5° | 4439.7  | 4436.0  | 4439.7  | 4460.4  | 4456.6  | 4466.0  | 4439.7  | 4437.9  |
| 40°   | 4837.6  | 4841.3  | 4867.6  | 4892.0  | 4905.1  | 4918.2  | 4903.2  | 4888.2  |
| 42.5° | 5299.2  | 5297.3  | 5306.7  | 5340.4  | 5363.0  | 5378.0  | 5346.1  | 5342.3  |
| 45°   | 5787.0  | 5773.9  | 5781.4  | 5809.6  | 5832.1  | 5849.0  | 5813.3  | 5813.3  |
| 47.5° | 6323.7  | 6301.2  | 6276.8  | 6308.7  | 6321.8  | 6333.1  | 6305.0  | 6295.6  |
| 50°   | 6922.3  | 6875.4  | 6822.9  | 6836.0  | 6836.0  | 6832.2  | 6796.6  | 6794.7  |
| 52.5° | 7609.1  | 7522.8  | 7427.1  | 7391.4  | 7370.8  | 7348.3  | 7286.3  | 7256.3  |
| 55°   | 8399.1  | 8269.6  | 8119.5  | 8027.6  | 7978.8  | 7916.8  | 7813.6  | 7785.5  |
| 57.5° | 9322.3  | 9119.7  | 8860.7  | 8748.1  | 8639.3  | 8538.0  | 8423.5  | 8391.6  |
| 60°   | 10416.3 | 10117.9 | 9774.6  | 9566.3  | 9448.0  | 9350.5  | 9232.3  | 9226.6  |
| 62.5° | 11636.0 | 11165.0 | 10776.6 | 10588.9 | 10502.6 | 10416.3 | 10303.7 | 10318.7 |
| 65°   | 12876.4 | 12384.7 | 12020.7 | 11868.7 | 11788.0 | 11716.7 | 11604.1 | 11621.0 |
| 67.5° | 14099.8 | 13647.6 | 13247.9 | 13092.2 | 13002.1 | 12912.0 | 12810.7 | 12827.6 |
| 70°   | 14978.0 | 14417.0 | 13966.6 | 13621.3 | 13405.5 | 13161.6 | 13004.0 | 12964.6 |
| 72.5° | 14726.6 | 13861.5 | 13146.6 | 12461.7 | 12060.1 | 11733.6 | 11512.2 | 11416.5 |
| 75°   | 12745.0 | 11562.8 | 10643.4 | 9802.7  | 9329.8  | 8945.2  | 8665.6  | 8491.0  |
| 77.5° | 9464.9  | 8136.4  | 7049.9  | 6081.7  | 5316.1  | 4801.9  | 4439.7  | 4205.2  |
| 80°   | 5180.9  | 3940.6  | 2880.4  | 2024.7  | 1488.0  | 1236.6  | 1092.1  | 1022.7  |
| 82.5° | 1613.8  | 1041.4  | 767.5   | 662.4   | 615.5   | 589.2   | 546.1   | 476.6   |
| 85°   | 514.2   | 450.4   | 418.5   | 399.7   | 380.9   | 332.1   | 228.9   | 208.3   |
| 87.5° | 198.9   | 204.5   | 202.7   | 191.4   | 195.2   | 140.7   | 112.6   | 99.5    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)