

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: P190876

Luminaire Tested: **GAN-AF-08-LED-U-5WQ-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190876  
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-08-LED-U-5WQ-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33865.8 lumens  
Efficiency: N/A  
Efficacy: 131.8 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

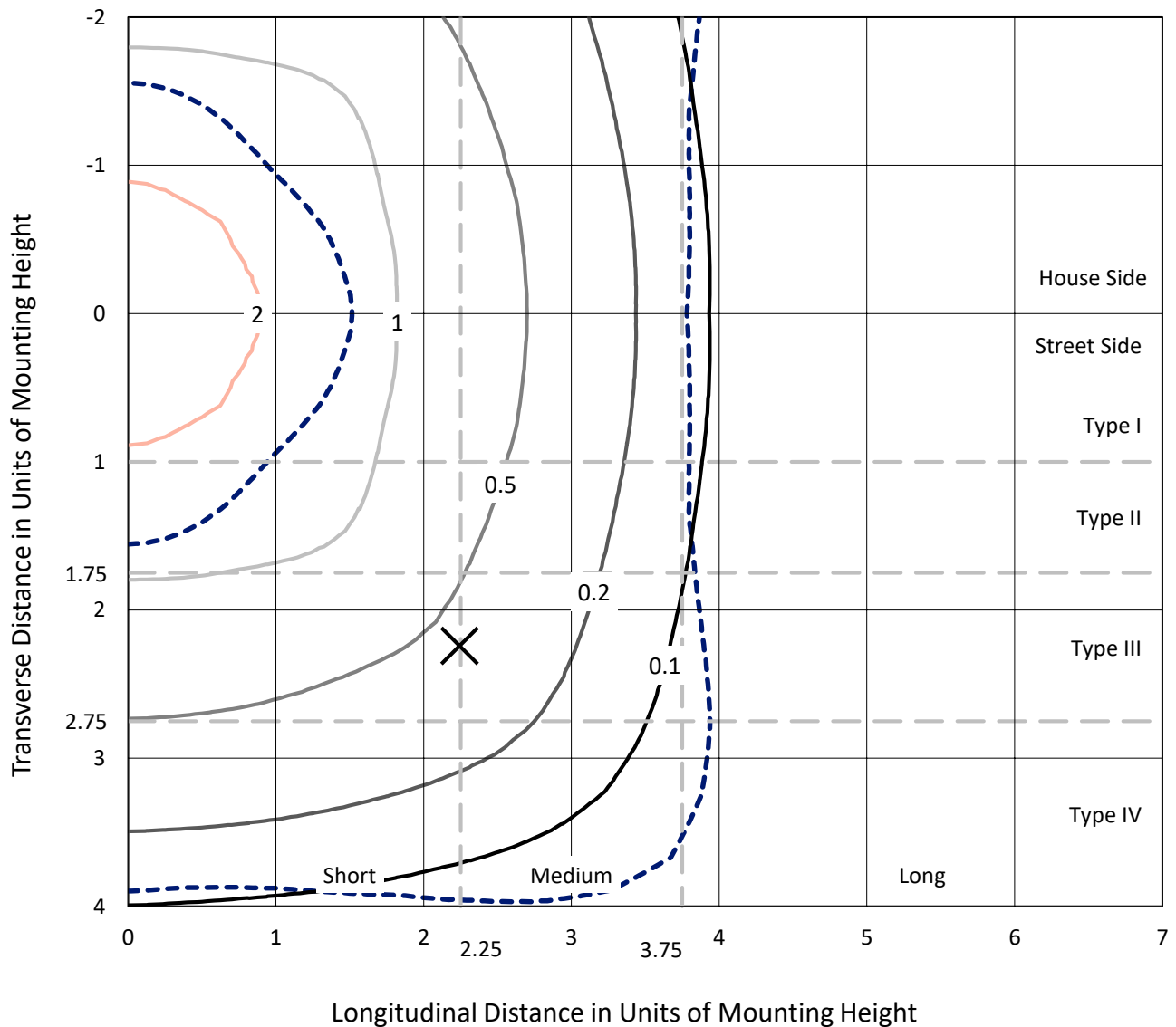
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

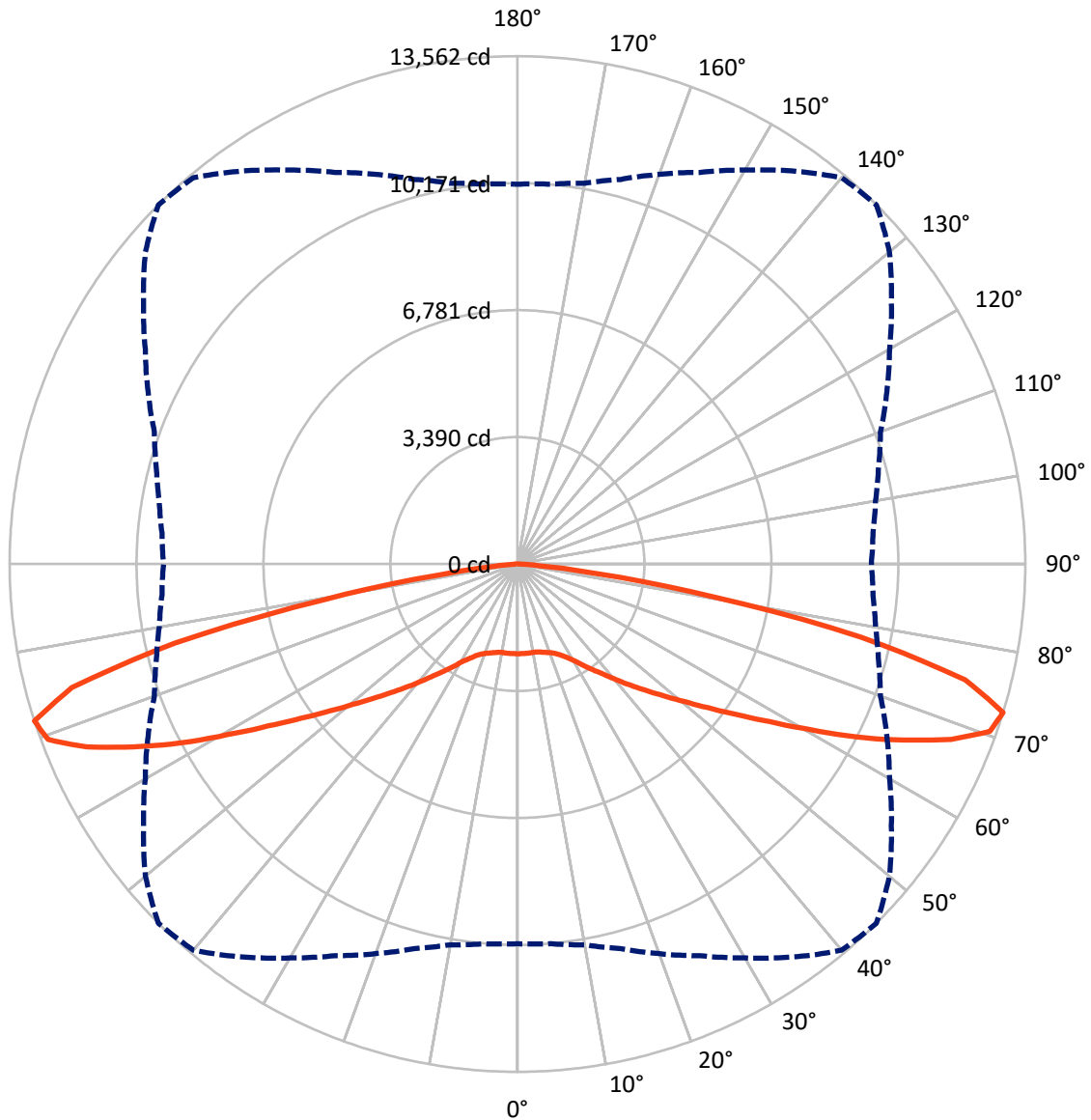
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.7 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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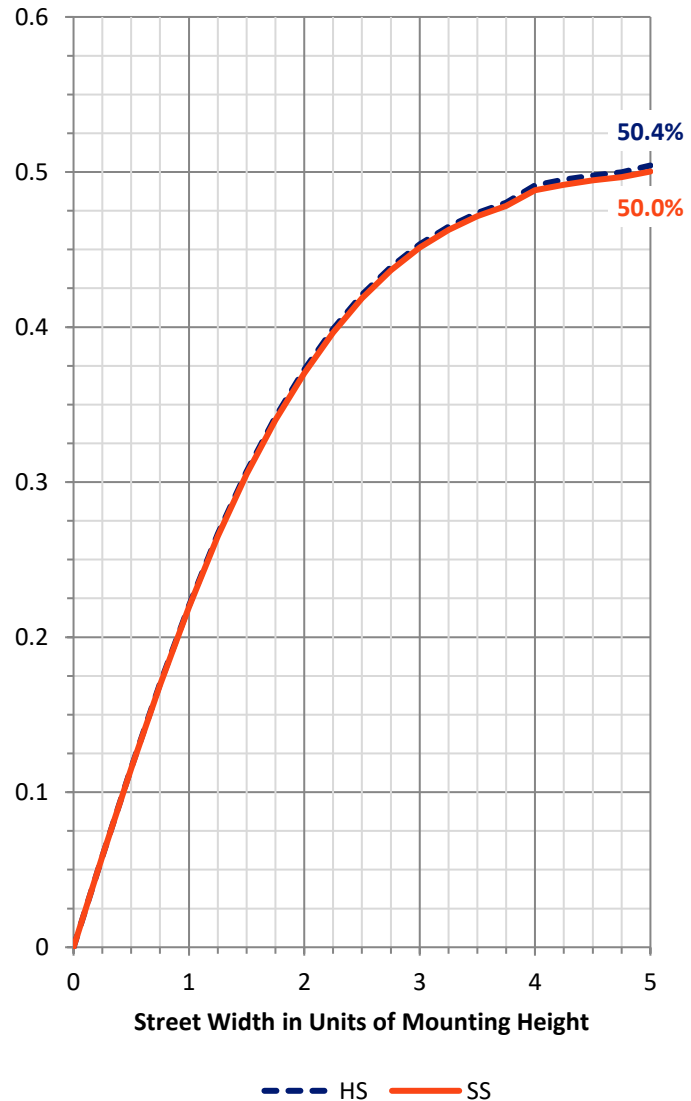
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 16932.9  | 0.0    | 16932.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 16932.9  | 0.0    | 16932.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 33865.8  | 0.0    | 33865.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 229.0   | 0.7       |
| 10°-20°   | 695.5   | 2.1       |
| 20°-30°   | 1271.0  | 3.8       |
| 30°-40°   | 2191.4  | 6.5       |
| 40°-50°   | 3746.1  | 11.1      |
| 50°-60°   | 6072.0  | 17.9      |
| 60°-70°   | 10073.3 | 29.7      |
| 70°-80°   | 8872.2  | 26.2      |
| 80°-90°   | 715.3   | 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°    | 33865.8 | 100.0     |
| 0°-180°   | 33865.8 | 100.0     |



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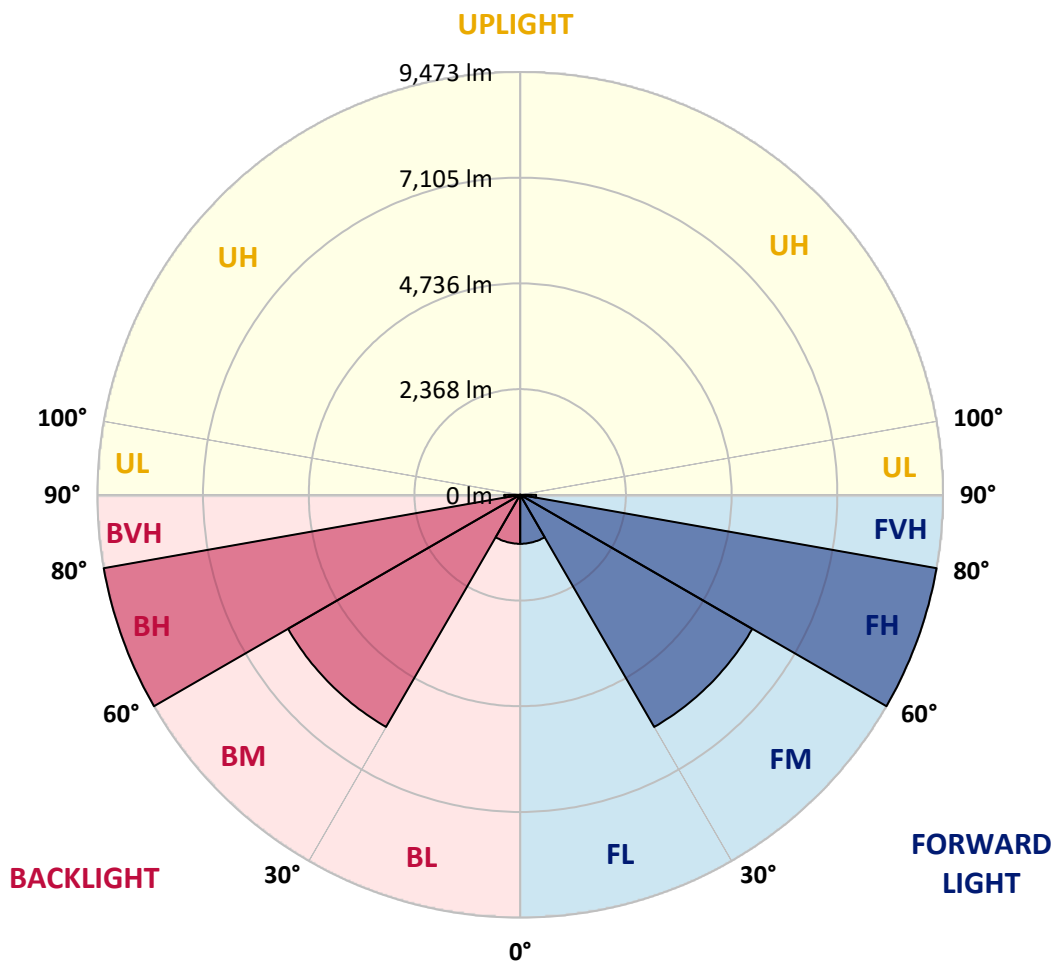
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1097.7 | 3.2       |                         |      |          |
| FM   | (30°-60°)   | 6004.8 | 17.7      |                         |      |          |
| FH   | (60°-80°)   | 9472.7 | 28.0      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 357.7  | 1.1       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1097.7 | 3.2       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 6004.8 | 17.7      | B4/8500                 |      |          |
| BH   | (60°-80°)   | 9472.7 | 28.0      | B5                      |      | G4/12000 |
| BVH  | (80°-90°)   | 357.7  | 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°    | 2398.2  | 2398.2  | 2398.2  | 2398.2  | 2398.2  | 2398.2  | 2398.2  | 2398.2  | 2398.2  | 2398.2  | 2398.2  |
| 2.5°  | 2398.2  | 2399.7  | 2401.4  | 2399.7  | 2399.7  | 2398.2  | 2396.7  | 2398.2  | 2396.7  | 2393.6  | 2395.1  |
| 5°    | 2406.0  | 2409.0  | 2409.0  | 2406.0  | 2407.5  | 2406.0  | 2402.9  | 2404.4  | 2401.4  | 2396.7  | 2396.7  |
| 7.5°  | 2415.3  | 2416.8  | 2416.8  | 2413.8  | 2415.3  | 2412.2  | 2409.0  | 2407.5  | 2404.4  | 2398.2  | 2393.6  |
| 10°   | 2429.3  | 2430.8  | 2429.3  | 2426.2  | 2426.2  | 2421.5  | 2413.8  | 2410.7  | 2404.4  | 2395.1  | 2390.4  |
| 12.5° | 2444.9  | 2446.4  | 2444.9  | 2441.7  | 2440.1  | 2432.4  | 2426.2  | 2421.5  | 2416.8  | 2409.0  | 2401.4  |
| 15°   | 2466.5  | 2469.7  | 2466.5  | 2460.4  | 2455.7  | 2449.5  | 2446.4  | 2447.9  | 2449.5  | 2443.3  | 2435.5  |
| 17.5° | 2506.9  | 2508.5  | 2503.9  | 2489.9  | 2483.6  | 2477.5  | 2477.5  | 2480.6  | 2485.2  | 2482.1  | 2474.3  |
| 20°   | 2581.5  | 2576.8  | 2566.0  | 2548.9  | 2541.1  | 2530.3  | 2528.7  | 2530.3  | 2530.3  | 2528.7  | 2522.5  |
| 22.5° | 2674.7  | 2671.6  | 2657.6  | 2635.8  | 2625.0  | 2618.8  | 2609.4  | 2601.7  | 2600.1  | 2595.5  | 2589.3  |
| 25°   | 2786.5  | 2785.0  | 2767.9  | 2749.3  | 2741.5  | 2733.7  | 2726.0  | 2715.1  | 2705.8  | 2694.9  | 2688.7  |
| 27.5° | 2929.4  | 2923.2  | 2898.3  | 2889.0  | 2878.2  | 2873.6  | 2862.6  | 2850.2  | 2842.5  | 2828.5  | 2820.7  |
| 30°   | 3086.3  | 3086.3  | 3066.1  | 3063.0  | 3063.0  | 3052.2  | 3039.7  | 3018.0  | 3004.0  | 2990.0  | 2985.4  |
| 32.5° | 3243.2  | 3244.8  | 3224.5  | 3230.8  | 3235.4  | 3243.2  | 3246.3  | 3238.6  | 3229.3  | 3227.6  | 3218.3  |
| 35°   | 3470.0  | 3463.7  | 3443.6  | 3448.3  | 3446.6  | 3445.1  | 3445.1  | 3462.2  | 3465.3  | 3468.4  | 3449.8  |
| 37.5° | 3751.2  | 3751.2  | 3730.9  | 3730.9  | 3721.6  | 3712.3  | 3699.8  | 3710.8  | 3727.8  | 3732.4  | 3720.1  |
| 40°   | 4072.7  | 4083.5  | 4058.7  | 4057.1  | 4060.2  | 4030.7  | 4016.7  | 4033.8  | 4044.6  | 4063.4  | 4049.4  |
| 42.5° | 4451.7  | 4443.9  | 4419.0  | 4415.9  | 4398.8  | 4389.5  | 4377.1  | 4391.0  | 4408.1  | 4420.6  | 4425.2  |
| 45°   | 4815.1  | 4808.9  | 4781.0  | 4781.0  | 4763.9  | 4756.1  | 4762.2  | 4785.6  | 4793.3  | 4810.4  | 4827.5  |
| 47.5° | 5173.9  | 5166.1  | 5147.5  | 5155.3  | 5156.8  | 5170.8  | 5191.0  | 5212.8  | 5234.4  | 5257.8  | 5265.5  |
| 50°   | 5540.5  | 5542.0  | 5521.8  | 5540.5  | 5563.7  | 5602.6  | 5656.9  | 5692.7  | 5737.7  | 5767.2  | 5776.6  |
| 52.5° | 5874.4  | 5880.6  | 5902.3  | 5945.9  | 5992.4  | 6068.6  | 6161.7  | 6248.7  | 6323.3  | 6373.0  | 6369.9  |
| 55°   | 6275.2  | 6284.5  | 6337.3  | 6411.9  | 6488.0  | 6602.8  | 6741.1  | 6894.9  | 7019.2  | 7090.6  | 7045.6  |
| 57.5° | 6787.7  | 6807.9  | 6867.0  | 6967.9  | 7081.3  | 7230.4  | 7419.9  | 7651.4  | 7844.0  | 7940.2  | 7867.2  |
| 60°   | 7491.4  | 7503.8  | 7575.3  | 7687.1  | 7823.7  | 8008.6  | 8261.8  | 8572.4  | 8844.2  | 8971.6  | 8887.7  |
| 62.5° | 8418.7  | 8441.9  | 8499.4  | 8612.8  | 8752.6  | 8962.3  | 9271.4  | 9659.7  | 9998.3  | 10175.4 | 9985.8  |
| 65°   | 9526.1  | 9600.7  | 9648.8  | 9763.8  | 9894.2  | 10116.4 | 10439.4 | 10855.7 | 11219.1 | 11335.6 | 11116.6 |
| 67.5° | 10622.7 | 10688.0 | 10771.8 | 10903.8 | 11035.9 | 11285.9 | 11585.7 | 11989.6 | 12388.8 | 12494.4 | 12154.2 |
| 70°   | 11102.7 | 11139.9 | 11270.5 | 11450.6 | 11703.8 | 11998.9 | 12345.3 | 12798.9 | 13292.7 | 13379.8 | 12947.9 |
| 72.5° | 10141.2 | 10178.5 | 10324.4 | 10630.5 | 11071.6 | 11540.7 | 12144.9 | 12811.2 | 13463.6 | 13561.5 | 12966.6 |
| 75°   | 7670.0  | 7609.4  | 7825.3  | 8230.7  | 8825.6  | 9479.5  | 10324.4 | 11279.8 | 12222.5 | 12345.3 | 11635.5 |
| 77.5° | 3963.9  | 3956.2  | 4119.2  | 4622.5  | 5332.3  | 6076.3  | 7006.7  | 8086.2  | 9008.9  | 9381.7  | 8803.8  |
| 80°   | 1116.8  | 1129.2  | 1206.9  | 1457.0  | 1871.7  | 2409.0  | 3136.1  | 4147.1  | 4902.1  | 5287.3  | 4964.2  |
| 82.5° | 438.0   | 472.2   | 501.7   | 548.3   | 602.6   | 681.9   | 910.2   | 1354.5  | 1817.3  | 2171.4  | 1778.5  |
| 85°   | 156.9   | 167.8   | 237.6   | 281.1   | 285.8   | 301.4   | 343.3   | 400.7   | 483.0   | 576.2   | 473.7   |
| 87.5° | 59.0    | 65.3    | 76.1    | 125.8   | 124.3   | 113.3   | 138.2   | 144.4   | 108.7   | 99.4    | 122.8   |
| 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°    | 2398.2  | 2398.2  | 2398.2  | 2398.2  | 2398.2  | 2398.2  | 2398.2  | 2398.2  |
| 2.5°  | 2392.0  | 2393.6  | 2393.6  | 2395.1  | 2396.7  | 2396.7  | 2399.7  | 2399.7  |
| 5°    | 2393.6  | 2393.6  | 2390.4  | 2392.0  | 2390.4  | 2390.4  | 2392.0  | 2392.0  |
| 7.5°  | 2390.4  | 2388.9  | 2385.8  | 2384.3  | 2381.1  | 2381.1  | 2381.1  | 2381.1  |
| 10°   | 2385.8  | 2384.3  | 2381.1  | 2379.6  | 2378.1  | 2378.1  | 2378.1  | 2378.1  |
| 12.5° | 2398.2  | 2393.6  | 2390.4  | 2388.9  | 2388.9  | 2388.9  | 2388.9  | 2388.9  |
| 15°   | 2430.8  | 2420.0  | 2412.2  | 2412.2  | 2413.8  | 2416.8  | 2416.8  | 2420.0  |
| 17.5° | 2471.2  | 2458.8  | 2451.0  | 2444.9  | 2447.9  | 2452.6  | 2455.7  | 2458.8  |
| 20°   | 2519.4  | 2513.2  | 2502.3  | 2496.1  | 2496.1  | 2502.3  | 2505.4  | 2506.9  |
| 22.5° | 2586.1  | 2581.5  | 2576.8  | 2569.0  | 2569.0  | 2572.2  | 2578.4  | 2578.4  |
| 25°   | 2685.6  | 2682.5  | 2679.4  | 2673.2  | 2671.6  | 2671.6  | 2674.7  | 2677.8  |
| 27.5° | 2809.8  | 2811.4  | 2808.3  | 2806.8  | 2802.1  | 2800.5  | 2805.1  | 2803.6  |
| 30°   | 2976.1  | 2983.8  | 2991.6  | 2985.4  | 2977.6  | 2972.9  | 2968.3  | 2962.1  |
| 32.5° | 3201.2  | 3191.9  | 3185.8  | 3174.8  | 3160.9  | 3148.4  | 3139.1  | 3128.3  |
| 35°   | 3414.1  | 3398.5  | 3392.3  | 3401.6  | 3400.1  | 3392.3  | 3381.5  | 3372.2  |
| 37.5° | 3675.0  | 3671.9  | 3675.0  | 3692.1  | 3689.0  | 3696.7  | 3675.0  | 3673.4  |
| 40°   | 4004.3  | 4007.4  | 4029.1  | 4049.4  | 4060.2  | 4071.0  | 4058.7  | 4046.2  |
| 42.5° | 4386.4  | 4384.9  | 4392.7  | 4420.6  | 4439.2  | 4451.7  | 4425.2  | 4422.1  |
| 45°   | 4790.3  | 4779.3  | 4785.6  | 4808.9  | 4827.5  | 4841.5  | 4812.0  | 4812.0  |
| 47.5° | 5234.4  | 5215.8  | 5195.7  | 5222.1  | 5232.9  | 5242.2  | 5218.9  | 5211.2  |
| 50°   | 5730.0  | 5691.1  | 5647.6  | 5658.6  | 5658.6  | 5655.4  | 5625.9  | 5624.3  |
| 52.5° | 6298.4  | 6227.0  | 6147.8  | 6118.3  | 6101.2  | 6082.6  | 6031.3  | 6006.5  |
| 55°   | 6952.4  | 6845.2  | 6720.9  | 6644.8  | 6604.5  | 6553.2  | 6467.7  | 6444.5  |
| 57.5° | 7716.5  | 7548.9  | 7334.5  | 7241.3  | 7151.1  | 7067.3  | 6972.5  | 6946.1  |
| 60°   | 8622.1  | 8375.1  | 8090.9  | 7918.5  | 7820.7  | 7739.9  | 7642.1  | 7637.4  |
| 62.5° | 9631.7  | 9241.8  | 8920.3  | 8765.1  | 8693.5  | 8622.1  | 8529.0  | 8541.3  |
| 65°   | 10658.4 | 10251.5 | 9950.1  | 9824.3  | 9757.5  | 9698.5  | 9605.3  | 9619.3  |
| 67.5° | 11671.2 | 11296.9 | 10965.9 | 10837.0 | 10762.5 | 10688.0 | 10604.1 | 10618.0 |
| 70°   | 12398.1 | 11933.6 | 11560.9 | 11275.1 | 11096.5 | 10894.5 | 10764.1 | 10731.5 |
| 72.5° | 12190.0 | 11473.9 | 10882.2 | 10315.1 | 9982.8  | 9712.5  | 9529.2  | 9450.0  |
| 75°   | 10549.7 | 9571.1  | 8810.1  | 8114.3  | 7722.8  | 7404.3  | 7172.9  | 7028.5  |
| 77.5° | 7834.6  | 6734.9  | 5835.6  | 5034.1  | 4400.3  | 3974.8  | 3675.0  | 3480.8  |
| 80°   | 4288.5  | 3261.9  | 2384.3  | 1676.0  | 1231.7  | 1023.6  | 904.0   | 846.5   |
| 82.5° | 1335.8  | 862.0   | 635.3   | 548.3   | 509.4   | 487.7   | 452.0   | 394.6   |
| 85°   | 425.5   | 372.8   | 346.4   | 330.8   | 315.3   | 275.0   | 189.5   | 172.4   |
| 87.5° | 164.7   | 169.3   | 167.8   | 158.5   | 161.5   | 116.5   | 93.2    | 82.3    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)