

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: P192573

Luminaire Tested: **GAN-AF-05-LED-U-5NQ-7030-600**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P192573  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-05-LED-U-5NQ-7030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 19555.2 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B4 - U0 - G2

Input Watts (W): 162  
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

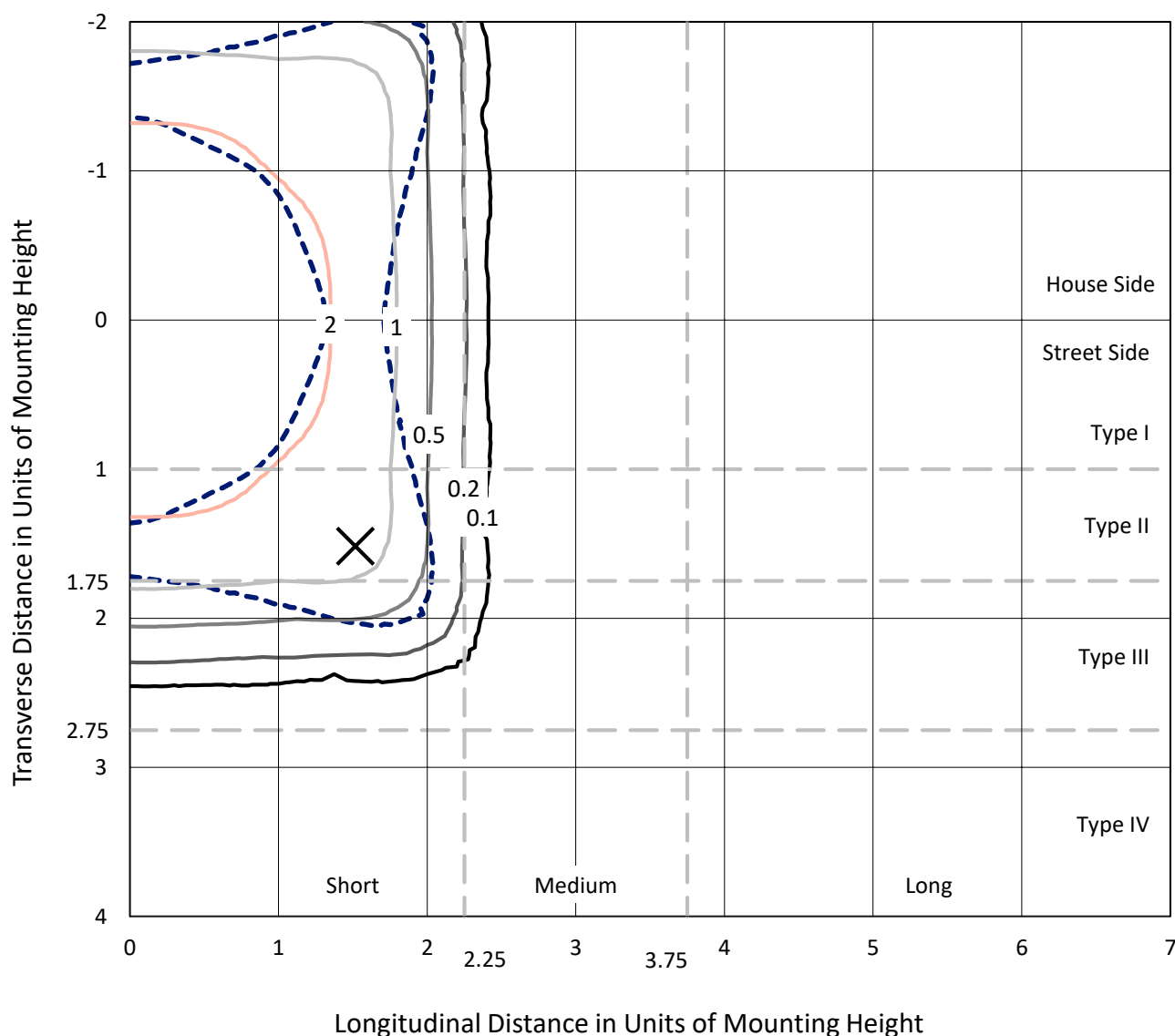


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

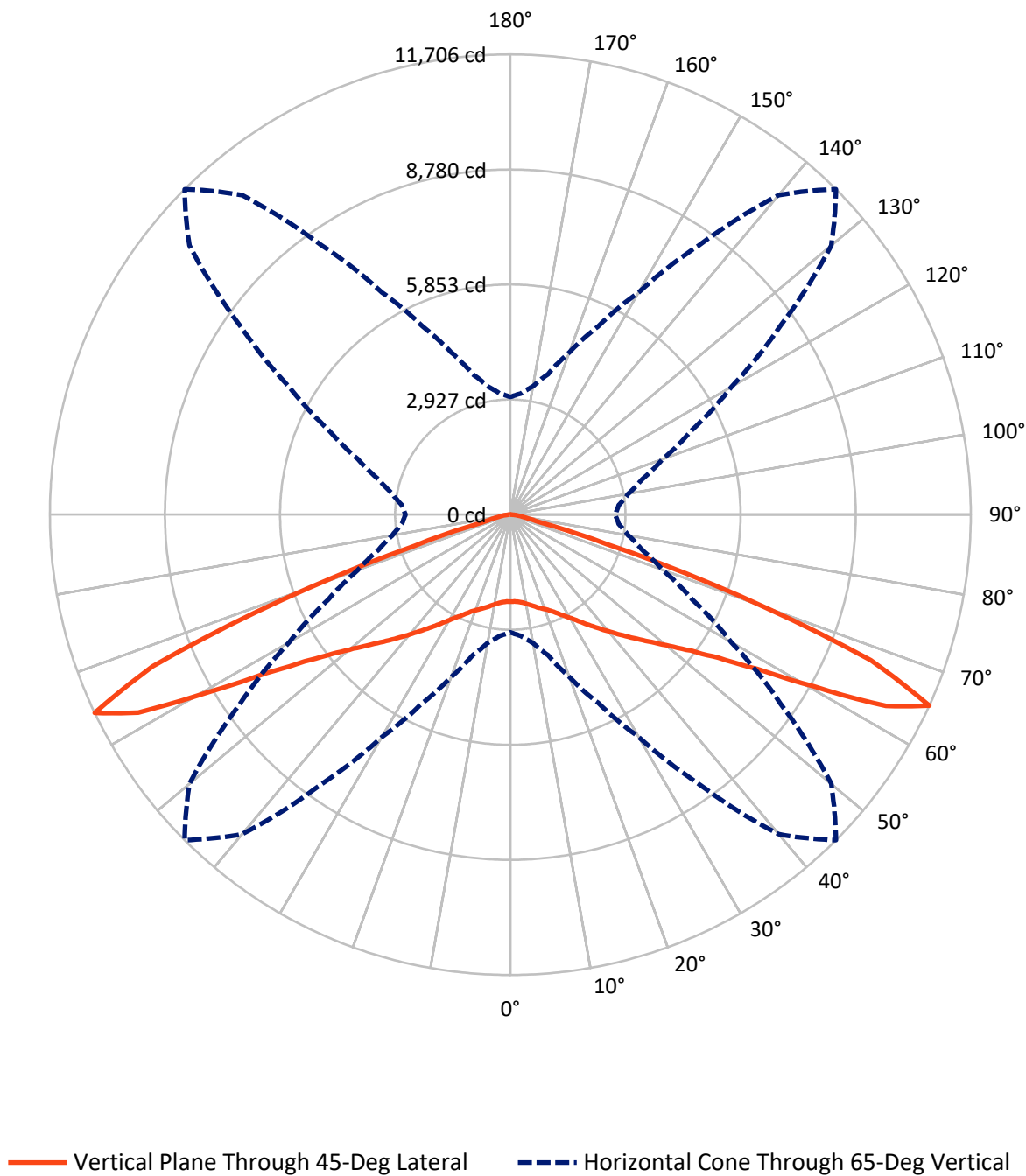


Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type V - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9777.6   | 0.0    | 9777.6  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 9777.6   | 0.0    | 9777.6  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 19555.2  | 0.0    | 19555.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 215.7   | 1.1       |
| 10°-20°   | 691.7   | 3.5       |
| 20°-30°   | 1293.3  | 6.6       |
| 30°-40°   | 2187.3  | 11.2      |
| 40°-50°   | 3576.5  | 18.3      |
| 50°-60°   | 5687.3  | 29.1      |
| 60°-70°   | 5140.9  | 26.3      |
| 70°-80°   | 650.6   | 3.3       |
| 80°-90°   | 111.9   | 0.6       |
| 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°    | 19555.2 | 100.0     |
| 0°-180°   | 19555.2 | 100.0     |

**Coefficient of Utilization**



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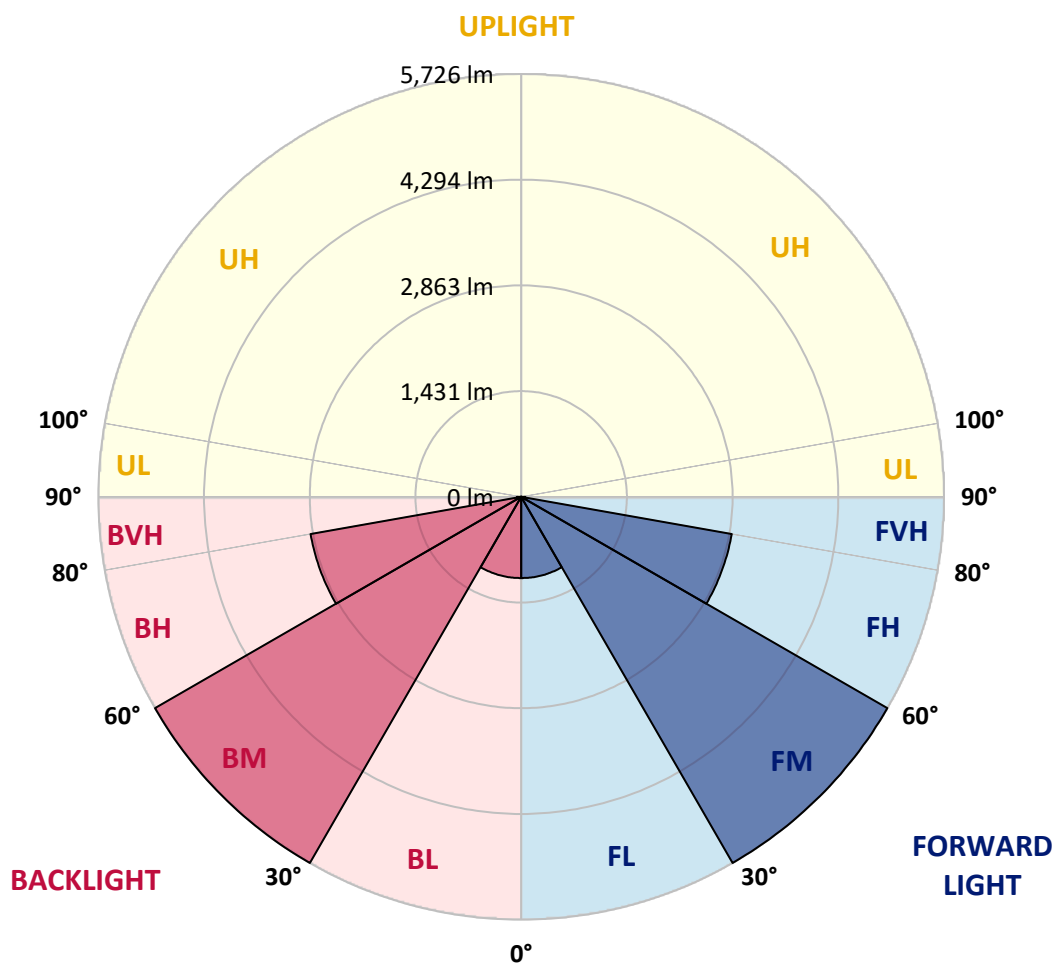
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1100.3 | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 5725.6 | 29.3      |                         |      |         |
| FH   | (60°-80°)   | 2895.7 | 14.8      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 56.0   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1100.3 | 5.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 5725.6 | 29.3      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 2895.7 | 14.8      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 56.0   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°     | 45°     | 50°     |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 2212.7 | 2212.7 | 2212.7 | 2212.7 | 2212.7 | 2212.7 | 2212.7 | 2212.7 | 2212.7  | 2212.7  | 2212.7  |
| 2.5°  | 2214.4 | 2216.4 | 2218.2 | 2216.4 | 2218.2 | 2215.4 | 2213.6 | 2216.4 | 2213.6  | 2210.9  | 2212.7  |
| 5°    | 2233.7 | 2234.7 | 2234.7 | 2231.9 | 2234.7 | 2232.8 | 2230.1 | 2233.7 | 2231.0  | 2228.3  | 2230.1  |
| 7.5°  | 2265.8 | 2269.5 | 2266.7 | 2264.0 | 2265.8 | 2264.0 | 2262.1 | 2263.1 | 2262.1  | 2259.4  | 2260.3  |
| 10°   | 2308.8 | 2311.6 | 2309.7 | 2308.8 | 2310.8 | 2309.7 | 2307.9 | 2307.0 | 2307.9  | 2305.2  | 2305.2  |
| 12.5° | 2361.1 | 2360.1 | 2359.2 | 2360.1 | 2362.8 | 2362.8 | 2361.9 | 2362.8 | 2364.7  | 2365.7  | 2363.9  |
| 15°   | 2412.3 | 2414.2 | 2414.2 | 2414.2 | 2419.6 | 2424.3 | 2426.9 | 2428.9 | 2432.4  | 2433.4  | 2429.7  |
| 17.5° | 2476.5 | 2476.5 | 2475.5 | 2476.5 | 2482.0 | 2489.3 | 2491.9 | 2495.7 | 2499.3  | 2502.0  | 2497.5  |
| 20°   | 2547.9 | 2549.7 | 2549.7 | 2551.5 | 2558.9 | 2567.1 | 2567.1 | 2568.9 | 2567.1  | 2568.9  | 2566.2  |
| 22.5° | 2634.9 | 2640.4 | 2640.4 | 2641.4 | 2648.7 | 2658.8 | 2656.0 | 2658.8 | 2654.1  | 2657.7  | 2654.1  |
| 25°   | 2748.4 | 2756.7 | 2754.9 | 2754.9 | 2760.3 | 2766.8 | 2767.6 | 2773.2 | 2772.2  | 2776.9  | 2774.1  |
| 27.5° | 2876.7 | 2889.5 | 2893.1 | 2892.2 | 2895.9 | 2902.4 | 2904.1 | 2910.5 | 2906.9  | 2910.5  | 2908.7  |
| 30°   | 3030.6 | 3036.0 | 3043.3 | 3046.1 | 3050.7 | 3057.1 | 3057.1 | 3058.0 | 3053.5  | 3058.9  | 3061.7  |
| 32.5° | 3190.0 | 3199.9 | 3207.3 | 3223.8 | 3232.0 | 3236.6 | 3235.7 | 3237.5 | 3233.0  | 3240.3  | 3245.8  |
| 35°   | 3400.5 | 3407.9 | 3419.9 | 3432.6 | 3443.7 | 3442.6 | 3439.9 | 3440.8 | 3440.8  | 3447.2  | 3452.7  |
| 37.5° | 3654.1 | 3656.1 | 3671.6 | 3689.9 | 3695.4 | 3689.9 | 3673.4 | 3669.8 | 3661.6  | 3669.8  | 3679.0  |
| 40°   | 3922.5 | 3929.0 | 3960.1 | 3972.0 | 3974.8 | 3964.7 | 3940.9 | 3927.1 | 3908.9  | 3918.9  | 3931.7  |
| 42.5° | 4203.8 | 4216.6 | 4244.9 | 4266.0 | 4275.2 | 4268.8 | 4235.8 | 4214.6 | 4190.8  | 4196.4  | 4209.2  |
| 45°   | 4515.1 | 4530.7 | 4571.0 | 4591.2 | 4608.5 | 4598.5 | 4566.4 | 4534.4 | 4496.8  | 4499.6  | 4519.7  |
| 47.5° | 4863.1 | 4878.8 | 4930.9 | 4964.8 | 4973.9 | 4972.2 | 4936.5 | 4892.4 | 4841.2  | 4839.3  | 4856.7  |
| 50°   | 5253.3 | 5268.8 | 5333.9 | 5386.1 | 5412.7 | 5409.9 | 5367.8 | 5305.5 | 5243.3  | 5244.1  | 5266.1  |
| 52.5° | 5634.3 | 5653.5 | 5721.3 | 5811.1 | 5863.3 | 5900.8 | 5875.2 | 5816.5 | 5740.5  | 5742.3  | 5762.6  |
| 55°   | 5991.4 | 6023.6 | 6101.4 | 6223.2 | 6320.2 | 6425.5 | 6455.8 | 6454.0 | 6408.2  | 6420.9  | 6441.2  |
| 57.5° | 6164.5 | 6212.2 | 6332.1 | 6524.5 | 6722.2 | 6936.7 | 7117.9 | 7253.5 | 7311.2  | 7398.2  | 7378.1  |
| 60°   | 5836.7 | 5912.7 | 6089.4 | 6372.4 | 6763.4 | 7210.4 | 7689.4 | 8157.4 | 8556.7  | 8858.0  | 8685.0  |
| 62.5° | 4778.9 | 4877.8 | 5092.1 | 5454.8 | 6046.4 | 6761.7 | 7678.4 | 8784.8 | 9990.0  | 10717.2 | 10197.9 |
| 65°   | 2990.2 | 3092.8 | 3310.8 | 3699.1 | 4391.4 | 5280.7 | 6524.5 | 8358.0 | 10610.0 | 11706.4 | 10649.5 |
| 67.5° | 1165.9 | 1221.7 | 1339.8 | 1588.1 | 2108.2 | 2899.5 | 4147.9 | 6228.7 | 8922.2  | 9882.9  | 8756.4  |
| 70°   | 584.3  | 589.8  | 611.8  | 657.6  | 769.3  | 999.1  | 1520.4 | 2887.6 | 5116.8  | 6180.1  | 4932.7  |
| 72.5° | 422.2  | 423.2  | 434.1  | 454.3  | 490.0  | 541.3  | 640.1  | 883.8  | 1664.1  | 2543.3  | 1559.6  |
| 75°   | 323.3  | 326.9  | 333.3  | 344.3  | 363.7  | 389.2  | 424.9  | 509.2  | 631.0   | 731.7   | 615.4   |
| 77.5° | 249.1  | 256.4  | 261.0  | 271.1  | 283.0  | 300.4  | 310.6  | 342.5  | 398.4   | 419.4   | 413.0   |
| 80°   | 189.6  | 196.0  | 206.1  | 214.2  | 222.6  | 230.7  | 227.2  | 241.8  | 271.1   | 288.5   | 279.3   |
| 82.5° | 120.8  | 128.3  | 157.6  | 164.9  | 168.5  | 174.0  | 167.6  | 168.5  | 181.4   | 192.3   | 181.4   |
| 85°   | 77.8   | 82.4   | 99.9   | 108.9  | 110.0  | 113.5  | 110.8  | 104.5  | 104.5   | 95.3    | 107.2   |
| 87.5° | 35.7   | 36.6   | 44.9   | 53.1   | 54.9   | 49.5   | 48.5   | 46.7   | 37.5    | 35.7    | 38.5    |
| 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°    | 2212.7 | 2212.7 | 2212.7 | 2212.7 | 2212.7 | 2212.7 | 2212.7 | 2212.7 |
| 2.5°  | 2211.7 | 2213.6 | 2214.4 | 2217.3 | 2218.2 | 2218.2 | 2219.0 | 2220.9 |
| 5°    | 2229.2 | 2231.9 | 2232.8 | 2236.5 | 2237.4 | 2236.5 | 2238.2 | 2239.3 |
| 7.5°  | 2260.3 | 2264.8 | 2266.7 | 2270.4 | 2267.6 | 2271.3 | 2272.3 | 2272.3 |
| 10°   | 2306.1 | 2310.8 | 2311.6 | 2315.3 | 2313.4 | 2315.3 | 2315.3 | 2313.4 |
| 12.5° | 2366.5 | 2367.4 | 2364.7 | 2367.4 | 2363.9 | 2365.7 | 2362.8 | 2361.1 |
| 15°   | 2433.4 | 2430.7 | 2424.3 | 2424.3 | 2418.8 | 2419.6 | 2418.8 | 2417.8 |
| 17.5° | 2498.4 | 2493.0 | 2488.4 | 2486.5 | 2482.0 | 2481.1 | 2478.3 | 2478.3 |
| 20°   | 2569.9 | 2567.1 | 2564.4 | 2560.7 | 2556.1 | 2551.5 | 2550.6 | 2552.6 |
| 22.5° | 2656.0 | 2655.0 | 2655.0 | 2653.3 | 2646.8 | 2642.2 | 2639.4 | 2639.4 |
| 25°   | 2771.4 | 2763.0 | 2763.0 | 2762.2 | 2759.5 | 2756.7 | 2751.1 | 2754.0 |
| 27.5° | 2901.4 | 2896.8 | 2900.5 | 2899.5 | 2896.8 | 2896.8 | 2893.1 | 2893.1 |
| 30°   | 3061.7 | 3059.8 | 3065.4 | 3060.8 | 3051.6 | 3050.7 | 3047.0 | 3042.5 |
| 32.5° | 3246.6 | 3244.9 | 3253.0 | 3247.6 | 3233.0 | 3224.7 | 3217.3 | 3213.8 |
| 35°   | 3452.7 | 3453.6 | 3463.7 | 3460.0 | 3443.7 | 3438.1 | 3425.3 | 3423.4 |
| 37.5° | 3678.0 | 3692.8 | 3710.1 | 3713.7 | 3700.1 | 3696.3 | 3682.6 | 3675.3 |
| 40°   | 3942.7 | 3962.0 | 3988.5 | 3994.9 | 3980.4 | 3977.5 | 3958.3 | 3948.2 |
| 42.5° | 4224.8 | 4257.8 | 4290.7 | 4296.2 | 4281.6 | 4266.9 | 4248.6 | 4241.3 |
| 45°   | 4539.8 | 4579.3 | 4622.3 | 4633.2 | 4611.3 | 4594.0 | 4570.1 | 4570.1 |
| 47.5° | 4893.4 | 4942.8 | 4991.4 | 5021.5 | 5001.5 | 4983.1 | 4954.7 | 4936.5 |
| 50°   | 5311.0 | 5378.8 | 5441.9 | 5473.2 | 5441.0 | 5406.2 | 5356.8 | 5340.3 |
| 52.5° | 5834.9 | 5908.0 | 5963.1 | 5946.6 | 5897.2 | 5848.5 | 5794.6 | 5772.6 |
| 55°   | 6503.4 | 6528.1 | 6528.1 | 6465.9 | 6367.0 | 6285.4 | 6200.3 | 6171.8 |
| 57.5° | 7339.6 | 7244.3 | 7097.8 | 6911.8 | 6678.4 | 6475.0 | 6337.7 | 6272.7 |
| 60°   | 8322.3 | 7864.4 | 7346.9 | 6838.6 | 6420.9 | 6076.7 | 5872.3 | 5778.9 |
| 62.5° | 8977.1 | 7779.2 | 6742.5 | 5926.4 | 5325.7 | 4910.7 | 4628.7 | 4518.8 |
| 65°   | 8390.0 | 6487.9 | 5099.4 | 4123.1 | 3468.3 | 3046.1 | 2766.8 | 2664.2 |
| 67.5° | 6145.3 | 4065.4 | 2715.5 | 1946.1 | 1426.0 | 1137.5 | 1023.0 | 975.3  |
| 70°   | 2758.6 | 1431.6 | 877.4  | 685.0  | 590.8  | 542.2  | 521.1  | 513.7  |
| 72.5° | 831.6  | 601.7  | 507.4  | 457.9  | 420.3  | 396.6  | 379.1  | 377.4  |
| 75°   | 501.9  | 417.6  | 370.9  | 341.7  | 317.8  | 298.6  | 289.4  | 286.7  |
| 77.5° | 350.7  | 306.8  | 284.8  | 263.8  | 245.4  | 230.7  | 222.6  | 216.2  |
| 80°   | 246.4  | 225.3  | 215.2  | 203.3  | 191.4  | 177.6  | 165.7  | 160.3  |
| 82.5° | 164.9  | 160.3  | 160.3  | 153.0  | 142.9  | 130.0  | 106.2  | 100.7  |
| 85°   | 106.2  | 105.3  | 107.2  | 104.5  | 97.1   | 83.4   | 68.8   | 65.0   |
| 87.5° | 49.5   | 50.4   | 55.8   | 54.9   | 53.1   | 43.9   | 34.9   | 33.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)