

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: P194352

Luminaire Tested: **GAN-AF-04-LED-U-RW-7060-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194352  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-04-LED-U-RW-7060-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24544 lumens  
Efficiency: N/A  
Efficacy: 109.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Medium - Full Cutoff  
BUG Rating: B4 - U0 - G2

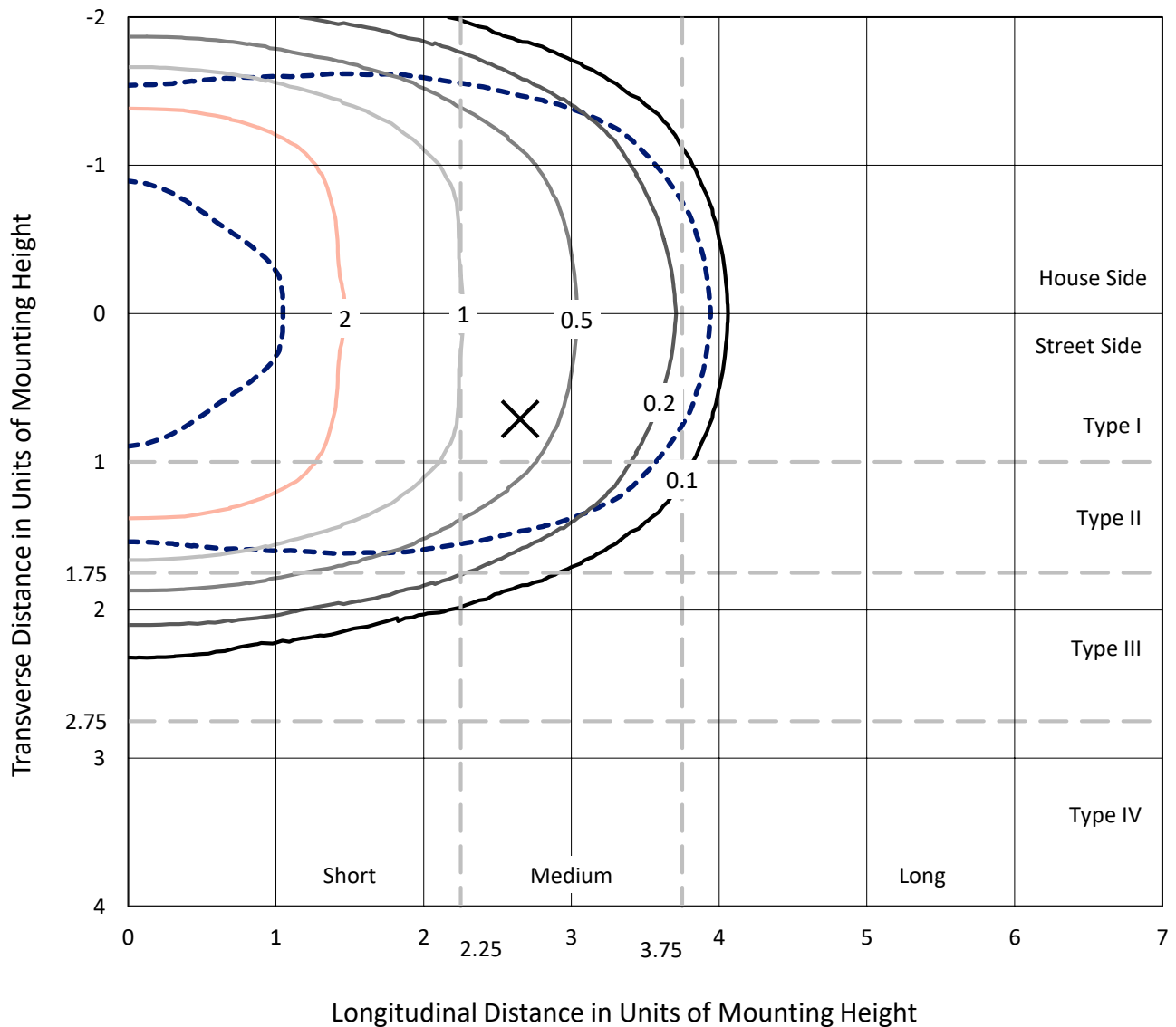
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

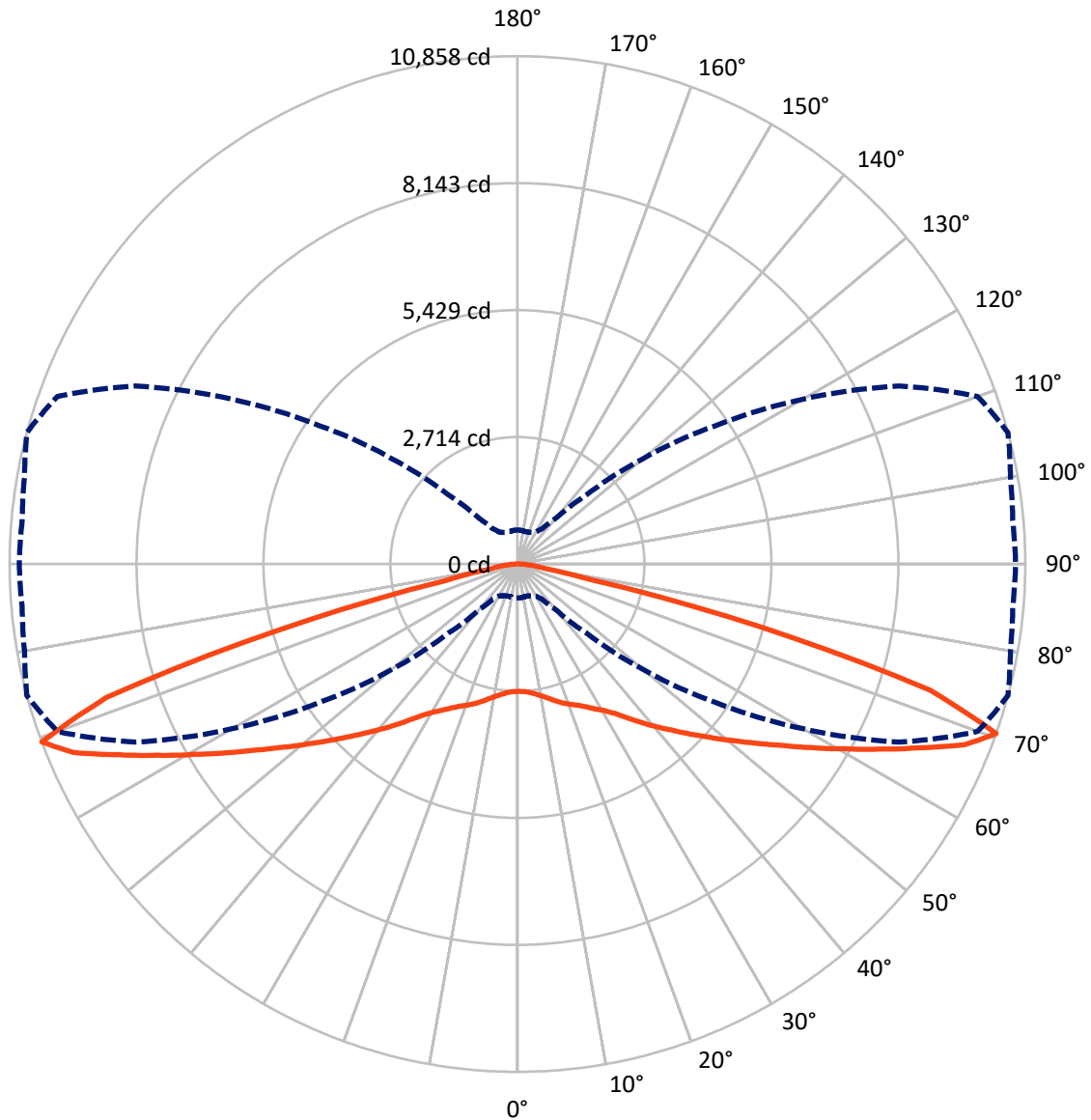


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type V - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 12272.0  | 0.0    | 12272.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 12272.0  | 0.0    | 12272.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 24544.0  | 0.0    | 24544.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 261.1   | 1.1       |
| 10°-20°   | 811.3   | 3.3       |
| 20°-30°   | 1527.0  | 6.2       |
| 30°-40°   | 2704.0  | 11.0      |
| 40°-50°   | 4522.0  | 18.4      |
| 50°-60°   | 6301.4  | 25.7      |
| 60°-70°   | 5843.5  | 23.8      |
| 70°-80°   | 2328.8  | 9.5       |
| 80°-90°   | 244.8   | 1.0       |
| 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°    | 24544.0 | 100.0     |
| 0°-180°   | 24544.0 | 100.0     |



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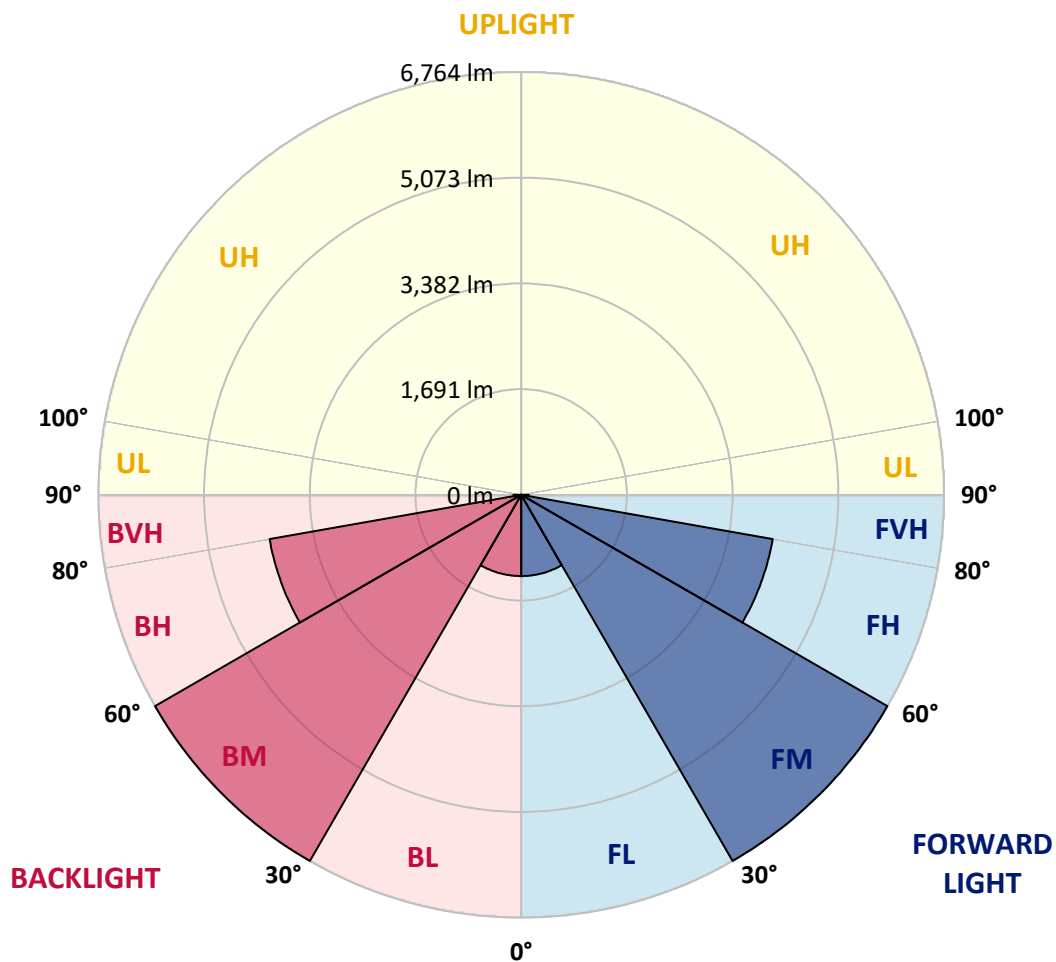
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1299.7 | 5.3       |                         |      |         |
| FM   | (30°-60°)   | 6763.7 | 27.6      |                         |      |         |
| FH   | (60°-80°)   | 4086.2 | 16.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 122.4  | 0.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1299.7 | 5.3       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 6763.7 | 27.6      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 4086.2 | 16.6      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 122.4  | 0.5       |                         |      | G2/225  |
| 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 Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2722.5 | 2722.5 | 2722.5 | 2722.5 | 2722.5 | 2722.5 | 2722.5 | 2722.5 | 2722.5 | 2722.5 | 2722.5 |
| 2.5°  | 2717.9 | 2715.5 | 2717.9 | 2716.7 | 2719.0 | 2719.0 | 2721.3 | 2726.0 | 2726.0 | 2729.5 | 2728.3 |
| 5°    | 2691.2 | 2690.0 | 2693.5 | 2697.0 | 2700.5 | 2707.4 | 2714.4 | 2724.8 | 2732.9 | 2738.7 | 2744.5 |
| 7.5°  | 2639.0 | 2639.0 | 2643.6 | 2651.7 | 2659.9 | 2674.9 | 2691.2 | 2712.1 | 2732.9 | 2750.3 | 2765.4 |
| 10°   | 2596.1 | 2598.4 | 2604.2 | 2618.1 | 2632.0 | 2655.2 | 2677.3 | 2707.4 | 2736.4 | 2765.4 | 2788.6 |
| 12.5° | 2570.5 | 2574.0 | 2584.5 | 2605.3 | 2628.5 | 2659.9 | 2693.5 | 2731.8 | 2764.3 | 2799.1 | 2822.3 |
| 15°   | 2578.7 | 2581.0 | 2596.1 | 2621.6 | 2651.7 | 2691.2 | 2736.4 | 2781.7 | 2819.9 | 2857.1 | 2888.4 |
| 17.5° | 2623.9 | 2627.4 | 2644.8 | 2673.8 | 2705.1 | 2751.5 | 2800.2 | 2851.3 | 2898.8 | 2940.6 | 2978.9 |
| 20°   | 2705.1 | 2708.6 | 2730.6 | 2761.9 | 2799.1 | 2846.6 | 2895.3 | 2948.7 | 3002.1 | 3046.1 | 3089.1 |
| 22.5° | 2819.9 | 2825.7 | 2846.6 | 2877.9 | 2919.7 | 2970.7 | 3028.7 | 3085.6 | 3136.6 | 3177.2 | 3215.5 |
| 25°   | 2970.7 | 2983.5 | 3003.2 | 3038.0 | 3082.1 | 3128.5 | 3191.1 | 3249.1 | 3297.9 | 3336.1 | 3364.0 |
| 27.5° | 3184.2 | 3201.6 | 3216.7 | 3250.3 | 3293.2 | 3337.3 | 3399.9 | 3451.0 | 3497.4 | 3534.5 | 3555.4 |
| 30°   | 3467.2 | 3484.6 | 3499.7 | 3532.2 | 3571.6 | 3613.4 | 3672.5 | 3717.8 | 3746.8 | 3775.8 | 3774.6 |
| 32.5° | 3810.6 | 3829.1 | 3834.9 | 3869.7 | 3910.3 | 3955.6 | 4008.9 | 4034.5 | 4057.7 | 4061.1 | 4040.3 |
| 35°   | 4194.5 | 4203.8 | 4227.0 | 4273.4 | 4319.8 | 4356.9 | 4408.0 | 4420.7 | 4420.7 | 4403.3 | 4356.9 |
| 37.5° | 4615.6 | 4621.4 | 4653.9 | 4706.1 | 4753.6 | 4791.9 | 4826.7 | 4852.2 | 4839.5 | 4802.4 | 4724.6 |
| 40°   | 5077.3 | 5087.7 | 5134.1 | 5180.5 | 5233.9 | 5269.8 | 5307.0 | 5311.6 | 5298.8 | 5244.3 | 5138.8 |
| 42.5° | 5518.1 | 5527.4 | 5573.8 | 5646.8 | 5716.4 | 5766.3 | 5801.1 | 5808.1 | 5767.5 | 5717.6 | 5586.5 |
| 45°   | 5897.4 | 5921.8 | 5982.1 | 6067.9 | 6168.8 | 6239.6 | 6287.2 | 6306.9 | 6270.9 | 6206.0 | 6054.0 |
| 47.5° | 6197.8 | 6222.2 | 6308.0 | 6410.1 | 6535.4 | 6650.2 | 6729.1 | 6770.9 | 6761.6 | 6712.9 | 6547.0 |
| 50°   | 6418.2 | 6441.4 | 6534.2 | 6659.5 | 6805.7 | 6948.4 | 7082.9 | 7182.7 | 7217.5 | 7195.4 | 7043.5 |
| 52.5° | 6443.8 | 6482.0 | 6591.1 | 6759.3 | 6949.5 | 7144.4 | 7335.8 | 7505.1 | 7620.0 | 7637.4 | 7524.9 |
| 55°   | 6087.6 | 6125.9 | 6276.7 | 6526.1 | 6809.2 | 7127.0 | 7433.2 | 7718.6 | 7944.8 | 8060.8 | 8001.6 |
| 57.5° | 5247.8 | 5316.2 | 5475.2 | 5767.5 | 6183.9 | 6659.5 | 7147.9 | 7654.8 | 8115.3 | 8422.7 | 8481.9 |
| 60°   | 4021.7 | 4102.9 | 4263.0 | 4573.8 | 5037.8 | 5605.1 | 6257.0 | 7006.4 | 7819.5 | 8510.9 | 8923.8 |
| 62.5° | 2579.8 | 2656.4 | 2824.6 | 3094.9 | 3473.0 | 4087.8 | 4787.3 | 5677.0 | 6769.7 | 7861.3 | 8844.9 |
| 65°   | 1325.9 | 1367.6 | 1455.8 | 1619.3 | 1914.0 | 2373.3 | 3000.9 | 3888.3 | 5137.6 | 6484.4 | 7906.5 |
| 67.5° | 839.8  | 848.0  | 867.7  | 890.9  | 966.3  | 1125.2 | 1417.5 | 1970.8 | 2998.6 | 4403.3 | 6067.9 |
| 70°   | 726.2  | 726.2  | 716.9  | 713.4  | 722.7  | 744.7  | 790.0  | 918.7  | 1265.6 | 2090.3 | 3499.7 |
| 72.5° | 664.7  | 657.7  | 641.5  | 628.7  | 626.4  | 626.4  | 635.7  | 655.4  | 711.1  | 851.4  | 1370.0 |
| 75°   | 612.5  | 592.8  | 570.7  | 555.6  | 549.8  | 544.0  | 542.9  | 546.4  | 558.0  | 580.0  | 654.2  |
| 77.5° | 548.7  | 523.2  | 497.6  | 482.6  | 475.6  | 467.5  | 460.5  | 452.4  | 446.6  | 453.6  | 486.0  |
| 80°   | 472.1  | 443.1  | 423.4  | 414.1  | 407.2  | 395.6  | 380.5  | 366.6  | 353.8  | 351.5  | 371.2  |
| 82.5° | 380.5  | 346.8  | 348.0  | 351.5  | 338.7  | 322.5  | 306.2  | 291.2  | 269.1  | 257.5  | 269.1  |
| 85°   | 307.4  | 290.0  | 281.9  | 303.9  | 285.4  | 261.0  | 235.5  | 208.8  | 174.0  | 146.2  | 158.9  |
| 87.5° | 119.5  | 119.5  | 178.6  | 274.9  | 247.1  | 201.8  | 172.8  | 147.3  | 91.6   | 70.8   | 71.9   |
| 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°    | 2722.5 | 2722.5 | 2722.5  | 2722.5  | 2722.5  | 2722.5  | 2722.5  | 2722.5  |
| 2.5°  | 2727.1 | 2729.5 | 2728.3  | 2727.1  | 2727.1  | 2726.0  | 2727.1  | 2727.1  |
| 5°    | 2748.0 | 2753.8 | 2753.8  | 2756.1  | 2756.1  | 2757.3  | 2758.5  | 2757.3  |
| 7.5°  | 2779.3 | 2789.8 | 2796.7  | 2804.9  | 2806.0  | 2807.2  | 2809.5  | 2807.2  |
| 10°   | 2810.7 | 2831.5 | 2846.6  | 2861.7  | 2868.7  | 2871.0  | 2873.3  | 2873.3  |
| 12.5° | 2850.1 | 2879.1 | 2905.8  | 2932.5  | 2945.2  | 2952.2  | 2952.2  | 2956.8  |
| 15°   | 2915.1 | 2944.1 | 2975.4  | 3011.3  | 3033.4  | 3045.0  | 3048.5  | 3048.5  |
| 17.5° | 3006.7 | 3032.2 | 3058.9  | 3093.7  | 3121.5  | 3136.6  | 3140.1  | 3138.9  |
| 20°   | 3113.4 | 3137.8 | 3152.9  | 3174.9  | 3199.3  | 3216.7  | 3221.3  | 3221.3  |
| 22.5° | 3235.2 | 3249.1 | 3251.5  | 3258.4  | 3278.1  | 3301.3  | 3311.8  | 3314.1  |
| 25°   | 3369.8 | 3373.3 | 3364.0  | 3364.0  | 3376.7  | 3398.8  | 3409.2  | 3410.4  |
| 27.5° | 3543.8 | 3526.4 | 3503.2  | 3495.1  | 3503.2  | 3528.7  | 3541.5  | 3546.1  |
| 30°   | 3760.7 | 3718.9 | 3665.6  | 3636.6  | 3631.9  | 3665.6  | 3688.8  | 3692.3  |
| 32.5° | 4008.9 | 3948.6 | 3877.9  | 3818.7  | 3803.6  | 3824.5  | 3852.3  | 3851.2  |
| 35°   | 4303.6 | 4231.7 | 4145.8  | 4070.4  | 4035.6  | 4056.5  | 4095.9  | 4100.6  |
| 37.5° | 4643.4 | 4549.5 | 4450.9  | 4355.8  | 4301.3  | 4307.1  | 4348.8  | 4362.7  |
| 40°   | 5022.8 | 4901.0 | 4776.8  | 4649.2  | 4571.5  | 4556.4  | 4607.5  | 4615.6  |
| 42.5° | 5428.8 | 5272.2 | 5115.6  | 4957.8  | 4858.0  | 4834.8  | 4894.0  | 4890.5  |
| 45°   | 5861.4 | 5661.9 | 5478.6  | 5304.6  | 5186.3  | 5151.5  | 5200.2  | 5200.2  |
| 47.5° | 6326.6 | 6080.7 | 5862.6  | 5665.4  | 5536.6  | 5486.8  | 5533.2  | 5536.6  |
| 50°   | 6819.6 | 6558.6 | 6302.2  | 6083.0  | 5928.7  | 5864.9  | 5925.2  | 5934.5  |
| 52.5° | 7310.3 | 7056.2 | 6797.6  | 6547.0  | 6360.2  | 6282.5  | 6352.1  | 6382.3  |
| 55°   | 7807.9 | 7558.5 | 7311.4  | 7066.7  | 6845.1  | 6753.5  | 6827.7  | 6866.0  |
| 57.5° | 8333.4 | 8102.5 | 7867.1  | 7620.0  | 7406.5  | 7263.9  | 7342.8  | 7393.8  |
| 60°   | 8949.3 | 8752.1 | 8507.4  | 8234.8  | 8019.0  | 7874.0  | 7919.3  | 7964.5  |
| 62.5° | 9436.5 | 9513.1 | 9305.5  | 8989.9  | 8712.7  | 8527.1  | 8571.2  | 8618.7  |
| 65°   | 9201.1 | 9986.4 | 10170.8 | 9851.8  | 9467.9  | 9179.0  | 9160.5  | 9184.8  |
| 67.5° | 7690.7 | 9216.1 | 10328.6 | 10632.5 | 10311.2 | 9909.8  | 9835.6  | 9871.5  |
| 70°   | 5144.6 | 7044.6 | 9007.3  | 10468.9 | 10857.5 | 10702.1 | 10629.0 | 10651.0 |
| 72.5° | 2470.8 | 4102.9 | 6110.8  | 8053.8  | 9237.0  | 9779.9  | 9953.9  | 10038.6 |
| 75°   | 903.6  | 1628.6 | 2945.2  | 4438.1  | 5358.0  | 6202.5  | 6753.5  | 6978.5  |
| 77.5° | 545.2  | 657.7  | 940.8   | 1416.4  | 1604.3  | 1795.7  | 1721.4  | 1758.5  |
| 80°   | 403.7  | 455.9  | 516.2   | 580.0   | 600.9   | 600.9   | 577.7   | 559.1   |
| 82.5° | 283.0  | 316.7  | 345.7   | 380.5   | 389.8   | 372.4   | 306.2   | 243.6   |
| 85°   | 182.1  | 197.2  | 210.0   | 232.0   | 226.2   | 215.8   | 145.0   | 128.8   |
| 87.5° | 83.5   | 95.1   | 99.8    | 110.2   | 105.6   | 100.9   | 71.9    | 60.3    |
| 90°   | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)