

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: P190843

Luminaire Tested: **GAN-AF-05-LED-U-5NQ-800-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190843  
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-800-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25363 lumens  
Efficiency: N/A  
Efficacy: 120.8 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

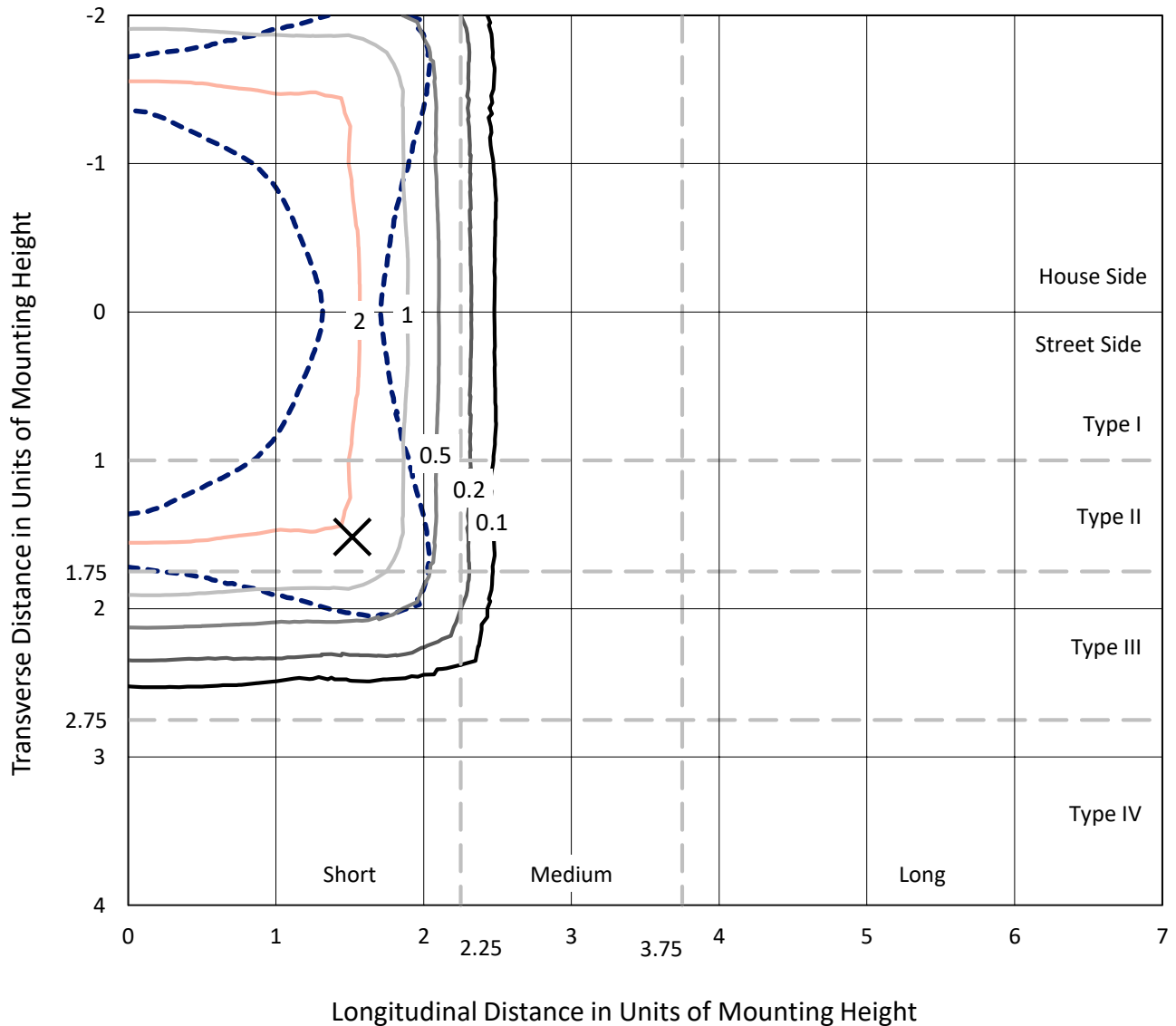
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

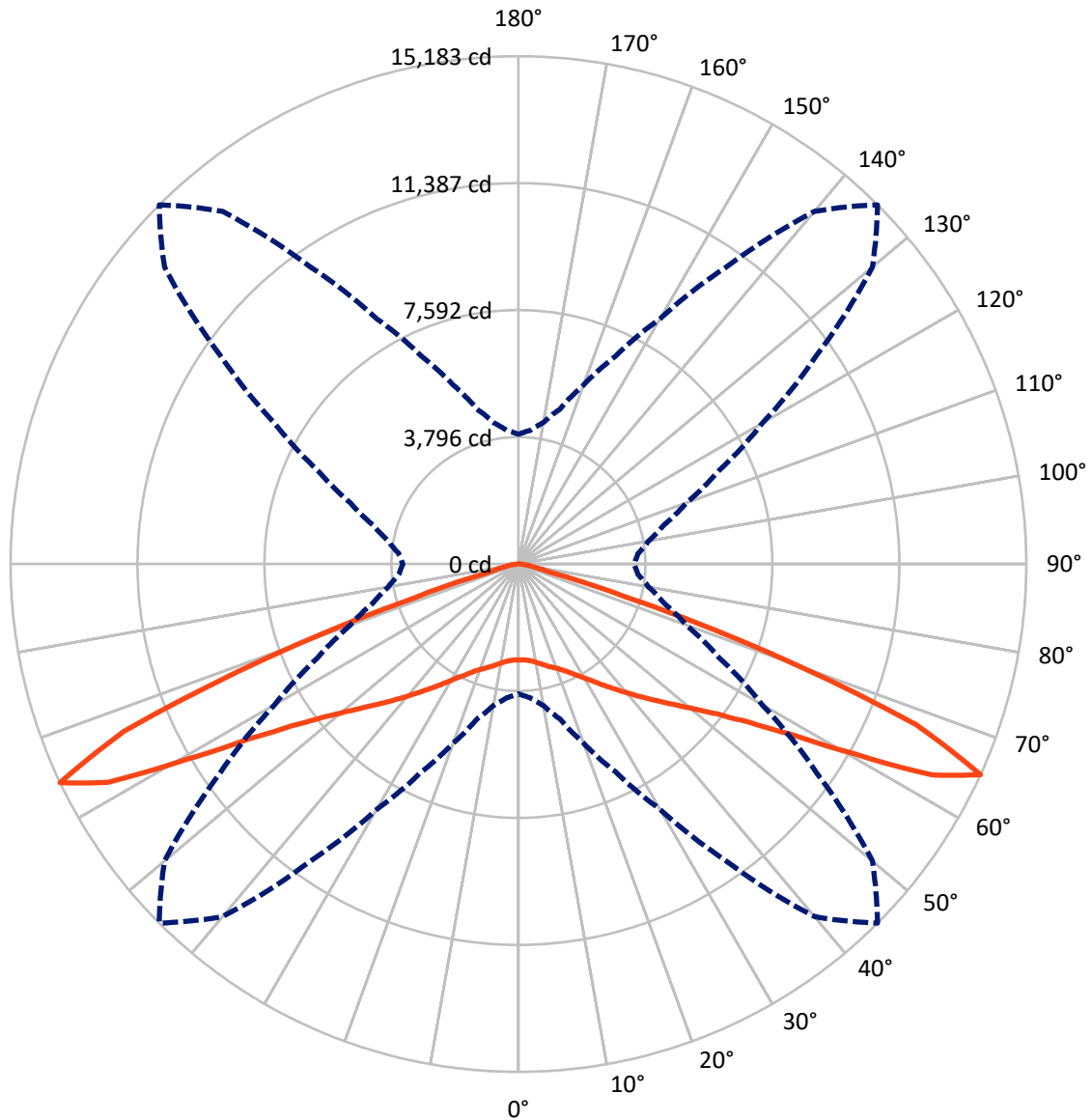
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 12681.5  | 0.0    | 12681.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 12681.5  | 0.0    | 12681.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 25363.0  | 0.0    | 25363.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 279.7   | 1.1       |
| 10°-20°   | 897.1   | 3.5       |
| 20°-30°   | 1677.4  | 6.6       |
| 30°-40°   | 2837.0  | 11.2      |
| 40°-50°   | 4638.8  | 18.3      |
| 50°-60°   | 7376.4  | 29.1      |
| 60°-70°   | 6667.7  | 26.3      |
| 70°-80°   | 843.8   | 3.3       |
| 80°-90°   | 145.2   | 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°    | 25363.0 | 100.0     |
| 0°-180°   | 25363.0 | 100.0     |

**Coefficient of Utilization**



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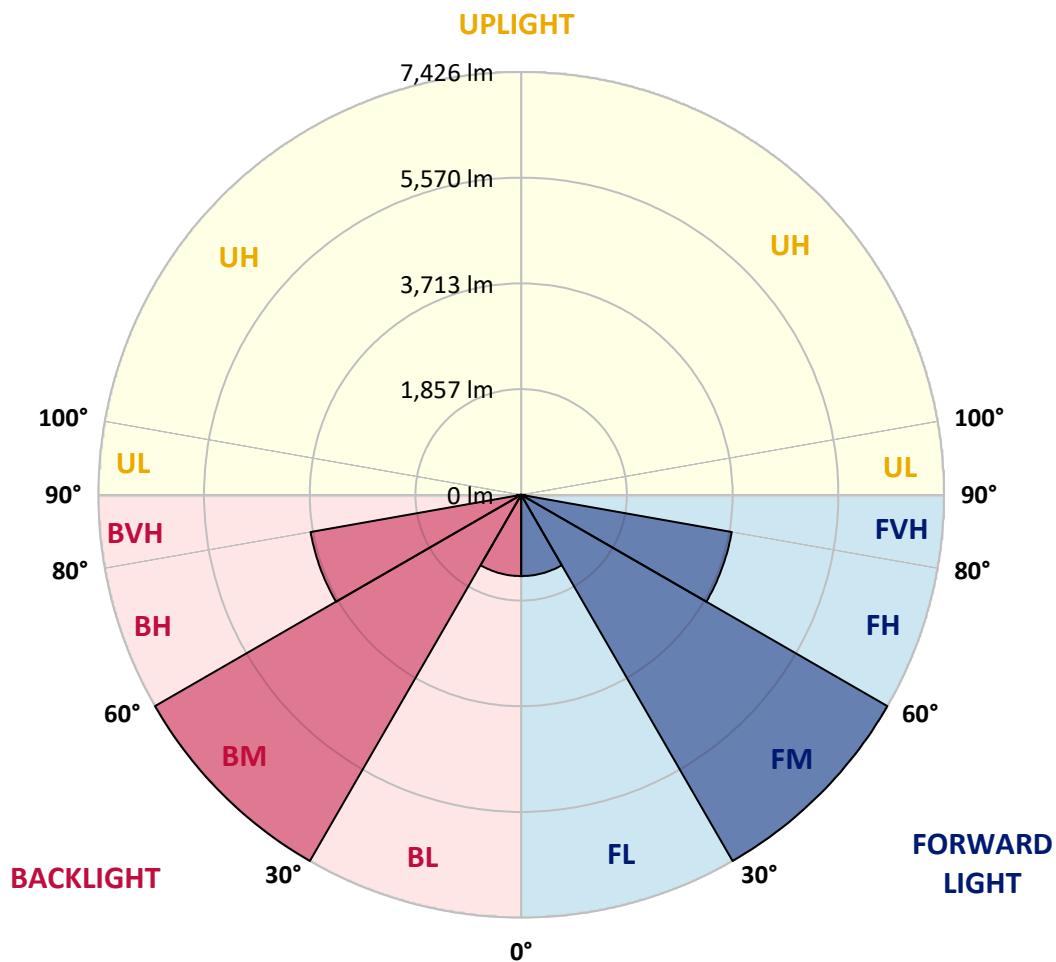
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1427.1 | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 7426.0 | 29.3      |                         |      |         |
| FH   | (60°-80°)   | 3755.8 | 14.8      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 72.6   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1427.1 | 5.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 7426.0 | 29.3      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 3755.8 | 14.8      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 72.6   | 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°    | 2869.9 | 2869.9 | 2869.9 | 2869.9 | 2869.9 | 2869.9 | 2869.9 | 2869.9  | 2869.9  | 2869.9  | 2869.9  |
| 2.5°  | 2872.2 | 2874.6 | 2876.9 | 2874.6 | 2876.9 | 2873.4 | 2871.0 | 2874.6  | 2871.0  | 2867.4  | 2869.9  |
| 5°    | 2897.2 | 2898.3 | 2898.3 | 2894.7 | 2898.3 | 2896.0 | 2892.4 | 2897.2  | 2893.6  | 2890.0  | 2892.4  |
| 7.5°  | 2938.7 | 2943.4 | 2940.0 | 2936.4 | 2938.7 | 2936.4 | 2934.0 | 2935.2  | 2934.0  | 2930.4  | 2931.6  |
| 10°   | 2994.6 | 2998.2 | 2995.7 | 2994.6 | 2996.9 | 2995.7 | 2993.4 | 2992.2  | 2993.4  | 2989.8  | 2989.8  |
| 12.5° | 3062.3 | 3061.1 | 3059.9 | 3061.1 | 3064.7 | 3064.7 | 3063.4 | 3064.7  | 3067.0  | 3068.2  | 3065.9  |
| 15°   | 3128.8 | 3131.2 | 3131.2 | 3131.2 | 3138.3 | 3144.2 | 3147.8 | 3150.2  | 3154.9  | 3156.1  | 3151.4  |
| 17.5° | 3212.0 | 3212.0 | 3210.7 | 3212.0 | 3219.0 | 3228.5 | 3232.1 | 3236.9  | 3241.6  | 3245.2  | 3239.3  |
| 20°   | 3304.6 | 3307.0 | 3307.0 | 3309.3 | 3318.9 | 3329.5 | 3329.5 | 3332.0  | 3329.5  | 3332.0  | 3328.4  |
| 22.5° | 3417.5 | 3424.5 | 3424.5 | 3425.8 | 3435.3 | 3448.4 | 3444.8 | 3448.4  | 3442.4  | 3447.1  | 3442.4  |
| 25°   | 3564.8 | 3575.4 | 3573.1 | 3573.1 | 3580.2 | 3588.5 | 3589.6 | 3596.8  | 3595.6  | 3601.6  | 3598.0  |
| 27.5° | 3731.0 | 3747.7 | 3752.4 | 3751.3 | 3756.0 | 3764.3 | 3766.7 | 3775.0  | 3770.2  | 3775.0  | 3772.6  |
| 30°   | 3930.6 | 3937.7 | 3947.3 | 3950.7 | 3956.8 | 3965.1 | 3965.1 | 3966.2  | 3960.3  | 3967.4  | 3971.0  |
| 32.5° | 4137.3 | 4150.3 | 4159.8 | 4181.2 | 4192.0 | 4197.9 | 4196.7 | 4199.0  | 4193.1  | 4202.6  | 4209.7  |
| 35°   | 4410.5 | 4420.0 | 4435.4 | 4452.1 | 4466.3 | 4465.1 | 4461.6 | 4462.7  | 4462.7  | 4471.0  | 4478.2  |
| 37.5° | 4739.5 | 4741.9 | 4762.0 | 4785.9 | 4792.9 | 4785.9 | 4764.5 | 4759.7  | 4749.0  | 4759.7  | 4771.6  |
| 40°   | 5087.5 | 5095.8 | 5136.2 | 5151.7 | 5155.3 | 5142.2 | 5111.3 | 5093.5  | 5069.7  | 5082.8  | 5099.4  |
| 42.5° | 5452.2 | 5468.9 | 5505.7 | 5533.0 | 5544.9 | 5536.5 | 5493.8 | 5466.4  | 5435.6  | 5442.7  | 5459.4  |
| 45°   | 5856.1 | 5876.2 | 5928.5 | 5954.7 | 5977.2 | 5964.2 | 5922.6 | 5881.0  | 5832.4  | 5835.9  | 5862.0  |
| 47.5° | 6307.5 | 6327.7 | 6395.4 | 6439.4 | 6451.2 | 6448.8 | 6402.5 | 6345.5  | 6279.0  | 6276.6  | 6299.1  |
| 50°   | 6813.5 | 6833.7 | 6918.0 | 6985.7 | 7020.2 | 7016.6 | 6962.0 | 6881.2  | 6800.5  | 6801.6  | 6830.1  |
| 52.5° | 7307.7 | 7332.6 | 7420.5 | 7536.9 | 7604.6 | 7653.3 | 7620.1 | 7544.1  | 7445.4  | 7447.8  | 7474.0  |
| 55°   | 7770.9 | 7812.5 | 7913.4 | 8071.4 | 8197.3 | 8334.0 | 8373.2 | 8370.8  | 8311.4  | 8328.0  | 8354.1  |
| 57.5° | 7995.4 | 8057.2 | 8212.8 | 8462.3 | 8718.8 | 8996.8 | 9231.9 | 9407.8  | 9482.5  | 9595.5  | 9569.3  |
| 60°   | 7570.1 | 7668.8 | 7898.0 | 8265.0 | 8772.2 | 9351.9 | 9973.2 | 10580.2 | 11098.1 | 11488.9 | 11264.3 |
| 62.5° | 6198.2 | 6326.4 | 6604.5 | 7074.8 | 7842.1 | 8769.9 | 9958.9 | 11393.8 | 12957.0 | 13900.2 | 13226.7 |
| 65°   | 3878.3 | 4011.4 | 4294.0 | 4797.7 | 5695.7 | 6849.2 | 8462.3 | 10840.3 | 13761.2 | 15183.0 | 13812.3 |
| 67.5° | 1512.1 | 1584.6 | 1737.8 | 2059.7 | 2734.4 | 3760.8 | 5379.8 | 8078.5  | 11572.0 | 12818.1 | 11357.0 |
| 70°   | 757.8  | 765.0  | 793.5  | 852.8  | 997.8  | 1296.0 | 1971.8 | 3745.3  | 6636.5  | 8015.6  | 6397.7  |
| 72.5° | 547.6  | 548.8  | 563.0  | 589.2  | 635.5  | 702.1  | 830.3  | 1146.3  | 2158.3  | 3298.6  | 2022.9  |
| 75°   | 419.3  | 424.0  | 432.4  | 446.6  | 471.6  | 504.8  | 551.2  | 660.4   | 818.5   | 949.1   | 798.2   |
| 77.5° | 323.0  | 332.6  | 338.5  | 351.6  | 367.0  | 389.6  | 402.6  | 444.3   | 516.7   | 544.0   | 535.7   |
| 80°   | 245.9  | 254.2  | 267.3  | 277.9  | 288.7  | 299.3  | 294.6  | 313.6   | 351.6   | 374.2   | 362.3   |
| 82.5° | 156.8  | 166.3  | 204.3  | 213.8  | 218.6  | 225.7  | 217.4  | 218.6   | 235.2   | 249.5   | 235.2   |
| 85°   | 101.0  | 106.9  | 129.5  | 141.4  | 142.5  | 147.3  | 143.7  | 135.4   | 135.4   | 123.6   | 139.0   |
| 87.5° | 46.3   | 47.5   | 58.2   | 68.8   | 71.3   | 64.1   | 62.9   | 60.6    | 48.7    | 46.3    | 49.9    |
| 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°    | 2869.9  | 2869.9  | 2869.9 | 2869.9 | 2869.9 | 2869.9 | 2869.9 | 2869.9 |
| 2.5°  | 2868.7  | 2871.0  | 2872.2 | 2875.8 | 2876.9 | 2876.9 | 2878.2 | 2880.5 |
| 5°    | 2891.3  | 2894.7  | 2896.0 | 2900.7 | 2901.9 | 2900.7 | 2903.1 | 2904.3 |
| 7.5°  | 2931.6  | 2937.5  | 2940.0 | 2944.7 | 2941.1 | 2945.9 | 2947.0 | 2947.0 |
| 10°   | 2991.0  | 2996.9  | 2998.2 | 3002.9 | 3000.5 | 3002.9 | 3002.9 | 3000.5 |
| 12.5° | 3069.4  | 3070.6  | 3067.0 | 3070.6 | 3065.9 | 3068.2 | 3064.7 | 3062.3 |
| 15°   | 3156.1  | 3152.5  | 3144.2 | 3144.2 | 3137.1 | 3138.3 | 3137.1 | 3136.0 |
| 17.5° | 3240.4  | 3233.3  | 3227.4 | 3225.1 | 3219.0 | 3217.9 | 3214.3 | 3214.3 |
| 20°   | 3333.1  | 3329.5  | 3326.0 | 3321.2 | 3315.3 | 3309.3 | 3308.1 | 3310.6 |
| 22.5° | 3444.8  | 3443.6  | 3443.6 | 3441.2 | 3432.9 | 3427.0 | 3423.4 | 3423.4 |
| 25°   | 3594.4  | 3583.7  | 3583.7 | 3582.6 | 3579.0 | 3575.4 | 3568.3 | 3571.8 |
| 27.5° | 3763.1  | 3757.2  | 3761.9 | 3760.8 | 3757.2 | 3757.2 | 3752.4 | 3752.4 |
| 30°   | 3971.0  | 3968.6  | 3975.7 | 3969.8 | 3957.9 | 3956.8 | 3952.0 | 3946.0 |
| 32.5° | 4210.9  | 4208.5  | 4219.3 | 4212.1 | 4193.1 | 4182.4 | 4172.9 | 4168.1 |
| 35°   | 4478.2  | 4479.4  | 4492.5 | 4487.7 | 4466.3 | 4459.1 | 4442.6 | 4440.2 |
| 37.5° | 4770.4  | 4789.5  | 4812.0 | 4816.8 | 4798.9 | 4794.2 | 4776.4 | 4766.8 |
| 40°   | 5113.7  | 5138.6  | 5173.1 | 5181.3 | 5162.4 | 5158.8 | 5133.9 | 5120.8 |
| 42.5° | 5479.5  | 5522.3  | 5565.1 | 5572.2 | 5553.2 | 5534.2 | 5510.4 | 5500.9 |
| 45°   | 5888.2  | 5939.3  | 5995.1 | 6009.3 | 5980.8 | 5958.3 | 5927.4 | 5927.4 |
| 47.5° | 6346.7  | 6410.8  | 6473.7 | 6512.9 | 6486.8 | 6463.1 | 6426.3 | 6402.5 |
| 50°   | 6888.3  | 6976.2  | 7058.2 | 7098.6 | 7057.0 | 7011.9 | 6947.7 | 6926.3 |
| 52.5° | 7567.8  | 7662.8  | 7734.1 | 7712.7 | 7648.6 | 7585.6 | 7515.5 | 7487.0 |
| 55°   | 8434.9  | 8467.0  | 8467.0 | 8386.3 | 8257.9 | 8152.2 | 8041.7 | 8004.9 |
| 57.5° | 9519.4  | 9395.9  | 9205.8 | 8964.7 | 8661.8 | 8398.1 | 8219.9 | 8135.5 |
| 60°   | 10794.0 | 10200.0 | 9528.9 | 8869.7 | 8328.0 | 7881.3 | 7616.5 | 7495.4 |
| 62.5° | 11643.3 | 10089.6 | 8744.9 | 7686.6 | 6907.4 | 6369.2 | 6003.4 | 5860.9 |
| 65°   | 10881.8 | 8414.7  | 6614.0 | 5347.7 | 4498.4 | 3950.7 | 3588.5 | 3455.4 |
| 67.5° | 7970.4  | 5272.9  | 3522.0 | 2524.1 | 1849.5 | 1475.3 | 1326.9 | 1265.1 |
| 70°   | 3577.8  | 1856.7  | 1137.9 | 888.5  | 766.2  | 703.2  | 675.9  | 666.4  |
| 72.5° | 1078.6  | 780.4   | 658.1  | 593.9  | 545.2  | 514.3  | 491.7  | 489.4  |
| 75°   | 650.9   | 541.7   | 481.1  | 443.0  | 412.1  | 387.3  | 375.3  | 371.8  |
| 77.5° | 454.9   | 397.9   | 369.4  | 342.1  | 318.3  | 299.3  | 288.7  | 280.3  |
| 80°   | 319.6   | 292.3   | 279.2  | 263.7  | 248.3  | 230.5  | 215.0  | 207.9  |
| 82.5° | 213.8   | 207.9   | 207.9  | 198.4  | 185.3  | 168.7  | 137.8  | 130.6  |
| 85°   | 137.8   | 136.6   | 139.0  | 135.4  | 125.9  | 108.1  | 89.1   | 84.3   |
| 87.5° | 64.1    | 65.4    | 72.4   | 71.3   | 68.8   | 57.0   | 45.1   | 42.8   |
| 90°   | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)