

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: McGRAW-EDISON

Report Number: P193354

Luminaire Tested: **GLEON-AF-06-LED-E1-5MQ-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193354  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-06-LED-E1-5MQ-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30518 lumens  
Efficiency: N/A  
Efficacy: 91.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G3

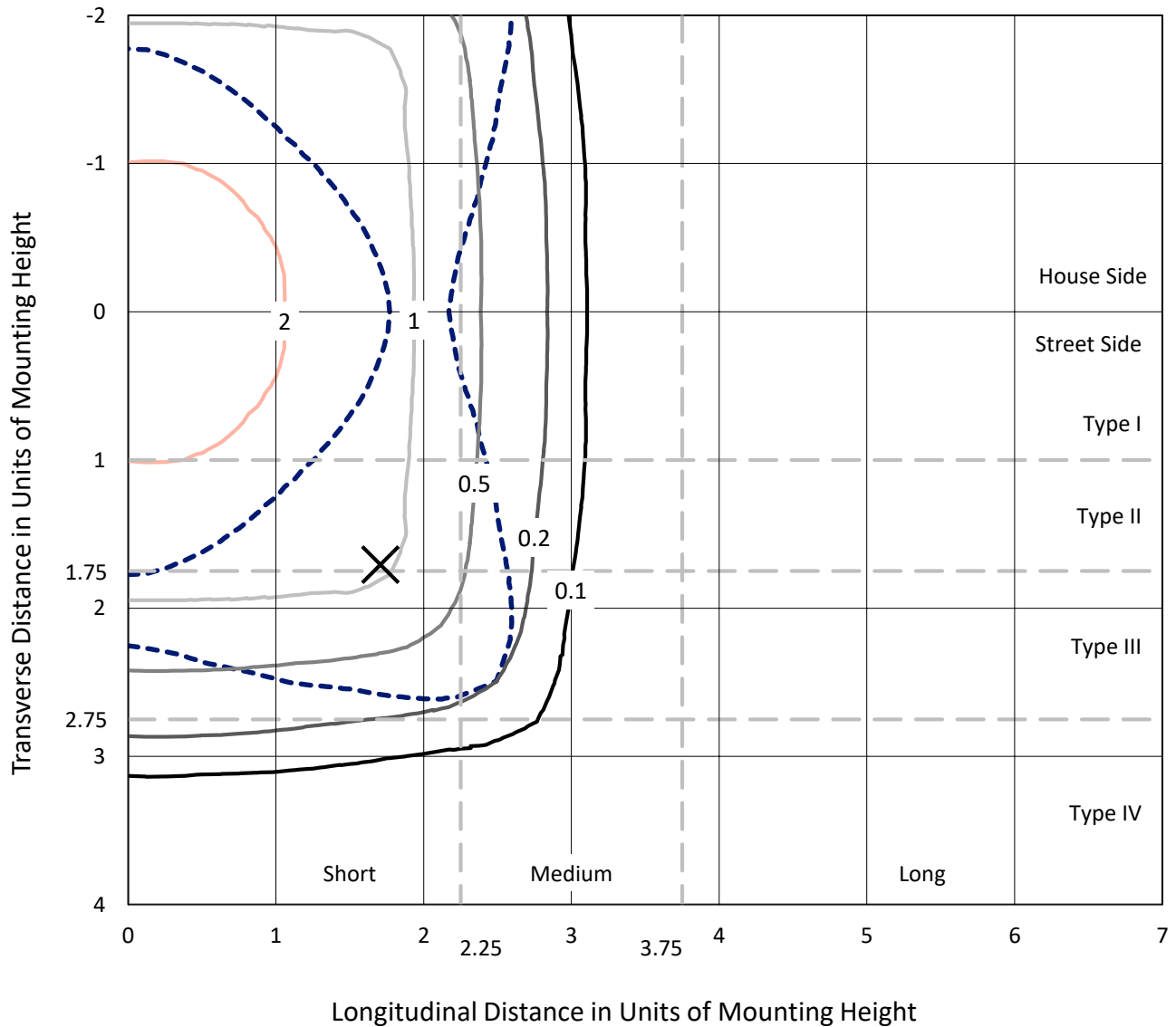
Input Watts (W): 333  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

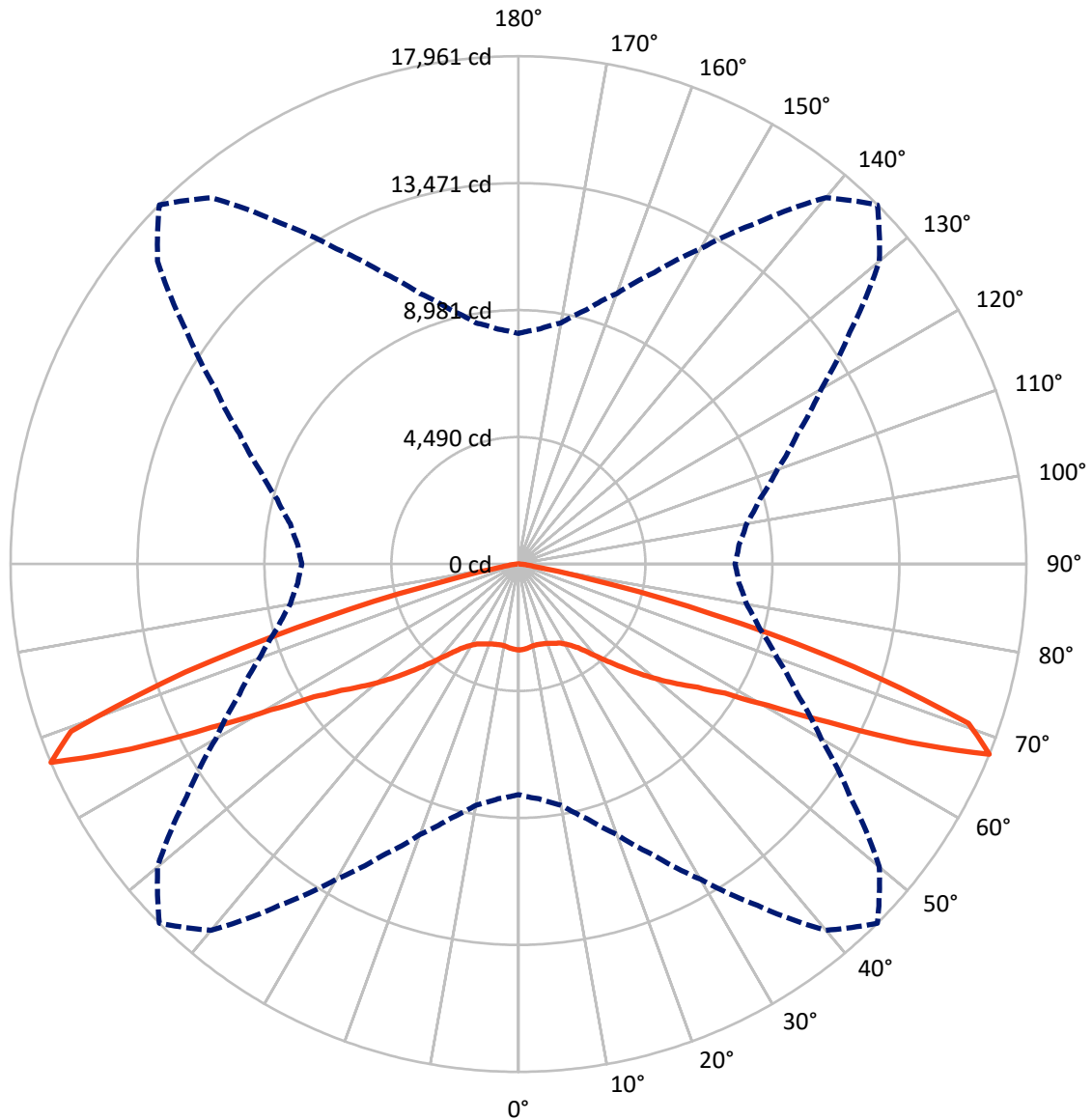
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.4 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 15259.0  | 0.0    | 15259.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 15259.0  | 0.0    | 15259.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 30518.0  | 0.0    | 30518.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 284.6   | 0.9       |
| 10°-20°   | 826.0   | 2.7       |
| 20°-30°   | 1404.2  | 4.6       |
| 30°-40°   | 2295.4  | 7.5       |
| 40°-50°   | 4097.7  | 13.4      |
| 50°-60°   | 6908.8  | 22.6      |
| 60°-70°   | 10721.4 | 35.1      |
| 70°-80°   | 3767.0  | 12.3      |
| 80°-90°   | 212.9   | 0.7       |
| 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°    | 30518.0 | 100.0     |
| 0°-180°   | 30518.0 | 100.0     |



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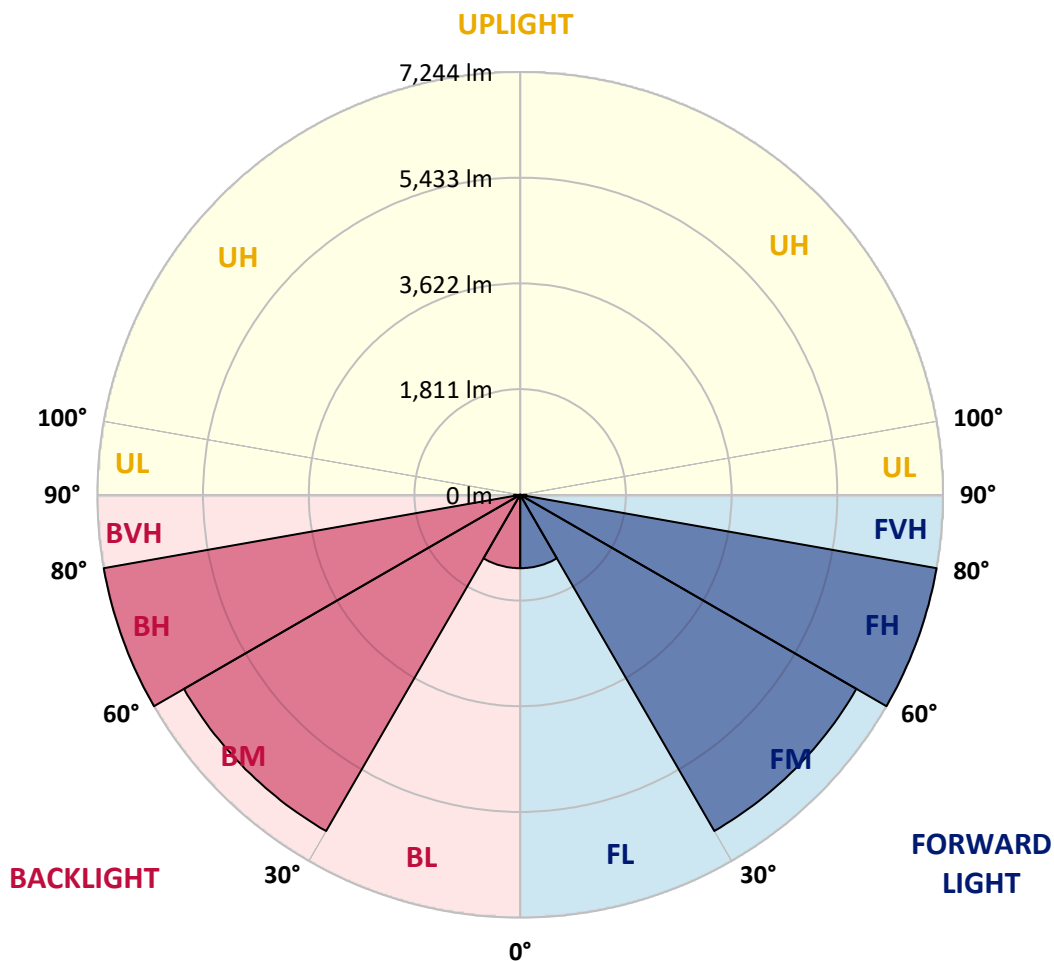
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1257.4 | 4.1       |                         |      |         |
| FM   | (30°-60°)   | 6650.9 | 21.8      |                         |      |         |
| FH   | (60°-80°)   | 7244.2 | 23.7      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 106.4  | 0.3       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1257.4 | 4.1       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 6650.9 | 21.8      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 7244.2 | 23.7      | B5                      |      | G3/7500 |
| BVH  | (80°-90°)   | 106.4  | 0.3       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°     | 20°     | 25°     | 30°     | 35°     | 40°     | 45°     | 50°     |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3041.2 | 3041.2 | 3041.2 | 3041.2  | 3041.2  | 3041.2  | 3041.2  | 3041.2  | 3041.2  | 3041.2  | 3041.2  |
| 2.5°  | 3030.0 | 3032.8 | 3032.8 | 3032.8  | 3031.4  | 3031.4  | 3028.6  | 3031.4  | 3030.0  | 3025.8  | 3027.2  |
| 5°    | 3004.8 | 3007.6 | 3007.6 | 3006.2  | 3010.4  | 3009.0  | 3004.8  | 3007.6  | 3006.2  | 3003.4  | 3004.8  |
| 7.5°  | 2968.3 | 2972.5 | 2972.5 | 2971.1  | 2975.3  | 2973.9  | 2971.1  | 2972.5  | 2972.5  | 2968.3  | 2968.3  |
| 10°   | 2927.6 | 2930.4 | 2930.4 | 2929.0  | 2936.0  | 2936.0  | 2934.6  | 2938.8  | 2940.2  | 2936.0  | 2933.2  |
| 12.5° | 2889.7 | 2893.9 | 2893.9 | 2899.5  | 2906.5  | 2909.3  | 2916.3  | 2922.0  | 2927.6  | 2926.2  | 2920.6  |
| 15°   | 2867.2 | 2870.0 | 2875.6 | 2882.7  | 2893.9  | 2903.7  | 2914.9  | 2927.6  | 2938.8  | 2941.6  | 2933.2  |
| 17.5° | 2853.2 | 2857.4 | 2865.8 | 2875.6  | 2891.1  | 2907.9  | 2924.8  | 2941.6  | 2957.0  | 2962.7  | 2952.8  |
| 20°   | 2849.0 | 2851.8 | 2860.2 | 2877.0  | 2898.1  | 2923.4  | 2947.2  | 2966.9  | 2987.9  | 2994.9  | 2987.9  |
| 22.5° | 2857.4 | 2863.0 | 2872.8 | 2892.5  | 2920.6  | 2952.8  | 2980.9  | 3007.6  | 3034.2  | 3046.9  | 3037.0  |
| 25°   | 2895.3 | 2900.9 | 2913.5 | 2938.8  | 2969.7  | 3003.4  | 3035.6  | 3066.5  | 3090.4  | 3103.0  | 3096.0  |
| 27.5° | 2965.5 | 2972.5 | 2987.9 | 3013.2  | 3046.9  | 3083.4  | 3118.4  | 3143.7  | 3163.3  | 3167.6  | 3159.1  |
| 30°   | 3070.7 | 3086.2 | 3104.4 | 3132.5  | 3171.8  | 3202.6  | 3237.7  | 3260.2  | 3284.0  | 3284.0  | 3277.0  |
| 32.5° | 3234.9 | 3250.4 | 3270.0 | 3296.7  | 3327.5  | 3361.2  | 3392.1  | 3411.8  | 3437.0  | 3438.4  | 3421.6  |
| 35°   | 3480.5 | 3487.5 | 3504.4 | 3521.2  | 3549.3  | 3578.8  | 3605.4  | 3618.1  | 3639.1  | 3640.5  | 3625.1  |
| 37.5° | 3804.7 | 3806.1 | 3817.3 | 3823.0  | 3848.2  | 3880.5  | 3905.8  | 3914.2  | 3933.8  | 3931.0  | 3915.6  |
| 40°   | 4182.2 | 4189.3 | 4193.5 | 4201.9  | 4228.6  | 4259.4  | 4286.1  | 4290.3  | 4311.4  | 4307.1  | 4287.5  |
| 42.5° | 4618.7 | 4621.5 | 4645.4 | 4658.0  | 4683.3  | 4698.7  | 4732.4  | 4736.6  | 4761.9  | 4750.6  | 4728.2  |
| 45°   | 5108.5 | 5133.8 | 5156.2 | 5181.5  | 5208.2  | 5226.4  | 5253.1  | 5247.4  | 5264.3  | 5247.4  | 5234.8  |
| 47.5° | 5623.6 | 5641.8 | 5692.3 | 5731.6  | 5775.1  | 5790.6  | 5828.5  | 5811.6  | 5828.5  | 5804.6  | 5800.4  |
| 50°   | 6190.6 | 6222.8 | 6266.3 | 6311.3  | 6357.6  | 6382.8  | 6432.0  | 6410.9  | 6433.4  | 6410.9  | 6398.3  |
| 52.5° | 6749.1 | 6757.5 | 6853.0 | 6918.9  | 6983.5  | 7013.0  | 7042.4  | 7032.6  | 7034.0  | 7032.6  | 7020.0  |
| 55°   | 7279.6 | 7299.3 | 7394.7 | 7484.5  | 7596.8  | 7679.6  | 7730.1  | 7724.5  | 7711.9  | 7699.3  | 7678.2  |
| 57.5° | 7877.5 | 7897.1 | 8006.6 | 8117.5  | 8245.2  | 8363.1  | 8465.5  | 8570.8  | 8611.5  | 8622.7  | 8576.4  |
| 60°   | 8685.9 | 8684.5 | 8830.4 | 8965.2  | 9147.6  | 9323.0  | 9547.6  | 9776.3  | 10038.8 | 10160.9 | 9999.5  |
| 62.5° | 9508.3 | 9542.0 | 9752.5 | 9991.1  | 10367.2 | 10733.5 | 11147.5 | 11554.5 | 11969.9 | 12308.1 | 11948.9 |
| 65°   | 9410.0 | 9539.2 | 9852.1 | 10392.4 | 11087.2 | 11912.4 | 12805.0 | 13749.5 | 14602.8 | 15189.4 | 14531.2 |
| 67.5° | 8155.4 | 8339.2 | 8657.8 | 9314.6  | 10183.3 | 11373.5 | 12872.3 | 14740.3 | 16911.4 | 17961.2 | 16660.2 |
| 70°   | 5911.3 | 6119.0 | 6453.0 | 7094.4  | 7954.7  | 9085.8  | 10713.8 | 12956.5 | 15830.8 | 16889.0 | 15456.0 |
| 72.5° | 2941.6 | 3053.9 | 3260.2 | 3668.6  | 4319.8  | 5237.6  | 6714.0  | 8869.7  | 11412.7 | 12383.9 | 11074.5 |
| 75°   | 999.2  | 1051.2 | 1086.3 | 1219.6  | 1425.9  | 1786.6  | 2520.6  | 3877.7  | 5915.5  | 7091.6  | 5831.3  |
| 77.5° | 576.8  | 578.2  | 602.1  | 625.9   | 661.0   | 700.3   | 798.6   | 1048.4  | 1813.2  | 2575.3  | 1876.4  |
| 80°   | 373.3  | 371.9  | 391.6  | 409.8   | 433.7   | 453.3   | 458.9   | 485.6   | 560.0   | 663.8   | 593.7   |
| 82.5° | 193.7  | 217.5  | 261.0  | 284.9   | 329.8   | 338.2   | 327.0   | 317.2   | 335.4   | 348.1   | 356.5   |
| 85°   | 106.7  | 92.6   | 138.9  | 179.6   | 199.3   | 202.1   | 202.1   | 190.9   | 197.9   | 193.7   | 210.5   |
| 87.5° | 49.1   | 44.9   | 54.7   | 88.4    | 94.0    | 80.0    | 84.2    | 74.4    | 53.3    | 51.9    | 58.9    |
| 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°    | 3041.2  | 3041.2  | 3041.2  | 3041.2  | 3041.2  | 3041.2 | 3041.2 | 3041.2 |
| 2.5°  | 3027.2  | 3028.6  | 3028.6  | 3032.8  | 3034.2  | 3037.0 | 3039.8 | 3041.2 |
| 5°    | 3003.4  | 3007.6  | 3004.8  | 3009.0  | 3009.0  | 3011.8 | 3011.8 | 3013.2 |
| 7.5°  | 2968.3  | 2972.5  | 2972.5  | 2972.5  | 2971.1  | 2975.3 | 2975.3 | 2975.3 |
| 10°   | 2931.8  | 2934.6  | 2933.2  | 2930.4  | 2927.6  | 2931.8 | 2930.4 | 2929.0 |
| 12.5° | 2920.6  | 2913.5  | 2907.9  | 2905.1  | 2899.5  | 2900.9 | 2896.7 | 2896.7 |
| 15°   | 2927.6  | 2914.9  | 2905.1  | 2900.9  | 2895.3  | 2892.5 | 2889.7 | 2891.1 |
| 17.5° | 2945.8  | 2930.4  | 2917.7  | 2910.7  | 2903.7  | 2899.5 | 2893.9 | 2895.3 |
| 20°   | 2978.1  | 2959.8  | 2941.6  | 2927.6  | 2914.9  | 2907.9 | 2903.7 | 2902.3 |
| 22.5° | 3025.8  | 2999.1  | 2972.5  | 2951.4  | 2934.6  | 2924.8 | 2920.6 | 2917.7 |
| 25°   | 3080.5  | 3051.1  | 3020.2  | 2996.3  | 2979.5  | 2966.9 | 2958.4 | 2958.4 |
| 27.5° | 3149.3  | 3125.5  | 3097.4  | 3069.3  | 3053.9  | 3041.2 | 3035.6 | 3032.8 |
| 30°   | 3264.4  | 3241.9  | 3219.5  | 3192.8  | 3173.2  | 3160.5 | 3150.7 | 3142.3 |
| 32.5° | 3411.8  | 3393.5  | 3375.3  | 3355.6  | 3337.4  | 3320.5 | 3305.1 | 3298.1 |
| 35°   | 3619.5  | 3605.4  | 3592.8  | 3570.3  | 3563.3  | 3553.5 | 3545.1 | 3538.1 |
| 37.5° | 3905.8  | 3900.2  | 3900.2  | 3876.3  | 3870.7  | 3866.5 | 3858.0 | 3859.5 |
| 40°   | 4281.9  | 4287.5  | 4280.5  | 4272.1  | 4267.9  | 4256.6 | 4256.6 | 4266.4 |
| 42.5° | 4726.8  | 4731.0  | 4746.4  | 4732.4  | 4747.8  | 4733.8 | 4725.4 | 4732.4 |
| 45°   | 5243.2  | 5258.7  | 5289.6  | 5275.5  | 5285.3  | 5261.5 | 5232.0 | 5233.4 |
| 47.5° | 5822.9  | 5836.9  | 5849.5  | 5839.7  | 5841.1  | 5801.8 | 5762.5 | 5752.7 |
| 50°   | 6424.9  | 6430.5  | 6437.6  | 6423.5  | 6426.3  | 6382.8 | 6337.9 | 6339.3 |
| 52.5° | 7020.0  | 7046.7  | 7074.7  | 7036.8  | 7028.4  | 6979.3 | 6916.1 | 6890.9 |
| 55°   | 7700.7  | 7738.6  | 7706.3  | 7640.3  | 7574.3  | 7508.4 | 7425.6 | 7411.5 |
| 57.5° | 8539.9  | 8475.4  | 8374.3  | 8249.4  | 8158.2  | 8065.6 | 7981.3 | 7946.3 |
| 60°   | 9707.6  | 9464.8  | 9282.3  | 9097.1  | 8980.6  | 8866.9 | 8756.0 | 8739.2 |
| 62.5° | 11358.0 | 10938.4 | 10574.9 | 10191.8 | 9878.8  | 9634.6 | 9439.5 | 9384.8 |
| 65°   | 13426.7 | 12434.4 | 11574.1 | 10771.4 | 10073.9 | 9547.6 | 9216.4 | 9070.4 |
| 67.5° | 14316.5 | 12357.3 | 10882.2 | 9742.7  | 8830.4  | 8193.3 | 7835.4 | 7657.2 |
| 70°   | 12580.4 | 10247.9 | 8643.8  | 7502.8  | 6671.9  | 5992.7 | 5668.5 | 5477.6 |
| 72.5° | 8655.0  | 6519.0  | 5154.8  | 4207.5  | 3543.7  | 2975.3 | 2750.7 | 2733.9 |
| 75°   | 3886.1  | 2573.9  | 1773.9  | 1366.9  | 1150.8  | 1000.7 | 954.3  | 919.3  |
| 77.5° | 1087.7  | 804.2   | 717.2   | 670.8   | 625.9   | 574.0  | 554.4  | 558.6  |
| 80°   | 529.1   | 499.6   | 480.0   | 450.5   | 409.8   | 366.3  | 346.6  | 355.1  |
| 82.5° | 350.9   | 346.6   | 359.3   | 338.2   | 279.3   | 237.2  | 199.3  | 182.4  |
| 85°   | 213.3   | 216.1   | 220.3   | 221.7   | 188.1   | 131.9  | 89.8   | 101.0  |
| 87.5° | 84.2    | 96.8    | 105.3   | 109.5   | 102.5   | 63.2   | 50.5   | 51.9   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    |

(END OF REPORT)