

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: P194234

Luminaire Tested: **GLEON-AF-06-LED-E1-5WQ-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194234  
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: MCGRAW-EDISON  
Catalog Number: GLEON-AF-06-LED-E1-5WQ-7060  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37499 lumens  
Efficiency: N/A  
Efficacy: 112.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B5 - U0 - G4

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

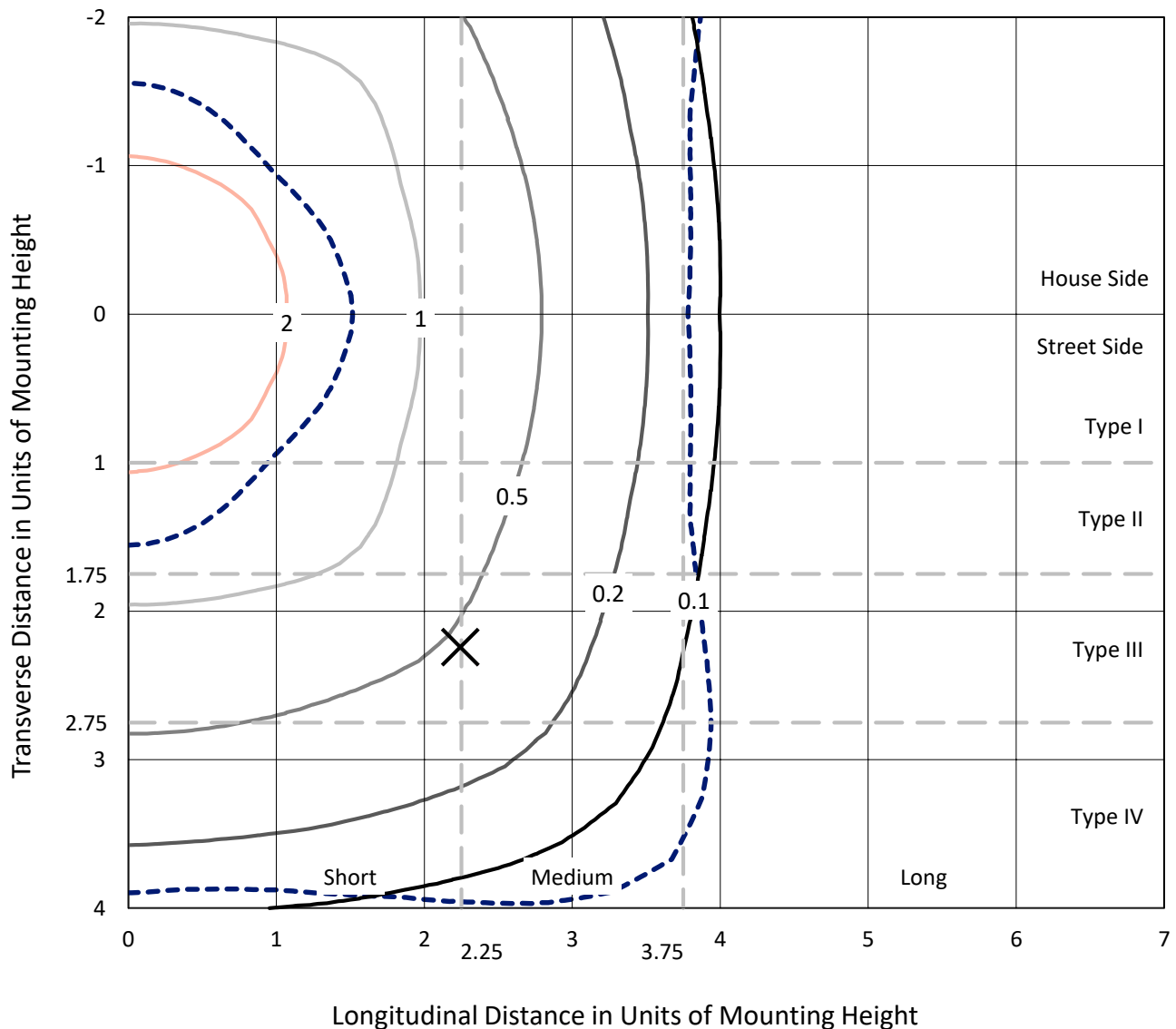


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

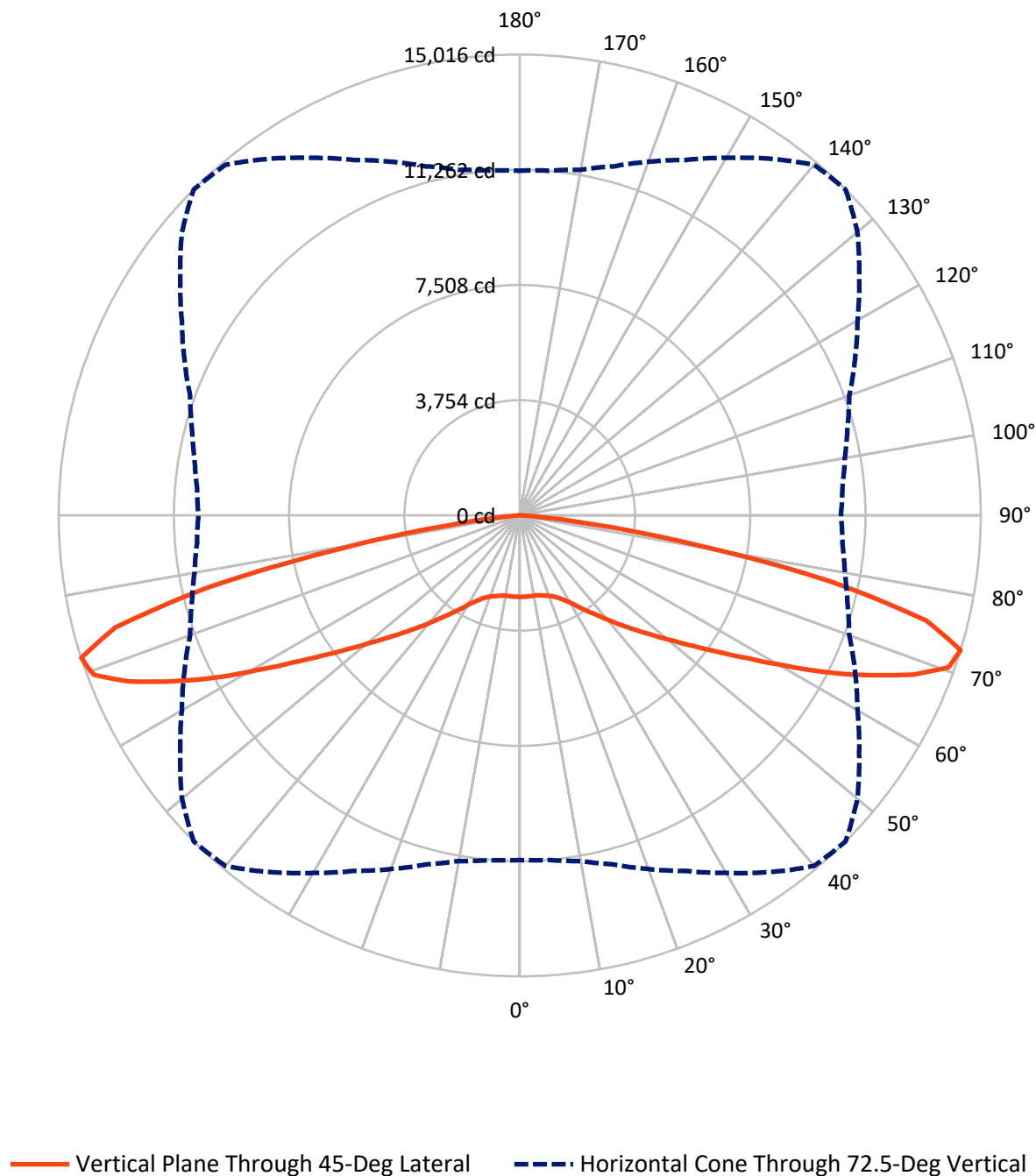


Based on 30 foot mounting height. Maximum calculated value = 3 fc  
 Type V - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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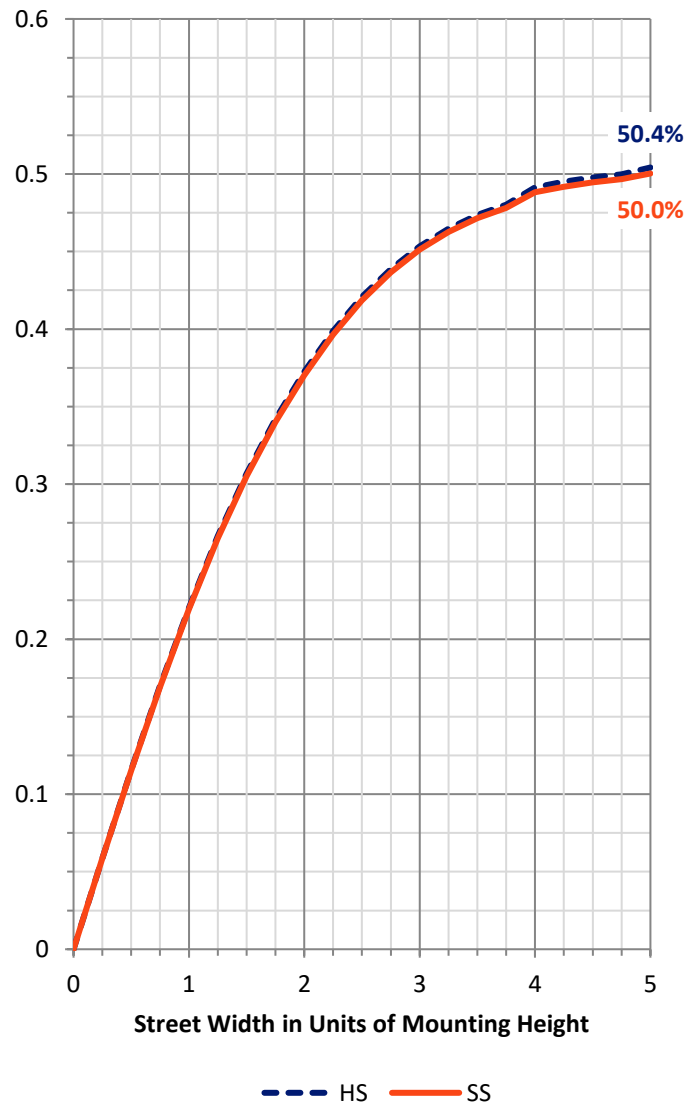
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 18749.5  | 0.0    | 18749.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 18749.5  | 0.0    | 18749.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 37499.0  | 0.0    | 37499.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 253.6   | 0.7       |
| 10°-20°   | 770.1   | 2.1       |
| 20°-30°   | 1407.3  | 3.8       |
| 30°-40°   | 2426.5  | 6.5       |
| 40°-50°   | 4148.0  | 11.1      |
| 50°-60°   | 6723.4  | 17.9      |
| 60°-70°   | 11153.9 | 29.7      |
| 70°-80°   | 9824.0  | 26.2      |
| 80°-90°   | 792.1   | 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°    | 37499.0 | 100.0     |
| 0°-180°   | 37499.0 | 100.0     |

**Coefficient of Utilization**



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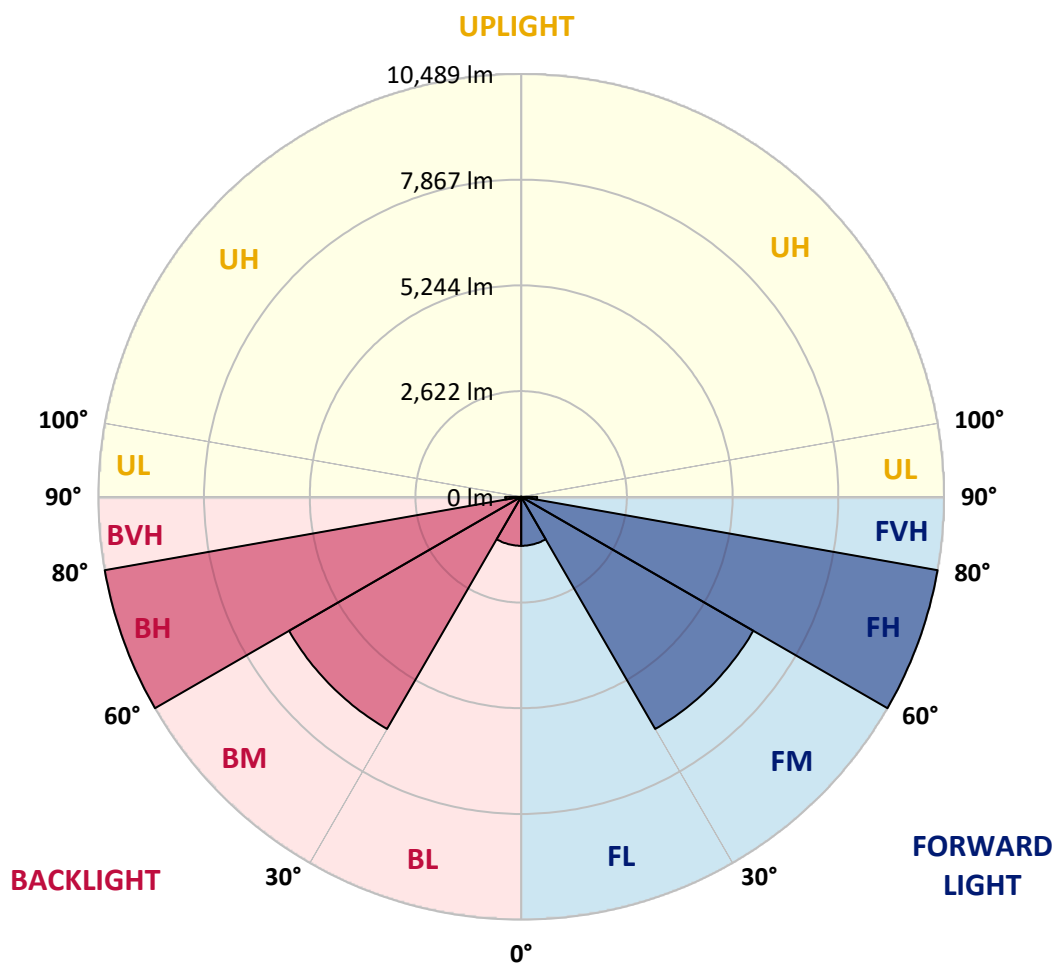
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1215.5  | 3.2       |                         |      |          |
| FM   | (30°-60°)   | 6649.0  | 17.7      |                         |      |          |
| FH   | (60°-80°)   | 10489.0 | 28.0      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 396.0   | 1.1       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1215.5  | 3.2       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 6649.0  | 17.7      | B4/8500                 |      |          |
| BH   | (60°-80°)   | 10489.0 | 28.0      | B5                      |      | G4/12000 |
| BVH  | (80°-90°)   | 396.0   | 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°    | 2655.5  | 2655.5  | 2655.5  | 2655.5  | 2655.5  | 2655.5  | 2655.5  | 2655.5  | 2655.5  | 2655.5  | 2655.5  |
| 2.5°  | 2655.5  | 2657.2  | 2659.0  | 2657.2  | 2657.2  | 2655.5  | 2653.8  | 2655.5  | 2653.8  | 2650.4  | 2652.1  |
| 5°    | 2664.1  | 2667.6  | 2667.6  | 2664.1  | 2665.8  | 2664.1  | 2660.7  | 2662.4  | 2659.0  | 2653.8  | 2653.8  |
| 7.5°  | 2674.4  | 2676.2  | 2676.2  | 2672.7  | 2674.4  | 2671.0  | 2667.6  | 2665.8  | 2662.4  | 2655.5  | 2650.4  |
| 10°   | 2689.9  | 2691.6  | 2689.9  | 2686.5  | 2686.5  | 2681.3  | 2672.7  | 2669.3  | 2662.4  | 2652.1  | 2646.9  |
| 12.5° | 2707.1  | 2708.8  | 2707.1  | 2703.7  | 2701.9  | 2693.3  | 2686.5  | 2681.3  | 2676.2  | 2667.6  | 2659.0  |
| 15°   | 2731.2  | 2734.6  | 2731.2  | 2724.3  | 2719.1  | 2712.3  | 2708.8  | 2710.5  | 2712.3  | 2705.4  | 2696.8  |
| 17.5° | 2775.9  | 2777.6  | 2772.5  | 2757.0  | 2750.1  | 2743.2  | 2743.2  | 2746.7  | 2751.8  | 2748.4  | 2739.8  |
| 20°   | 2858.5  | 2853.3  | 2841.3  | 2822.3  | 2813.7  | 2801.7  | 2800.0  | 2801.7  | 2801.7  | 2800.0  | 2793.1  |
| 22.5° | 2961.7  | 2958.2  | 2942.7  | 2918.7  | 2906.6  | 2899.7  | 2889.4  | 2880.8  | 2879.1  | 2873.9  | 2867.1  |
| 25°   | 3085.5  | 3083.8  | 3064.8  | 3044.2  | 3035.6  | 3027.0  | 3018.4  | 3006.4  | 2996.1  | 2984.0  | 2977.1  |
| 27.5° | 3243.7  | 3236.8  | 3209.3  | 3199.0  | 3187.0  | 3181.8  | 3169.8  | 3156.0  | 3147.4  | 3131.9  | 3123.3  |
| 30°   | 3417.4  | 3417.4  | 3395.1  | 3391.6  | 3391.6  | 3379.6  | 3365.8  | 3341.7  | 3326.3  | 3310.8  | 3305.6  |
| 32.5° | 3591.1  | 3592.9  | 3570.5  | 3577.4  | 3582.5  | 3591.1  | 3594.6  | 3586.0  | 3575.7  | 3573.9  | 3563.6  |
| 35°   | 3842.2  | 3835.4  | 3813.0  | 3818.2  | 3816.4  | 3814.7  | 3814.7  | 3833.6  | 3837.1  | 3840.5  | 3819.9  |
| 37.5° | 4153.5  | 4153.5  | 4131.2  | 4131.2  | 4120.9  | 4110.5  | 4096.8  | 4108.8  | 4127.7  | 4132.9  | 4119.1  |
| 40°   | 4509.6  | 4521.6  | 4494.1  | 4492.4  | 4495.8  | 4463.1  | 4447.6  | 4466.6  | 4478.6  | 4499.2  | 4483.8  |
| 42.5° | 4929.2  | 4920.6  | 4893.1  | 4889.7  | 4870.7  | 4860.4  | 4846.7  | 4862.1  | 4881.1  | 4894.8  | 4900.0  |
| 45°   | 5331.7  | 5324.8  | 5293.8  | 5293.8  | 5274.9  | 5266.3  | 5273.2  | 5299.0  | 5307.6  | 5326.5  | 5345.4  |
| 47.5° | 5729.0  | 5720.4  | 5699.7  | 5708.3  | 5710.0  | 5725.5  | 5747.9  | 5772.0  | 5796.0  | 5821.8  | 5830.4  |
| 50°   | 6134.9  | 6136.6  | 6114.2  | 6134.9  | 6160.6  | 6203.6  | 6263.8  | 6303.4  | 6353.3  | 6386.0  | 6396.3  |
| 52.5° | 6504.6  | 6511.5  | 6535.6  | 6583.7  | 6635.3  | 6719.6  | 6822.8  | 6919.1  | 7001.7  | 7056.7  | 7053.3  |
| 55°   | 6948.4  | 6958.7  | 7017.2  | 7099.7  | 7184.0  | 7311.3  | 7464.3  | 7634.6  | 7772.2  | 7851.3  | 7801.4  |
| 57.5° | 7515.9  | 7538.3  | 7603.6  | 7715.4  | 7841.0  | 8006.1  | 8215.9  | 8472.2  | 8685.4  | 8792.1  | 8711.2  |
| 60°   | 8295.0  | 8308.8  | 8387.9  | 8511.7  | 8663.1  | 8867.8  | 9148.1  | 9492.1  | 9793.1  | 9934.1  | 9841.2  |
| 62.5° | 9321.8  | 9347.6  | 9411.2  | 9536.8  | 9691.6  | 9923.8  | 10266.0 | 10696.0 | 11070.9 | 11267.0 | 11057.2 |
| 65°   | 10548.1 | 10630.6 | 10684.0 | 10811.2 | 10955.7 | 11201.7 | 11559.4 | 12020.3 | 12422.8 | 12551.8 | 12309.3 |
| 67.5° | 11762.3 | 11834.6 | 11927.4 | 12073.6 | 12219.8 | 12496.7 | 12828.7 | 13275.8 | 13717.9 | 13834.8 | 13458.1 |
| 70°   | 12293.8 | 12335.1 | 12479.5 | 12679.0 | 12959.4 | 13286.2 | 13669.7 | 14171.9 | 14718.8 | 14815.1 | 14337.0 |
| 72.5° | 11229.2 | 11270.4 | 11432.1 | 11770.9 | 12259.4 | 12778.8 | 13447.8 | 14185.7 | 14908.0 | 15016.4 | 14357.7 |
| 75°   | 8492.8  | 8425.7  | 8664.8  | 9113.7  | 9772.4  | 10496.5 | 11432.1 | 12489.8 | 13533.8 | 13669.7 | 12883.7 |
| 77.5° | 4389.2  | 4380.6  | 4561.2  | 5118.4  | 5904.4  | 6728.2  | 7758.4  | 8953.8  | 9975.4  | 10388.1 | 9748.3  |
| 80°   | 1236.6  | 1250.4  | 1336.4  | 1613.3  | 2072.5  | 2667.6  | 3472.5  | 4592.1  | 5428.0  | 5854.5  | 5496.8  |
| 82.5° | 485.0   | 522.8   | 555.5   | 607.1   | 667.3   | 755.0   | 1007.9  | 1499.7  | 2012.3  | 2404.4  | 1969.3  |
| 85°   | 173.7   | 185.7   | 263.1   | 311.3   | 316.5   | 333.7   | 380.1   | 443.7   | 534.9   | 638.1   | 524.6   |
| 87.5° | 65.4    | 72.2    | 84.3    | 139.3   | 137.6   | 125.6   | 153.1   | 159.9   | 120.4   | 110.1   | 135.9   |
| 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°    | 2655.5  | 2655.5  | 2655.5  | 2655.5  | 2655.5  | 2655.5  | 2655.5  | 2655.5  |
| 2.5°  | 2648.6  | 2650.4  | 2650.4  | 2652.1  | 2653.8  | 2653.8  | 2657.2  | 2657.2  |
| 5°    | 2650.4  | 2650.4  | 2646.9  | 2648.6  | 2646.9  | 2646.9  | 2648.6  | 2648.6  |
| 7.5°  | 2646.9  | 2645.2  | 2641.8  | 2640.0  | 2636.6  | 2636.6  | 2636.6  | 2636.6  |
| 10°   | 2641.8  | 2640.0  | 2636.6  | 2634.9  | 2633.2  | 2633.2  | 2633.2  | 2633.2  |
| 12.5° | 2655.5  | 2650.4  | 2646.9  | 2645.2  | 2645.2  | 2645.2  | 2645.2  | 2645.2  |
| 15°   | 2691.6  | 2679.6  | 2671.0  | 2671.0  | 2672.7  | 2676.2  | 2676.2  | 2679.6  |
| 17.5° | 2736.3  | 2722.6  | 2714.0  | 2707.1  | 2710.5  | 2715.7  | 2719.1  | 2722.6  |
| 20°   | 2789.7  | 2782.8  | 2770.7  | 2763.9  | 2763.9  | 2770.7  | 2774.2  | 2775.9  |
| 22.5° | 2863.6  | 2858.5  | 2853.3  | 2844.7  | 2844.7  | 2848.1  | 2855.0  | 2855.0  |
| 25°   | 2973.7  | 2970.3  | 2966.8  | 2959.9  | 2958.2  | 2958.2  | 2961.7  | 2965.1  |
| 27.5° | 3111.3  | 3113.0  | 3109.6  | 3107.8  | 3102.7  | 3101.0  | 3106.1  | 3104.4  |
| 30°   | 3295.3  | 3303.9  | 3312.5  | 3305.6  | 3297.0  | 3291.9  | 3286.7  | 3279.8  |
| 32.5° | 3544.7  | 3534.4  | 3527.5  | 3515.5  | 3500.0  | 3486.2  | 3475.9  | 3463.9  |
| 35°   | 3780.3  | 3763.1  | 3756.2  | 3766.6  | 3764.8  | 3756.2  | 3744.2  | 3733.9  |
| 37.5° | 4069.3  | 4065.8  | 4069.3  | 4088.2  | 4084.7  | 4093.3  | 4069.3  | 4067.5  |
| 40°   | 4433.9  | 4437.3  | 4461.4  | 4483.8  | 4495.8  | 4507.8  | 4494.1  | 4480.3  |
| 42.5° | 4857.0  | 4855.3  | 4863.9  | 4894.8  | 4915.4  | 4929.2  | 4900.0  | 4896.5  |
| 45°   | 5304.1  | 5292.1  | 5299.0  | 5324.8  | 5345.4  | 5360.9  | 5328.2  | 5328.2  |
| 47.5° | 5796.0  | 5775.4  | 5753.0  | 5782.3  | 5794.3  | 5804.6  | 5778.8  | 5770.2  |
| 50°   | 6344.7  | 6301.7  | 6253.5  | 6265.6  | 6265.6  | 6262.1  | 6229.4  | 6227.7  |
| 52.5° | 6974.2  | 6895.0  | 6807.3  | 6774.7  | 6755.7  | 6735.1  | 6678.3  | 6650.8  |
| 55°   | 7698.2  | 7579.6  | 7442.0  | 7357.7  | 7313.0  | 7256.2  | 7161.6  | 7135.8  |
| 57.5° | 8544.4  | 8358.7  | 8121.3  | 8018.1  | 7918.4  | 7825.5  | 7720.6  | 7691.4  |
| 60°   | 9547.1  | 9273.7  | 8958.9  | 8768.0  | 8659.7  | 8570.2  | 8461.9  | 8456.7  |
| 62.5° | 10665.0 | 10233.4 | 9877.3  | 9705.3  | 9626.2  | 9547.1  | 9443.9  | 9457.7  |
| 65°   | 11801.9 | 11351.3 | 11017.6 | 10878.3 | 10804.4 | 10739.0 | 10635.8 | 10651.3 |
| 67.5° | 12923.3 | 12508.8 | 12142.4 | 11999.7 | 11917.1 | 11834.6 | 11741.7 | 11757.2 |
| 70°   | 13728.2 | 13213.9 | 12801.1 | 12484.7 | 12286.9 | 12063.3 | 11918.8 | 11882.7 |
| 72.5° | 13497.7 | 12704.8 | 12049.6 | 11421.8 | 11053.7 | 10754.5 | 10551.5 | 10463.8 |
| 75°   | 11681.5 | 10598.0 | 9755.2  | 8984.7  | 8551.3  | 8198.7  | 7942.5  | 7782.5  |
| 77.5° | 8675.1  | 7457.4  | 6461.6  | 5574.2  | 4872.5  | 4401.2  | 4069.3  | 3854.3  |
| 80°   | 4748.6  | 3611.8  | 2640.0  | 1855.8  | 1363.9  | 1133.4  | 1001.0  | 937.3   |
| 82.5° | 1479.1  | 954.5   | 703.4   | 607.1   | 564.1   | 540.0   | 500.5   | 436.9   |
| 85°   | 471.3   | 412.8   | 383.5   | 366.3   | 349.1   | 304.4   | 209.8   | 190.9   |
| 87.5° | 182.3   | 187.5   | 185.7   | 175.4   | 178.9   | 129.0   | 103.2   | 91.2    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)