

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: P194334

Luminaire Tested: **GLEON-AF-06-LED-E1-RW-7060-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194334  
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: MCGRAW-EDISON  
Catalog Number: GLEON-AF-06-LED-E1-RW-7060-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23977 lumens  
Efficiency: N/A  
Efficacy: 124.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B4 - U0 - G4

Input Watts (W): 193  
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

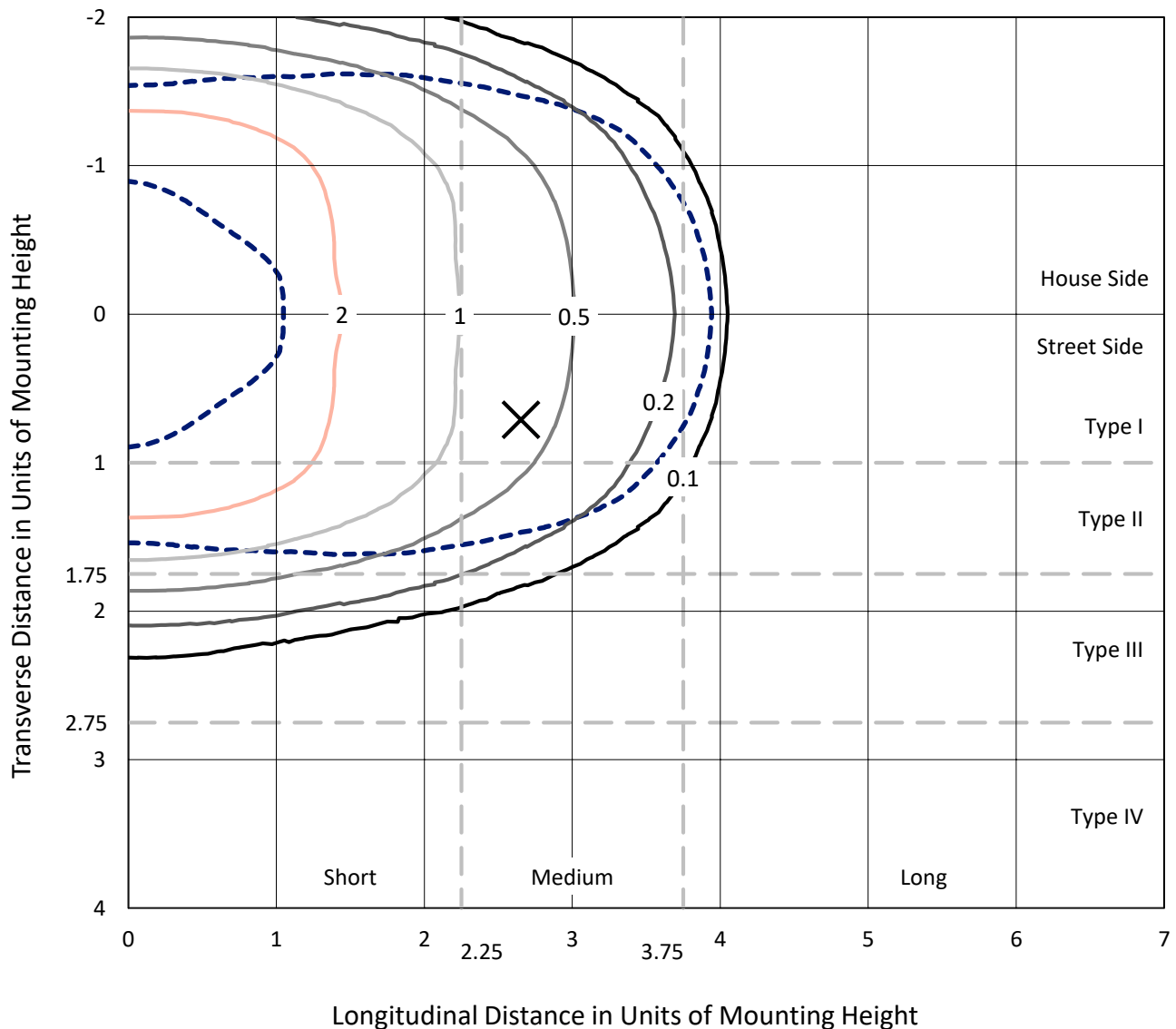


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

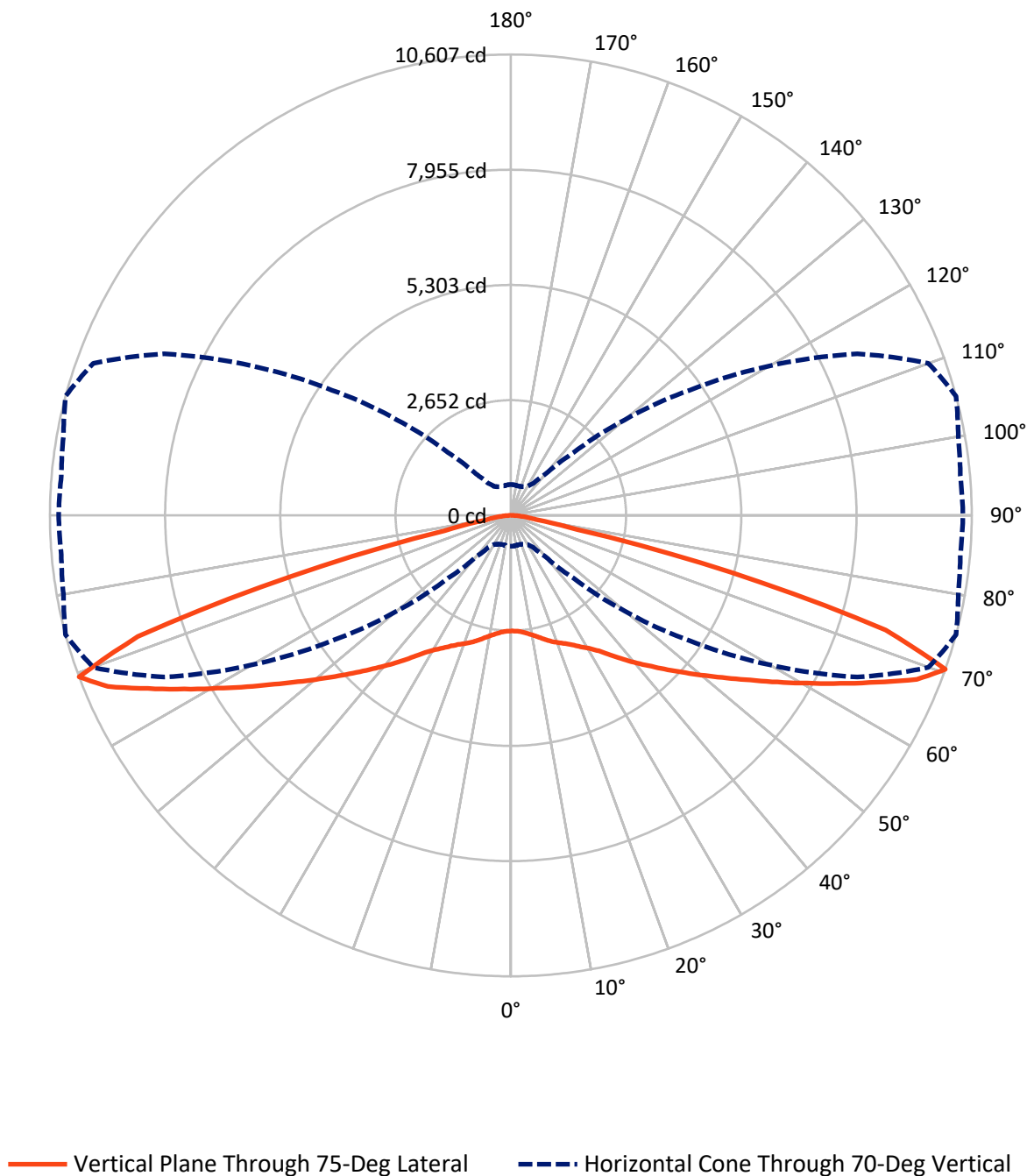


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type II - Medium - Full Cutoff

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## Luminous Intensity Polar Plot



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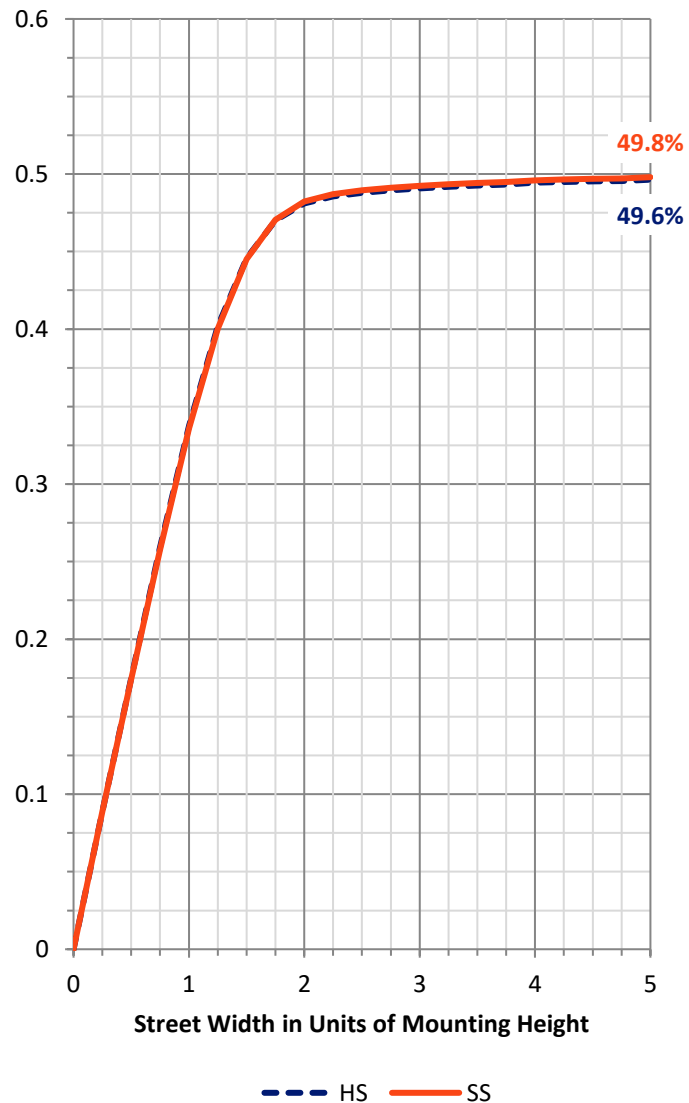
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 11988.5  | 0.0    | 11988.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 11988.5  | 0.0    | 11988.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 23977.0  | 0.0    | 23977.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 255.1   | 1.1       |
| 10°-20°   | 792.6   | 3.3       |
| 20°-30°   | 1491.7  | 6.2       |
| 30°-40°   | 2641.6  | 11.0      |
| 40°-50°   | 4417.5  | 18.4      |
| 50°-60°   | 6155.8  | 25.7      |
| 60°-70°   | 5708.6  | 23.8      |
| 70°-80°   | 2275.0  | 9.5       |
| 80°-90°   | 239.1   | 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°    | 23977.0 | 100.0     |
| 0°-180°   | 23977.0 | 100.0     |

**Coefficient of Utilization**



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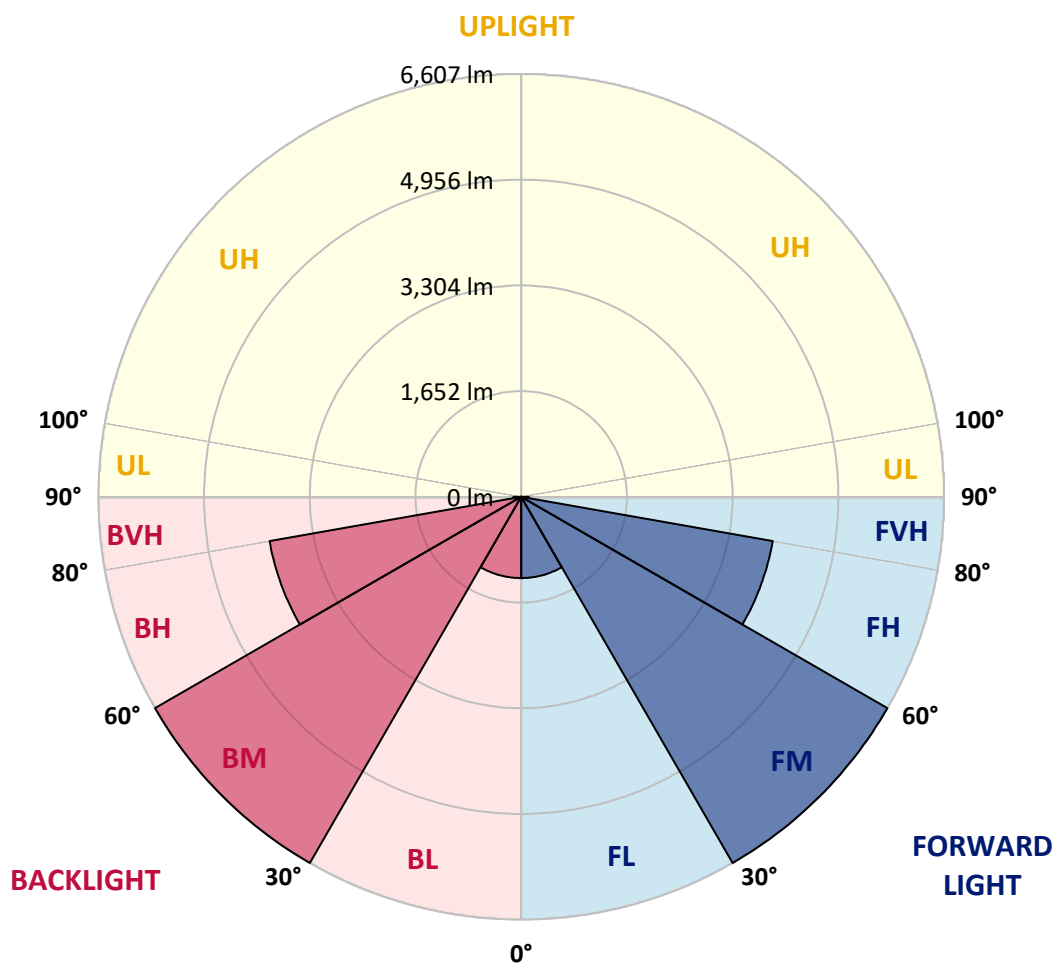
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1269.7 | 5.3       |                         |      |         |
| FM   | (30°-60°)   | 6607.5 | 27.6      |                         |      |         |
| FH   | (60°-80°)   | 3991.8 | 16.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 119.6  | 0.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1269.7 | 5.3       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 6607.5 | 27.6      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 3991.8 | 16.6      | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 119.6  | 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-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2659.6 | 2659.6 | 2659.6 | 2659.6 | 2659.6 | 2659.6 | 2659.6 | 2659.6 | 2659.6 | 2659.6 | 2659.6 |
| 2.5°  | 2655.1 | 2652.8 | 2655.1 | 2653.9 | 2656.2 | 2656.2 | 2658.5 | 2663.0 | 2663.0 | 2666.4 | 2665.3 |
| 5°    | 2629.0 | 2627.9 | 2631.3 | 2634.7 | 2638.1 | 2644.9 | 2651.7 | 2661.9 | 2669.8 | 2675.5 | 2681.1 |
| 7.5°  | 2578.0 | 2578.0 | 2582.6 | 2590.5 | 2598.4 | 2613.1 | 2629.0 | 2649.4 | 2669.8 | 2686.8 | 2701.5 |
| 10°   | 2536.1 | 2538.4 | 2544.0 | 2557.6 | 2571.2 | 2593.9 | 2615.4 | 2644.9 | 2673.2 | 2701.5 | 2724.2 |
| 12.5° | 2511.2 | 2514.6 | 2524.8 | 2545.2 | 2567.8 | 2598.4 | 2631.3 | 2668.7 | 2700.4 | 2734.4 | 2757.1 |
| 15°   | 2519.1 | 2521.4 | 2536.1 | 2561.0 | 2590.5 | 2629.0 | 2673.2 | 2717.4 | 2754.8 | 2791.1 | 2821.7 |
| 17.5° | 2563.3 | 2566.7 | 2583.7 | 2612.0 | 2642.6 | 2687.9 | 2735.5 | 2785.4 | 2831.9 | 2872.6 | 2910.0 |
| 20°   | 2642.6 | 2646.0 | 2667.5 | 2698.1 | 2734.4 | 2780.9 | 2828.5 | 2880.6 | 2932.7 | 2975.8 | 3017.7 |
| 22.5° | 2754.8 | 2760.5 | 2780.9 | 2811.5 | 2852.3 | 2902.1 | 2958.8 | 3014.3 | 3064.2 | 3103.8 | 3141.2 |
| 25°   | 2902.1 | 2914.6 | 2933.8 | 2967.8 | 3010.9 | 3056.2 | 3117.4 | 3174.1 | 3221.7 | 3259.1 | 3286.3 |
| 27.5° | 3110.6 | 3127.6 | 3142.3 | 3175.2 | 3217.1 | 3260.2 | 3321.4 | 3371.3 | 3416.6 | 3452.8 | 3473.2 |
| 30°   | 3387.1 | 3404.1 | 3418.8 | 3450.6 | 3489.1 | 3529.9 | 3587.7 | 3631.9 | 3660.2 | 3688.5 | 3687.4 |
| 32.5° | 3722.5 | 3740.7 | 3746.3 | 3780.3 | 3820.0 | 3864.2 | 3916.3 | 3941.3 | 3963.9 | 3967.3 | 3946.9 |
| 35°   | 4097.6 | 4106.7 | 4129.4 | 4174.7 | 4220.0 | 4256.3 | 4306.1 | 4318.6 | 4318.6 | 4301.6 | 4256.3 |
| 37.5° | 4509.0 | 4514.6 | 4546.4 | 4597.4 | 4643.8 | 4681.2 | 4715.2 | 4740.2 | 4727.7 | 4691.4 | 4615.5 |
| 40°   | 4960.0 | 4970.2 | 5015.5 | 5060.8 | 5113.0 | 5148.1 | 5184.4 | 5188.9 | 5176.4 | 5123.2 | 5020.1 |
| 42.5° | 5390.6 | 5399.7 | 5445.0 | 5516.4 | 5584.4 | 5633.1 | 5667.1 | 5673.9 | 5634.2 | 5585.5 | 5457.5 |
| 45°   | 5761.2 | 5785.0 | 5843.9 | 5927.7 | 6026.3 | 6095.5 | 6141.9 | 6161.2 | 6126.1 | 6062.6 | 5914.1 |
| 47.5° | 6054.7 | 6078.5 | 6162.3 | 6262.0 | 6384.4 | 6496.6 | 6573.7 | 6614.5 | 6605.4 | 6557.8 | 6395.8 |
| 50°   | 6270.0 | 6292.6 | 6383.3 | 6505.7 | 6648.5 | 6787.8 | 6919.3 | 7016.7 | 7050.7 | 7029.2 | 6880.8 |
| 52.5° | 6294.9 | 6332.3 | 6438.8 | 6603.1 | 6789.0 | 6979.3 | 7166.3 | 7331.8 | 7444.0 | 7461.0 | 7351.0 |
| 55°   | 5947.0 | 5984.4 | 6131.7 | 6375.4 | 6651.9 | 6962.3 | 7261.5 | 7540.3 | 7761.3 | 7874.6 | 7816.8 |
| 57.5° | 5126.6 | 5193.4 | 5348.7 | 5634.2 | 6041.1 | 6505.7 | 6982.7 | 7478.0 | 7927.8 | 8228.1 | 8285.9 |
| 60°   | 3928.8 | 4008.1 | 4164.5 | 4468.2 | 4921.5 | 5475.6 | 6112.5 | 6844.5 | 7638.9 | 8314.2 | 8717.7 |
| 62.5° | 2520.2 | 2595.0 | 2759.3 | 3023.4 | 3392.8 | 3993.4 | 4676.7 | 5545.9 | 6613.3 | 7679.7 | 8640.6 |
| 65°   | 1295.2 | 1336.0 | 1422.2 | 1581.9 | 1869.8 | 2318.5 | 2931.6 | 3798.5 | 5018.9 | 6334.6 | 7723.9 |
| 67.5° | 820.4  | 828.4  | 847.6  | 870.3  | 944.0  | 1099.2 | 1384.8 | 1925.3 | 2929.3 | 4301.6 | 5927.7 |
| 70°   | 709.4  | 709.4  | 700.3  | 696.9  | 706.0  | 727.5  | 771.7  | 897.5  | 1236.3 | 2042.0 | 3418.8 |
| 72.5° | 649.3  | 642.5  | 626.7  | 614.2  | 611.9  | 611.9  | 621.0  | 640.3  | 694.6  | 831.8  | 1338.3 |
| 75°   | 598.3  | 579.1  | 557.5  | 542.8  | 537.1  | 531.5  | 530.3  | 533.7  | 545.1  | 566.6  | 639.1  |
| 77.5° | 536.0  | 511.1  | 486.1  | 471.4  | 464.6  | 456.7  | 449.9  | 441.9  | 436.3  | 443.1  | 474.8  |
| 80°   | 461.2  | 432.9  | 413.6  | 404.6  | 397.8  | 386.4  | 371.7  | 358.1  | 345.6  | 343.4  | 362.6  |
| 82.5° | 371.7  | 338.8  | 340.0  | 343.4  | 330.9  | 315.0  | 299.2  | 284.4  | 262.9  | 251.6  | 262.9  |
| 85°   | 300.3  | 283.3  | 275.4  | 296.9  | 278.8  | 255.0  | 230.0  | 204.0  | 170.0  | 142.8  | 155.2  |
| 87.5° | 116.7  | 116.7  | 174.5  | 268.6  | 241.4  | 197.2  | 168.8  | 143.9  | 89.5   | 69.1   | 70.3   |
| 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°    | 2659.6 | 2659.6 | 2659.6  | 2659.6  | 2659.6  | 2659.6  | 2659.6  | 2659.6  |
| 2.5°  | 2664.1 | 2666.4 | 2665.3  | 2664.1  | 2664.1  | 2663.0  | 2664.1  | 2664.1  |
| 5°    | 2684.5 | 2690.2 | 2690.2  | 2692.5  | 2692.5  | 2693.6  | 2694.7  | 2693.6  |
| 7.5°  | 2715.1 | 2725.3 | 2732.1  | 2740.1  | 2741.2  | 2742.3  | 2744.6  | 2742.3  |
| 10°   | 2745.7 | 2766.1 | 2780.9  | 2795.6  | 2802.4  | 2804.7  | 2806.9  | 2806.9  |
| 12.5° | 2784.3 | 2812.6 | 2838.7  | 2864.7  | 2877.2  | 2884.0  | 2884.0  | 2888.5  |
| 15°   | 2847.7 | 2876.0 | 2906.6  | 2941.8  | 2963.3  | 2974.6  | 2978.0  | 2978.0  |
| 17.5° | 2937.2 | 2962.2 | 2988.2  | 3022.2  | 3049.4  | 3064.2  | 3067.6  | 3066.4  |
| 20°   | 3041.5 | 3065.3 | 3080.0  | 3101.6  | 3125.4  | 3142.3  | 3146.9  | 3146.9  |
| 22.5° | 3160.5 | 3174.1 | 3176.3  | 3183.1  | 3202.4  | 3225.1  | 3235.3  | 3237.5  |
| 25°   | 3291.9 | 3295.3 | 3286.3  | 3286.3  | 3298.7  | 3320.3  | 3330.5  | 3331.6  |
| 27.5° | 3461.9 | 3444.9 | 3422.2  | 3414.3  | 3422.2  | 3447.2  | 3459.6  | 3464.2  |
| 30°   | 3673.8 | 3633.0 | 3580.9  | 3552.6  | 3548.0  | 3580.9  | 3603.6  | 3607.0  |
| 32.5° | 3916.3 | 3857.4 | 3788.3  | 3730.5  | 3715.7  | 3736.1  | 3763.3  | 3762.2  |
| 35°   | 4204.2 | 4133.9 | 4050.0  | 3976.4  | 3942.4  | 3962.8  | 4001.3  | 4005.8  |
| 37.5° | 4536.2 | 4444.4 | 4348.1  | 4255.1  | 4201.9  | 4207.6  | 4248.3  | 4261.9  |
| 40°   | 4906.7 | 4787.7 | 4666.5  | 4541.8  | 4465.9  | 4451.2  | 4501.0  | 4509.0  |
| 42.5° | 5303.4 | 5150.4 | 4997.4  | 4843.3  | 4745.8  | 4723.2  | 4780.9  | 4777.5  |
| 45°   | 5726.0 | 5531.1 | 5352.1  | 5182.1  | 5066.5  | 5032.5  | 5080.1  | 5080.1  |
| 47.5° | 6180.4 | 5940.2 | 5727.2  | 5534.5  | 5408.7  | 5360.0  | 5405.3  | 5408.7  |
| 50°   | 6662.1 | 6407.1 | 6156.6  | 5942.5  | 5791.8  | 5729.4  | 5788.4  | 5797.4  |
| 52.5° | 7141.4 | 6893.2 | 6640.5  | 6395.8  | 6213.3  | 6137.4  | 6205.4  | 6234.8  |
| 55°   | 7627.5 | 7383.9 | 7142.5  | 6903.4  | 6687.0  | 6597.5  | 6670.0  | 6707.4  |
| 57.5° | 8140.9 | 7915.4 | 7685.3  | 7444.0  | 7235.4  | 7096.1  | 7173.1  | 7223.0  |
| 60°   | 8742.6 | 8550.0 | 8310.9  | 8044.5  | 7833.8  | 7692.1  | 7736.3  | 7780.5  |
| 62.5° | 9218.5 | 9293.3 | 9090.5  | 8782.3  | 8511.4  | 8330.1  | 8373.2  | 8419.6  |
| 65°   | 8988.5 | 9755.7 | 9935.9  | 9624.2  | 9249.1  | 8967.0  | 8948.8  | 8972.6  |
| 67.5° | 7513.1 | 9003.2 | 10090.0 | 10386.9 | 10073.0 | 9680.9  | 9608.4  | 9643.5  |
| 70°   | 5025.7 | 6881.9 | 8799.3  | 10227.1 | 10606.7 | 10454.9 | 10383.5 | 10405.0 |
| 72.5° | 2413.7 | 4008.1 | 5969.7  | 7867.8  | 9023.6  | 9554.0  | 9723.9  | 9806.7  |
| 75°   | 882.8  | 1591.0 | 2877.2  | 4335.6  | 5234.2  | 6059.2  | 6597.5  | 6817.3  |
| 77.5° | 532.6  | 642.5  | 919.0   | 1383.6  | 1567.2  | 1754.2  | 1681.7  | 1717.9  |
| 80°   | 394.4  | 445.3  | 504.3   | 566.6   | 587.0   | 587.0   | 564.3   | 546.2   |
| 82.5° | 276.5  | 309.4  | 337.7   | 371.7   | 380.8   | 363.8   | 299.2   | 238.0   |
| 85°   | 177.9  | 192.6  | 205.1   | 226.6   | 221.0   | 210.8   | 141.6   | 125.8   |
| 87.5° | 81.6   | 92.9   | 97.5    | 107.7   | 103.1   | 98.6    | 70.3    | 58.9    |
| 90°   | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)