

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P320226

Luminaire Tested: **GLEON-SA2A-727-U-SLL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320226  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA2A-727-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7007 lumens  
Efficiency: N/A  
Efficacy: 106.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G3

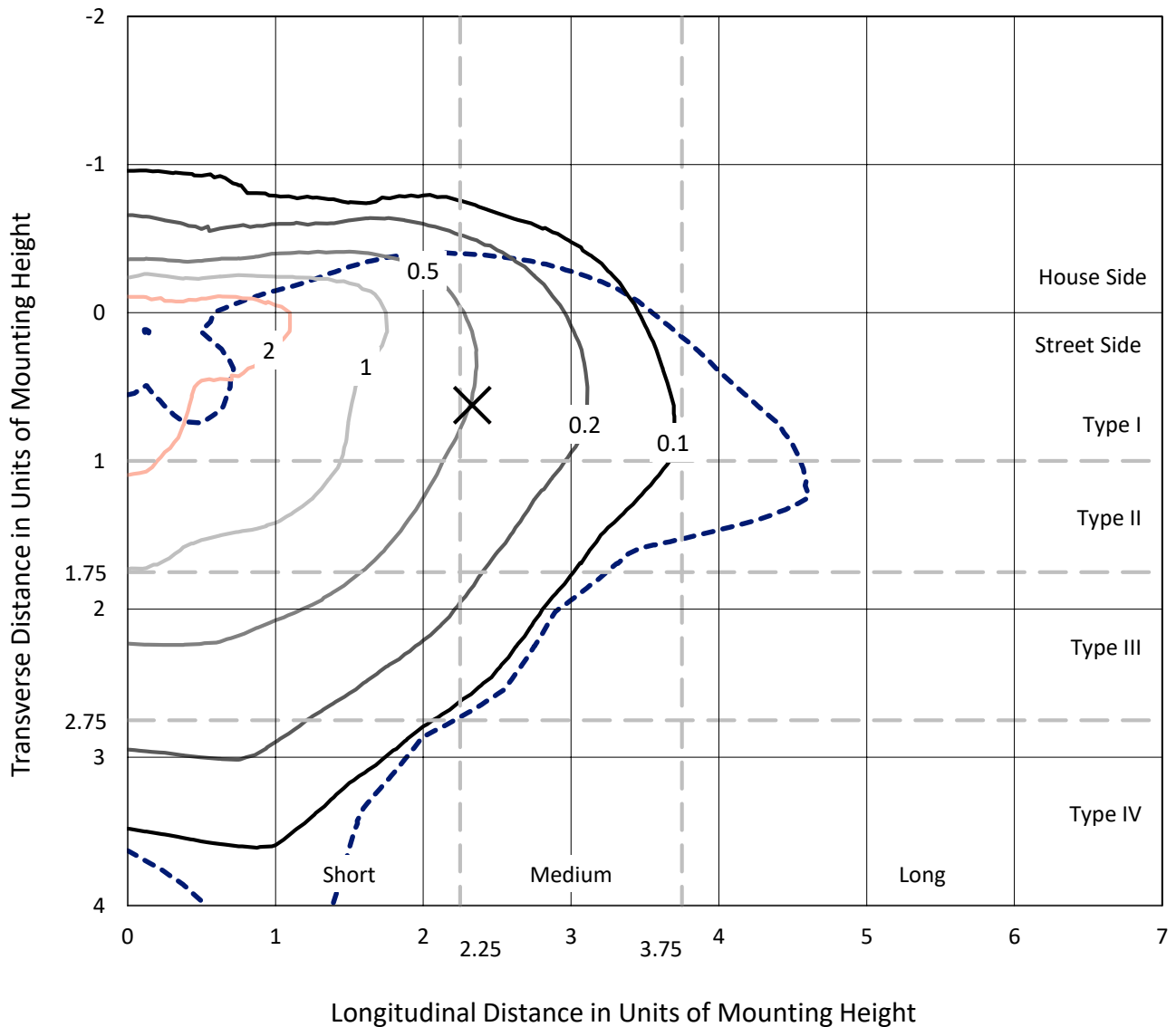
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

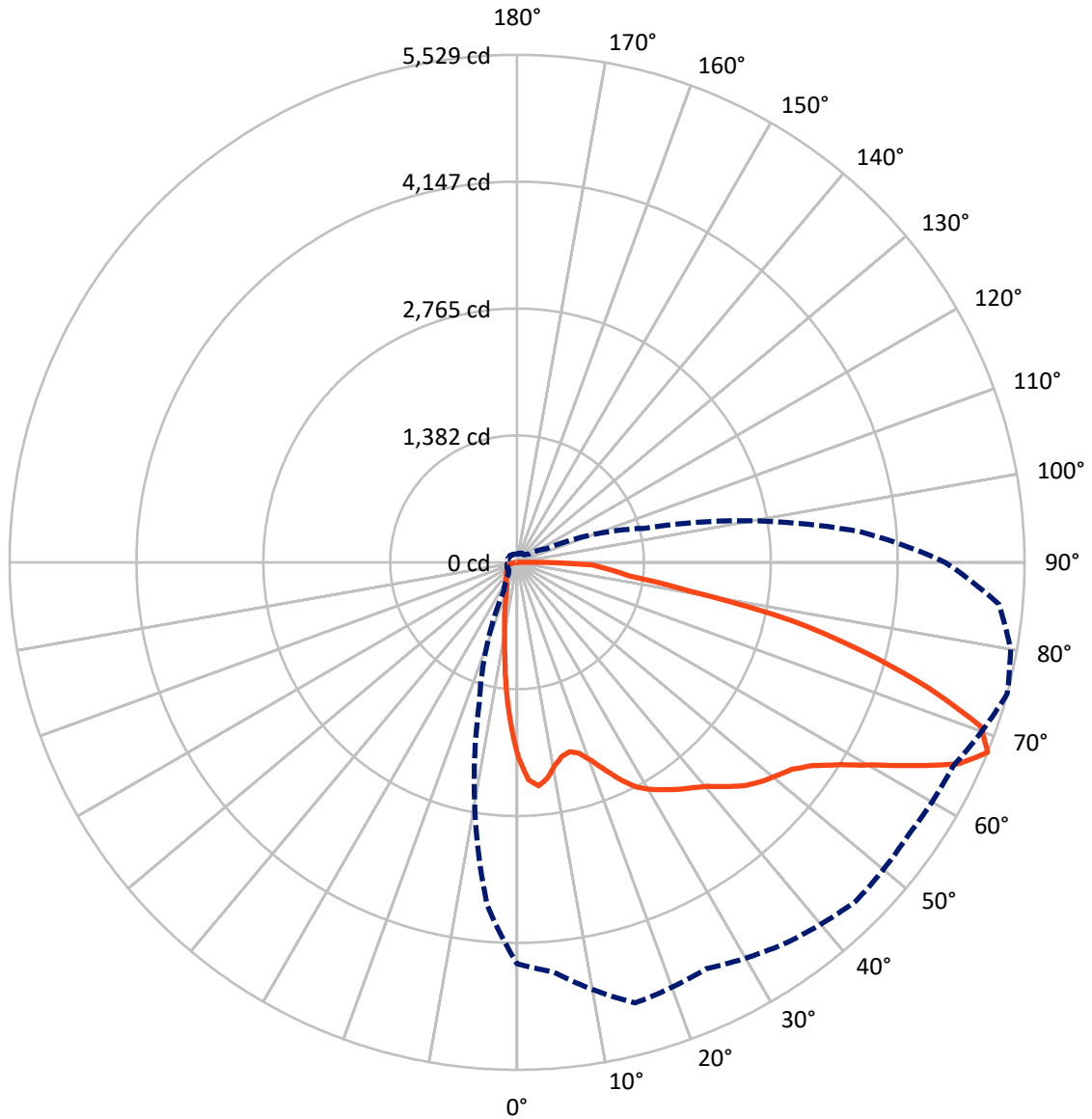
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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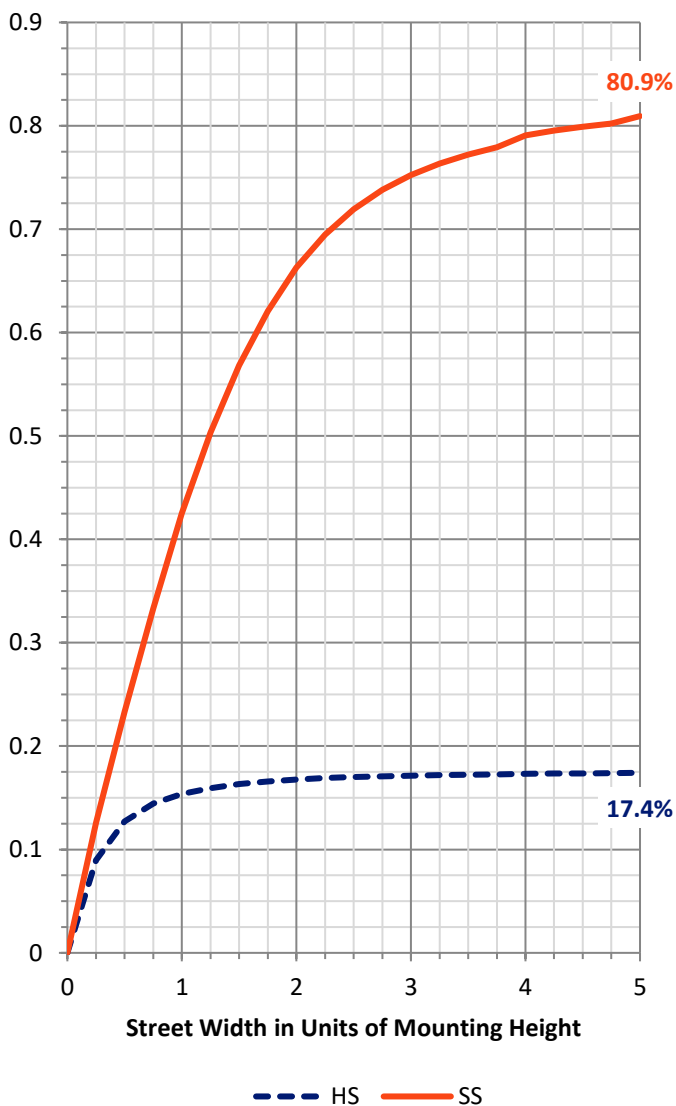
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1234.1   | 0.0    | 1234.1 |
|                    | % Fixture | 17.6     | 0.0    | 17.6   |
| <b>Street Side</b> | Lumens    | 5772.9   | 0.0    | 5772.9 |
|                    | % Fixture | 82.4     | 0.0    | 82.4   |
| <b>Total</b>       | Lumens    | 7007.0   | 0.0    | 7007.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 164.8  | 2.4       |
| 10°-20°   | 342.3  | 4.9       |
| 20°-30°   | 486.8  | 6.9       |
| 30°-40°   | 701.4  | 10.0      |
| 40°-50°   | 988.5  | 14.1      |
| 50°-60°   | 1374.2 | 19.6      |
| 60°-70°   | 1661.8 | 23.7      |
| 70°-80°   | 1021.5 | 14.6      |
| 80°-90°   | 265.8  | 3.8       |
| 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°    | 7007.0 | 100.0     |
| 0°-180°   | 7007.0 | 100.0     |

**Coefficient of Utilization**

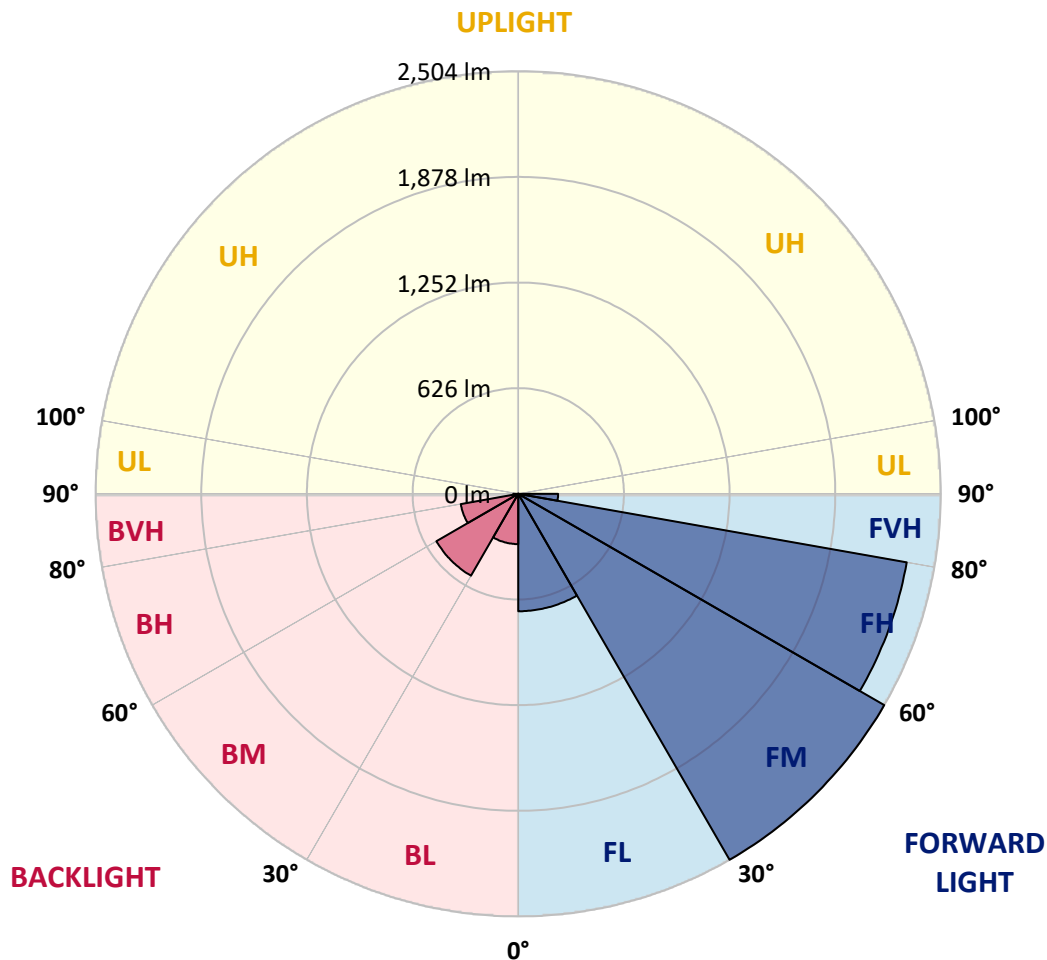


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 695.7  | 9.9       |                         |      |         |
| FM (30°-60°)   | 2503.9 | 35.7      |                         |      |         |
| FH (60°-80°)   | 2337.3 | 33.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 235.9  | 3.4       |                         |      | G3/500  |
| BL (0°-30°)    | 298.0  | 4.3       | B1/500                  |      |         |
| BM (30°-60°)   | 560.2  | 8.0       | B1/1000                 |      |         |
| BH (60°-80°)   | 346.0  | 4.9       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 29.9   | 0.4       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 |
| 2.5°   | 2275.3 | 2305.3 | 2326.1 | 2346.5 | 2362.5 | 2378.2 | 2401.1 | 2424.1 | 2428.6 | 2432.8 | 2423.8 |
| 5°     | 2261.9 | 2335.0 | 2397.2 | 2459.1 | 2516.6 | 2574.0 | 2608.4 | 2642.9 | 2649.9 | 2656.9 | 2635.3 |
| 7.5°   | 2117.1 | 2224.9 | 2332.8 | 2440.6 | 2539.5 | 2638.4 | 2698.7 | 2758.6 | 2772.3 | 2785.8 | 2750.5 |
| 10°    | 1952.3 | 2077.8 | 2210.4 | 2342.9 | 2473.1 | 2603.4 | 2690.5 | 2777.7 | 2795.0 | 2812.4 | 2768.4 |
| 12.5°  | 1827.1 | 1964.1 | 2105.6 | 2247.1 | 2384.6 | 2521.9 | 2612.1 | 2702.3 | 2723.9 | 2745.4 | 2713.5 |
| 15°    | 1778.9 | 1929.1 | 2062.2 | 2195.2 | 2315.1 | 2434.8 | 2508.7 | 2582.4 | 2591.4 | 2600.0 | 2595.0 |
| 17.5°  | 1827.1 | 1992.7 | 2113.1 | 2233.3 | 2298.6 | 2363.6 | 2393.3 | 2422.7 | 2432.5 | 2442.0 | 2454.9 |
| 20°    | 1968.0 | 2146.8 | 2231.6 | 2316.3 | 2313.4 | 2310.4 | 2296.1 | 2281.5 | 2279.0 | 2276.5 | 2312.9 |
| 22.5°  | 2169.2 | 2376.8 | 2410.7 | 2444.3 | 2365.6 | 2286.8 | 2238.9 | 2190.7 | 2181.2 | 2171.4 | 2210.1 |
| 25°    | 2405.3 | 2626.4 | 2620.2 | 2613.8 | 2463.9 | 2313.7 | 2222.4 | 2131.1 | 2120.4 | 2109.8 | 2142.8 |
| 27.5°  | 2662.2 | 2873.5 | 2833.1 | 2792.8 | 2589.1 | 2385.4 | 2252.9 | 2120.4 | 2109.8 | 2099.1 | 2128.3 |
| 30°    | 2863.1 | 3054.7 | 2990.0 | 2925.3 | 2694.7 | 2464.2 | 2306.7 | 2149.3 | 2131.9 | 2114.3 | 2150.1 |
| 32.5°  | 3033.1 | 3196.2 | 3109.3 | 3022.5 | 2780.5 | 2538.4 | 2368.1 | 2197.7 | 2170.6 | 2143.4 | 2191.3 |
| 35°    | 3210.2 | 3337.4 | 3215.2 | 3092.8 | 2856.9 | 2620.8 | 2440.6 | 2260.2 | 2226.9 | 2193.5 | 2259.4 |
| 37.5°  | 3409.4 | 3515.0 | 3339.6 | 3164.0 | 2942.9 | 2721.9 | 2549.3 | 2376.5 | 2342.3 | 2308.1 | 2392.2 |
| 40°    | 3619.8 | 3707.7 | 3473.8 | 3239.9 | 3037.1 | 2834.2 | 2699.8 | 2565.0 | 2532.5 | 2499.7 | 2601.7 |
| 42.5°  | 3803.8 | 3868.0 | 3598.8 | 3329.5 | 3150.5 | 2971.2 | 2876.5 | 2781.6 | 2781.3 | 2780.7 | 2884.1 |
| 45°    | 3942.5 | 3998.2 | 3703.0 | 3407.4 | 3261.2 | 3114.7 | 3065.4 | 3016.1 | 3055.6 | 3095.1 | 3188.6 |
| 47.5°  | 4057.6 | 4095.5 | 3790.4 | 3485.0 | 3387.8 | 3290.6 | 3297.9 | 3305.2 | 3385.6 | 3466.0 | 3526.2 |
| 50°    | 4189.3 | 4158.8 | 3869.7 | 3580.3 | 3550.3 | 3520.3 | 3585.9 | 3651.1 | 3743.6 | 3835.8 | 3876.7 |
| 52.5°  | 4331.9 | 4250.9 | 3977.2 | 3703.3 | 3736.9 | 3770.5 | 3903.8 | 4037.2 | 4130.5 | 4223.8 | 4239.2 |
| 55°    | 4588.2 | 4464.1 | 4175.0 | 3885.6 | 3950.3 | 4014.8 | 4210.6 | 4406.1 | 4479.0 | 4551.8 | 4557.4 |
| 57.5°  | 4877.1 | 4767.0 | 4452.1 | 4137.2 | 4206.7 | 4276.2 | 4502.2 | 4728.0 | 4806.8 | 4885.2 | 4874.3 |
| 60°    | 4988.3 | 4993.6 | 4715.1 | 4436.4 | 4506.4 | 4576.5 | 4796.7 | 5016.9 | 5107.3 | 5197.6 | 5173.5 |
| 62.5°  | 4876.2 | 5007.6 | 4858.9 | 4709.8 | 4773.4 | 4836.7 | 5052.4 | 5268.2 | 5360.9 | 5453.6 | 5411.6 |
| 65°    | 4654.6 | 4784.9 | 4851.6 | 4918.2 | 4939.3 | 4960.3 | 5161.7 | 5362.8 | 5434.0 | 5504.9 | 5483.6 |
| 67.5°  | 4372.8 | 4478.1 | 4724.1 | 4969.8 | 4927.5 | 4885.2 | 4979.6 | 5074.0 | 5147.1 | 5220.2 | 5208.2 |
| 70°    | 4046.4 | 4171.9 | 4500.0 | 4828.0 | 4620.2 | 4412.0 | 4373.1 | 4334.1 | 4413.1 | 4491.9 | 4443.1 |
| 72.5°  | 3461.2 | 3650.6 | 4000.5 | 4350.1 | 3967.2 | 3584.2 | 3451.1 | 3318.1 | 3418.1 | 3518.1 | 3440.5 |
| 75°    | 2614.3 | 2865.6 | 3252.2 | 3638.5 | 3181.6 | 2724.7 | 2547.1 | 2369.5 | 2455.5 | 2541.5 | 2488.3 |
| 77.5°  | 1818.1 | 2133.3 | 2514.0 | 2894.8 | 2430.3 | 1965.5 | 1833.6 | 1701.3 | 1727.1 | 1752.6 | 1743.6 |
| 80°    | 1239.6 | 1447.0 | 1712.5 | 1977.8 | 1668.6 | 1359.3 | 1369.6 | 1379.7 | 1367.7 | 1355.3 | 1373.3 |
| 82.5°  | 777.4  | 923.4  | 1128.4 | 1333.2 | 1169.1 | 1004.9 | 1099.0 | 1193.1 | 1146.9 | 1100.4 | 1117.8 |
| 85°    | 437.9  | 527.0  | 727.5  | 927.8  | 864.8  | 801.5  | 856.7  | 911.6  | 839.9  | 768.2  | 799.8  |
| 87.5°  | 83.5   | 139.0  | 402.6  | 665.9  | 604.6  | 543.2  | 472.0  | 400.9  | 305.9  | 211.0  | 308.2  |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 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):**

|        | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180°   | 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°    | 95°    | 100°   | 105°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 |
| 2.5°   | 2414.9 | 2410.1 | 2405.3 | 2388.2 | 2370.9 | 2345.1 | 2323.8 | 2286.8 | 2266.7 | 2236.1 | 2205.6 |
| 5°     | 2613.5 | 2583.2 | 2553.0 | 2500.9 | 2448.5 | 2390.2 | 2323.3 | 2249.0 | 2193.0 | 2120.1 | 2047.3 |
| 7.5°   | 2715.2 | 2644.6 | 2573.7 | 2473.7 | 2373.4 | 2283.2 | 2177.3 | 2078.7 | 1994.6 | 1900.0 | 1805.3 |
| 10°    | 2724.4 | 2618.5 | 2512.4 | 2382.4 | 2252.1 | 2142.6 | 2020.7 | 1911.2 | 1810.3 | 1701.6 | 1592.6 |
| 12.5°  | 2681.3 | 2568.7 | 2455.8 | 2312.6 | 2169.2 | 2044.8 | 1913.7 | 1791.0 | 1679.2 | 1559.6 | 1439.7 |
| 15°    | 2590.0 | 2500.0 | 2409.8 | 2275.6 | 2141.4 | 2015.9 | 1888.7 | 1743.4 | 1617.0 | 1494.6 | 1371.9 |
| 17.5°  | 2467.5 | 2424.9 | 2382.1 | 2285.2 | 2187.9 | 2079.2 | 1956.0 | 1785.4 | 1637.5 | 1504.4 | 1371.3 |
| 20°    | 2349.0 | 2364.7 | 2380.1 | 2341.5 | 2302.8 | 2215.7 | 2108.1 | 1916.5 | 1727.7 | 1553.7 | 1379.4 |
| 22.5°  | 2248.5 | 2323.8 | 2398.9 | 2428.9 | 2458.6 | 2406.2 | 2322.1 | 2100.5 | 1850.6 | 1623.4 | 1396.2 |
| 25°    | 2175.6 | 2300.6 | 2425.5 | 2525.2 | 2624.7 | 2601.4 | 2536.7 | 2324.1 | 2013.7 | 1724.0 | 1434.1 |
| 27.5°  | 2157.4 | 2310.6 | 2463.9 | 2618.5 | 2772.9 | 2794.5 | 2776.5 | 2559.7 | 2208.1 | 1849.0 | 1489.5 |
| 30°    | 2186.0 | 2341.2 | 2496.1 | 2684.4 | 2872.3 | 2958.3 | 2982.4 | 2756.1 | 2430.3 | 1994.6 | 1558.7 |
| 32.5°  | 2239.2 | 2391.3 | 2543.4 | 2748.5 | 2953.3 | 3083.3 | 3160.1 | 2935.7 | 2585.2 | 2104.5 | 1623.4 |
| 35°    | 2325.2 | 2467.5 | 2609.8 | 2823.3 | 3036.8 | 3204.9 | 3344.9 | 3121.1 | 2722.7 | 2181.2 | 1639.4 |
| 37.5°  | 2475.9 | 2598.4 | 2720.8 | 2918.0 | 3114.9 | 3332.9 | 3543.3 | 3325.3 | 2871.5 | 2255.2 | 1638.6 |
| 40°    | 2703.7 | 2790.3 | 2876.5 | 3043.2 | 3209.6 | 3483.9 | 3768.0 | 3553.1 | 3035.9 | 2335.3 | 1634.7 |
| 42.5°  | 2987.5 | 3032.0 | 3076.3 | 3208.2 | 3340.2 | 3641.6 | 3971.9 | 3775.8 | 3192.8 | 2409.8 | 1626.8 |
| 45°    | 3281.9 | 3293.7 | 3305.4 | 3388.7 | 3471.6 | 3766.6 | 4110.9 | 3943.1 | 3329.8 | 2474.5 | 1619.0 |
| 47.5°  | 3586.2 | 3545.8 | 3505.5 | 3538.5 | 3571.6 | 3862.4 | 4210.0 | 4070.0 | 3467.4 | 2546.3 | 1624.8 |
| 50°    | 3917.6 | 3805.2 | 3692.9 | 3675.5 | 3658.2 | 3958.2 | 4326.9 | 4231.3 | 3632.7 | 2650.7 | 1668.8 |
| 52.5°  | 4254.3 | 4069.1 | 3883.9 | 3815.3 | 3746.4 | 4072.5 | 4481.8 | 4432.2 | 3868.5 | 2812.7 | 1756.5 |
| 55°    | 4563.0 | 4327.4 | 4091.8 | 3999.4 | 3906.9 | 4247.3 | 4670.9 | 4727.2 | 4170.8 | 3019.7 | 1868.3 |
| 57.5°  | 4863.1 | 4596.1 | 4329.1 | 4243.4 | 4157.7 | 4504.2 | 4910.4 | 4991.9 | 4476.2 | 3218.3 | 1960.2 |
| 60°    | 5149.4 | 4885.2 | 4620.7 | 4552.1 | 4483.2 | 4823.6 | 5169.3 | 5109.9 | 4633.6 | 3311.3 | 1988.8 |
| 62.5°  | 5369.6 | 5159.5 | 4949.3 | 4913.2 | 4876.8 | 5146.6 | 5368.2 | 5063.9 | 4533.6 | 3219.7 | 1905.8 |
| 65°    | 5462.3 | 5342.7 | 5222.8 | 5256.7 | 5290.3 | 5390.9 | 5417.8 | 4929.5 | 4219.3 | 2963.1 | 1706.9 |
| 67.5°  | 5195.9 | 5220.2 | 5244.6 | 5386.9 | 5529.0 | 5459.8 | 5270.4 | 4664.4 | 3771.9 | 2599.5 | 1427.1 |
| 70°    | 4394.1 | 4540.3 | 4686.3 | 5023.0 | 5359.5 | 5206.0 | 4875.7 | 4188.7 | 3233.4 | 2180.7 | 1127.6 |
| 72.5°  | 3362.6 | 3527.0 | 3691.2 | 4191.0 | 4690.5 | 4549.0 | 4144.5 | 3440.5 | 2592.5 | 1741.4 | 890.0  |
| 75°    | 2434.8 | 2620.5 | 2805.9 | 3357.3 | 3908.6 | 3712.2 | 3100.1 | 2463.3 | 1969.1 | 1329.3 | 689.2  |
| 77.5°  | 1734.4 | 1858.8 | 1983.2 | 2527.8 | 3072.1 | 2752.2 | 2063.6 | 1657.6 | 1362.9 | 923.9  | 484.7  |
| 80°    | 1391.2 | 1353.1 | 1315.0 | 1618.4 | 1921.8 | 1868.6 | 1364.9 | 1064.6 | 943.3  | 619.1  | 295.0  |
| 82.5°  | 1134.9 | 1041.9 | 948.9  | 1091.7 | 1234.6 | 1226.8 | 947.2  | 781.0  | 702.0  | 430.3  | 158.6  |
| 85°    | 831.2  | 793.9  | 756.7  | 883.0  | 1009.4 | 901.5  | 641.5  | 496.4  | 547.4  | 316.8  | 86.3   |
| 87.5°  | 405.4  | 463.1  | 520.5  | 669.5  | 818.3  | 614.4  | 194.7  | 96.4   | 133.3  | 87.7   | 41.7   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P320226  
 CATALOG NUMBER: GLEON-SA2A-727-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 115°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 120°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 125°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 130°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 135°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 140°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 145°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 150°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 155°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 160°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 165°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 170°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 175°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |
| 180°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  |



REPORT NUMBER: P320226  
 CATALOG NUMBER: GLEON-SA2A-727-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 |
| 2.5°   | 2182.9 | 2159.9 | 2133.9 | 2107.8 | 2078.1 | 2048.2 | 2030.5 | 2012.6 | 1993.2 | 1973.9 | 1952.1 |
| 5°     | 1999.1 | 1950.9 | 1896.3 | 1841.7 | 1787.6 | 1733.5 | 1704.4 | 1675.3 | 1644.5 | 1613.4 | 1586.5 |
| 7.5°   | 1735.2 | 1664.9 | 1589.3 | 1513.4 | 1446.1 | 1378.6 | 1336.9 | 1294.8 | 1256.7 | 1218.4 | 1186.1 |
| 10°    | 1503.0 | 1413.3 | 1337.4 | 1261.2 | 1210.5 | 1159.8 | 1121.4 | 1083.0 | 1046.1 | 1008.8 | 973.2  |
| 12.5°  | 1350.0 | 1260.4 | 1212.2 | 1164.0 | 1122.0 | 1080.0 | 1035.7 | 991.2  | 940.5  | 889.5  | 852.2  |
| 15°    | 1290.4 | 1208.8 | 1155.3 | 1101.5 | 1045.2 | 988.6  | 934.3  | 879.9  | 820.0  | 760.0  | 717.7  |
| 17.5°  | 1264.6 | 1157.8 | 1083.0 | 1008.0 | 933.7  | 859.5  | 796.5  | 733.4  | 667.9  | 602.3  | 559.5  |
| 20°    | 1237.4 | 1095.4 | 995.1  | 894.5  | 799.3  | 704.0  | 632.6  | 561.1  | 502.6  | 444.0  | 411.3  |
| 22.5°  | 1212.8 | 1029.0 | 903.2  | 777.1  | 664.5  | 551.9  | 481.9  | 411.5  | 375.7  | 339.8  | 326.7  |
| 25°    | 1202.7 | 971.0  | 816.3  | 661.7  | 542.9  | 423.9  | 374.0  | 324.1  | 310.4  | 296.4  | 289.7  |
| 27.5°  | 1204.3 | 919.2  | 743.2  | 567.0  | 460.0  | 353.0  | 318.8  | 284.6  | 276.2  | 267.5  | 263.3  |
| 30°    | 1210.8 | 862.9  | 674.3  | 485.8  | 397.5  | 309.3  | 287.2  | 264.7  | 255.8  | 246.8  | 241.5  |
| 32.5°  | 1218.1 | 812.4  | 621.1  | 429.5  | 357.5  | 285.2  | 267.0  | 248.5  | 239.8  | 231.1  | 225.8  |
| 35°    | 1205.5 | 771.2  | 584.7  | 398.1  | 331.7  | 265.0  | 249.6  | 233.9  | 224.4  | 214.9  | 209.8  |
| 37.5°  | 1184.2 | 729.8  | 556.4  | 382.7  | 314.9  | 246.8  | 235.6  | 224.1  | 214.3  | 204.2  | 199.5  |
| 40°    | 1164.8 | 694.8  | 535.4  | 375.7  | 305.6  | 235.3  | 225.8  | 216.3  | 206.2  | 195.8  | 190.2  |
| 42.5°  | 1149.2 | 671.2  | 514.6  | 358.0  | 297.2  | 236.2  | 222.7  | 209.0  | 199.2  | 189.4  | 183.2  |
| 45°    | 1137.4 | 655.8  | 498.4  | 340.9  | 289.4  | 237.8  | 220.8  | 203.7  | 193.9  | 183.8  | 176.5  |
| 47.5°  | 1136.3 | 647.7  | 486.9  | 326.1  | 274.5  | 222.7  | 215.7  | 208.7  | 194.4  | 179.9  | 171.4  |
| 50°    | 1151.7 | 634.5  | 473.4  | 312.1  | 260.3  | 208.4  | 218.0  | 227.2  | 202.8  | 178.2  | 167.5  |
| 52.5°  | 1183.9 | 611.3  | 452.2  | 293.0  | 242.9  | 192.5  | 207.3  | 221.9  | 200.9  | 179.6  | 165.8  |
| 55°    | 1222.8 | 577.1  | 419.9  | 262.5  | 219.9  | 177.1  | 190.2  | 203.1  | 189.9  | 176.5  | 160.0  |
| 57.5°  | 1247.2 | 534.0  | 379.3  | 224.7  | 194.1  | 163.6  | 171.2  | 178.5  | 173.1  | 167.8  | 151.0  |
| 60°    | 1232.6 | 476.5  | 333.7  | 190.5  | 171.4  | 152.4  | 151.0  | 149.3  | 157.2  | 165.0  | 145.7  |
| 62.5°  | 1161.5 | 417.1  | 293.3  | 169.5  | 155.2  | 140.6  | 137.6  | 134.2  | 147.1  | 159.7  | 139.2  |
| 65°    | 1041.3 | 375.7  | 267.8  | 160.0  | 144.0  | 128.0  | 124.7  | 121.3  | 125.2  | 129.1  | 119.6  |
| 67.5°  | 888.6  | 350.2  | 253.3  | 156.3  | 137.0  | 117.4  | 113.5  | 109.5  | 108.7  | 107.9  | 104.5  |
| 70°    | 731.2  | 334.5  | 243.7  | 153.0  | 129.4  | 105.6  | 102.0  | 98.3   | 97.2   | 95.8   | 93.3   |
| 72.5°  | 611.3  | 332.5  | 242.6  | 152.7  | 123.3  | 93.8   | 90.5   | 87.1   | 85.7   | 84.0   | 82.1   |
| 75°    | 500.6  | 312.1  | 230.3  | 148.5  | 114.9  | 81.0   | 77.9   | 74.8   | 73.7   | 72.3   | 70.6   |
| 77.5°  | 371.5  | 258.3  | 193.6  | 128.9  | 98.3   | 67.8   | 64.7   | 61.4   | 61.1   | 60.5   | 59.1   |
| 80°    | 240.9  | 186.9  | 138.4  | 89.9   | 71.7   | 53.2   | 50.7   | 47.9   | 48.2   | 48.5   | 47.3   |
| 82.5°  | 133.9  | 109.0  | 84.6   | 60.2   | 49.0   | 37.8   | 36.7   | 35.3   | 36.1   | 36.7   | 35.3   |
| 85°    | 70.6   | 54.9   | 45.4   | 35.9   | 28.3   | 20.7   | 20.7   | 20.5   | 21.6   | 22.7   | 21.6   |
| 87.5°  | 30.5   | 19.3   | 16.5   | 13.4   | 7.6    | 1.4    | 1.7    | 1.7    | 2.2    | 2.8    | 2.5    |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P320226  
 CATALOG NUMBER: GLEON-SA2A-727-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 115°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 117.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 120°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 122.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 125°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 127.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 130°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 132.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 135°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 137.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 140°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 142.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 145°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 147.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 150°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |



REPORT NUMBER: P320226  
 CATALOG NUMBER: GLEON-SA2A-727-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   | 200°   | 205°   | 210°   | 215°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 |
| 2.5°   | 1929.9 | 1909.5 | 1888.7 | 1866.1 | 1870.3 | 1852.9 | 1835.5 | 1824.6 | 1813.7 | 1810.3 | 1806.9 |
| 5°     | 1559.6 | 1536.3 | 1512.8 | 1491.8 | 1510.0 | 1497.7 | 1485.3 | 1483.7 | 1481.7 | 1481.7 | 1481.4 |
| 7.5°   | 1153.9 | 1129.0 | 1103.8 | 1086.4 | 1104.3 | 1102.1 | 1099.9 | 1111.9 | 1123.9 | 1133.8 | 1143.3 |
| 10°    | 937.6  | 907.4  | 876.9  | 851.1  | 846.6  | 833.7  | 820.5  | 823.4  | 825.9  | 836.5  | 847.2  |
| 12.5°  | 814.9  | 778.8  | 742.7  | 712.4  | 698.7  | 677.4  | 655.8  | 642.4  | 628.9  | 630.3  | 631.4  |
| 15°    | 675.2  | 640.1  | 604.8  | 578.8  | 570.1  | 553.6  | 537.0  | 520.2  | 503.1  | 496.1  | 488.9  |
| 17.5°  | 516.3  | 488.3  | 460.0  | 442.6  | 442.6  | 437.9  | 433.1  | 424.7  | 416.0  | 409.0  | 401.7  |
| 20°    | 378.5  | 363.6  | 348.5  | 341.2  | 343.5  | 343.7  | 343.7  | 347.9  | 352.1  | 349.9  | 347.7  |
| 22.5°  | 313.2  | 307.9  | 302.6  | 299.5  | 300.6  | 300.9  | 301.2  | 305.1  | 308.7  | 311.5  | 314.0  |
| 25°    | 282.7  | 279.3  | 275.9  | 274.8  | 277.3  | 277.6  | 277.6  | 280.1  | 282.7  | 285.5  | 288.3  |
| 27.5°  | 258.9  | 257.5  | 256.1  | 254.1  | 256.6  | 256.6  | 256.3  | 259.1  | 261.7  | 264.2  | 266.4  |
| 30°    | 236.2  | 236.7  | 237.0  | 236.4  | 238.1  | 239.2  | 240.1  | 242.0  | 243.7  | 245.7  | 247.6  |
| 32.5°  | 220.2  | 219.4  | 218.5  | 218.0  | 221.6  | 223.6  | 225.5  | 227.5  | 229.2  | 230.0  | 230.8  |
| 35°    | 204.8  | 202.8  | 200.9  | 199.5  | 202.8  | 205.3  | 207.9  | 211.5  | 214.9  | 215.4  | 216.0  |
| 37.5°  | 194.4  | 191.9  | 189.4  | 187.7  | 189.1  | 190.2  | 191.3  | 195.3  | 199.2  | 201.4  | 203.4  |
| 40°    | 184.6  | 182.1  | 179.6  | 178.2  | 179.0  | 179.3  | 179.6  | 181.5  | 183.2  | 187.4  | 191.3  |
| 42.5°  | 176.8  | 173.7  | 170.6  | 168.9  | 169.5  | 170.0  | 170.3  | 170.0  | 169.8  | 173.7  | 177.6  |
| 45°    | 168.9  | 165.6  | 162.2  | 160.2  | 160.5  | 160.5  | 160.5  | 160.0  | 159.1  | 161.1  | 163.0  |
| 47.5°  | 162.8  | 158.8  | 154.9  | 153.0  | 152.4  | 151.8  | 151.3  | 151.0  | 150.4  | 151.8  | 153.0  |
| 50°    | 156.6  | 152.4  | 147.9  | 145.7  | 144.3  | 143.7  | 143.2  | 142.9  | 142.3  | 143.7  | 144.8  |
| 52.5°  | 151.8  | 146.8  | 141.8  | 138.1  | 136.7  | 135.9  | 135.0  | 135.3  | 135.3  | 135.9  | 136.2  |
| 55°    | 143.4  | 139.0  | 134.2  | 131.7  | 129.1  | 128.6  | 128.0  | 128.9  | 129.4  | 129.4  | 129.4  |
| 57.5°  | 134.2  | 130.0  | 125.5  | 123.8  | 121.6  | 121.6  | 121.3  | 122.4  | 123.3  | 123.8  | 124.4  |
| 60°    | 126.1  | 121.3  | 116.5  | 115.1  | 114.3  | 114.0  | 113.7  | 115.1  | 116.3  | 117.4  | 118.5  |
| 62.5°  | 118.5  | 113.5  | 108.4  | 106.7  | 106.5  | 106.7  | 106.7  | 108.1  | 109.3  | 110.4  | 111.5  |
| 65°    | 110.1  | 105.1  | 99.7   | 98.1   | 98.6   | 99.5   | 100.3  | 101.4  | 102.3  | 103.4  | 104.5  |
| 67.5°  | 100.9  | 96.7   | 92.2   | 90.5   | 90.8   | 91.9   | 93.0   | 93.8   | 94.4   | 95.5   | 96.7   |
| 70°    | 90.8   | 87.1   | 83.5   | 82.4   | 82.1   | 83.5   | 84.6   | 85.2   | 85.7   | 87.1   | 88.2   |
| 72.5°  | 79.8   | 76.8   | 73.7   | 72.8   | 73.1   | 74.0   | 74.8   | 75.6   | 76.2   | 77.6   | 78.7   |
| 75°    | 68.6   | 65.8   | 63.0   | 62.5   | 63.0   | 63.9   | 64.7   | 65.3   | 65.8   | 67.5   | 68.9   |
| 77.5°  | 57.7   | 54.6   | 51.3   | 51.0   | 51.8   | 52.7   | 53.2   | 54.1   | 54.9   | 57.1   | 59.4   |
| 80°    | 46.2   | 42.9   | 39.2   | 38.9   | 39.8   | 40.6   | 41.5   | 42.3   | 43.1   | 45.9   | 48.5   |
| 82.5°  | 33.9   | 30.0   | 26.1   | 25.5   | 28.3   | 29.1   | 30.0   | 31.4   | 32.5   | 35.0   | 37.5   |
| 85°    | 20.5   | 16.5   | 12.6   | 12.3   | 14.8   | 16.2   | 17.6   | 19.3   | 20.7   | 23.0   | 25.2   |
| 87.5°  | 2.2    | 1.1    | 0.0    | 0.0    | 0.3    | 1.4    | 2.5    | 3.9    | 5.3    | 7.6    | 9.5    |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 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):**

|        | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 115°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 117.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 120°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 122.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 125°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 127.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 130°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 132.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 135°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 137.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 140°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 142.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 145°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 147.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 150°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 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):**

|        | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   | 250°   | 255°   | 260°   | 265°   | 270°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 |
| 2.5°   | 1794.6 | 1782.0 | 1794.9 | 1807.5 | 1812.8 | 1818.1 | 1804.4 | 1790.4 | 1812.3 | 1833.8 | 1839.4 |
| 5°     | 1470.2 | 1458.7 | 1467.4 | 1475.8 | 1457.0 | 1438.3 | 1436.3 | 1434.1 | 1450.3 | 1466.6 | 1469.1 |
| 7.5°   | 1139.6 | 1136.0 | 1144.1 | 1152.2 | 1128.4 | 1104.3 | 1092.6 | 1080.8 | 1084.7 | 1088.6 | 1088.1 |
| 10°    | 849.7  | 851.9  | 862.0  | 871.8  | 853.3  | 834.8  | 826.7  | 818.6  | 827.6  | 836.2  | 844.4  |
| 12.5°  | 636.5  | 641.3  | 651.9  | 662.3  | 654.7  | 646.9  | 647.7  | 648.5  | 658.9  | 669.0  | 678.0  |
| 15°    | 494.5  | 500.1  | 507.6  | 514.9  | 515.2  | 515.2  | 522.5  | 529.5  | 528.6  | 527.8  | 534.0  |
| 17.5°  | 409.3  | 416.6  | 417.4  | 418.3  | 418.5  | 418.8  | 418.3  | 417.7  | 413.5  | 409.3  | 414.1  |
| 20°    | 350.5  | 353.0  | 355.2  | 357.2  | 354.7  | 351.9  | 344.9  | 337.9  | 335.1  | 332.3  | 336.7  |
| 22.5°  | 318.8  | 323.3  | 321.0  | 318.5  | 313.5  | 308.2  | 302.8  | 297.2  | 297.0  | 296.4  | 298.9  |
| 25°    | 292.2  | 295.8  | 291.9  | 288.0  | 284.3  | 280.7  | 277.1  | 273.4  | 273.1  | 272.9  | 274.0  |
| 27.5°  | 270.1  | 273.4  | 269.8  | 266.1  | 263.1  | 260.0  | 257.2  | 254.4  | 253.8  | 253.3  | 253.5  |
| 30°    | 251.0  | 254.1  | 251.0  | 247.6  | 245.4  | 242.9  | 240.9  | 239.0  | 238.7  | 238.4  | 238.4  |
| 32.5°  | 233.9  | 237.0  | 234.8  | 232.5  | 230.6  | 228.6  | 227.2  | 225.8  | 224.4  | 223.0  | 219.9  |
| 35°    | 219.1  | 222.2  | 220.8  | 219.1  | 216.8  | 214.6  | 212.1  | 209.3  | 205.6  | 201.7  | 200.0  |
| 37.5°  | 206.5  | 209.5  | 208.1  | 206.7  | 203.7  | 200.6  | 196.1  | 191.3  | 190.2  | 188.8  | 188.5  |
| 40°    | 196.4  | 201.1  | 198.3  | 195.3  | 190.5  | 185.7  | 183.5  | 181.3  | 180.7  | 180.1  | 179.6  |
| 42.5°  | 185.2  | 192.5  | 187.4  | 182.4  | 177.9  | 173.4  | 172.9  | 172.3  | 172.0  | 171.7  | 171.7  |
| 45°    | 171.2  | 179.0  | 174.0  | 168.6  | 166.1  | 163.6  | 163.6  | 163.6  | 163.9  | 163.9  | 164.4  |
| 47.5°  | 158.0  | 162.8  | 160.2  | 157.7  | 156.3  | 154.9  | 155.2  | 155.5  | 156.3  | 156.9  | 158.3  |
| 50°    | 146.8  | 148.5  | 149.0  | 149.3  | 148.5  | 147.6  | 148.2  | 148.5  | 149.3  | 149.9  | 151.0  |
| 52.5°  | 138.7  | 141.2  | 141.2  | 140.9  | 140.9  | 140.9  | 141.5  | 142.0  | 142.9  | 143.7  | 144.8  |
| 55°    | 133.3  | 137.0  | 135.9  | 134.8  | 135.0  | 135.0  | 135.6  | 136.2  | 137.0  | 137.6  | 139.2  |
| 57.5°  | 128.3  | 132.2  | 131.1  | 130.0  | 130.0  | 130.0  | 130.3  | 130.5  | 131.4  | 131.9  | 133.1  |
| 60°    | 122.4  | 126.3  | 125.2  | 123.8  | 124.1  | 124.4  | 124.7  | 124.7  | 125.2  | 125.5  | 125.5  |
| 62.5°  | 115.4  | 119.3  | 118.2  | 116.8  | 117.7  | 118.2  | 118.2  | 118.2  | 118.8  | 119.1  | 118.2  |
| 65°    | 108.1  | 111.8  | 110.7  | 109.5  | 110.7  | 111.5  | 112.1  | 112.3  | 112.1  | 111.8  | 110.9  |
| 67.5°  | 100.3  | 103.9  | 102.8  | 101.4  | 102.8  | 103.9  | 105.1  | 105.9  | 105.1  | 104.2  | 103.1  |
| 70°    | 91.9   | 95.5   | 94.1   | 92.7   | 94.1   | 95.5   | 96.7   | 97.8   | 96.7   | 95.5   | 95.2   |
| 72.5°  | 82.9   | 87.1   | 85.4   | 83.8   | 85.4   | 87.1   | 87.7   | 88.2   | 87.4   | 86.6   | 86.0   |
| 75°    | 73.1   | 77.3   | 75.9   | 74.2   | 75.6   | 77.0   | 77.3   | 77.6   | 77.6   | 77.3   | 75.6   |
| 77.5°  | 62.8   | 66.1   | 65.3   | 64.4   | 65.3   | 66.1   | 66.1   | 66.1   | 66.4   | 66.4   | 64.2   |
| 80°    | 50.4   | 52.4   | 52.7   | 52.9   | 53.2   | 53.5   | 53.2   | 52.9   | 52.4   | 51.8   | 50.4   |
| 82.5°  | 37.5   | 37.5   | 39.8   | 41.7   | 41.7   | 41.5   | 41.2   | 40.6   | 39.5   | 38.1   | 35.0   |
| 85°    | 23.8   | 22.4   | 26.1   | 29.4   | 29.4   | 29.1   | 28.6   | 27.7   | 25.5   | 23.0   | 20.5   |
| 87.5°  | 8.1    | 6.7    | 10.4   | 14.0   | 14.3   | 14.3   | 13.7   | 13.2   | 10.9   | 8.4    | 6.4    |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 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):**

|        | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 115°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 117.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 120°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 122.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 125°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 127.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 130°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 132.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 135°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 137.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 140°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 142.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 145°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 147.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 150°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |





REPORT NUMBER: P320226  
 CATALOG NUMBER: GLEON-SA2A-727-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 275°   | 280°   | 285°   | 290°   | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 |
| 2.5°   | 1847.8 | 1851.5 | 1854.8 | 1882.3 | 1909.5 | 1941.4 | 1973.4 | 1997.7 | 2021.8 | 2046.7 | 2071.7 |
| 5°     | 1477.8 | 1482.3 | 1486.7 | 1520.1 | 1553.1 | 1597.7 | 1642.2 | 1680.6 | 1719.0 | 1764.1 | 1809.2 |
| 7.5°   | 1095.4 | 1105.2 | 1114.7 | 1150.3 | 1185.6 | 1233.5 | 1281.1 | 1331.3 | 1381.1 | 1440.0 | 1498.8 |
| 10°    | 860.3  | 878.8  | 897.0  | 933.4  | 969.9  | 1017.2 | 1064.3 | 1116.7 | 1169.1 | 1227.0 | 1284.8 |
| 12.5°  | 696.4  | 721.1  | 745.5  | 789.2  | 832.9  | 889.5  | 945.8  | 1004.0 | 1062.0 | 1113.0 | 1164.0 |
| 15°    | 550.2  | 577.1  | 603.7  | 649.9  | 696.2  | 758.4  | 820.3  | 883.9  | 947.2  | 1008.2 | 1069.3 |
| 17.5°  | 429.2  | 451.3  | 473.2  | 512.4  | 551.3  | 611.6  | 671.8  | 738.5  | 805.1  | 879.7  | 953.9  |
| 20°    | 346.3  | 355.5  | 364.8  | 393.0  | 421.1  | 470.1  | 518.8  | 586.9  | 655.0  | 744.1  | 833.2  |
| 22.5°  | 303.4  | 308.2  | 312.6  | 326.4  | 339.8  | 371.5  | 402.9  | 463.1  | 523.0  | 620.2  | 717.2  |
| 25°    | 277.6  | 281.3  | 284.9  | 293.9  | 302.8  | 318.0  | 333.1  | 375.4  | 417.7  | 513.2  | 608.5  |
| 27.5°  | 254.4  | 260.0  | 265.3  | 269.5  | 273.4  | 283.8  | 293.9  | 321.6  | 349.3  | 438.4  | 527.2  |
| 30°    | 237.6  | 239.5  | 241.5  | 247.9  | 254.1  | 264.7  | 275.4  | 294.7  | 314.0  | 389.4  | 464.5  |
| 32.5°  | 218.0  | 220.8  | 223.6  | 230.3  | 237.0  | 246.8  | 256.6  | 272.3  | 287.7  | 352.1  | 416.3  |
| 35°    | 200.3  | 203.1  | 205.9  | 212.6  | 219.1  | 229.7  | 240.1  | 253.3  | 266.1  | 322.2  | 378.2  |
| 37.5°  | 189.4  | 192.2  | 195.0  | 200.9  | 206.5  | 217.1  | 227.5  | 237.8  | 247.9  | 299.8  | 351.6  |
| 40°    | 180.1  | 182.9  | 185.7  | 191.3  | 196.7  | 207.0  | 217.1  | 225.8  | 234.5  | 282.9  | 331.4  |
| 42.5°  | 172.0  | 175.1  | 178.2  | 183.8  | 189.1  | 198.3  | 207.6  | 219.1  | 230.3  | 268.4  | 306.2  |
| 45°    | 165.3  | 168.4  | 171.2  | 177.3  | 183.5  | 192.5  | 201.4  | 217.4  | 233.4  | 260.8  | 288.3  |
| 47.5°  | 159.1  | 162.5  | 165.6  | 172.3  | 179.0  | 190.2  | 201.1  | 214.6  | 227.8  | 254.9  | 282.1  |
| 50°    | 153.2  | 157.2  | 161.1  | 169.2  | 177.1  | 195.8  | 214.3  | 216.3  | 218.0  | 250.2  | 282.1  |
| 52.5°  | 147.6  | 152.1  | 156.6  | 166.7  | 176.5  | 198.3  | 220.2  | 213.2  | 205.9  | 241.2  | 276.5  |
| 55°    | 142.0  | 146.0  | 149.6  | 161.9  | 174.3  | 190.2  | 206.2  | 196.9  | 187.4  | 224.4  | 261.4  |
| 57.5°  | 134.5  | 138.7  | 142.6  | 155.8  | 168.9  | 180.1  | 191.1  | 182.7  | 174.0  | 205.3  | 236.4  |
| 60°    | 126.6  | 131.4  | 136.2  | 153.0  | 169.5  | 167.5  | 165.3  | 163.6  | 161.6  | 184.1  | 206.5  |
| 62.5°  | 119.6  | 124.7  | 129.7  | 151.6  | 173.4  | 160.0  | 146.5  | 147.9  | 149.0  | 165.6  | 182.1  |
| 65°    | 112.6  | 117.7  | 122.4  | 133.3  | 144.3  | 139.0  | 133.6  | 135.9  | 137.8  | 154.1  | 170.3  |
| 67.5°  | 104.8  | 109.3  | 113.5  | 117.1  | 120.7  | 121.3  | 121.9  | 124.1  | 126.3  | 145.7  | 164.7  |
| 70°    | 96.1   | 99.7   | 103.4  | 105.9  | 108.1  | 109.3  | 110.1  | 112.9  | 115.7  | 136.7  | 157.7  |
| 72.5°  | 86.3   | 89.4   | 92.2   | 94.4   | 96.7   | 97.5   | 98.1   | 100.9  | 103.7  | 126.1  | 148.5  |
| 75°    | 75.6   | 78.2   | 80.4   | 82.4   | 84.3   | 85.4   | 86.6   | 88.5   | 90.5   | 114.9  | 139.0  |
| 77.5°  | 63.9   | 66.4   | 68.6   | 70.3   | 71.7   | 72.8   | 73.7   | 76.2   | 78.7   | 99.2   | 119.3  |
| 80°    | 49.9   | 52.9   | 55.7   | 57.1   | 58.3   | 58.6   | 58.6   | 60.8   | 63.0   | 77.6   | 91.9   |
| 82.5°  | 35.3   | 38.7   | 41.7   | 42.9   | 44.0   | 44.0   | 44.0   | 46.5   | 49.0   | 58.8   | 68.4   |
| 85°    | 20.7   | 24.4   | 27.7   | 28.9   | 30.0   | 30.5   | 30.8   | 31.9   | 32.8   | 39.8   | 46.5   |
| 87.5°  | 6.4    | 9.5    | 12.3   | 12.9   | 13.4   | 14.6   | 15.7   | 16.0   | 16.0   | 20.7   | 25.5   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P320226  
 CATALOG NUMBER: GLEON-SA2A-727-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 115°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 117.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 120°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 122.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 125°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 127.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 130°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 132.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 135°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 137.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 140°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 142.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 145°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 147.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 150°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |



REPORT NUMBER: P320226  
 CATALOG NUMBER: GLEON-SA2A-727-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 330°   | 335°   | 340°   | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 | 2134.7 |
| 2.5°   | 2100.3 | 2128.8 | 2162.2 | 2195.2 | 2223.5 | 2251.8 | 2275.3 |
| 5°     | 1866.6 | 1924.0 | 1994.4 | 2064.4 | 2126.9 | 2189.3 | 2261.9 |
| 7.5°   | 1573.0 | 1647.3 | 1738.3 | 1829.4 | 1917.6 | 2005.6 | 2117.1 |
| 10°    | 1360.4 | 1435.8 | 1532.1 | 1628.2 | 1727.4 | 1826.3 | 1952.3 |
| 12.5°  | 1225.4 | 1286.4 | 1379.7 | 1473.0 | 1589.6 | 1705.8 | 1827.1 |
| 15°    | 1136.3 | 1202.9 | 1293.7 | 1384.5 | 1511.9 | 1639.4 | 1778.9 |
| 17.5°  | 1041.3 | 1128.4 | 1244.7 | 1361.0 | 1511.9 | 1662.7 | 1827.1 |
| 20°    | 941.9  | 1050.3 | 1201.0 | 1351.7 | 1555.1 | 1758.2 | 1968.0 |
| 22.5°  | 842.7  | 968.2  | 1161.5 | 1354.5 | 1620.4 | 1885.9 | 2169.2 |
| 25°    | 753.3  | 898.1  | 1137.4 | 1376.4 | 1715.3 | 2054.0 | 2405.3 |
| 27.5°  | 685.5  | 843.5  | 1127.6 | 1411.4 | 1835.8 | 2260.2 | 2662.2 |
| 30°    | 625.3  | 786.1  | 1115.8 | 1445.6 | 1951.8 | 2457.7 | 2863.1 |
| 32.5°  | 573.2  | 730.1  | 1093.1 | 1455.9 | 2032.7 | 2609.6 | 3033.1 |
| 35°    | 532.3  | 686.4  | 1055.0 | 1423.7 | 2083.4 | 2743.2 | 3210.2 |
| 37.5°  | 497.0  | 642.4  | 1011.6 | 1380.8 | 2128.6 | 2876.3 | 3409.4 |
| 40°    | 463.4  | 595.3  | 974.3  | 1353.1 | 2190.7 | 3028.4 | 3619.8 |
| 42.5°  | 431.4  | 556.7  | 944.4  | 1332.1 | 2248.5 | 3164.5 | 3803.8 |
| 45°    | 407.6  | 527.0  | 917.8  | 1308.3 | 2285.7 | 3263.1 | 3942.5 |
| 47.5°  | 395.8  | 509.3  | 903.5  | 1297.4 | 2323.0 | 3348.3 | 4057.6 |
| 50°    | 394.2  | 506.2  | 919.7  | 1333.2 | 2403.7 | 3473.8 | 4189.3 |
| 52.5°  | 393.9  | 511.3  | 966.5  | 1421.7 | 2553.5 | 3685.0 | 4331.9 |
| 55°    | 388.0  | 514.3  | 1022.3 | 1529.9 | 2754.7 | 3979.2 | 4588.2 |
| 57.5°  | 370.1  | 503.7  | 1079.7 | 1655.4 | 2967.3 | 4279.0 | 4877.1 |
| 60°    | 342.3  | 477.9  | 1127.0 | 1775.8 | 3110.2 | 4444.2 | 4988.3 |
| 62.5°  | 307.6  | 432.8  | 1142.7 | 1852.3 | 3106.3 | 4360.2 | 4876.2 |
| 65°    | 277.9  | 385.5  | 1091.2 | 1796.6 | 2949.1 | 4101.3 | 4654.6 |
| 67.5°  | 251.6  | 338.1  | 962.3  | 1586.2 | 2666.4 | 3746.4 | 4372.8 |
| 70°    | 232.5  | 307.0  | 796.2  | 1285.3 | 2312.6 | 3339.6 | 4046.4 |
| 72.5°  | 220.5  | 292.2  | 649.1  | 1005.7 | 1876.7 | 2747.4 | 3461.2 |
| 75°    | 203.9  | 268.9  | 509.3  | 749.4  | 1436.3 | 2123.2 | 2614.3 |
| 77.5°  | 173.1  | 226.6  | 383.8  | 541.0  | 1053.9 | 1566.6 | 1818.1 |
| 80°    | 133.6  | 175.1  | 263.9  | 352.7  | 725.3  | 1097.9 | 1239.6 |
| 82.5°  | 95.2   | 122.1  | 160.0  | 197.8  | 481.9  | 765.6  | 777.4  |
| 85°    | 58.8   | 71.2   | 91.6   | 112.1  | 318.8  | 525.6  | 437.9  |
| 87.5°  | 31.7   | 37.8   | 48.5   | 58.8   | 102.0  | 145.1  | 83.5   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P320226  
CATALOG NUMBER: GLEON-SA2A-727-U-SLL

**CANDELA DISTRIBUTION (continued):**

|        | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|--------|------|------|------|------|------|------|------|
| 112.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 115°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 117.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 120°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 122.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 125°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 127.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 130°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 132.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 135°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 137.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 140°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 142.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 145°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 147.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 150°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



LM-79-2008: Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGRAW-EDISON

Report Number: SP1-1908-441-1-R4

Test Date: 08/20/2019

Luminaire Tested: SA1C-727-U-5WQ

**Test Information**

Test Method: LM-79-2008  
 Report Number: SP1-1908-441-1-R4  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry: 4π  
 Issue Date: 10/28/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: McGRAW-EDISON  
 Catalog Number: **SA1C-727-U-5WQ**  
 Description: McGRAW EDISON ROADWAY AND AREA LUMINAIRE

\*\*\*THIS IS A REVISION OF SP1-1908-441-1-R3. TO UPDATE THE CATALOG NUMBER.\*\*\*TESTED IN  
 SITU. (1) 70 CRI, 2700K, 1050MA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS.

**Spectral Parameters**

CCT (K): 2741  
 CIE u': 0.2605  
 CIE v': 0.5272  
 Duv: 0.0005  
 CIE x: 0.4573  
 CIE y: 0.4113  
 CIE z: 0.1313  
 Peak Wavelength (nm): 602  
 Dominant Wavelength (nm): 583  
 Purity: 61.2  
 Rf: 69.9  
 Rg: 98.3

|           |      |      |       |
|-----------|------|------|-------|
| CRI (Ra): | 71.5 |      |       |
| R1:       | 69.2 | R9:  | -16.1 |
| R2:       | 79.4 | R10: | 51.4  |
| R3:       | 87.8 | R11: | 63.1  |
| R4:       | 69.4 | R12: | 42.0  |
| R5:       | 66.4 | R13: | 70.2  |
| R6:       | 69.8 | R14: | 92.4  |
| R7:       | 79.8 |      |       |
| R8:       | 50.1 |      |       |



**Test Conditions**

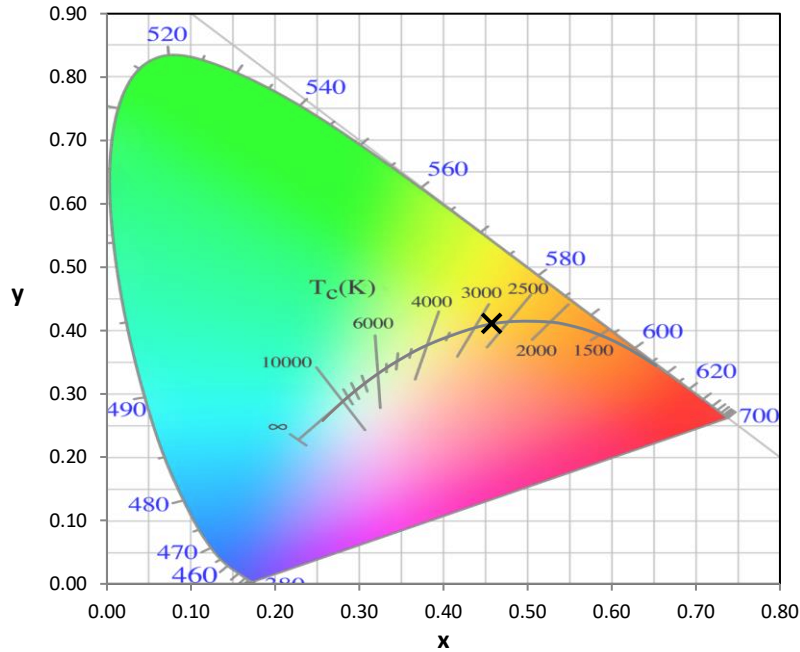
Stabilization Time: 56M  
 Operation Time: 12H  
 Room Temperature (°C) / RH%: 25.3./42%  
 Sphere Temperature (°C): 25.7

REPORT NUMBER: SP1-1908-441-1-R4

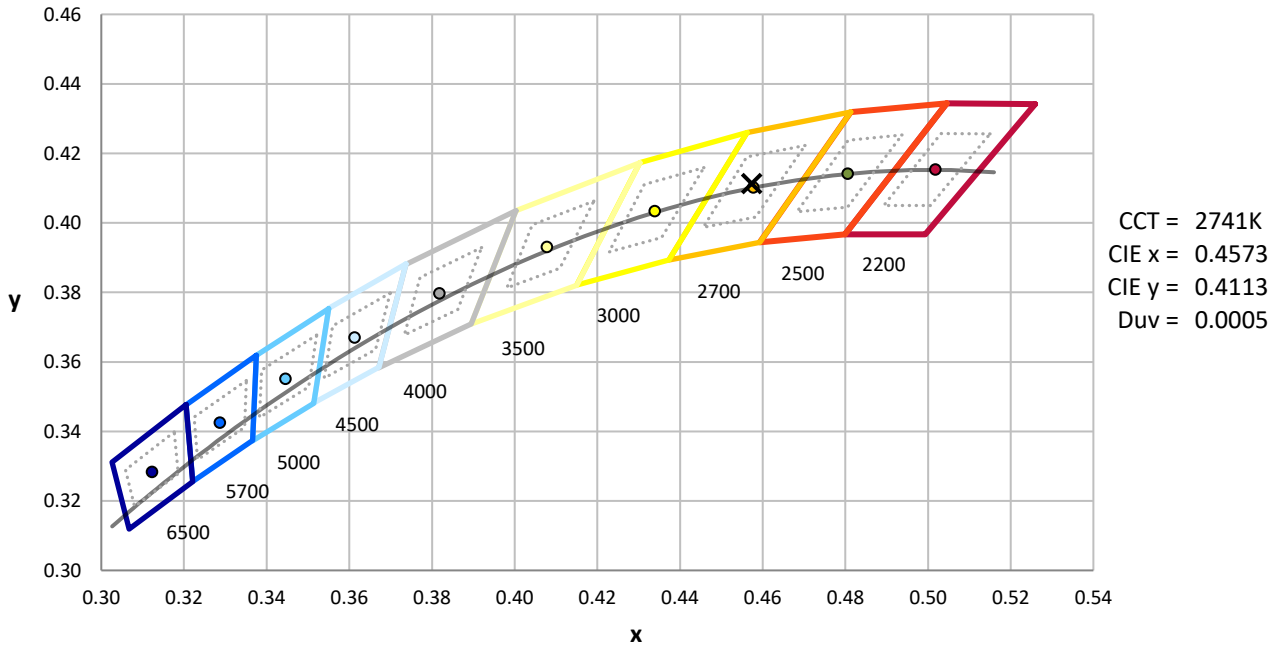
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| Photometer                     | IN0058                | 6/28/2019        | 12/28/2019           |
| Power Meter                    | IN0071                | 12/5/2018        | 12/5/2019            |
| AC Power Source                | IN0063                | 12/5/2018        | 12/5/2019            |
| DC Power Source                | IN0208                | 12/5/2018        | 12/5/2019            |
| Sphere Thermometer             | IN0085                | 12/5/2018        | 12/5/2019            |
| Room Thermometer               | IN0046                | 12/5/2018        | 12/5/2019            |

REPORT NUMBER: SP1-1908-441-1-R4

CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle



REPORT NUMBER: SP1-1908-441-1-R4

**Photopic Flux vs. Wavelength**



**Photopic Lumens: 6211.7**

| $\lambda$ (nm) | Power ( $\mu\text{W}/\text{nm}$ ) | Lumens ( $\phi/\text{nm}$ ) | $\lambda$ (nm) | Power ( $\mu\text{W}/\text{nm}$ ) | Lumens ( $\phi/\text{nm}$ ) | $\lambda$ (nm) | Power ( $\mu\text{W}/\text{nm}$ ) | Lumens ( $\phi/\text{nm}$ ) | $\lambda$ (nm) | Power ( $\mu\text{W}/\text{nm}$ ) | Lumens ( $\phi/\text{nm}$ ) | $\lambda$ (nm) | Power ( $\mu\text{W}/\text{nm}$ ) | Lumens ( $\phi/\text{nm}$ ) |
|----------------|-----------------------------------|-----------------------------|----------------|-----------------------------------|-----------------------------|----------------|-----------------------------------|-----------------------------|----------------|-----------------------------------|-----------------------------|----------------|-----------------------------------|-----------------------------|
| 360            | 2044                              | 0.0                         | 490            | 7179                              | 1.0                         | 620            | 118034                            | 30.7                        | 750            | 8362                              | 0.0                         | 880            | 3128                              | 0.0                         |
| 365            | 2016                              | 0.0                         | 495            | 10476                             | 1.9                         | 625            | 111884                            | 24.7                        | 755            | 7635                              | 0.0                         | 885            | 3110                              | 0.0                         |
| 370            | 2020                              | 0.0                         | 500            | 15549                             | 3.4                         | 630            | 106119                            | 19.2                        | 760            | 6582                              | 0.0                         | 890            | 2632                              | 0.0                         |
| 375            | 2137                              | 0.0                         | 505            | 22477                             | 6.3                         | 635            | 99706                             | 15.0                        | 765            | 5777                              | 0.0                         | 895            | 2709                              | 0.0                         |
| 380            | 2046                              | 0.0                         | 510            | 30417                             | 10.4                        | 640            | 92142                             | 11.0                        | 770            | 5474                              | 0.0                         | 900            | 2016                              | 0.0                         |
| 385            | 1925                              | 0.0                         | 515            | 39274                             | 16.3                        | 645            | 84987                             | 8.2                         | 775            | 4977                              | 0.0                         | 905            | 1748                              | 0.0                         |
| 390            | 1893                              | 0.0                         | 520            | 47282                             | 22.9                        | 650            | 78016                             | 5.7                         | 780            | 4723                              | 0.0                         | 910            | 2046                              | 0.0                         |
| 395            | 1695                              | 0.0                         | 525            | 55413                             | 29.7                        | 655            | 71541                             | 4.1                         | 785            | 4219                              | 0.0                         | 915            | 1844                              | 0.0                         |
| 400            | 1633                              | 0.0                         | 530            | 62377                             | 36.7                        | 660            | 64863                             | 2.7                         | 790            | 3969                              | 0.0                         | 920            | 2734                              | 0.0                         |
| 405            | 2065                              | 0.0                         | 535            | 68520                             | 42.5                        | 665            | 58485                             | 1.9                         | 795            | 4122                              | 0.0                         | 925            | 2307                              | 0.0                         |
| 410            | 3449                              | 0.0                         | 540            | 73435                             | 47.8                        | 670            | 51641                             | 1.1                         | 800            | 2864                              | 0.0                         | 930            | 2039                              | 0.0                         |
| 415            | 7117                              | 0.0                         | 545            | 78677                             | 52.4                        | 675            | 46030                             | 0.8                         | 805            | 3151                              | 0.0                         | 935            | 1784                              | 0.0                         |
| 420            | 13992                             | 0.0                         | 550            | 83331                             | 56.6                        | 680            | 40590                             | 0.5                         | 810            | 3022                              | 0.0                         | 940            | 2464                              | 0.0                         |
| 425            | 25176                             | 0.1                         | 555            | 89120                             | 60.9                        | 685            | 35691                             | 0.3                         | 815            | 3471                              | 0.0                         | 945            | 2794                              | 0.0                         |
| 430            | 38151                             | 0.3                         | 560            | 94613                             | 64.3                        | 690            | 31631                             | 0.2                         | 820            | 2749                              | 0.0                         | 950            | 3090                              | 0.0                         |
| 435            | 49673                             | 0.6                         | 565            | 99818                             | 66.4                        | 695            | 27437                             | 0.1                         | 825            | 2729                              | 0.0                         | 955            | 1866                              | 0.0                         |
| 440            | 57273                             | 0.9                         | 570            | 106526                            | 69.3                        | 700            | 24589                             | 0.1                         | 830            | 2282                              | 0.0                         | 960            | 3110                              | 0.0                         |
| 445            | 54802                             | 1.1                         | 575            | 111610                            | 69.4                        | 705            | 21832                             | 0.0                         | 835            | 3140                              | 0.0                         | 965            | 3880                              | 0.0                         |
| 450            | 39184                             | 1.0                         | 580            | 117163                            | 69.6                        | 710            | 19500                             | 0.0                         | 840            | 2365                              | 0.0                         | 970            | 3243                              | 0.0                         |
| 455            | 22506                             | 0.8                         | 585            | 122201                            | 67.9                        | 715            | 17870                             | 0.0                         | 845            | 3024                              | 0.0                         | 975            | 2014                              | 0.0                         |
| 460            | 13692                             | 0.6                         | 590            | 125662                            | 65.0                        | 720            | 15924                             | 0.0                         | 850            | 2510                              | 0.0                         | 980            | 1688                              | 0.0                         |
| 465            | 9446                              | 0.5                         | 595            | 127415                            | 60.4                        | 725            | 14268                             | 0.0                         | 855            | 2739                              | 0.0                         | 985            | 2827                              | 0.0                         |
| 470            | 6698                              | 0.4                         | 600            | 129155                            | 55.7                        | 730            | 12438                             | 0.0                         | 860            | 3515                              | 0.0                         | 990            | 4172                              | 0.0                         |
| 475            | 5328                              | 0.4                         | 605            | 128057                            | 49.6                        | 735            | 11255                             | 0.0                         | 865            | 3600                              | 0.0                         | 995            | 3177                              | 0.0                         |
| 480            | 5081                              | 0.5                         | 610            | 126031                            | 43.3                        | 740            | 9951                              | 0.0                         | 870            | 3609                              | 0.0                         | 1000           | 3241                              | 0.0                         |
| 485            | 5579                              | 0.7                         | 615            | 123059                            | 37.1                        | 745            | 8870                              | 0.0                         | 875            | 3208                              | 0.0                         |                |                                   |                             |

REPORT NUMBER: SP1-1908-441-1-R4

Scotopic Flux vs. Wavelength



Scotopic Lumens: 6474.3

S/P: 1.04

| λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) |
|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|
| 360    | 2044          | 0.0           | 490    | 7179          | 6.0           | 620    | 118034        | 0.1           | 750    | 8362          | 0.0           | 880    | 3128          | 0.0           |
| 365    | 2016          | 0.0           | 495    | 10476         | 8.6           | 625    | 111884        | 0.1           | 755    | 7635          | 0.0           | 885    | 3110          | 0.0           |
| 370    | 2020          | 0.0           | 500    | 15549         | 12.5          | 630    | 106119        | 0.0           | 760    | 6582          | 0.0           | 890    | 2632          | 0.0           |
| 375    | 2137          | 0.0           | 505    | 22477         | 17.3          | 635    | 99706         | 0.0           | 765    | 5777          | 0.0           | 895    | 2709          | 0.0           |
| 380    | 2046          | 0.0           | 510    | 30417         | 21.8          | 640    | 92142         | 0.0           | 770    | 5474          | 0.0           | 900    | 2016          | 0.0           |
| 385    | 1925          | 0.0           | 515    | 39274         | 25.7          | 645    | 84987         | 0.0           | 775    | 4977          | 0.0           | 905    | 1748          | 0.0           |
| 390    | 1893          | 0.0           | 520    | 47282         | 27.5          | 650    | 78016         | 0.0           | 780    | 4723          | 0.0           | 910    | 2046          | 0.0           |
| 395    | 1695          | 0.0           | 525    | 55413         | 28.1          | 655    | 71541         | 0.0           | 785    | 4219          | 0.0           | 915    | 1844          | 0.0           |
| 400    | 1633          | 0.0           | 530    | 62377         | 27.0          | 660    | 64863         | 0.0           | 790    | 3969          | 0.0           | 920    | 2734          | 0.0           |
| 405    | 2065          | 0.0           | 535    | 68520         | 24.7          | 665    | 58485         | 0.0           | 795    | 4122          | 0.0           | 925    | 2307          | 0.0           |
| 410    | 3449          | 0.1           | 540    | 73435         | 21.5          | 670    | 51641         | 0.0           | 800    | 2864          | 0.0           | 930    | 2039          | 0.0           |
| 415    | 7117          | 0.5           | 545    | 78677         | 18.3          | 675    | 46030         | 0.0           | 805    | 3151          | 0.0           | 935    | 1784          | 0.0           |
| 420    | 13992         | 1.6           | 550    | 83331         | 15.0          | 680    | 40590         | 0.0           | 810    | 3022          | 0.0           | 940    | 2464          | 0.0           |
| 425    | 25176         | 3.9           | 555    | 89120         | 12.0          | 685    | 35691         | 0.0           | 815    | 3471          | 0.0           | 945    | 2794          | 0.0           |
| 430    | 38151         | 8.1           | 560    | 94613         | 9.3           | 690    | 31631         | 0.0           | 820    | 2749          | 0.0           | 950    | 3090          | 0.0           |
| 435    | 49673         | 13.3          | 565    | 99818         | 7.0           | 695    | 27437         | 0.0           | 825    | 2729          | 0.0           | 955    | 1866          | 0.0           |
| 440    | 57273         | 19.1          | 570    | 106526        | 5.2           | 700    | 24589         | 0.0           | 830    | 2282          | 0.0           | 960    | 3110          | 0.0           |
| 445    | 54802         | 21.6          | 575    | 111610        | 3.7           | 705    | 21832         | 0.0           | 835    | 3140          | 0.0           | 965    | 3880          | 0.0           |
| 450    | 39184         | 18.1          | 580    | 117163        | 2.6           | 710    | 19500         | 0.0           | 840    | 2365          | 0.0           | 970    | 3243          | 0.0           |
| 455    | 22506         | 11.8          | 585    | 122201        | 1.8           | 715    | 17870         | 0.0           | 845    | 3024          | 0.0           | 975    | 2014          | 0.0           |
| 460    | 13692         | 8.1           | 590    | 125662        | 1.2           | 720    | 15924         | 0.0           | 850    | 2510          | 0.0           | 980    | 1688          | 0.0           |
| 465    | 9446          | 6.2           | 595    | 127415        | 0.8           | 725    | 14268         | 0.0           | 855    | 2739          | 0.0           | 985    | 2827          | 0.0           |
| 470    | 6698          | 4.8           | 600    | 129155        | 0.5           | 730    | 12438         | 0.0           | 860    | 3515          | 0.0           | 990    | 4172          | 0.0           |
| 475    | 5328          | 4.1           | 605    | 128057        | 0.4           | 735    | 11255         | 0.0           | 865    | 3600          | 0.0           | 995    | 3177          | 0.0           |
| 480    | 5081          | 4.1           | 610    | 126031        | 0.2           | 740    | 9951          | 0.0           | 870    | 3609          | 0.0           | 1000   | 3241          | 0.0           |
| 485    | 5579          | 4.6           | 615    | 123059        | 0.1           | 745    | 8870          | 0.0           | 875    | 3208          | 0.0           |        |               |               |

REPORT NUMBER: SP1-1908-441-1-R4

Melanopic Flux vs. Wavelength



Melanopic Lumens: 2145.7 M/P: 0.35

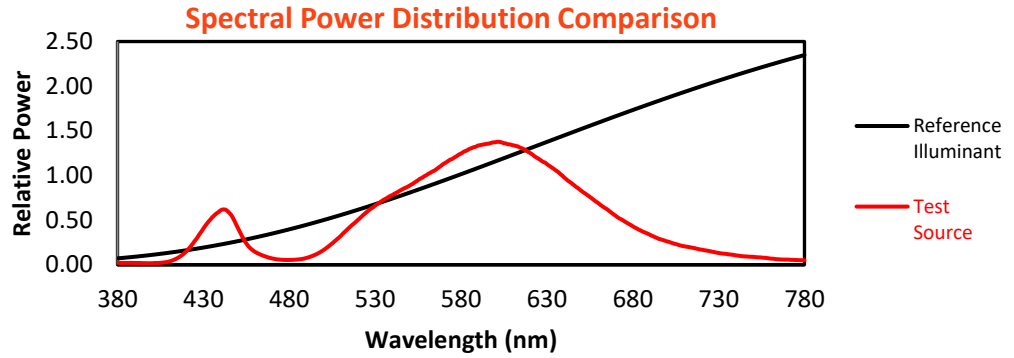
| λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) |
|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|
| 360    | 2044          | 0.0           | 490    | 7179          | 11.1          | 620    | 118034        | 1.5           | 750    | 8362          | 0.0           | 880    | 3128          | 0.0           |
| 365    | 2016          | 0.0           | 495    | 10476         | 16.9          | 625    | 111884        | 0.9           | 755    | 7635          | 0.0           | 885    | 3110          | 0.0           |
| 370    | 2020          | 0.0           | 500    | 15549         | 26.0          | 630    | 106119        | 0.6           | 760    | 6582          | 0.0           | 890    | 2632          | 0.0           |
| 375    | 2137          | 0.0           | 505    | 22477         | 38.2          | 635    | 99706         | 0.4           | 765    | 5777          | 0.0           | 895    | 2709          | 0.0           |
| 380    | 2046          | 0.0           | 510    | 30417         | 51.6          | 640    | 92142         | 0.2           | 770    | 5474          | 0.0           | 900    | 2016          | 0.0           |
| 385    | 1925          | 0.0           | 515    | 39274         | 65.1          | 645    | 84987         | 0.1           | 775    | 4977          | 0.0           | 905    | 1748          | 0.0           |
| 390    | 1893          | 0.0           | 520    | 47282         | 75.2          | 650    | 78016         | 0.1           | 780    | 4723          | 0.0           | 910    | 2046          | 0.0           |
| 395    | 1695          | 0.0           | 525    | 55413         | 82.9          | 655    | 71541         | 0.1           | 785    | 4219          | 0.0           | 915    | 1844          | 0.0           |
| 400    | 1633          | 0.0           | 530    | 62377         | 86.0          | 660    | 64863         | 0.0           | 790    | 3969          | 0.0           | 920    | 2734          | 0.0           |
| 405    | 2065          | 0.1           | 535    | 68520         | 85.4          | 665    | 58485         | 0.0           | 795    | 4122          | 0.0           | 925    | 2307          | 0.0           |
| 410    | 3449          | 0.2           | 540    | 73435         | 81.1          | 670    | 51641         | 0.0           | 800    | 2864          | 0.0           | 930    | 2039          | 0.0           |
| 415    | 7117          | 0.7           | 545    | 78677         | 75.4          | 675    | 46030         | 0.0           | 805    | 3151          | 0.0           | 935    | 1784          | 0.0           |
| 420    | 13992         | 2.3           | 550    | 83331         | 68.1          | 680    | 40590         | 0.0           | 810    | 3022          | 0.0           | 940    | 2464          | 0.0           |
| 425    | 25176         | 6.2           | 555    | 89120         | 60.9          | 685    | 35691         | 0.0           | 815    | 3471          | 0.0           | 945    | 2794          | 0.0           |
| 430    | 38151         | 13.0          | 560    | 94613         | 52.9          | 690    | 31631         | 0.0           | 820    | 2749          | 0.0           | 950    | 3090          | 0.0           |
| 435    | 49673         | 22.2          | 565    | 99818         | 44.8          | 695    | 27437         | 0.0           | 825    | 2729          | 0.0           | 955    | 1866          | 0.0           |
| 440    | 57273         | 32.0          | 570    | 106526        | 37.6          | 700    | 24589         | 0.0           | 830    | 2282          | 0.0           | 960    | 3110          | 0.0           |
| 445    | 54802         | 36.7          | 575    | 111610        | 30.4          | 705    | 21832         | 0.0           | 835    | 3140          | 0.0           | 965    | 3880          | 0.0           |
| 450    | 39184         | 30.4          | 580    | 117163        | 24.1          | 710    | 19500         | 0.0           | 840    | 2365          | 0.0           | 970    | 3243          | 0.0           |
| 455    | 22506         | 19.7          | 585    | 122201        | 18.7          | 715    | 17870         | 0.0           | 845    | 3024          | 0.0           | 975    | 2014          | 0.0           |
| 460    | 13692         | 13.2          | 590    | 125662        | 14.0          | 720    | 15924         | 0.0           | 850    | 2510          | 0.0           | 980    | 1688          | 0.0           |
| 465    | 9446          | 10.0          | 595    | 127415        | 10.2          | 725    | 14268         | 0.0           | 855    | 2739          | 0.0           | 985    | 2827          | 0.0           |
| 470    | 6698          | 7.7           | 600    | 129155        | 7.3           | 730    | 12438         | 0.0           | 860    | 3515          | 0.0           | 990    | 4172          | 0.0           |
| 475    | 5328          | 6.7           | 605    | 128057        | 5.0           | 735    | 11255         | 0.0           | 865    | 3600          | 0.0           | 995    | 3177          | 0.0           |
| 480    | 5081          | 6.9           | 610    | 126031        | 3.4           | 740    | 9951          | 0.0           | 870    | 3609          | 0.0           | 1000   | 3241          | 0.0           |
| 485    | 5579          | 8.1           | 615    | 123059        | 2.3           | 745    | 8870          | 0.0           | 875    | 3208          | 0.0           |        |               |               |

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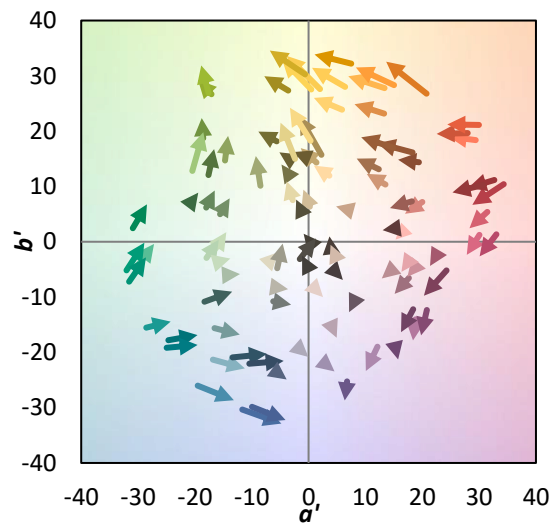
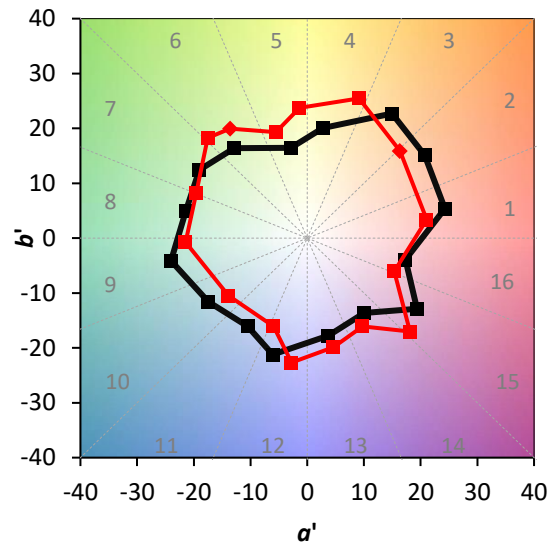
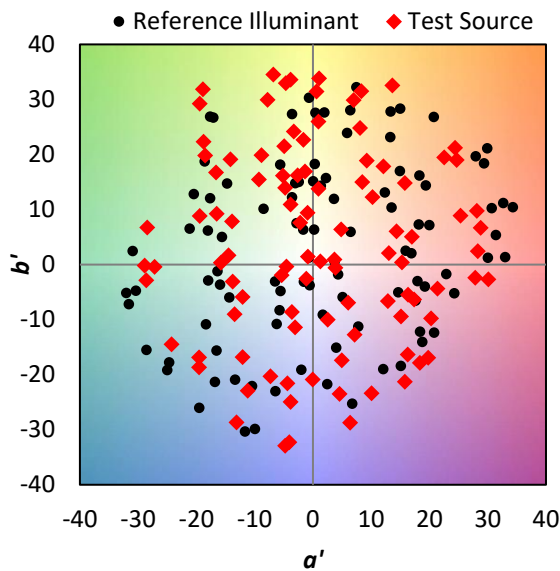
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**Summary**

$R_f = 69.9$   
 $R_g = 98.3$   
 CIE  $R_a = 71.5$   
 $R_g = -16.1$



**Color Vector Graphics**



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**Individual Sample Fidelity Index ( $R_{f,i}$ )**

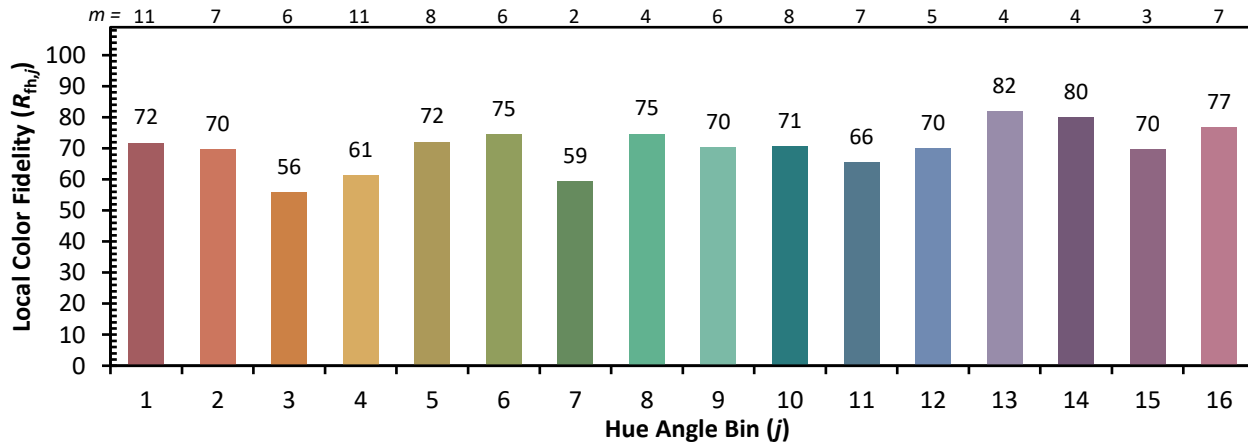
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|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 54 | CES51 = 77 | CES76 = 48 |
| CES02 = 63 | CES27 = 74 | CES52 = 80 | CES77 = 75 |
| CES03 = 31 | CES28 = 80 | CES53 = 66 | CES78 = 56 |
| CES04 = 71 | CES29 = 44 | CES54 = 77 | CES79 = 81 |
| CES05 = 50 | CES30 = 46 | CES55 = 74 | CES80 = 80 |
| CES06 = 52 | CES31 = 50 | CES56 = 63 | CES81 = 73 |
| CES07 = 42 | CES32 = 49 | CES57 = 60 | CES82 = 91 |
| CES08 = 41 | CES33 = 53 | CES58 = 63 | CES83 = 84 |
| CES09 = 29 | CES34 = 66 | CES59 = 85 | CES84 = 90 |
| CES10 = 77 | CES35 = 82 | CES60 = 89 | CES85 = 87 |
| CES11 = 60 | CES36 = 78 | CES61 = 85 | CES86 = 65 |
| CES12 = 66 | CES37 = 75 | CES62 = 69 | CES87 = 78 |
| CES13 = 43 | CES38 = 53 | CES63 = 68 | CES88 = 73 |
| CES14 = 74 | CES39 = 91 | CES64 = 68 | CES89 = 68 |
| CES15 = 71 | CES40 = 85 | CES65 = 65 | CES90 = 68 |
| CES16 = 48 | CES41 = 76 | CES66 = 62 | CES91 = 91 |
| CES17 = 50 | CES42 = 76 | CES67 = 60 | CES92 = 71 |
| CES18 = 57 | CES43 = 65 | CES68 = 68 | CES93 = 82 |
| CES19 = 73 | CES44 = 98 | CES69 = 77 | CES94 = 57 |
| CES20 = 67 | CES45 = 75 | CES70 = 60 | CES95 = 78 |
| CES21 = 88 | CES46 = 70 | CES71 = 57 | CES96 = 80 |
| CES22 = 80 | CES47 = 63 | CES72 = 86 | CES97 = 79 |
| CES23 = 92 | CES48 = 51 | CES73 = 52 | CES98 = 71 |
| CES24 = 91 | CES49 = 68 | CES74 = 90 | CES99 = 64 |
| CES25 = 73 | CES50 = 77 | CES75 = 58 |            |



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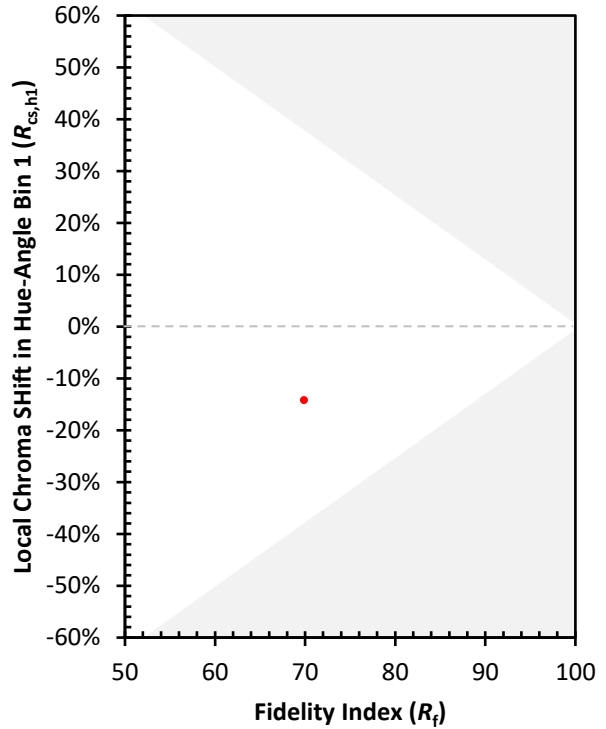
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)