

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: STREETWORKS

Report Number: P1065317

Luminaire Tested: **GLAN-SA2A-760-U-LBC**

Issue Date: 08/07/2025



**Test Information**

Test Method: LM-79-08  
Report Number: P1065317  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 08/07/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA2A-760-U-LBC  
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 2xLight Square PACKAGE  
70CRI 5700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL  
Light Source: (28) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

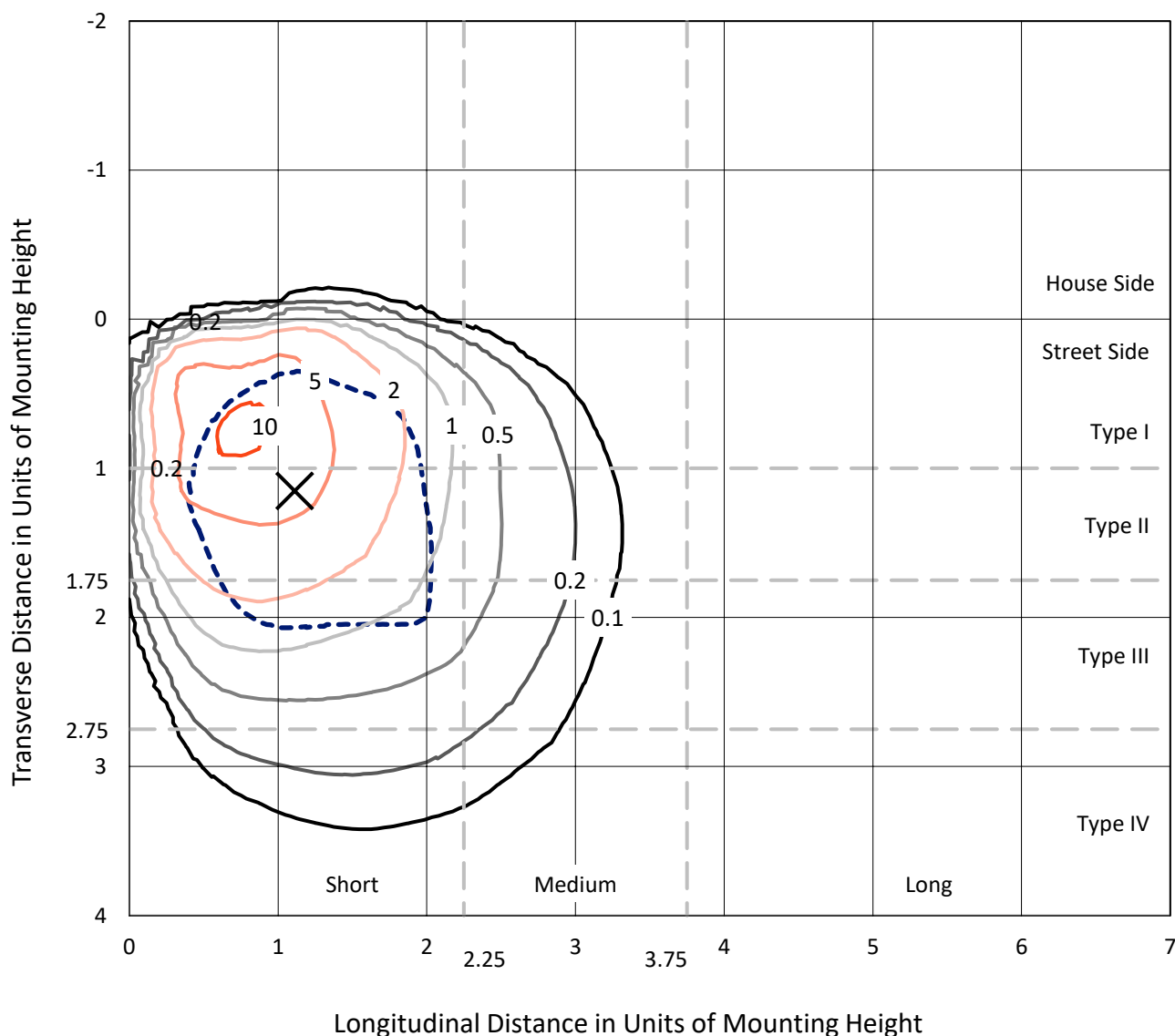
Lumens per Lamp: N/A  
Luminaire Lumens: 6704.1 lumens  
Efficiency: N/A  
Efficacy: 120.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G2

Input Watts (W): 55.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.97  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

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## Iso-Footcandle Lines of Horizontal Illumination

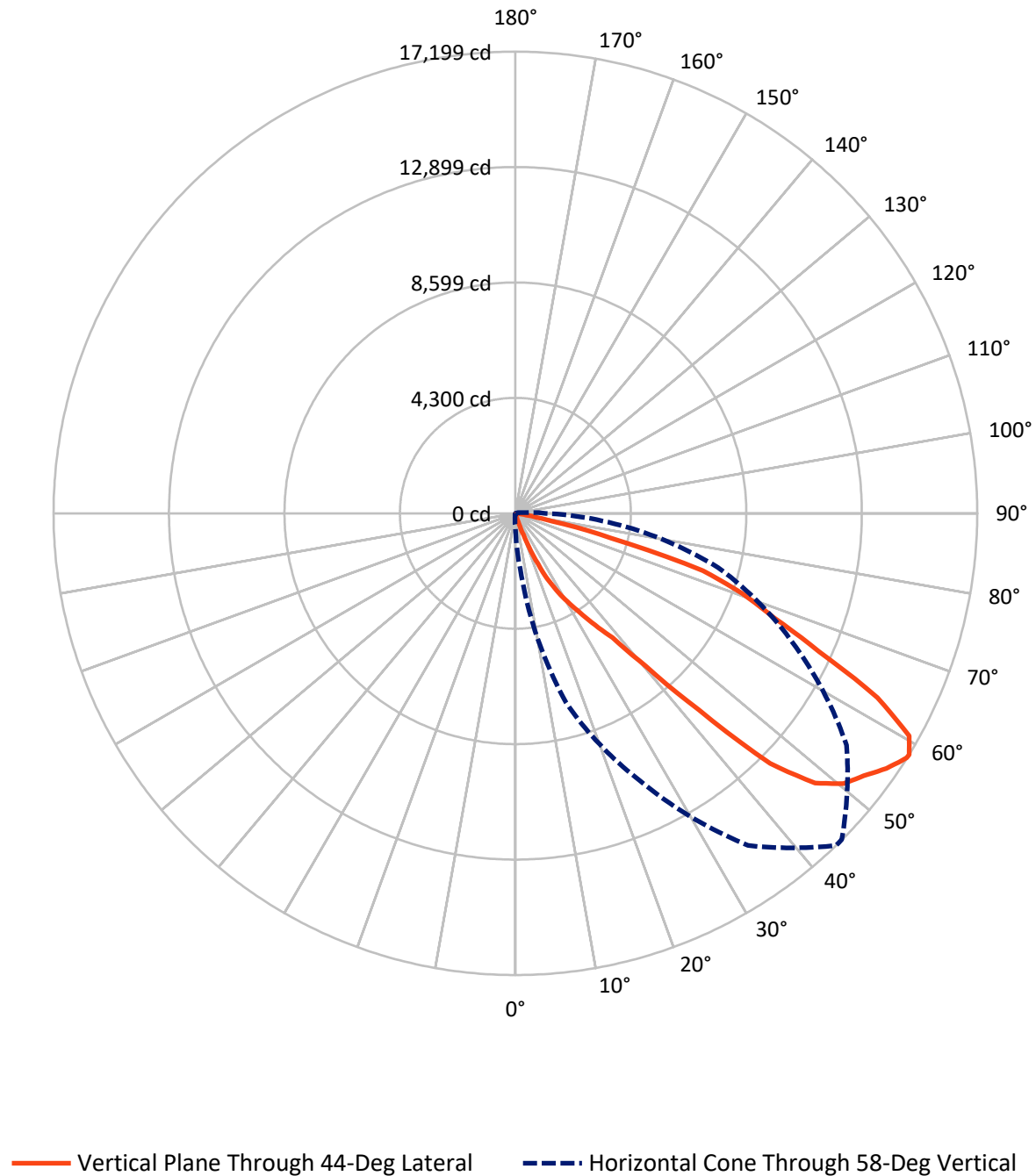
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.7 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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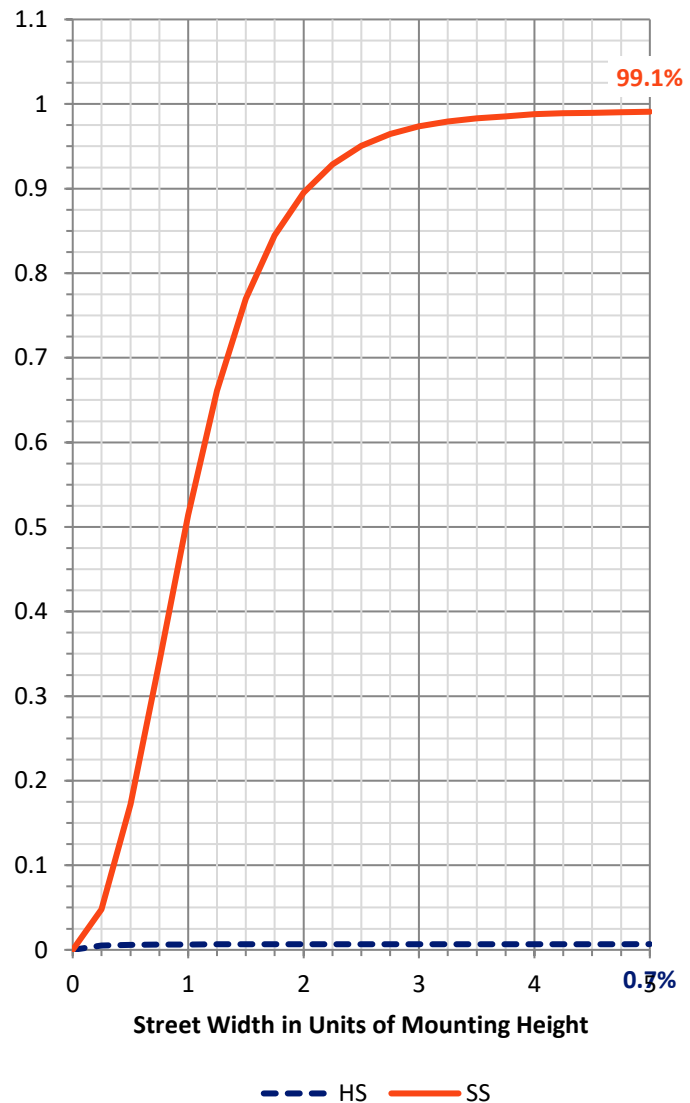
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 45.8     | 0.0    | 45.8   |
|                    | % Fixture | 0.7      | 0.0    | 0.7    |
| <b>Street Side</b> | Lumens    | 6658.4   | 0.0    | 6658.4 |
|                    | % Fixture | 99.3     | 0.0    | 99.3   |
| <b>Total</b>       | Lumens    | 6704.1   | 0.0    | 6704.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 2.6    | 0.0       |
| 10°-20°   | 14.7   | 0.2       |
| 20°-30°   | 158.8  | 2.4       |
| 30°-40°   | 469.7  | 7.0       |
| 40°-50°   | 1399.9 | 20.9      |
| 50°-60°   | 2221.4 | 33.1      |
| 60°-70°   | 1852.9 | 27.6      |
| 70°-80°   | 571.5  | 8.5       |
| 80°-90°   | 12.7   | 0.2       |
| 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°    | 6704.1 | 100.0     |
| 0°-180°   | 6704.1 | 100.0     |



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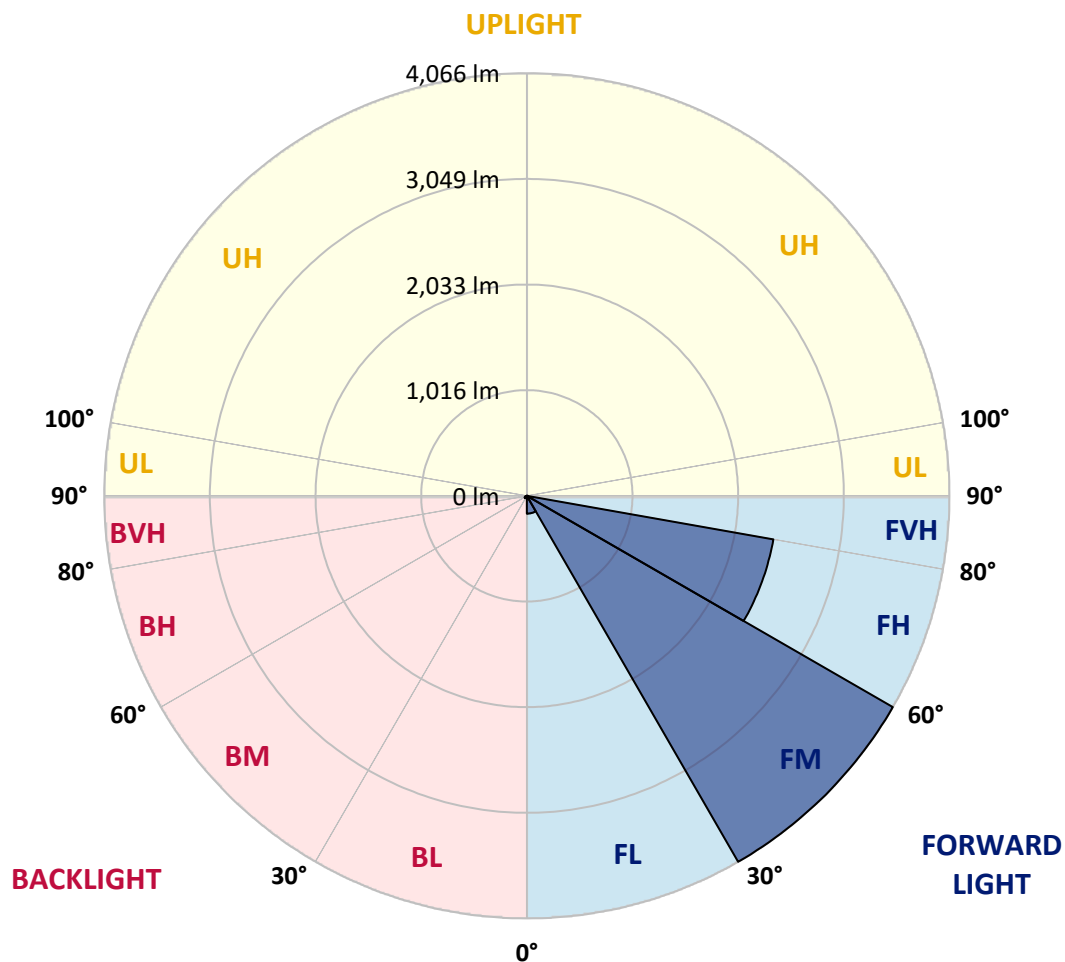
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 171.7  | 2.6       |                         |      |         |
| FM   | (30°-60°)   | 4065.9 | 60.6      |                         |      |         |
| FH   | (60°-80°)   | 2408.7 | 35.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 12.1   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 4.5    | 0.1       | B0/110                  |      |         |
| BM   | (30°-60°)   | 25.1   | 0.4       | B0/220                  |      |         |
| BH   | (60°-80°)   | 15.6   | 0.2       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.6    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G2**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°     | 15°    | 25°     | 35°     | 44°     | 45°     | 55°     | 65°     | 75°    | 85°    |
|-------|-------|--------|--------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0°    | 29.4  | 29.4   | 29.4   | 29.4    | 29.4    | 29.4    | 29.4    | 29.4    | 29.4    | 29.4   | 29.4   |
| 2.5°  | 38.0  | 38.0   | 36.5   | 34.4    | 32.4    | 30.4    | 29.9    | 28.9    | 28.4    | 27.9   | 27.3   |
| 5°    | 39.5  | 39.5   | 39.0   | 37.5    | 35.5    | 33.9    | 33.9    | 32.4    | 31.4    | 30.4   | 29.4   |
| 7.5°  | 40.5  | 41.0   | 42.0   | 41.5    | 40.5    | 39.0    | 39.0    | 38.0    | 36.5    | 33.9   | 32.4   |
| 10°   | 42.0  | 43.6   | 45.6   | 46.6    | 47.1    | 47.1    | 46.6    | 46.1    | 43.6    | 40.0   | 36.0   |
| 12.5° | 43.6  | 46.6   | 51.7   | 56.7    | 59.8    | 63.8    | 63.3    | 62.3    | 55.7    | 48.1   | 41.0   |
| 15°   | 46.6  | 51.2   | 61.8   | 76.5    | 99.3    | 113.4   | 119.0   | 113.9   | 92.2    | 64.8   | 47.6   |
| 17.5° | 50.1  | 57.7   | 89.6   | 160.0   | 262.3   | 311.0   | 340.3   | 316.5   | 209.7   | 123.1  | 59.8   |
| 20°   | 53.7  | 70.4   | 166.6  | 414.8   | 680.7   | 839.7   | 883.7   | 814.9   | 523.2   | 234.5  | 88.6   |
| 22.5° | 59.8  | 98.8   | 337.8  | 857.4   | 1466.7  | 1705.2  | 1750.3  | 1530.0  | 988.1   | 462.9  | 133.2  |
| 25°   | 72.4  | 143.3  | 582.4  | 1397.3  | 2188.8  | 2591.5  | 2572.7  | 2284.0  | 1602.9  | 739.4  | 202.6  |
| 27.5° | 90.7  | 208.7  | 880.7  | 1985.2  | 2880.6  | 3235.6  | 3278.2  | 2921.2  | 2136.7  | 1087.3 | 287.7  |
| 30°   | 117.0 | 289.2  | 1200.8 | 2456.2  | 3435.2  | 3819.1  | 3826.2  | 3457.0  | 2614.2  | 1392.7 | 392.0  |
| 32.5° | 142.3 | 365.1  | 1480.8 | 2911.5  | 3981.6  | 4402.5  | 4433.9  | 3979.6  | 2970.8  | 1710.8 | 482.6  |
| 35°   | 161.6 | 414.8  | 1764.4 | 3311.6  | 4532.6  | 5112.5  | 5110.5  | 4571.1  | 3393.2  | 1994.9 | 608.2  |
| 37.5° | 163.1 | 464.4  | 2021.2 | 3720.8  | 5230.5  | 5879.8  | 5944.1  | 5349.5  | 3903.6  | 2346.3 | 762.2  |
| 40°   | 159.5 | 520.1  | 2346.3 | 4358.9  | 6488.0  | 7484.2  | 7540.9  | 6791.4  | 4927.7  | 2948.0 | 1002.8 |
| 42.5° | 163.6 | 616.8  | 2874.1 | 5537.4  | 8576.1  | 10006.8 | 10116.2 | 9328.1  | 6810.1  | 4175.6 | 1431.7 |
| 45°   | 184.9 | 798.7  | 3979.6 | 7509.0  | 11552.4 | 13296.6 | 13260.1 | 12125.2 | 9000.5  | 6044.4 | 2280.5 |
| 47.5° | 255.2 | 1243.8 | 5618.5 | 9427.9  | 13454.6 | 15007.9 | 15039.3 | 13652.1 | 10278.7 | 7481.1 | 3423.5 |
| 50°   | 392.5 | 1903.2 | 6995.5 | 10442.3 | 14272.5 | 15830.8 | 15801.5 | 14198.6 | 10764.4 | 8188.6 | 4123.9 |
| 52.5° | 510.5 | 2380.3 | 7686.3 | 10798.3 | 14377.3 | 16237.5 | 16235.5 | 14342.4 | 10839.9 | 8249.4 | 4211.6 |
| 55°   | 539.9 | 2416.2 | 7691.8 | 10817.6 | 14612.3 | 16769.8 | 16836.6 | 14696.4 | 10937.6 | 7984.0 | 3881.9 |
| 57.5° | 528.2 | 2139.2 | 7370.7 | 10929.0 | 15030.7 | 17181.5 | 17185.1 | 15039.3 | 11185.8 | 7821.5 | 3335.9 |
| 58°   | 518.1 | 2095.7 | 7305.9 | 10992.3 | 15102.6 | 17198.7 | 17190.1 | 15055.0 | 11387.8 | 7815.4 | 3250.3 |
| 60°   | 461.4 | 1819.6 | 7053.2 | 11153.9 | 14995.7 | 16845.2 | 16764.7 | 14712.1 | 11357.9 | 7753.1 | 2819.4 |
| 62.5° | 362.6 | 1419.6 | 6804.5 | 10967.0 | 13850.1 | 15134.0 | 15167.4 | 13025.1 | 10354.2 | 7390.0 | 2311.4 |
| 65°   | 288.7 | 1058.0 | 6285.9 | 9619.8  | 11405.0 | 12428.1 | 12552.6 | 10591.7 | 8642.4  | 6257.6 | 1704.2 |
| 67.5° | 229.9 | 764.7  | 5273.1 | 7658.9  | 9024.8  | 10372.4 | 10463.1 | 8892.6  | 6695.7  | 4794.5 | 1210.9 |
| 70°   | 186.9 | 517.1  | 3639.8 | 5601.2  | 7443.7  | 8958.9  | 8964.5  | 7387.5  | 4997.6  | 3141.5 | 759.7  |
| 72.5° | 165.6 | 358.1  | 2112.9 | 4085.0  | 6035.8  | 7300.3  | 7153.0  | 5994.7  | 3840.8  | 1860.7 | 452.8  |
| 75°   | 143.3 | 237.5  | 1036.2 | 2497.3  | 3659.5  | 3684.4  | 3740.6  | 2780.9  | 1919.9  | 884.8  | 271.5  |
| 77.5° | 118.0 | 168.6  | 408.2  | 682.2   | 1097.5  | 1404.9  | 1457.0  | 1104.0  | 638.6   | 217.8  | 144.8  |
| 80°   | 81.0  | 80.0   | 109.9  | 209.2   | 314.0   | 393.5   | 367.2   | 284.1   | 167.1   | 83.6   | 51.7   |
| 82.5° | 34.9  | 38.0   | 49.6   | 59.8    | 48.6    | 47.1    | 45.1    | 28.9    | 22.3    | 17.2   | 10.6   |
| 85°   | 11.1  | 10.1   | 10.6   | 10.6    | 8.6     | 6.6     | 6.6     | 3.0     | 0.0     | 0.0    | 0.0    |
| 87.5° | 5.6   | 4.6    | 4.6    | 4.1     | 2.5     | 1.0     | 0.5     | 0.0     | 0.0     | 0.0    | 0.0    |
| 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):**

|       | 90°    | 95°   | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|-------|------|------|------|------|------|------|------|------|------|
| 0°    | 29.4   | 29.4  | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 |
| 2.5°  | 26.8   | 26.8  | 25.8 | 24.8 | 24.3 | 23.3 | 22.8 | 22.3 | 21.8 | 21.3 | 20.8 |
| 5°    | 28.4   | 27.9  | 26.3 | 24.8 | 23.3 | 21.8 | 20.8 | 19.8 | 18.7 | 18.2 | 17.7 |
| 7.5°  | 30.9   | 29.9  | 26.8 | 24.3 | 22.3 | 20.3 | 19.2 | 17.7 | 16.7 | 15.2 | 14.7 |
| 10°   | 33.9   | 31.9  | 27.9 | 24.8 | 21.8 | 19.2 | 17.7 | 16.2 | 14.7 | 12.7 | 12.2 |
| 12.5° | 38.0   | 34.4  | 29.4 | 24.3 | 20.8 | 17.7 | 16.2 | 14.2 | 12.7 | 11.1 | 10.1 |
| 15°   | 41.5   | 37.0  | 29.9 | 24.3 | 19.8 | 16.2 | 14.2 | 12.2 | 10.6 | 8.6  | 7.6  |
| 17.5° | 46.6   | 39.0  | 29.4 | 22.8 | 18.2 | 14.2 | 12.2 | 10.6 | 8.1  | 5.1  | 4.1  |
| 20°   | 55.2   | 40.5  | 28.4 | 21.3 | 15.7 | 11.6 | 9.1  | 7.1  | 3.5  | 1.0  | 0.0  |
| 22.5° | 68.9   | 44.6  | 27.3 | 19.2 | 13.7 | 9.1  | 6.1  | 2.5  | 0.0  | 0.0  | 0.0  |
| 25°   | 95.2   | 51.7  | 27.3 | 18.2 | 12.2 | 6.6  | 2.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 27.5° | 126.6  | 61.3  | 27.3 | 15.7 | 9.6  | 3.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 30°   | 158.5  | 71.9  | 27.3 | 13.7 | 7.6  | 0.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 32.5° | 188.9  | 81.0  | 27.9 | 11.6 | 5.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 35°   | 219.8  | 82.5  | 27.3 | 10.1 | 3.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 37.5° | 259.3  | 79.5  | 25.8 | 9.1  | 1.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 40°   | 319.1  | 81.0  | 24.3 | 8.6  | 0.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 42.5° | 429.5  | 87.6  | 22.3 | 8.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 45°   | 742.4  | 117.5 | 20.3 | 9.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 47.5° | 1228.1 | 211.2 | 19.8 | 9.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 50°   | 1567.4 | 265.9 | 20.8 | 9.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 52.5° | 1564.9 | 296.3 | 21.8 | 10.1 | 2.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 55°   | 1391.2 | 301.8 | 23.3 | 11.1 | 6.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 57.5° | 1162.8 | 275.5 | 26.8 | 13.7 | 12.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 58°   | 1122.3 | 263.3 | 27.9 | 14.2 | 13.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 60°   | 919.7  | 214.7 | 35.5 | 17.7 | 17.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 62.5° | 635.1  | 187.4 | 40.5 | 22.8 | 18.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 65°   | 449.2  | 169.2 | 44.1 | 24.3 | 14.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 67.5° | 335.8  | 156.0 | 48.6 | 24.8 | 7.6  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 70°   | 257.3  | 146.4 | 59.8 | 26.3 | 2.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 72.5° | 209.7  | 135.2 | 72.4 | 27.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 75°   | 173.7  | 122.1 | 69.9 | 29.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 77.5° | 115.5  | 94.7  | 63.8 | 29.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 80°   | 40.5   | 37.5  | 49.6 | 26.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 82.5° | 6.1    | 5.1   | 7.1  | 9.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 85°   | 0.0    | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 87.5° | 0.0    | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 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):**

|       | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 0°    | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 |
| 2.5°  | 20.8 | 20.8 | 20.3 | 20.8 | 20.8 | 21.8 | 24.3 | 27.9 | 31.9 | 33.4 | 34.9 |
| 5°    | 17.2 | 16.7 | 16.2 | 16.2 | 16.2 | 17.7 | 19.8 | 23.8 | 28.4 | 30.4 | 31.4 |
| 7.5°  | 14.2 | 13.7 | 13.2 | 12.7 | 12.7 | 13.7 | 16.2 | 20.8 | 25.3 | 27.3 | 28.9 |
| 10°   | 11.6 | 10.6 | 10.1 | 9.6  | 9.6  | 10.6 | 13.2 | 17.7 | 22.8 | 24.8 | 26.8 |
| 12.5° | 9.6  | 8.1  | 7.1  | 6.6  | 6.1  | 7.6  | 10.1 | 14.2 | 19.8 | 22.3 | 24.3 |
| 15°   | 6.6  | 5.1  | 3.5  | 3.0  | 2.5  | 4.1  | 6.6  | 11.1 | 16.7 | 19.8 | 21.8 |
| 17.5° | 3.5  | 1.5  | 0.5  | 0.0  | 0.0  | 1.0  | 3.0  | 8.1  | 13.7 | 16.2 | 18.7 |
| 20°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.1  | 10.1 | 12.7 | 15.2 |
| 22.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.5  | 6.1  | 8.6  | 11.1 |
| 25°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.5  | 4.6  | 6.6  |
| 27.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.0  | 3.0  |
| 30°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 32.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 35°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 37.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 40°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 42.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 45°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 47.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 50°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 52.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 55°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 57.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 58°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 60°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 62.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 65°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 67.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 70°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 72.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 75°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 77.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 80°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 82.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.5  |
| 85°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 1.5  | 3.0  |
| 87.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.0  | 4.1  | 5.6  |
| 90°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

REPORT NUMBER: P1065317

CATALOG NUMBER: GLAN-SA2A-760-U-LBC

**CANDELA DISTRIBUTION (continued):**

|       | 285° | 295° | 305° | 315° | 316° | 325° | 335° | 345° | 355°  | 360°  |
|-------|------|------|------|------|------|------|------|------|-------|-------|
| 0°    | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4  | 29.4  |
| 2.5°  | 36.0 | 35.5 | 34.4 | 33.4 | 33.4 | 33.4 | 34.9 | 36.5 | 38.0  | 38.0  |
| 5°    | 33.4 | 33.4 | 32.9 | 31.9 | 31.9 | 32.4 | 34.4 | 37.0 | 39.0  | 39.5  |
| 7.5°  | 30.9 | 31.9 | 30.9 | 30.4 | 30.9 | 31.4 | 33.4 | 36.5 | 39.5  | 40.5  |
| 10°   | 29.4 | 29.9 | 29.9 | 29.4 | 29.4 | 30.4 | 32.4 | 36.5 | 40.5  | 42.0  |
| 12.5° | 27.3 | 28.4 | 27.9 | 27.9 | 27.9 | 28.9 | 31.4 | 36.0 | 41.5  | 43.6  |
| 15°   | 25.3 | 26.8 | 26.8 | 26.3 | 26.3 | 26.8 | 30.4 | 35.5 | 43.0  | 46.6  |
| 17.5° | 23.3 | 24.8 | 25.3 | 24.3 | 24.3 | 25.3 | 28.9 | 35.5 | 44.1  | 50.1  |
| 20°   | 19.2 | 21.8 | 23.3 | 21.8 | 21.8 | 22.8 | 26.3 | 33.4 | 44.6  | 53.7  |
| 22.5° | 15.2 | 17.7 | 19.8 | 19.2 | 19.2 | 19.8 | 24.3 | 31.9 | 45.1  | 59.8  |
| 25°   | 11.1 | 13.7 | 15.2 | 16.2 | 16.2 | 17.7 | 22.3 | 30.9 | 47.1  | 72.4  |
| 27.5° | 6.6  | 9.6  | 11.6 | 12.7 | 13.2 | 15.2 | 20.8 | 29.9 | 50.6  | 90.7  |
| 30°   | 3.0  | 5.6  | 8.1  | 10.1 | 10.1 | 13.7 | 19.2 | 28.9 | 55.2  | 117.0 |
| 32.5° | 0.0  | 2.5  | 4.1  | 7.1  | 7.6  | 11.1 | 17.7 | 27.9 | 61.8  | 142.3 |
| 35°   | 0.0  | 0.0  | 2.0  | 5.6  | 5.6  | 9.1  | 16.2 | 26.8 | 71.9  | 161.6 |
| 37.5° | 0.0  | 0.0  | 0.0  | 4.1  | 4.6  | 8.1  | 15.7 | 26.3 | 73.9  | 163.1 |
| 40°   | 0.0  | 0.0  | 0.0  | 3.0  | 3.5  | 7.6  | 15.7 | 26.8 | 66.9  | 159.5 |
| 42.5° | 0.0  | 0.0  | 0.0  | 2.0  | 2.5  | 7.6  | 15.7 | 27.9 | 60.3  | 163.6 |
| 45°   | 0.0  | 0.0  | 0.0  | 1.5  | 2.0  | 8.1  | 15.2 | 27.3 | 56.7  | 184.9 |
| 47.5° | 0.0  | 0.0  | 0.0  | 2.0  | 3.0  | 8.1  | 14.7 | 26.8 | 57.2  | 255.2 |
| 50°   | 0.0  | 0.0  | 0.0  | 2.5  | 3.5  | 8.1  | 15.2 | 25.8 | 62.8  | 392.5 |
| 52.5° | 0.0  | 0.0  | 0.0  | 2.0  | 3.0  | 9.1  | 16.7 | 25.3 | 68.4  | 510.5 |
| 55°   | 0.0  | 0.0  | 0.0  | 0.5  | 1.5  | 11.6 | 18.2 | 25.3 | 77.0  | 539.9 |
| 57.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 13.2 | 20.8 | 26.8 | 91.2  | 528.2 |
| 58°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 13.2 | 21.3 | 26.8 | 92.2  | 518.1 |
| 60°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 13.2 | 23.3 | 29.9 | 99.3  | 461.4 |
| 62.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 11.1 | 27.9 | 37.5 | 103.3 | 362.6 |
| 65°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 9.1  | 32.9 | 41.0 | 106.4 | 288.7 |
| 67.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.6  | 33.9 | 41.5 | 107.9 | 229.9 |
| 70°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 9.1  | 33.4 | 44.6 | 112.9 | 186.9 |
| 72.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 10.1 | 30.4 | 49.1 | 112.9 | 165.6 |
| 75°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 10.6 | 28.4 | 55.2 | 102.8 | 143.3 |
| 77.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 10.1 | 27.9 | 64.3 | 91.7  | 118.0 |
| 80°   | 1.0  | 1.5  | 1.5  | 1.0  | 1.0  | 8.6  | 27.3 | 65.3 | 78.0  | 81.0  |
| 82.5° | 3.0  | 4.1  | 3.5  | 2.5  | 2.5  | 7.6  | 24.3 | 54.7 | 40.5  | 34.9  |
| 85°   | 5.6  | 6.6  | 6.6  | 5.6  | 5.6  | 7.1  | 15.2 | 19.8 | 13.7  | 11.1  |
| 87.5° | 7.6  | 8.6  | 8.6  | 7.6  | 7.6  | 7.1  | 6.6  | 6.1  | 5.6   | 5.6   |
| 90°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   |

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-7

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-757-U-5WQ

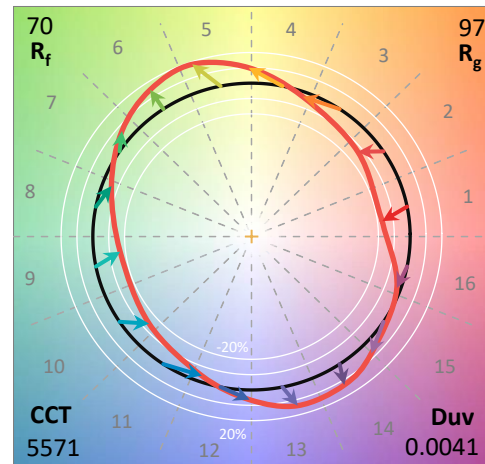
Data in this report applies to families of products including GSS-SB1A-757-U-5WQ

### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2407-184-7  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry:  $4\pi$   
 Issue Date: 10/15/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: McGraw-Edison  
 Catalog Number: **GSS-SB1A-757-U-5WQ**  
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI  
 5700K CCT 26 LEDS

### Spectral Parameters

|                           |          |           |      |      |       |
|---------------------------|----------|-----------|------|------|-------|
| CCT (K):                  | 5571     | CRI (Ra): | 69.9 |      |       |
| CIE u':                   | 0.2033   | R1:       | 68.8 | R9:  | -35.4 |
| CIE v':                   | 0.4806   | R2:       | 72.5 | R10: | 36.7  |
| Duv:                      | 0.0041   | R3:       | 76.8 | R11: | 73.9  |
| CIE x:                    | 0.3308   | R4:       | 72.0 | R12: | 47.8  |
| CIE y:                    | 0.3476   | R5:       | 70.9 | R13: | 68.0  |
| CIE z:                    | 0.3216   | R6:       | 65.6 | R14: | 87.0  |
| Peak Wavelength (nm):     | 442      | R7:       | 75.5 | R15: | 59.8  |
| Dominant Wavelength (nm): | 544      | R8:       | 56.8 |      |       |
| Purity:                   | 3.635698 |           |      |      |       |
| Rf:                       | 70.4     |           |      |      |       |
| Rg:                       | 97.1     |           |      |      |       |



### Test Conditions

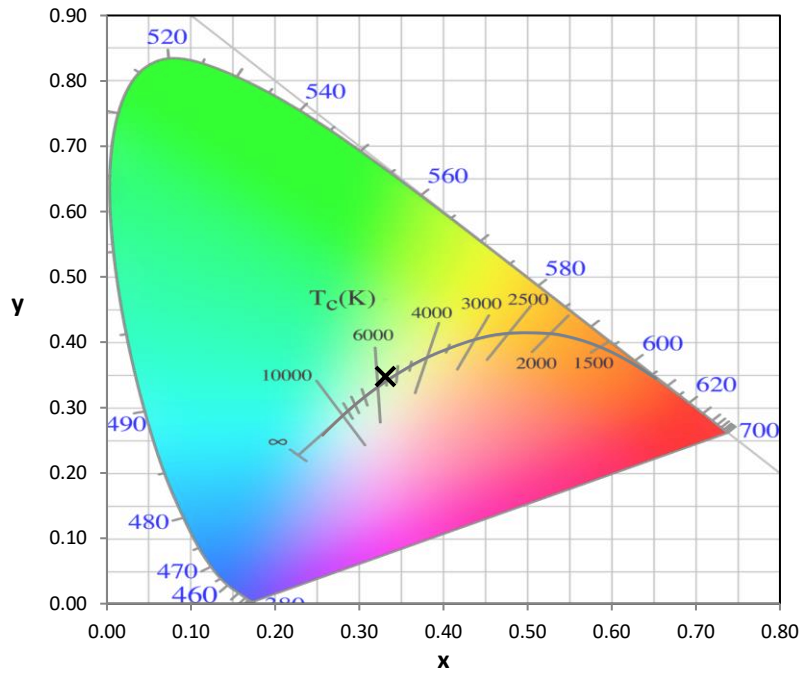
Stabilization Time: 20M  
 Operation Time: 1H 20M  
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-7

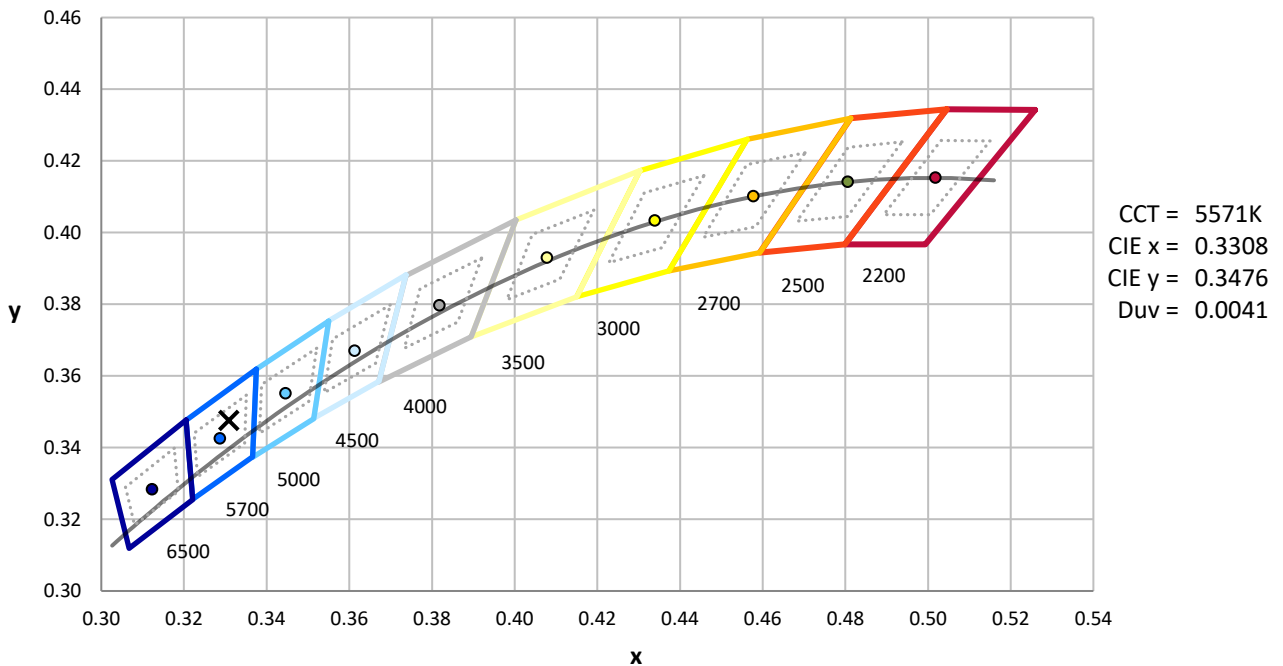
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| Photometer                     | IN0058                | 6/18/2024        | 12/18/2024           |
| Power Meter                    | INXT2011004           | 2/8/2024         | 2/8/2025             |
| AC Power Source                | IN0063                | 10/24/2023       | 10/24/2024           |
| DC Power Source                | IN0208                | 10/24/2023       | 10/24/2024           |
| Sphere Thermometer             | IN0085                | 10/24/2023       | 10/24/2024           |
| Room Thermometer               | IN0046                | 10/24/2023       | 10/24/2024           |

REPORT NUMBER: SP1-2407-184-7

**CIE 1931 Chromaticity Diagram**



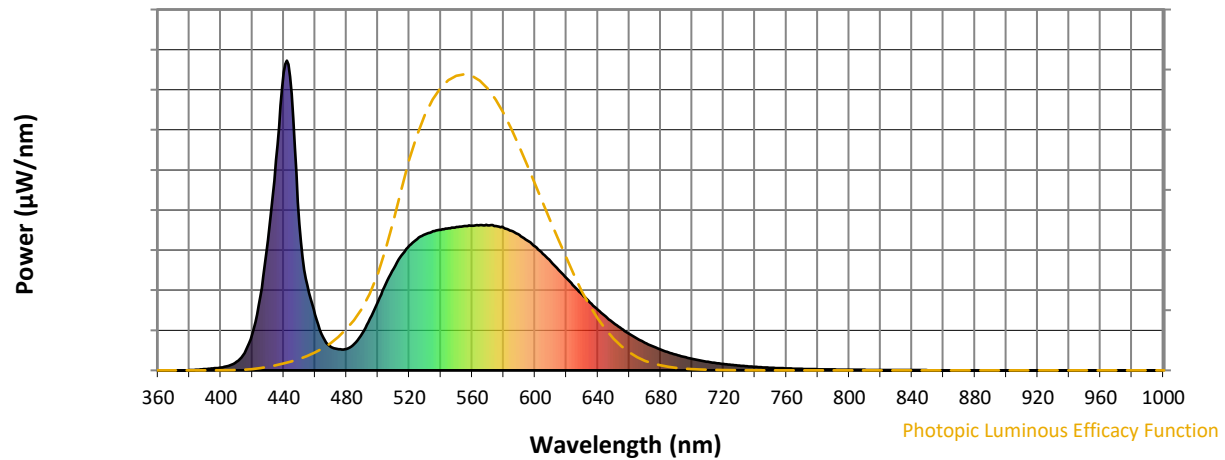
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 5700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-7

### Photopic Flux vs. Wavelength

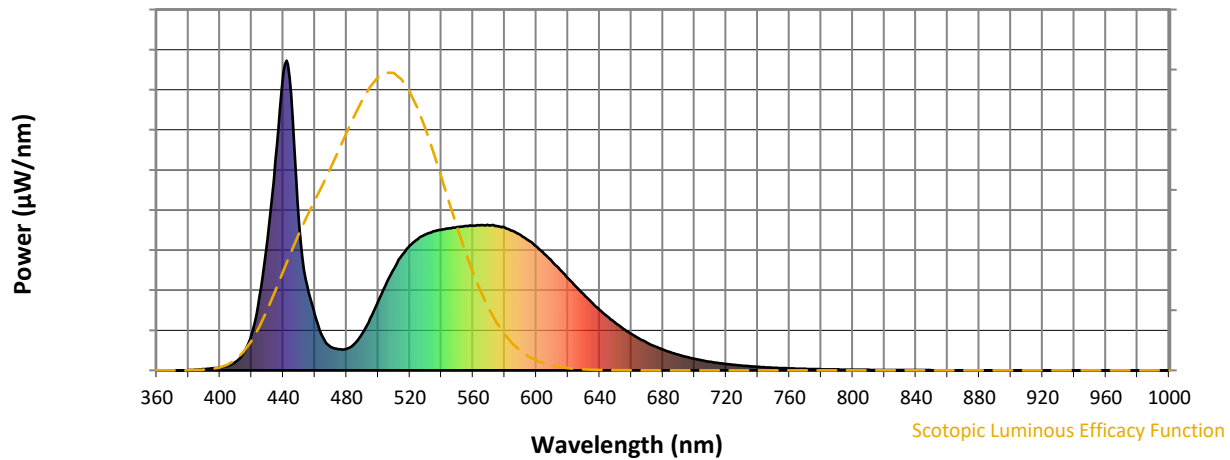


### Photopic Lumens: NR

| λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) |
|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|
| 360       | 0                           | NR               | 490       | 120                         | NR               | 620       | 298                         | NR               | 750       | 9                           | NR               | 880       | 0                           | NR               |
| 365       | 0                           | NR               | 495       | 167                         | NR               | 625       | 270                         | NR               | 755       | 7                           | NR               | 885       | 0                           | NR               |
| 370       | 0                           | NR               | 500       | 222                         | NR               | 630       | 245                         | NR               | 760       | 6                           | NR               | 890       | 0                           | NR               |
| 375       | 0                           | NR               | 505       | 279                         | NR               | 635       | 219                         | NR               | 765       | 6                           | NR               | 895       | 0                           | NR               |
| 380       | 1                           | NR               | 510       | 329                         | NR               | 640       | 196                         | NR               | 770       | 5                           | NR               | 900       | 0                           | NR               |
| 385       | 2                           | NR               | 515       | 371                         | NR               | 645       | 173                         | NR               | 775       | 4                           | NR               | 905       | 0                           | NR               |
| 390       | 4                           | NR               | 520       | 403                         | NR               | 650       | 153                         | NR               | 780       | 4                           | NR               | 910       | 0                           | NR               |
| 395       | 6                           | NR               | 525       | 424                         | NR               | 655       | 135                         | NR               | 785       | 3                           | NR               | 915       | 0                           | NR               |
| 400       | 9                           | NR               | 530       | 439                         | NR               | 660       | 117                         | NR               | 790       | 3                           | NR               | 920       | 0                           | NR               |
| 405       | 14                          | NR               | 535       | 449                         | NR               | 665       | 103                         | NR               | 795       | 2                           | NR               | 925       | 0                           | NR               |
| 410       | 28                          | NR               | 540       | 454                         | NR               | 670       | 89                          | NR               | 800       | 2                           | NR               | 930       | 0                           | NR               |
| 415       | 55                          | NR               | 545       | 459                         | NR               | 675       | 77                          | NR               | 805       | 2                           | NR               | 935       | 0                           | NR               |
| 420       | 118                         | NR               | 550       | 463                         | NR               | 680       | 67                          | NR               | 810       | 2                           | NR               | 940       | 0                           | NR               |
| 425       | 237                         | NR               | 555       | 466                         | NR               | 685       | 58                          | NR               | 815       | 1                           | NR               | 945       | 0                           | NR               |
| 430       | 420                         | NR               | 560       | 467                         | NR               | 690       | 50                          | NR               | 820       | 1                           | NR               | 950       | 0                           | NR               |
| 435       | 677                         | NR               | 565       | 469                         | NR               | 695       | 43                          | NR               | 825       | 1                           | NR               | 955       | 0                           | NR               |
| 440       | 962                         | NR               | 570       | 469                         | NR               | 700       | 37                          | NR               | 830       | 1                           | NR               | 960       | 0                           | NR               |
| 445       | 894                         | NR               | 575       | 466                         | NR               | 705       | 32                          | NR               | 835       | 1                           | NR               | 965       | 0                           | NR               |
| 450       | 472                         | NR               | 580       | 461                         | NR               | 710       | 28                          | NR               | 840       | 1                           | NR               | 970       | 0                           | NR               |
| 455       | 275                         | NR               | 585       | 450                         | NR               | 715       | 24                          | NR               | 845       | 1                           | NR               | 975       | 0                           | NR               |
| 460       | 180                         | NR               | 590       | 437                         | NR               | 720       | 21                          | NR               | 850       | 1                           | NR               | 980       | 0                           | NR               |
| 465       | 107                         | NR               | 595       | 420                         | NR               | 725       | 18                          | NR               | 855       | 0                           | NR               | 985       | 0                           | NR               |
| 470       | 76                          | NR               | 600       | 400                         | NR               | 730       | 15                          | NR               | 860       | 0                           | NR               | 990       | 0                           | NR               |
| 475       | 68                          | NR               | 605       | 376                         | NR               | 735       | 13                          | NR               | 865       | 0                           | NR               | 995       | 0                           | NR               |
| 480       | 69                          | NR               | 610       | 352                         | NR               | 740       | 11                          | NR               | 870       | 0                           | NR               | 1000      | 0                           | NR               |
| 485       | 86                          | NR               | 615       | 325                         | NR               | 745       | 10                          | NR               | 875       | 0                           | NR               |           |                             |                  |

REPORT NUMBER: SP1-2407-184-7

### Scotopic Flux vs. Wavelength



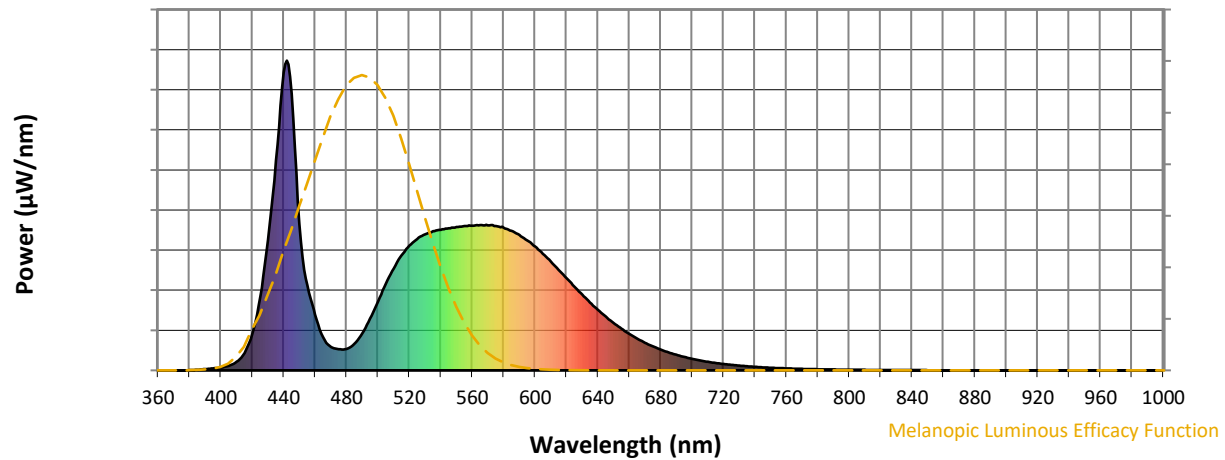
Scotopic Lumens: NR

S/P: 1.84

| λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(Φ/nm) |
|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|
| 360       | 0                           | NR               | 490       | 120                         | NR               | 620       | 298                         | NR               | 750       | 9                           | NR               | 880       | 0                           | NR               |
| 365       | 0                           | NR               | 495       | 167                         | NR               | 625       | 270                         | NR               | 755       | 7                           | NR               | 885       | 0                           | NR               |
| 370       | 0                           | NR               | 500       | 222                         | NR               | 630       | 245                         | NR               | 760       | 6                           | NR               | 890       | 0                           | NR               |
| 375       | 0                           | NR               | 505       | 279                         | NR               | 635       | 219                         | NR               | 765       | 6                           | NR               | 895       | 0                           | NR               |
| 380       | 1                           | NR               | 510       | 329                         | NR               | 640       | 196                         | NR               | 770       | 5                           | NR               | 900       | 0                           | NR               |
| 385       | 2                           | NR               | 515       | 371                         | NR               | 645       | 173                         | NR               | 775       | 4                           | NR               | 905       | 0                           | NR               |
| 390       | 4                           | NR               | 520       | 403                         | NR               | 650       | 153                         | NR               | 780       | 4                           | NR               | 910       | 0                           | NR               |
| 395       | 6                           | NR               | 525       | 424                         | NR               | 655       | 135                         | NR               | 785       | 3                           | NR               | 915       | 0                           | NR               |
| 400       | 9                           | NR               | 530       | 439                         | NR               | 660       | 117                         | NR               | 790       | 3                           | NR               | 920       | 0                           | NR               |
| 405       | 14                          | NR               | 535       | 449                         | NR               | 665       | 103                         | NR               | 795       | 2                           | NR               | 925       | 0                           | NR               |
| 410       | 28                          | NR               | 540       | 454                         | NR               | 670       | 89                          | NR               | 800       | 2                           | NR               | 930       | 0                           | NR               |
| 415       | 55                          | NR               | 545       | 459                         | NR               | 675       | 77                          | NR               | 805       | 2                           | NR               | 935       | 0                           | NR               |
| 420       | 118                         | NR               | 550       | 463                         | NR               | 680       | 67                          | NR               | 810       | 2                           | NR               | 940       | 0                           | NR               |
| 425       | 237                         | NR               | 555       | 466                         | NR               | 685       | 58                          | NR               | 815       | 1                           | NR               | 945       | 0                           | NR               |
| 430       | 420                         | NR               | 560       | 467                         | NR               | 690       | 50                          | NR               | 820       | 1                           | NR               | 950       | 0                           | NR               |
| 435       | 677                         | NR               | 565       | 469                         | NR               | 695       | 43                          | NR               | 825       | 1                           | NR               | 955       | 0                           | NR               |
| 440       | 962                         | NR               | 570       | 469                         | NR               | 700       | 37                          | NR               | 830       | 1                           | NR               | 960       | 0                           | NR               |
| 445       | 894                         | NR               | 575       | 466                         | NR               | 705       | 32                          | NR               | 835       | 1                           | NR               | 965       | 0                           | NR               |
| 450       | 472                         | NR               | 580       | 461                         | NR               | 710       | 28                          | NR               | 840       | 1                           | NR               | 970       | 0                           | NR               |
| 455       | 275                         | NR               | 585       | 450                         | NR               | 715       | 24                          | NR               | 845       | 1                           | NR               | 975       | 0                           | NR               |
| 460       | 180                         | NR               | 590       | 437                         | NR               | 720       | 21                          | NR               | 850       | 1                           | NR               | 980       | 0                           | NR               |
| 465       | 107                         | NR               | 595       | 420                         | NR               | 725       | 18                          | NR               | 855       | 0                           | NR               | 985       | 0                           | NR               |
| 470       | 76                          | NR               | 600       | 400                         | NR               | 730       | 15                          | NR               | 860       | 0                           | NR               | 990       | 0                           | NR               |
| 475       | 68                          | NR               | 605       | 376                         | NR               | 735       | 13                          | NR               | 865       | 0                           | NR               | 995       | 0                           | NR               |
| 480       | 69                          | NR               | 610       | 352                         | NR               | 740       | 11                          | NR               | 870       | 0                           | NR               | 1000      | 0                           | NR               |
| 485       | 86                          | NR               | 615       | 325                         | NR               | 745       | 10                          | NR               | 875       | 0                           | NR               |           |                             |                  |

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### Melanopic Flux vs. Wavelength


**Melanopic Lumens: NR**
**M/P: 3.71**

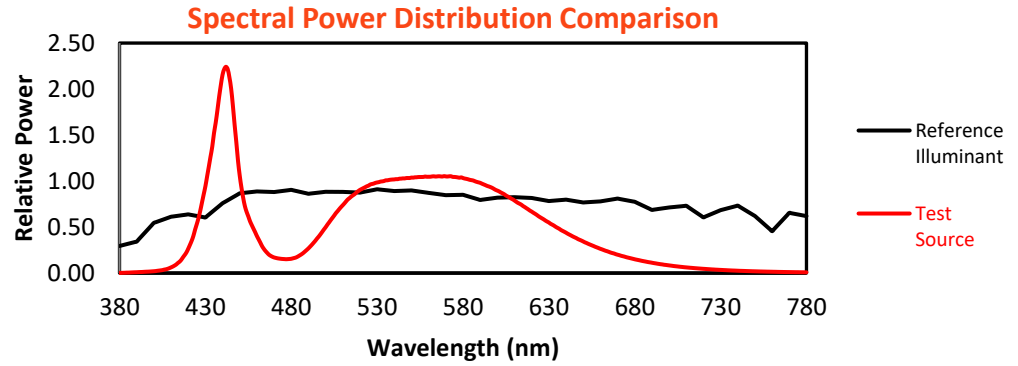
| $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) |
|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|
| 360               | 0                                    | NR                             | 490               | 120                                  | NR                             | 620               | 298                                  | NR                             | 750               | 9                                    | NR                             | 880               | 0                                    | NR                             |
| 365               | 0                                    | NR                             | 495               | 167                                  | NR                             | 625               | 270                                  | NR                             | 755               | 7                                    | NR                             | 885               | 0                                    | NR                             |
| 370               | 0                                    | NR                             | 500               | 222                                  | NR                             | 630               | 245                                  | NR                             | 760               | 6                                    | NR                             | 890               | 0                                    | NR                             |
| 375               | 0                                    | NR                             | 505               | 279                                  | NR                             | 635               | 219                                  | NR                             | 765               | 6                                    | NR                             | 895               | 0                                    | NR                             |
| 380               | 1                                    | NR                             | 510               | 329                                  | NR                             | 640               | 196                                  | NR                             | 770               | 5                                    | NR                             | 900               | 0                                    | NR                             |
| 385               | 2                                    | NR                             | 515               | 371                                  | NR                             | 645               | 173                                  | NR                             | 775               | 4                                    | NR                             | 905               | 0                                    | NR                             |
| 390               | 4                                    | NR                             | 520               | 403                                  | NR                             | 650               | 153                                  | NR                             | 780               | 4                                    | NR                             | 910               | 0                                    | NR                             |
| 395               | 6                                    | NR                             | 525               | 424                                  | NR                             | 655               | 135                                  | NR                             | 785               | 3                                    | NR                             | 915               | 0                                    | NR                             |
| 400               | 9                                    | NR                             | 530               | 439                                  | NR                             | 660               | 117                                  | NR                             | 790               | 3                                    | NR                             | 920               | 0                                    | NR                             |
| 405               | 14                                   | NR                             | 535               | 449                                  | NR                             | 665               | 103                                  | NR                             | 795               | 2                                    | NR                             | 925               | 0                                    | NR                             |
| 410               | 28                                   | NR                             | 540               | 454                                  | NR                             | 670               | 89                                   | NR                             | 800               | 2                                    | NR                             | 930               | 0                                    | NR                             |
| 415               | 55                                   | NR                             | 545               | 459                                  | NR                             | 675               | 77                                   | NR                             | 805               | 2                                    | NR                             | 935               | 0                                    | NR                             |
| 420               | 118                                  | NR                             | 550               | 463                                  | NR                             | 680               | 67                                   | NR                             | 810               | 2                                    | NR                             | 940               | 0                                    | NR                             |
| 425               | 237                                  | NR                             | 555               | 466                                  | NR                             | 685               | 58                                   | NR                             | 815               | 1                                    | NR                             | 945               | 0                                    | NR                             |
| 430               | 420                                  | NR                             | 560               | 467                                  | NR                             | 690               | 50                                   | NR                             | 820               | 1                                    | NR                             | 950               | 0                                    | NR                             |
| 435               | 677                                  | NR                             | 565               | 469                                  | NR                             | 695               | 43                                   | NR                             | 825               | 1                                    | NR                             | 955               | 0                                    | NR                             |
| 440               | 962                                  | NR                             | 570               | 469                                  | NR                             | 700               | 37                                   | NR                             | 830               | 1                                    | NR                             | 960               | 0                                    | NR                             |
| 445               | 894                                  | NR                             | 575               | 466                                  | NR                             | 705               | 32                                   | NR                             | 835               | 1                                    | NR                             | 965               | 0                                    | NR                             |
| 450               | 472                                  | NR                             | 580               | 461                                  | NR                             | 710               | 28                                   | NR                             | 840               | 1                                    | NR                             | 970               | 0                                    | NR                             |
| 455               | 275                                  | NR                             | 585               | 450                                  | NR                             | 715               | 24                                   | NR                             | 845               | 1                                    | NR                             | 975               | 0                                    | NR                             |
| 460               | 180                                  | NR                             | 590               | 437                                  | NR                             | 720               | 21                                   | NR                             | 850               | 1                                    | NR                             | 980               | 0                                    | NR                             |
| 465               | 107                                  | NR                             | 595               | 420                                  | NR                             | 725               | 18                                   | NR                             | 855               | 0                                    | NR                             | 985               | 0                                    | NR                             |
| 470               | 76                                   | NR                             | 600               | 400                                  | NR                             | 730               | 15                                   | NR                             | 860               | 0                                    | NR                             | 990               | 0                                    | NR                             |
| 475               | 68                                   | NR                             | 605               | 376                                  | NR                             | 735               | 13                                   | NR                             | 865               | 0                                    | NR                             | 995               | 0                                    | NR                             |
| 480               | 69                                   | NR                             | 610               | 352                                  | NR                             | 740               | 11                                   | NR                             | 870               | 0                                    | NR                             | 1000              | 0                                    | NR                             |
| 485               | 86                                   | NR                             | 615               | 325                                  | NR                             | 745               | 10                                   | NR                             | 875               | 0                                    | NR                             |                   |                                      |                                |

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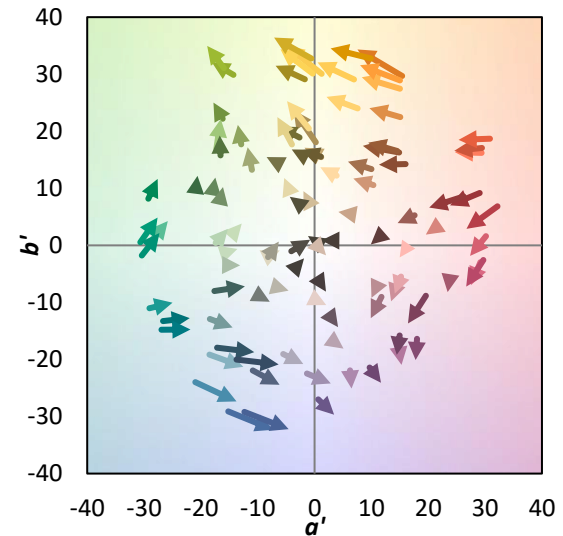
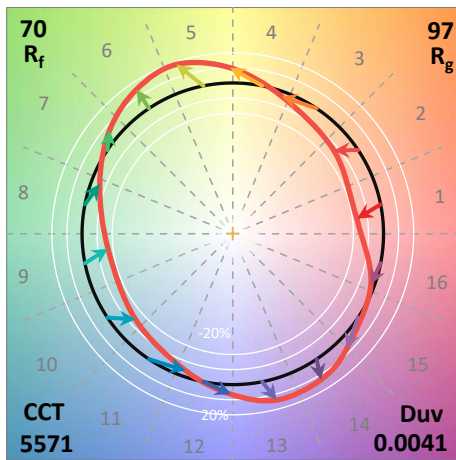
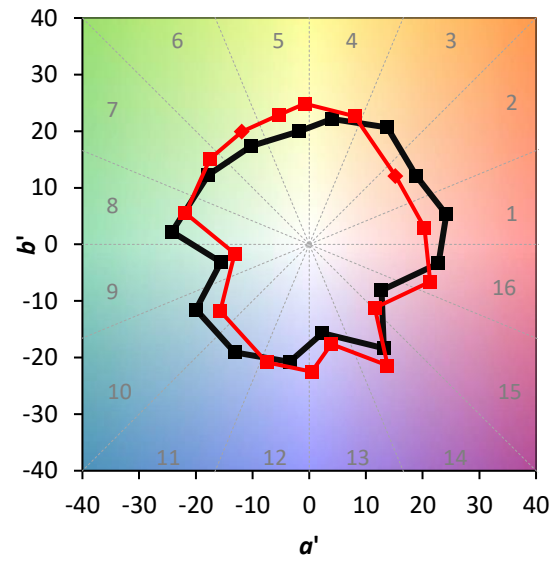
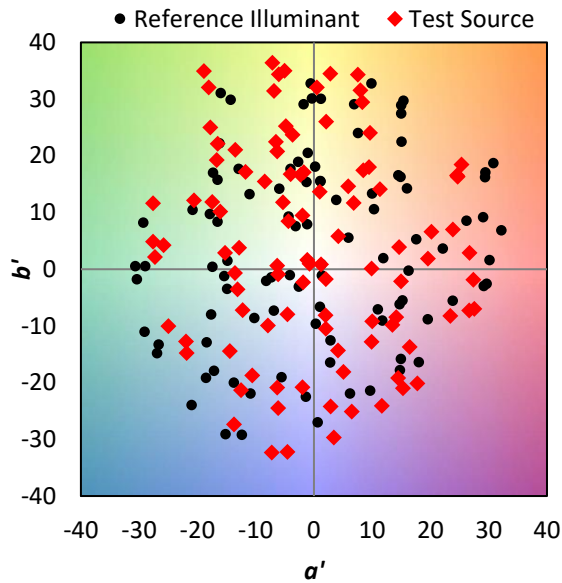
TM-30-18

### Summary

$R_f = 70.4$   
 $R_g = 97.1$   
 $CIE R_a = 69.9$   
 $R_g = -35.4$

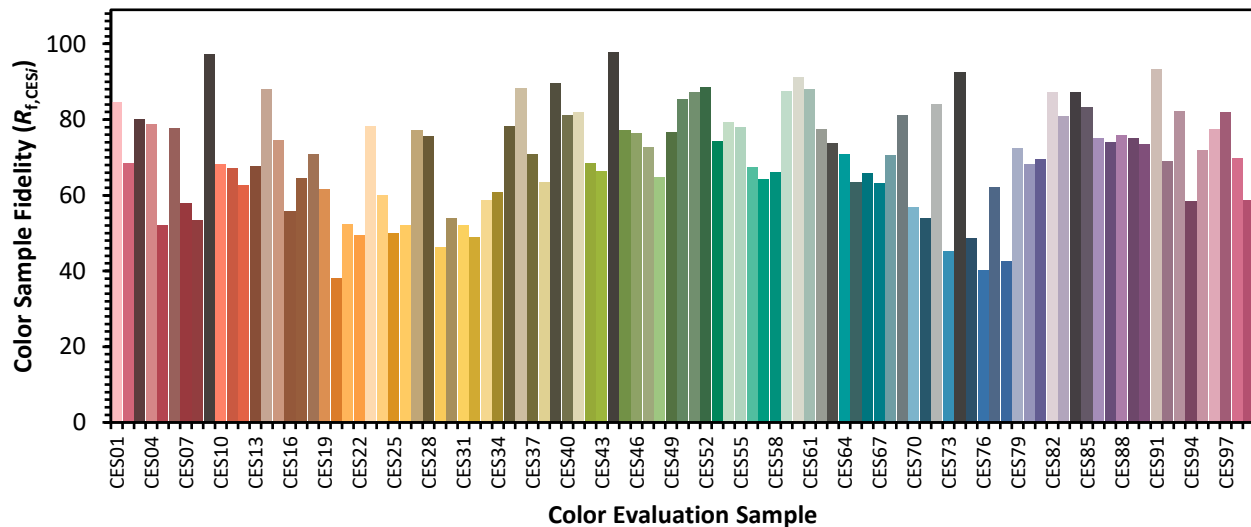


### Color Vector Graphics

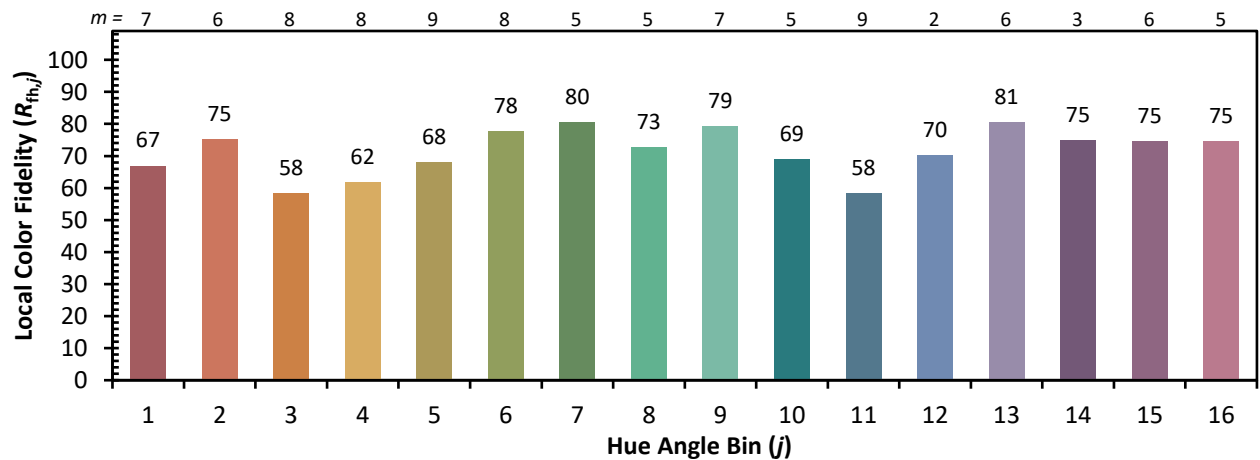
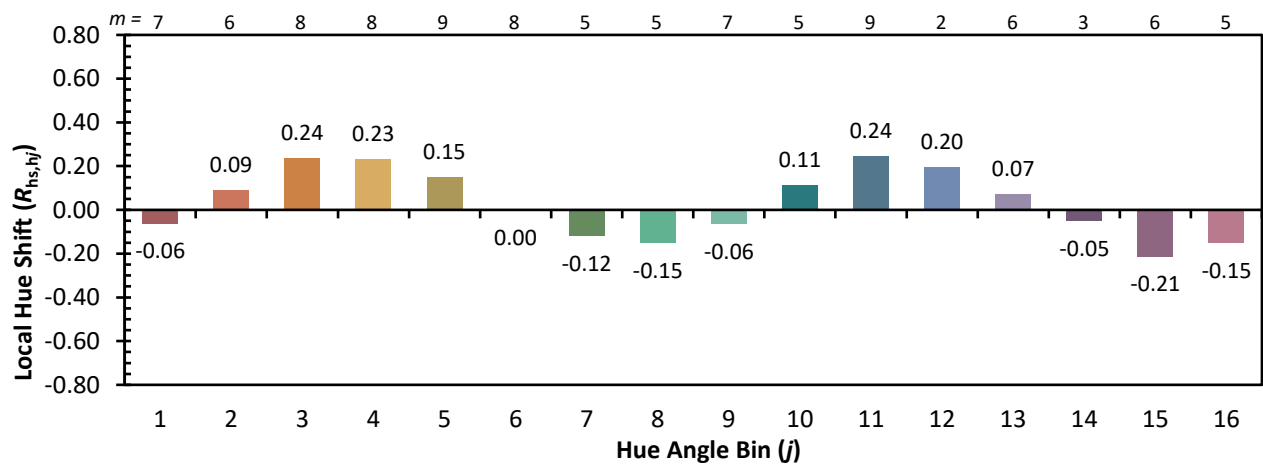
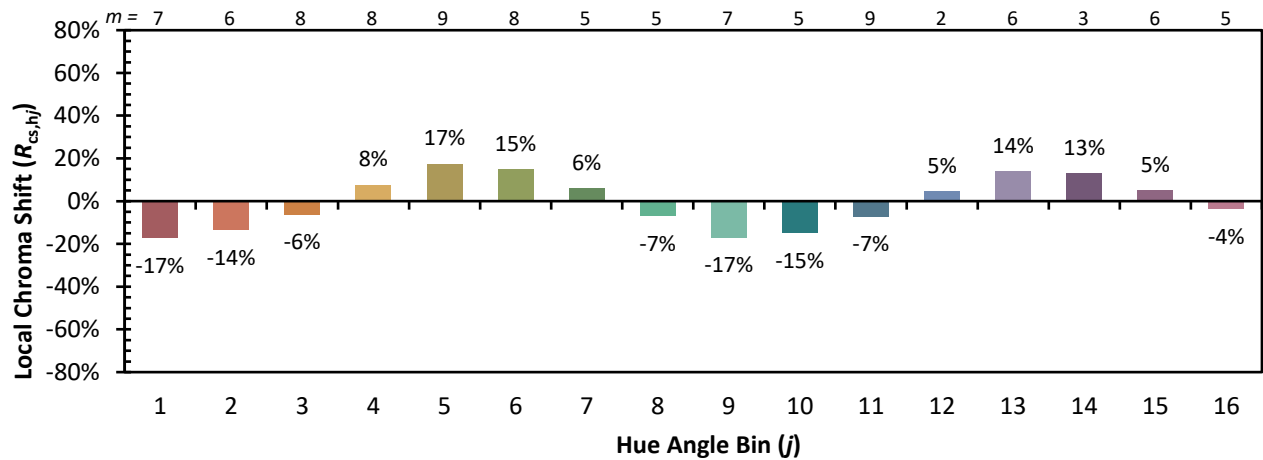


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

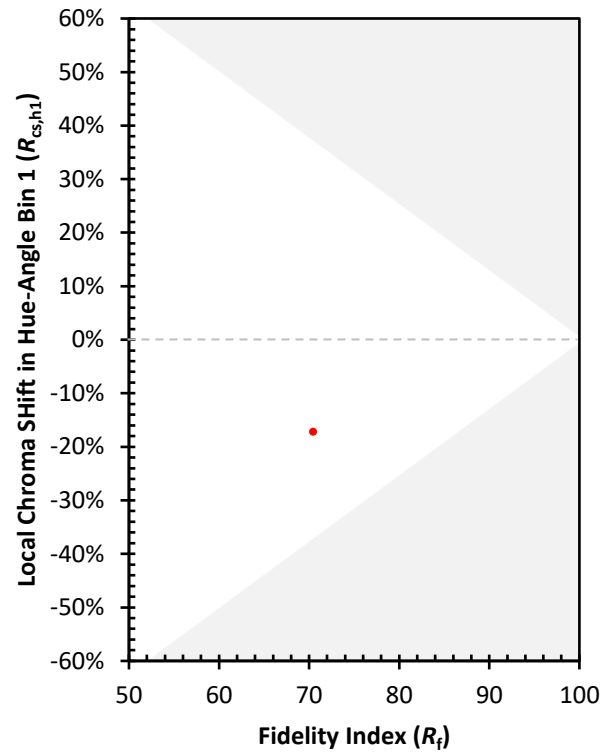
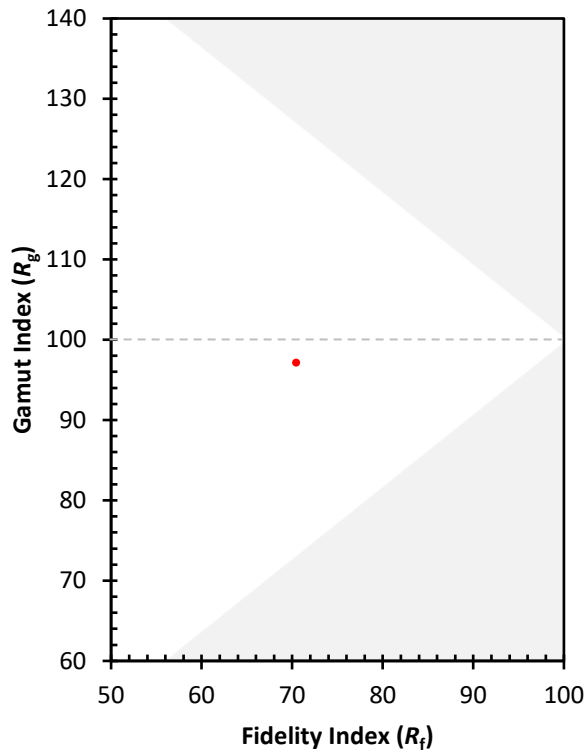
|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 52 | CES51 = 87 | CES76 = 40 |
| CES02 = 59 | CES27 = 77 | CES52 = 88 | CES77 = 62 |
| CES03 = 30 | CES28 = 76 | CES53 = 74 | CES78 = 43 |
| CES04 = 68 | CES29 = 46 | CES54 = 79 | CES79 = 72 |
| CES05 = 45 | CES30 = 54 | CES55 = 78 | CES80 = 68 |
| CES06 = 49 | CES31 = 52 | CES56 = 67 | CES81 = 70 |
| CES07 = 38 | CES32 = 49 | CES57 = 64 | CES82 = 87 |
| CES08 = 37 | CES33 = 59 | CES58 = 66 | CES83 = 81 |
| CES09 = 29 | CES34 = 61 | CES59 = 87 | CES84 = 87 |
| CES10 = 72 | CES35 = 78 | CES60 = 91 | CES85 = 83 |
| CES11 = 55 | CES36 = 88 | CES61 = 88 | CES86 = 75 |
| CES12 = 61 | CES37 = 71 | CES62 = 77 | CES87 = 74 |
| CES13 = 41 | CES38 = 64 | CES63 = 74 | CES88 = 76 |
| CES14 = 74 | CES39 = 90 | CES64 = 71 | CES89 = 75 |
| CES15 = 70 | CES40 = 81 | CES65 = 63 | CES90 = 73 |
| CES16 = 46 | CES41 = 82 | CES66 = 66 | CES91 = 93 |
| CES17 = 48 | CES42 = 69 | CES67 = 63 | CES92 = 69 |
| CES18 = 55 | CES43 = 67 | CES68 = 71 | CES93 = 82 |
| CES19 = 70 | CES44 = 98 | CES69 = 81 | CES94 = 58 |
| CES20 = 63 | CES45 = 77 | CES70 = 57 | CES95 = 72 |
| CES21 = 85 | CES46 = 76 | CES71 = 54 | CES96 = 78 |
| CES22 = 77 | CES47 = 73 | CES72 = 84 | CES97 = 82 |
| CES23 = 91 | CES48 = 65 | CES73 = 45 | CES98 = 70 |
| CES24 = 90 | CES49 = 77 | CES74 = 92 | CES99 = 59 |
| CES25 = 71 | CES50 = 85 | CES75 = 49 |            |



Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)