

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: LUMARK

Report Number: P1068057

Luminaire Tested: **NAV-SA6A-827-U-LBC**

Issue Date: 08/07/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1068057  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 08/07/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SA6A-827-U-LBC  
Description: Navion AREA AND ROADWAY LUMINAIRE 615mA 6xLight Square PACKAGE  
80CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL  
Light Source: (84) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13566.6 lumens  
Efficiency: N/A  
Efficacy: 84.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G3

Input Watts (W): 161.6  
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



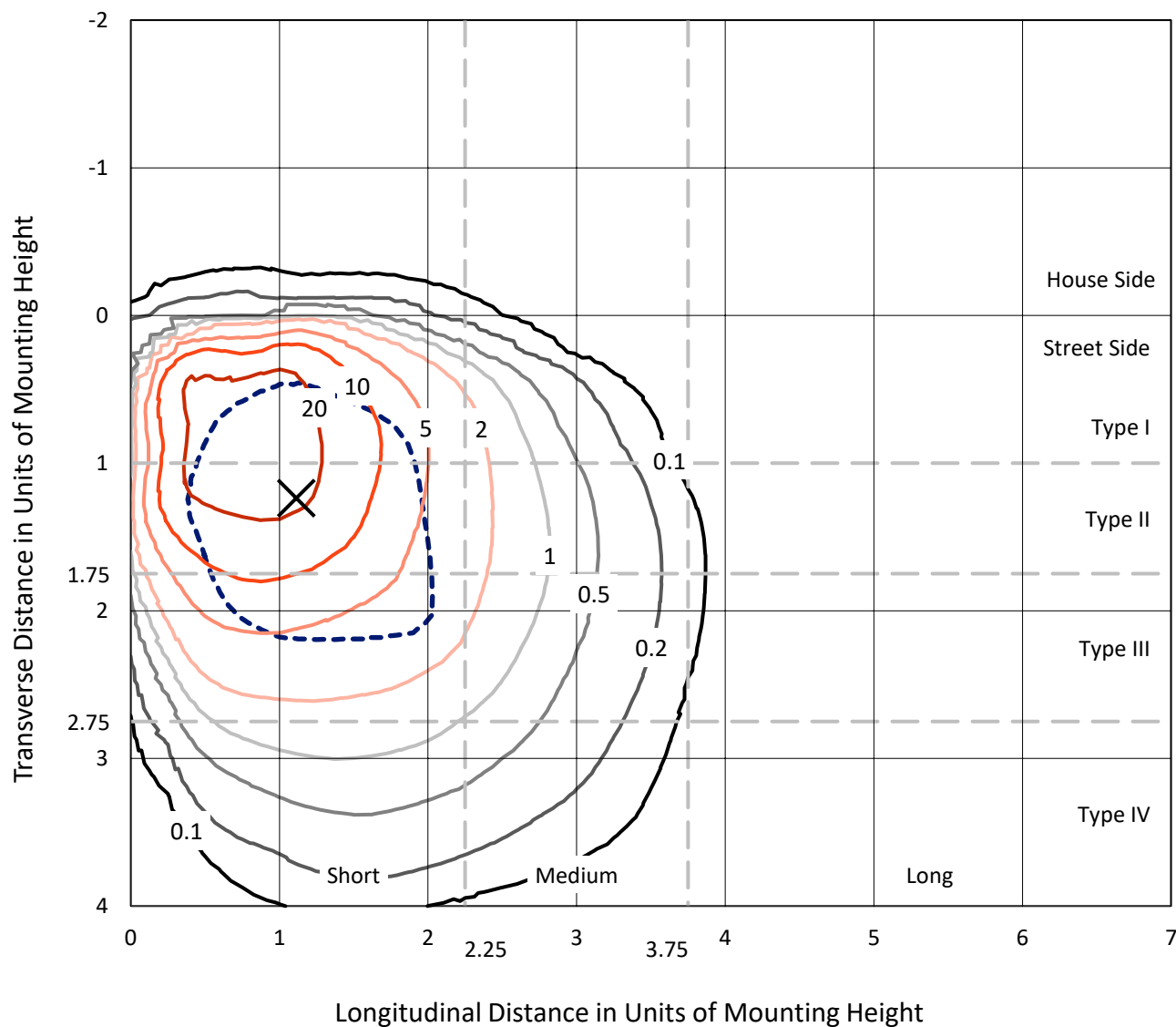
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

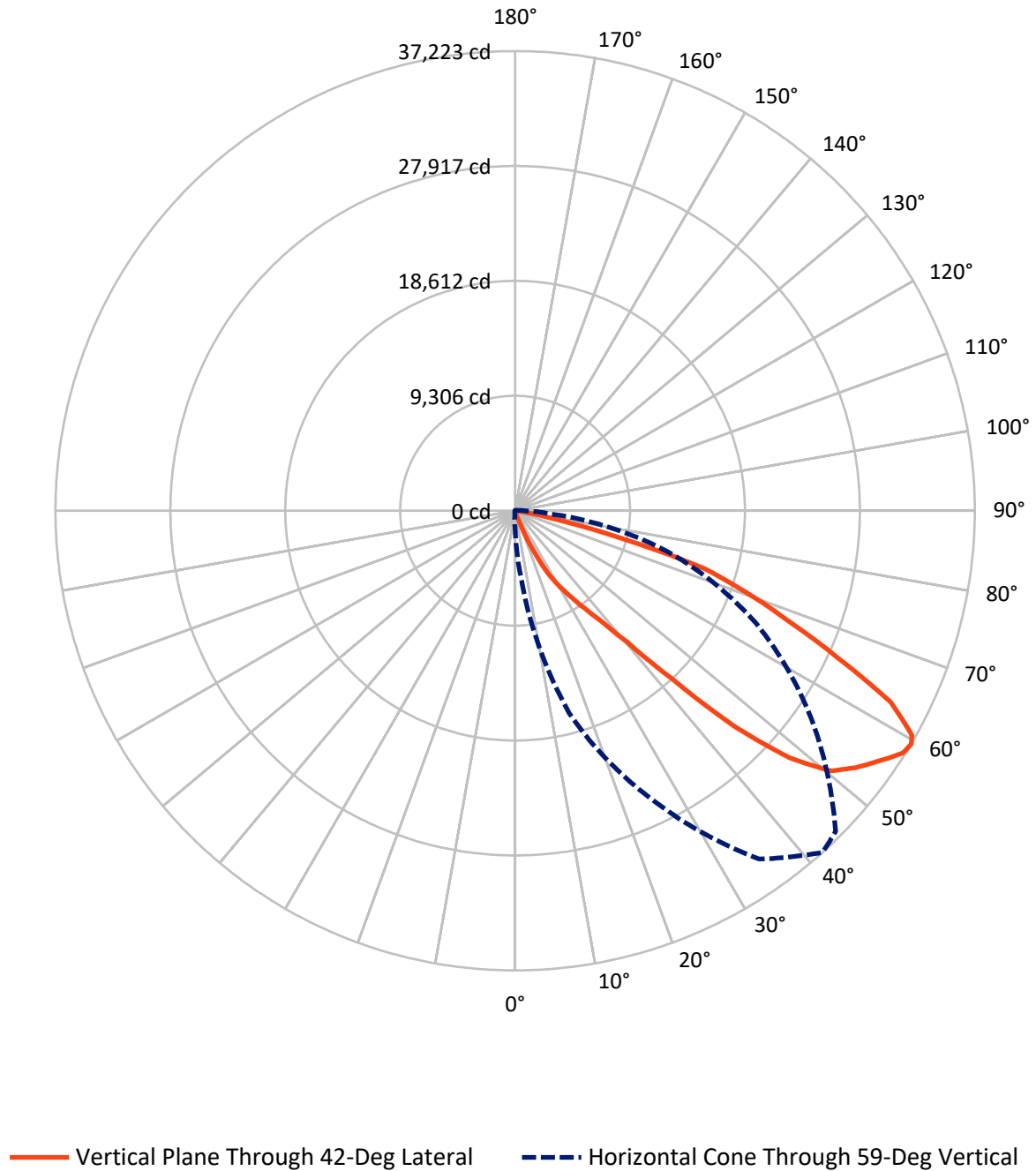


Based on 15 foot mounting height. Maximum calculated value = 40.3 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 65.4     | 0.0    | 65.4    |
|                    | % Fixture | 0.5      | 0.0    | 0.5     |
| <b>Street Side</b> | Lumens    | 13501.2  | 0.0    | 13501.2 |
|                    | % Fixture | 99.5     | 0.0    | 99.5    |
| <b>Total</b>       | Lumens    | 13566.6  | 0.0    | 13566.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 4.0     | 0.0       |
| 10°-20°   | 19.8    | 0.1       |
| 20°-30°   | 253.1   | 1.9       |
| 30°-40°   | 853.2   | 6.3       |
| 40°-50°   | 2576.9  | 19.0      |
| 50°-60°   | 4548.9  | 33.5      |
| 60°-70°   | 4005.4  | 29.5      |
| 70°-80°   | 1274.9  | 9.4       |
| 80°-90°   | 30.5    | 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°    | 13566.6 | 100.0     |
| 0°-180°   | 13566.6 | 100.0     |



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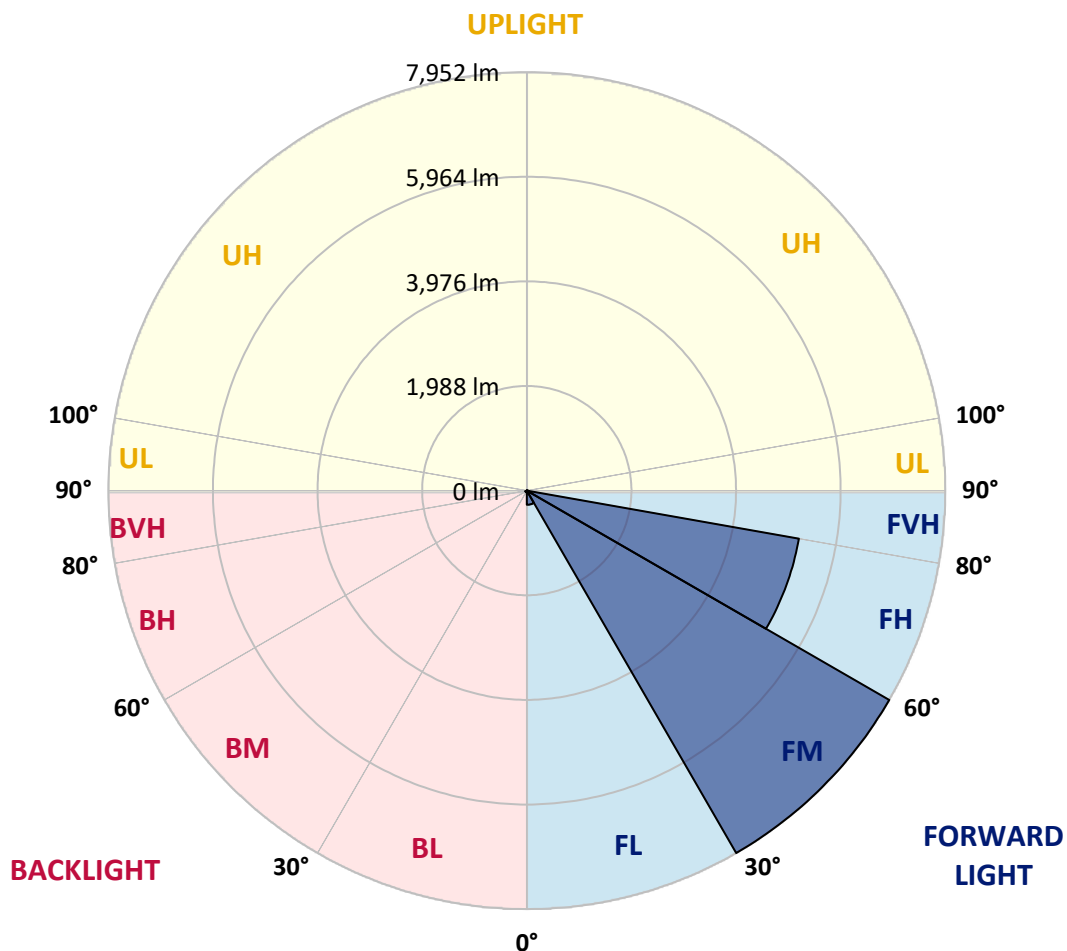
CATALOG NUMBER: NAV-SA6A-827-U-LBC

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 269.5  | 2.0       |                         |      |         |
| FM   | (30°-60°)   | 7952.3 | 58.6      |                         |      |         |
| FH   | (60°-80°)   | 5250.4 | 38.7      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 29.0   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 7.3    | 0.1       | B0/110                  |      |         |
| BM   | (30°-60°)   | 26.7   | 0.2       | B0/220                  |      |         |
| BH   | (60°-80°)   | 29.9   | 0.2       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 1.5    | 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-G3**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°     | 25°     | 35°     | 42°     | 45°     | 55°     | 65°     | 75°     | 85°    |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 38.3   | 38.3   | 38.3    | 38.3    | 38.3    | 38.3    | 38.3    | 38.3    | 38.3    | 38.3    | 38.3   |
| 2.5°  | 59.6   | 59.6   | 55.3    | 51.0    | 46.8    | 42.5    | 42.5    | 42.5    | 38.3    | 38.3    | 34.0   |
| 5°    | 68.1   | 68.1   | 63.8    | 59.6    | 59.6    | 55.3    | 55.3    | 51.0    | 46.8    | 46.8    | 42.5   |
| 7.5°  | 72.3   | 72.3   | 72.3    | 72.3    | 68.1    | 68.1    | 68.1    | 63.8    | 59.6    | 55.3    | 51.0   |
| 10°   | 76.6   | 80.8   | 85.1    | 85.1    | 85.1    | 85.1    | 85.1    | 80.8    | 72.3    | 68.1    | 59.6   |
| 12.5° | 85.1   | 89.3   | 97.8    | 106.3   | 106.3   | 110.6   | 106.3   | 102.1   | 93.6    | 80.8    | 68.1   |
| 15°   | 93.6   | 102.1  | 114.8   | 131.9   | 148.9   | 153.1   | 153.1   | 140.4   | 123.4   | 97.8    | 80.8   |
| 17.5° | 106.3  | 119.1  | 153.1   | 208.4   | 268.0   | 314.8   | 314.8   | 280.7   | 195.7   | 127.6   | 93.6   |
| 20°   | 114.8  | 140.4  | 246.7   | 501.9   | 765.6   | 961.3   | 923.0   | 816.7   | 438.1   | 199.9   | 102.1  |
| 22.5° | 127.6  | 178.7  | 523.2   | 1318.6  | 2041.7  | 2399.0  | 2313.9  | 1756.7  | 982.6   | 357.3   | 123.4  |
| 25°   | 144.6  | 259.5  | 1037.9  | 2471.3  | 3794.2  | 4181.3  | 4126.0  | 3279.5  | 1790.8  | 599.8   | 157.4  |
| 27.5° | 178.7  | 382.8  | 1663.2  | 3747.4  | 5597.7  | 5929.5  | 5908.2  | 4802.3  | 2862.7  | 965.6   | 204.2  |
| 30°   | 225.4  | 557.2  | 2467.1  | 5091.5  | 6793.0  | 7129.0  | 7022.7  | 5916.7  | 3862.3  | 1476.0  | 263.7  |
| 32.5° | 280.7  | 778.4  | 3194.4  | 6082.6  | 7894.6  | 8337.0  | 8209.4  | 6886.5  | 4666.2  | 1909.9  | 391.3  |
| 35°   | 365.8  | 995.3  | 3913.3  | 6958.9  | 9166.5  | 9727.9  | 9515.3  | 7886.1  | 5359.5  | 2399.0  | 472.1  |
| 37.5° | 408.3  | 1122.9 | 4572.6  | 7911.7  | 10595.7 | 11361.3 | 11199.7 | 9149.5  | 6065.6  | 3024.3  | 578.5  |
| 40°   | 412.6  | 1276.1 | 5257.4  | 9153.7  | 12616.1 | 13981.5 | 13692.3 | 11318.8 | 7380.0  | 3828.2  | 744.4  |
| 42.5° | 425.4  | 1505.8 | 6146.4  | 11272.0 | 16584.7 | 18545.6 | 18218.1 | 15308.6 | 10361.7 | 5440.3  | 1054.9 |
| 45°   | 484.9  | 1939.6 | 7958.4  | 15232.1 | 22033.5 | 24909.0 | 24530.4 | 20868.1 | 14526.0 | 8473.1  | 1799.3 |
| 47.5° | 693.3  | 2918.0 | 11135.9 | 19506.9 | 27605.7 | 29898.4 | 29804.8 | 25249.3 | 18298.9 | 11582.5 | 3049.8 |
| 50°   | 1114.4 | 4479.0 | 14751.4 | 23101.2 | 31153.2 | 33122.6 | 32888.7 | 27078.3 | 20451.2 | 13705.0 | 3909.0 |
| 52.5° | 1488.8 | 5972.0 | 17022.8 | 24424.1 | 32212.4 | 34560.3 | 34275.4 | 27746.1 | 21016.9 | 14330.3 | 4147.2 |
| 55°   | 1582.3 | 6512.2 | 17699.1 | 24832.4 | 32914.2 | 35776.9 | 35364.3 | 28192.7 | 21089.3 | 13883.7 | 3751.7 |
| 57.5° | 1535.5 | 6001.8 | 17261.0 | 25232.2 | 33892.5 | 37027.4 | 36478.7 | 29064.7 | 21331.7 | 13126.6 | 3122.1 |
| 59°   | 1454.7 | 5372.3 | 16988.8 | 25551.3 | 34432.7 | 37223.1 | 36708.4 | 29256.1 | 21493.3 | 12782.0 | 2739.3 |
| 60°   | 1361.1 | 4946.9 | 16776.1 | 25759.7 | 34398.7 | 36916.8 | 36385.1 | 29166.8 | 21557.1 | 12484.3 | 2556.4 |
| 62.5° | 1050.6 | 3947.3 | 16469.9 | 25610.8 | 32250.6 | 34122.2 | 33820.2 | 26980.5 | 20621.4 | 11531.5 | 2016.2 |
| 65°   | 816.7  | 3020.0 | 15346.9 | 22841.7 | 27444.1 | 28703.2 | 28609.6 | 22846.0 | 17354.6 | 9940.6  | 1454.7 |
| 67.5° | 646.5  | 2203.4 | 12977.7 | 18498.8 | 22080.3 | 23871.1 | 23803.0 | 18545.6 | 13173.3 | 7596.9  | 1046.4 |
| 70°   | 527.4  | 1569.6 | 8898.5  | 13947.5 | 17660.9 | 19915.3 | 19817.4 | 14925.8 | 9762.0  | 4819.3  | 761.4  |
| 72.5° | 446.6  | 1003.8 | 5397.8  | 10514.9 | 14738.7 | 16027.5 | 15742.5 | 12041.9 | 7099.2  | 2624.5  | 604.0  |
| 75°   | 378.6  | 616.8  | 2675.5  | 6554.8  | 8779.4  | 8770.9  | 8485.9  | 6376.1  | 3811.2  | 1284.6  | 480.7  |
| 77.5° | 306.3  | 433.9  | 1050.6  | 1799.3  | 2769.1  | 3428.4  | 3373.1  | 2258.7  | 1140.0  | 374.3   | 297.8  |
| 80°   | 199.9  | 204.2  | 280.7   | 493.4   | 761.4   | 842.2   | 957.1   | 689.1   | 331.8   | 178.7   | 123.4  |
| 82.5° | 89.3   | 97.8   | 127.6   | 161.6   | 161.6   | 148.9   | 131.9   | 97.8    | 72.3    | 59.6    | 29.8   |
| 85°   | 21.3   | 29.8   | 21.3    | 25.5    | 21.3    | 17.0    | 17.0    | 8.5     | 0.0     | 0.0     | 0.0    |
| 87.5° | 4.3    | 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):**

|       | 90°   | 95°   | 105°  | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 0°    | 38.3  | 38.3  | 38.3  | 38.3 | 38.3 | 38.3 | 38.3 | 38.3 | 38.3 | 38.3 | 38.3 |
| 2.5°  | 34.0  | 34.0  | 34.0  | 29.8 | 29.8 | 29.8 | 25.5 | 25.5 | 25.5 | 21.3 | 21.3 |
| 5°    | 42.5  | 38.3  | 34.0  | 34.0 | 29.8 | 29.8 | 25.5 | 21.3 | 21.3 | 21.3 | 17.0 |
| 7.5°  | 46.8  | 42.5  | 38.3  | 34.0 | 29.8 | 25.5 | 25.5 | 21.3 | 17.0 | 17.0 | 17.0 |
| 10°   | 55.3  | 51.0  | 42.5  | 34.0 | 29.8 | 25.5 | 21.3 | 21.3 | 17.0 | 12.8 | 12.8 |
| 12.5° | 63.8  | 55.3  | 46.8  | 38.3 | 29.8 | 25.5 | 21.3 | 21.3 | 17.0 | 12.8 | 8.5  |
| 15°   | 72.3  | 63.8  | 51.0  | 38.3 | 29.8 | 25.5 | 21.3 | 21.3 | 12.8 | 8.5  | 4.3  |
| 17.5° | 80.8  | 68.1  | 51.0  | 42.5 | 29.8 | 25.5 | 21.3 | 17.0 | 8.5  | 4.3  | 0.0  |
| 20°   | 85.1  | 72.3  | 55.3  | 42.5 | 29.8 | 25.5 | 21.3 | 12.8 | 4.3  | 0.0  | 0.0  |
| 22.5° | 93.6  | 80.8  | 59.6  | 42.5 | 29.8 | 21.3 | 12.8 | 4.3  | 0.0  | 0.0  | 0.0  |
| 25°   | 110.6 | 85.1  | 59.6  | 42.5 | 29.8 | 21.3 | 8.5  | 0.0  | 0.0  | 0.0  | 0.0  |
| 27.5° | 123.4 | 93.6  | 59.6  | 42.5 | 29.8 | 17.0 | 4.3  | 0.0  | 0.0  | 0.0  | 0.0  |
| 30°   | 144.6 | 102.1 | 63.8  | 42.5 | 29.8 | 12.8 | 4.3  | 0.0  | 0.0  | 0.0  | 0.0  |
| 32.5° | 178.7 | 110.6 | 63.8  | 42.5 | 25.5 | 12.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 35°   | 216.9 | 127.6 | 63.8  | 42.5 | 25.5 | 12.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 37.5° | 221.2 | 136.1 | 63.8  | 42.5 | 25.5 | 8.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 40°   | 229.7 | 127.6 | 68.1  | 42.5 | 25.5 | 8.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 42.5° | 263.7 | 119.1 | 72.3  | 42.5 | 25.5 | 8.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 45°   | 391.3 | 123.4 | 72.3  | 46.8 | 25.5 | 12.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 47.5° | 680.6 | 127.6 | 68.1  | 46.8 | 25.5 | 12.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 50°   | 872.0 | 148.9 | 68.1  | 51.0 | 29.8 | 8.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 52.5° | 927.3 | 174.4 | 68.1  | 55.3 | 38.3 | 4.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 55°   | 901.8 | 204.2 | 72.3  | 59.6 | 46.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 57.5° | 833.7 | 221.2 | 76.6  | 63.8 | 51.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 59°   | 761.4 | 233.9 | 89.3  | 68.1 | 51.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 60°   | 701.8 | 246.7 | 93.6  | 72.3 | 51.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 62.5° | 565.7 | 263.7 | 102.1 | 85.1 | 42.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 65°   | 493.4 | 276.5 | 106.3 | 93.6 | 38.3 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 67.5° | 450.9 | 285.0 | 114.8 | 97.8 | 34.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 70°   | 416.9 | 280.7 | 123.4 | 93.6 | 29.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 72.5° | 378.6 | 268.0 | 148.9 | 85.1 | 25.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 75°   | 340.3 | 242.5 | 161.6 | 76.6 | 17.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 77.5° | 246.7 | 204.2 | 148.9 | 68.1 | 8.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 80°   | 106.3 | 110.6 | 106.3 | 51.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 82.5° | 21.3  | 25.5  | 21.3  | 12.8 | 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°    | 38.3 | 38.3 | 38.3 | 38.3 | 38.3 | 38.3 | 38.3 | 38.3 | 38.3 | 38.3 | 38.3 |
| 2.5°  | 21.3 | 21.3 | 21.3 | 21.3 | 25.5 | 25.5 | 34.0 | 42.5 | 51.0 | 55.3 | 55.3 |
| 5°    | 17.0 | 17.0 | 17.0 | 17.0 | 17.0 | 21.3 | 25.5 | 34.0 | 46.8 | 51.0 | 51.0 |
| 7.5°  | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 | 21.3 | 29.8 | 42.5 | 46.8 | 51.0 |
| 10°   | 12.8 | 8.5  | 8.5  | 4.3  | 4.3  | 8.5  | 12.8 | 25.5 | 38.3 | 42.5 | 46.8 |
| 12.5° | 8.5  | 4.3  | 4.3  | 0.0  | 0.0  | 4.3  | 8.5  | 21.3 | 34.0 | 38.3 | 42.5 |
| 15°   | 4.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.3  | 17.0 | 29.8 | 34.0 | 42.5 |
| 17.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 12.8 | 25.5 | 34.0 | 38.3 |
| 20°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.5  | 21.3 | 29.8 | 34.0 |
| 22.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.3  | 17.0 | 25.5 | 29.8 |
| 25°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 12.8 | 17.0 | 21.3 |
| 27.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.5  | 12.8 | 17.0 |
| 30°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.5  | 12.8 | 17.0 |
| 32.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.3  | 8.5  | 12.8 |
| 35°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.3  | 8.5  | 12.8 |
| 37.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.3  | 8.5  | 8.5  |
| 40°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.3  | 8.5  |
| 42.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.3  | 8.5  |
| 45°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.3  | 8.5  |
| 47.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.3  | 8.5  |
| 50°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.3  | 8.5  |
| 52.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.3  | 4.3  |
| 55°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.3  | 4.3  |
| 57.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.3  |
| 59°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.3  |
| 60°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.3  |
| 62.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.3  |
| 65°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.3  |
| 67.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.3  |
| 70°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.3  |
| 72.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.3  |
| 75°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.3  | 4.3  |
| 77.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.3  | 8.5  |
| 80°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.3  | 8.5  |
| 82.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.3  | 4.3  |
| 85°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.3  | 4.3  |
| 87.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 4.3  | 4.3  |
| 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: P1068057

CATALOG NUMBER: NAV-SA6A-827-U-LBC

**CANDELA DISTRIBUTION (continued):**

|       | 285° | 295° | 305° | 315° | 318° | 325° | 335°  | 345°  | 355°  | 360°   |
|-------|------|------|------|------|------|------|-------|-------|-------|--------|
| 0°    | 38.3 | 38.3 | 38.3 | 38.3 | 38.3 | 38.3 | 38.3  | 38.3  | 38.3  | 38.3   |
| 2.5°  | 59.6 | 59.6 | 55.3 | 51.0 | 51.0 | 51.0 | 55.3  | 59.6  | 59.6  | 59.6   |
| 5°    | 55.3 | 55.3 | 51.0 | 51.0 | 51.0 | 51.0 | 55.3  | 63.8  | 68.1  | 68.1   |
| 7.5°  | 55.3 | 55.3 | 51.0 | 51.0 | 51.0 | 51.0 | 55.3  | 63.8  | 68.1  | 72.3   |
| 10°   | 51.0 | 51.0 | 51.0 | 51.0 | 46.8 | 51.0 | 55.3  | 63.8  | 76.6  | 76.6   |
| 12.5° | 51.0 | 51.0 | 51.0 | 51.0 | 46.8 | 51.0 | 59.6  | 68.1  | 80.8  | 85.1   |
| 15°   | 51.0 | 51.0 | 51.0 | 46.8 | 46.8 | 51.0 | 59.6  | 72.3  | 85.1  | 93.6   |
| 17.5° | 46.8 | 51.0 | 51.0 | 46.8 | 46.8 | 51.0 | 59.6  | 72.3  | 93.6  | 106.3  |
| 20°   | 42.5 | 46.8 | 51.0 | 46.8 | 46.8 | 46.8 | 59.6  | 72.3  | 97.8  | 114.8  |
| 22.5° | 38.3 | 42.5 | 46.8 | 46.8 | 42.5 | 46.8 | 59.6  | 76.6  | 106.3 | 127.6  |
| 25°   | 34.0 | 38.3 | 38.3 | 42.5 | 42.5 | 46.8 | 59.6  | 76.6  | 110.6 | 144.6  |
| 27.5° | 25.5 | 29.8 | 34.0 | 38.3 | 38.3 | 46.8 | 59.6  | 80.8  | 119.1 | 178.7  |
| 30°   | 21.3 | 25.5 | 29.8 | 34.0 | 38.3 | 46.8 | 59.6  | 80.8  | 127.6 | 225.4  |
| 32.5° | 21.3 | 25.5 | 29.8 | 34.0 | 38.3 | 42.5 | 59.6  | 85.1  | 140.4 | 280.7  |
| 35°   | 17.0 | 21.3 | 25.5 | 34.0 | 34.0 | 42.5 | 59.6  | 85.1  | 153.1 | 365.8  |
| 37.5° | 17.0 | 21.3 | 25.5 | 34.0 | 34.0 | 42.5 | 59.6  | 85.1  | 187.2 | 408.3  |
| 40°   | 12.8 | 17.0 | 21.3 | 34.0 | 34.0 | 42.5 | 63.8  | 89.3  | 191.4 | 412.6  |
| 42.5° | 12.8 | 17.0 | 21.3 | 29.8 | 34.0 | 42.5 | 63.8  | 89.3  | 178.7 | 425.4  |
| 45°   | 12.8 | 17.0 | 21.3 | 34.0 | 38.3 | 46.8 | 63.8  | 93.6  | 174.4 | 484.9  |
| 47.5° | 12.8 | 17.0 | 21.3 | 34.0 | 42.5 | 46.8 | 63.8  | 93.6  | 178.7 | 693.3  |
| 50°   | 12.8 | 17.0 | 21.3 | 34.0 | 46.8 | 46.8 | 63.8  | 93.6  | 195.7 | 1114.4 |
| 52.5° | 8.5  | 12.8 | 17.0 | 29.8 | 38.3 | 51.0 | 68.1  | 89.3  | 208.4 | 1488.8 |
| 55°   | 8.5  | 8.5  | 12.8 | 25.5 | 34.0 | 55.3 | 72.3  | 89.3  | 242.5 | 1582.3 |
| 57.5° | 8.5  | 8.5  | 12.8 | 21.3 | 29.8 | 59.6 | 76.6  | 89.3  | 280.7 | 1535.5 |
| 59°   | 8.5  | 8.5  | 8.5  | 21.3 | 25.5 | 59.6 | 76.6  | 93.6  | 285.0 | 1454.7 |
| 60°   | 8.5  | 8.5  | 8.5  | 17.0 | 25.5 | 59.6 | 80.8  | 97.8  | 289.2 | 1361.1 |
| 62.5° | 4.3  | 4.3  | 4.3  | 17.0 | 21.3 | 59.6 | 89.3  | 119.1 | 297.8 | 1050.6 |
| 65°   | 8.5  | 8.5  | 4.3  | 12.8 | 21.3 | 51.0 | 102.1 | 127.6 | 302.0 | 816.7  |
| 67.5° | 8.5  | 8.5  | 8.5  | 17.0 | 21.3 | 51.0 | 106.3 | 131.9 | 302.0 | 646.5  |
| 70°   | 8.5  | 8.5  | 8.5  | 17.0 | 25.5 | 51.0 | 106.3 | 136.1 | 297.8 | 527.4  |
| 72.5° | 8.5  | 8.5  | 8.5  | 17.0 | 25.5 | 46.8 | 97.8  | 140.4 | 285.0 | 446.6  |
| 75°   | 8.5  | 8.5  | 8.5  | 12.8 | 21.3 | 42.5 | 93.6  | 153.1 | 259.5 | 378.6  |
| 77.5° | 8.5  | 8.5  | 8.5  | 8.5  | 17.0 | 34.0 | 85.1  | 170.1 | 229.7 | 306.3  |
| 80°   | 12.8 | 8.5  | 8.5  | 8.5  | 12.8 | 29.8 | 80.8  | 165.9 | 191.4 | 199.9  |
| 82.5° | 12.8 | 8.5  | 8.5  | 4.3  | 8.5  | 21.3 | 63.8  | 127.6 | 97.8  | 89.3   |
| 85°   | 8.5  | 8.5  | 8.5  | 4.3  | 4.3  | 12.8 | 29.8  | 38.3  | 29.8  | 21.3   |
| 87.5° | 8.5  | 8.5  | 8.5  | 4.3  | 4.3  | 4.3  | 4.3   | 4.3   | 4.3   | 4.3    |
| 90°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0    |

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-8

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-827-U-5WQ

Data in this report applies to families of products including GSS-SB1A-827-U-5WQ

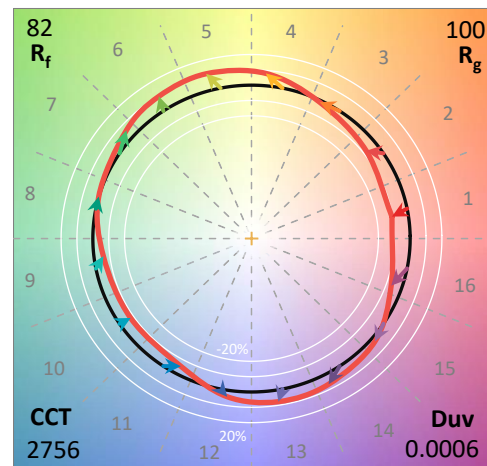
### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2407-184-8  
 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-827-U-5WQ**  
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI  
 2700K CCT 26 LEDS

### Spectral Parameters

CCT (K): 2756  
 CIE  $u'$ : 0.2599  
 CIE  $v'$ : 0.5271  
 Duv: 0.0006  
 CIE x: 0.4563  
 CIE y: 0.4112  
 CIE z: 0.1325  
 Peak Wavelength (nm): 609  
 Dominant Wavelength (nm): 583  
 Purity: 60.41121  
 R<sub>f</sub>: 82.2  
 R<sub>g</sub>: 99.9

CRI (Ra): 82.9  
 R1: 81.6  
 R2: 88.8  
 R3: 96.0  
 R4: 83.4  
 R5: 81.4  
 R6: 87.0  
 R7: 84.0  
 R8: 60.8  
 R9: 10.8  
 R10: 74.8  
 R11: 84.3  
 R12: 72.1  
 R13: 82.9  
 R14: 97.3  
 R15: 73.7



### Test Conditions

Stabilization Time: 29M  
 Operation Time: 1H 29M  
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-8

| 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           |

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**CIE 1931 Chromaticity Diagram**

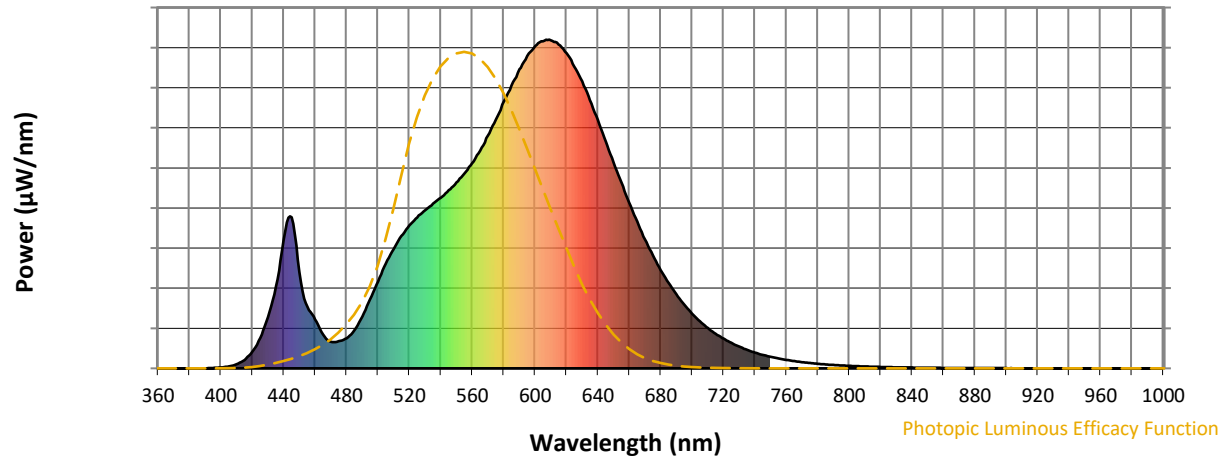


**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-8

**Photopic Flux vs. Wavelength**

**Photopic Lumens: NR**

| $\lambda$<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               | 158                                  | NR                             | 620               | 959                                  | NR                             | 750               | 35                                   | NR                             | 880               | 1                                    | NR                             |
| 365               | 0                                    | NR                             | 495               | 211                                  | NR                             | 625               | 918                                  | NR                             | 755               | 30                                   | NR                             | 885               | 1                                    | NR                             |
| 370               | 0                                    | NR                             | 500               | 264                                  | NR                             | 630               | 873                                  | NR                             | 760               | 26                                   | NR                             | 890               | 1                                    | NR                             |
| 375               | 0                                    | NR                             | 505               | 318                                  | NR                             | 635               | 816                                  | NR                             | 765               | 22                                   | NR                             | 895               | 1                                    | NR                             |
| 380               | 0                                    | NR                             | 510               | 363                                  | NR                             | 640               | 755                                  | NR                             | 770               | 19                                   | NR                             | 900               | 1                                    | NR                             |
| 385               | 0                                    | NR                             | 515               | 403                                  | NR                             | 645               | 689                                  | NR                             | 775               | 16                                   | NR                             | 905               | 1                                    | NR                             |
| 390               | 0                                    | NR                             | 520               | 435                                  | NR                             | 650               | 626                                  | NR                             | 780               | 14                                   | NR                             | 910               | 0                                    | NR                             |
| 395               | 1                                    | NR                             | 525               | 459                                  | NR                             | 655               | 564                                  | NR                             | 785               | 12                                   | NR                             | 915               | 0                                    | NR                             |
| 400               | 3                                    | NR                             | 530               | 481                                  | NR                             | 660               | 503                                  | NR                             | 790               | 10                                   | NR                             | 920               | 0                                    | NR                             |
| 405               | 6                                    | NR                             | 535               | 501                                  | NR                             | 665               | 447                                  | NR                             | 795               | 9                                    | NR                             | 925               | 0                                    | NR                             |
| 410               | 13                                   | NR                             | 540               | 519                                  | NR                             | 670               | 392                                  | NR                             | 800               | 8                                    | NR                             | 930               | 0                                    | NR                             |
| 415               | 26                                   | NR                             | 545               | 542                                  | NR                             | 675               | 343                                  | NR                             | 805               | 7                                    | NR                             | 935               | 0                                    | NR                             |
| 420               | 51                                   | NR                             | 550               | 565                                  | NR                             | 680               | 299                                  | NR                             | 810               | 6                                    | NR                             | 940               | 0                                    | NR                             |
| 425               | 93                                   | NR                             | 555               | 593                                  | NR                             | 685               | 260                                  | NR                             | 815               | 5                                    | NR                             | 945               | 0                                    | NR                             |
| 430               | 156                                  | NR                             | 560               | 624                                  | NR                             | 690               | 225                                  | NR                             | 820               | 4                                    | NR                             | 950               | 0                                    | NR                             |
| 435               | 250                                  | NR                             | 565               | 662                                  | NR                             | 695               | 194                                  | NR                             | 825               | 4                                    | NR                             | 955               | 0                                    | NR                             |
| 440               | 391                                  | NR                             | 570               | 707                                  | NR                             | 700               | 166                                  | NR                             | 830               | 3                                    | NR                             | 960               | 0                                    | NR                             |
| 445               | 460                                  | NR                             | 575               | 756                                  | NR                             | 705               | 143                                  | NR                             | 835               | 3                                    | NR                             | 965               | 0                                    | NR                             |
| 450               | 293                                  | NR                             | 580               | 810                                  | NR                             | 710               | 122                                  | NR                             | 840               | 2                                    | NR                             | 970               | 0                                    | NR                             |
| 455               | 188                                  | NR                             | 585               | 860                                  | NR                             | 715               | 105                                  | NR                             | 845               | 2                                    | NR                             | 975               | 0                                    | NR                             |
| 460               | 149                                  | NR                             | 590               | 910                                  | NR                             | 720               | 90                                   | NR                             | 850               | 2                                    | NR                             | 980               | 0                                    | NR                             |
| 465               | 103                                  | NR                             | 595               | 950                                  | NR                             | 725               | 77                                   | NR                             | 855               | 2                                    | NR                             | 985               | 0                                    | NR                             |
| 470               | 80                                   | NR                             | 600               | 980                                  | NR                             | 730               | 66                                   | NR                             | 860               | 1                                    | NR                             | 990               | 0                                    | NR                             |
| 475               | 82                                   | NR                             | 605               | 995                                  | NR                             | 735               | 56                                   | NR                             | 865               | 1                                    | NR                             | 995               | 0                                    | NR                             |
| 480               | 92                                   | NR                             | 610               | 998                                  | NR                             | 740               | 48                                   | NR                             | 870               | 1                                    | NR                             | 1000              | 0                                    | NR                             |
| 485               | 116                                  | NR                             | 615               | 985                                  | NR                             | 745               | 41                                   | NR                             | 875               | 1                                    | NR                             |                   |                                      |                                |

REPORT NUMBER: SP1-2407-184-8

### Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.2

| λ (nm) | Power W <sup>^</sup> /nm | Lumens (Φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (Φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (Φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (Φ/nm) | λ (nm) | Power W <sup>^</sup> /nm | Lumens (Φ/nm) |
|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|
| 360    | 0                        | NR            | 490    | 158                      | NR            | 620    | 959                      | NR            | 750    | 35                       | NR            | 880    | 1                        | NR            |
| 365    | 0                        | NR            | 495    | 211                      | NR            | 625    | 918                      | NR            | 755    | 30                       | NR            | 885    | 1                        | NR            |
| 370    | 0                        | NR            | 500    | 264                      | NR            | 630    | 873                      | NR            | 760    | 26                       | NR            | 890    | 1                        | NR            |
| 375    | 0                        | NR            | 505    | 318                      | NR            | 635    | 816                      | NR            | 765    | 22                       | NR            | 895    | 1                        | NR            |
| 380    | 0                        | NR            | 510    | 363                      | NR            | 640    | 755                      | NR            | 770    | 19                       | NR            | 900    | 1                        | NR            |
| 385    | 0                        | NR            | 515    | 403                      | NR            | 645    | 689                      | NR            | 775    | 16                       | NR            | 905    | 1                        | NR            |
| 390    | 0                        | NR            | 520    | 435                      | NR            | 650    | 626                      | NR            | 780    | 14                       | NR            | 910    | 0                        | NR            |
| 395    | 1                        | NR            | 525    | 459                      | NR            | 655    | 564                      | NR            | 785    | 12                       | NR            | 915    | 0                        | NR            |
| 400    | 3                        | NR            | 530    | 481                      | NR            | 660    | 503                      | NR            | 790    | 10                       | NR            | 920    | 0                        | NR            |
| 405    | 6                        | NR            | 535    | 501                      | NR            | 665    | 447                      | NR            | 795    | 9                        | NR            | 925    | 0                        | NR            |
| 410    | 13                       | NR            | 540    | 519                      | NR            | 670    | 392                      | NR            | 800    | 8                        | NR            | 930    | 0                        | NR            |
| 415    | 26                       | NR            | 545    | 542                      | NR            | 675    | 343                      | NR            | 805    | 7                        | NR            | 935    | 0                        | NR            |
| 420    | 51                       | NR            | 550    | 565                      | NR            | 680    | 299                      | NR            | 810    | 6                        | NR            | 940    | 0                        | NR            |
| 425    | 93                       | NR            | 555    | 593                      | NR            | 685    | 260                      | NR            | 815    | 5                        | NR            | 945    | 0                        | NR            |
| 430    | 156                      | NR            | 560    | 624                      | NR            | 690    | 225                      | NR            | 820    | 4                        | NR            | 950    | 0                        | NR            |
| 435    | 250                      | NR            | 565    | 662                      | NR            | 695    | 194                      | NR            | 825    | 4                        | NR            | 955    | 0                        | NR            |
| 440    | 391                      | NR            | 570    | 707                      | NR            | 700    | 166                      | NR            | 830    | 3                        | NR            | 960    | 0                        | NR            |
| 445    | 460                      | NR            | 575    | 756                      | NR            | 705    | 143                      | NR            | 835    | 3                        | NR            | 965    | 0                        | NR            |
| 450    | 293                      | NR            | 580    | 810                      | NR            | 710    | 122                      | NR            | 840    | 2                        | NR            | 970    | 0                        | NR            |
| 455    | 188                      | NR            | 585    | 860                      | NR            | 715    | 105                      | NR            | 845    | 2                        | NR            | 975    | 0                        | NR            |
| 460    | 149                      | NR            | 590    | 910                      | NR            | 720    | 90                       | NR            | 850    | 2                        | NR            | 980    | 0                        | NR            |
| 465    | 103                      | NR            | 595    | 950                      | NR            | 725    | 77                       | NR            | 855    | 2                        | NR            | 985    | 0                        | NR            |
| 470    | 80                       | NR            | 600    | 980                      | NR            | 730    | 66                       | NR            | 860    | 1                        | NR            | 990    | 0                        | NR            |
| 475    | 82                       | NR            | 605    | 995                      | NR            | 735    | 56                       | NR            | 865    | 1                        | NR            | 995    | 0                        | NR            |
| 480    | 92                       | NR            | 610    | 998                      | NR            | 740    | 48                       | NR            | 870    | 1                        | NR            | 1000   | 0                        | NR            |
| 485    | 116                      | NR            | 615    | 985                      | NR            | 745    | 41                       | NR            | 875    | 1                        | NR            |        |                          |               |

REPORT NUMBER: SP1-2407-184-8

### Melanopic Flux vs. Wavelength


**Melanopic Lumens: NR**
**M/P: 2.16**

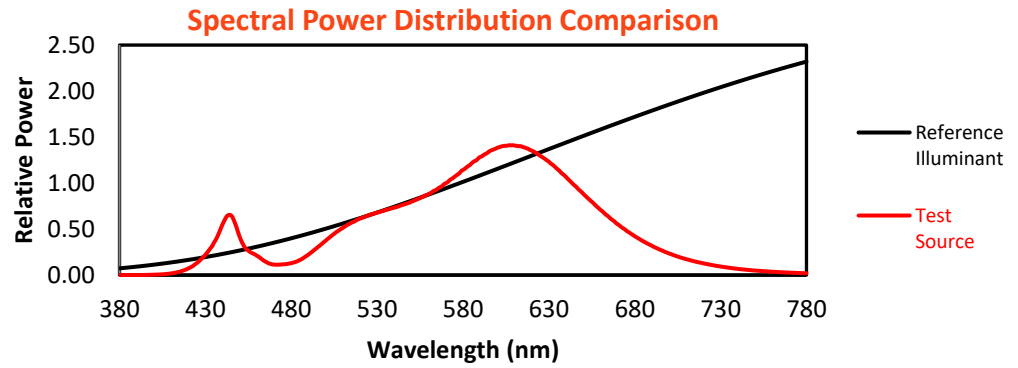
| $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^{\wedge}/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | 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               | 158                                    | NR                             | 620               | 959                                    | NR                             | 750               | 35                                     | NR                             | 880               | 1                                      | NR                             |
| 365               | 0                                      | NR                             | 495               | 211                                    | NR                             | 625               | 918                                    | NR                             | 755               | 30                                     | NR                             | 885               | 1                                      | NR                             |
| 370               | 0                                      | NR                             | 500               | 264                                    | NR                             | 630               | 873                                    | NR                             | 760               | 26                                     | NR                             | 890               | 1                                      | NR                             |
| 375               | 0                                      | NR                             | 505               | 318                                    | NR                             | 635               | 816                                    | NR                             | 765               | 22                                     | NR                             | 895               | 1                                      | NR                             |
| 380               | 0                                      | NR                             | 510               | 363                                    | NR                             | 640               | 755                                    | NR                             | 770               | 19                                     | NR                             | 900               | 1                                      | NR                             |
| 385               | 0                                      | NR                             | 515               | 403                                    | NR                             | 645               | 689                                    | NR                             | 775               | 16                                     | NR                             | 905               | 1                                      | NR                             |
| 390               | 0                                      | NR                             | 520               | 435                                    | NR                             | 650               | 626                                    | NR                             | 780               | 14                                     | NR                             | 910               | 0                                      | NR                             |
| 395               | 1                                      | NR                             | 525               | 459                                    | NR                             | 655               | 564                                    | NR                             | 785               | 12                                     | NR                             | 915               | 0                                      | NR                             |
| 400               | 3                                      | NR                             | 530               | 481                                    | NR                             | 660               | 503                                    | NR                             | 790               | 10                                     | NR                             | 920               | 0                                      | NR                             |
| 405               | 6                                      | NR                             | 535               | 501                                    | NR                             | 665               | 447                                    | NR                             | 795               | 9                                      | NR                             | 925               | 0                                      | NR                             |
| 410               | 13                                     | NR                             | 540               | 519                                    | NR                             | 670               | 392                                    | NR                             | 800               | 8                                      | NR                             | 930               | 0                                      | NR                             |
| 415               | 26                                     | NR                             | 545               | 542                                    | NR                             | 675               | 343                                    | NR                             | 805               | 7                                      | NR                             | 935               | 0                                      | NR                             |
| 420               | 51                                     | NR                             | 550               | 565                                    | NR                             | 680               | 299                                    | NR                             | 810               | 6                                      | NR                             | 940               | 0                                      | NR                             |
| 425               | 93                                     | NR                             | 555               | 593                                    | NR                             | 685               | 260                                    | NR                             | 815               | 5                                      | NR                             | 945               | 0                                      | NR                             |
| 430               | 156                                    | NR                             | 560               | 624                                    | NR                             | 690               | 225                                    | NR                             | 820               | 4                                      | NR                             | 950               | 0                                      | NR                             |
| 435               | 250                                    | NR                             | 565               | 662                                    | NR                             | 695               | 194                                    | NR                             | 825               | 4                                      | NR                             | 955               | 0                                      | NR                             |
| 440               | 391                                    | NR                             | 570               | 707                                    | NR                             | 700               | 166                                    | NR                             | 830               | 3                                      | NR                             | 960               | 0                                      | NR                             |
| 445               | 460                                    | NR                             | 575               | 756                                    | NR                             | 705               | 143                                    | NR                             | 835               | 3                                      | NR                             | 965               | 0                                      | NR                             |
| 450               | 293                                    | NR                             | 580               | 810                                    | NR                             | 710               | 122                                    | NR                             | 840               | 2                                      | NR                             | 970               | 0                                      | NR                             |
| 455               | 188                                    | NR                             | 585               | 860                                    | NR                             | 715               | 105                                    | NR                             | 845               | 2                                      | NR                             | 975               | 0                                      | NR                             |
| 460               | 149                                    | NR                             | 590               | 910                                    | NR                             | 720               | 90                                     | NR                             | 850               | 2                                      | NR                             | 980               | 0                                      | NR                             |
| 465               | 103                                    | NR                             | 595               | 950                                    | NR                             | 725               | 77                                     | NR                             | 855               | 2                                      | NR                             | 985               | 0                                      | NR                             |
| 470               | 80                                     | NR                             | 600               | 980                                    | NR                             | 730               | 66                                     | NR                             | 860               | 1                                      | NR                             | 990               | 0                                      | NR                             |
| 475               | 82                                     | NR                             | 605               | 995                                    | NR                             | 735               | 56                                     | NR                             | 865               | 1                                      | NR                             | 995               | 0                                      | NR                             |
| 480               | 92                                     | NR                             | 610               | 998                                    | NR                             | 740               | 48                                     | NR                             | 870               | 1                                      | NR                             | 1000              | 0                                      | NR                             |
| 485               | 116                                    | NR                             | 615               | 985                                    | NR                             | 745               | 41                                     | NR                             | 875               | 1                                      | NR                             |                   |                                        |                                |

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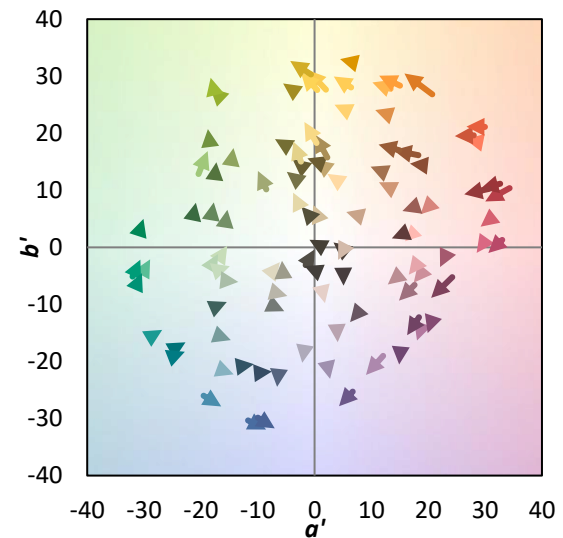
TM-30-18

### Summary

$R_f = 82.2$   
 $R_g = 99.9$   
 $CIE R_a = 82.9$   
 $R_9 = 10.8$

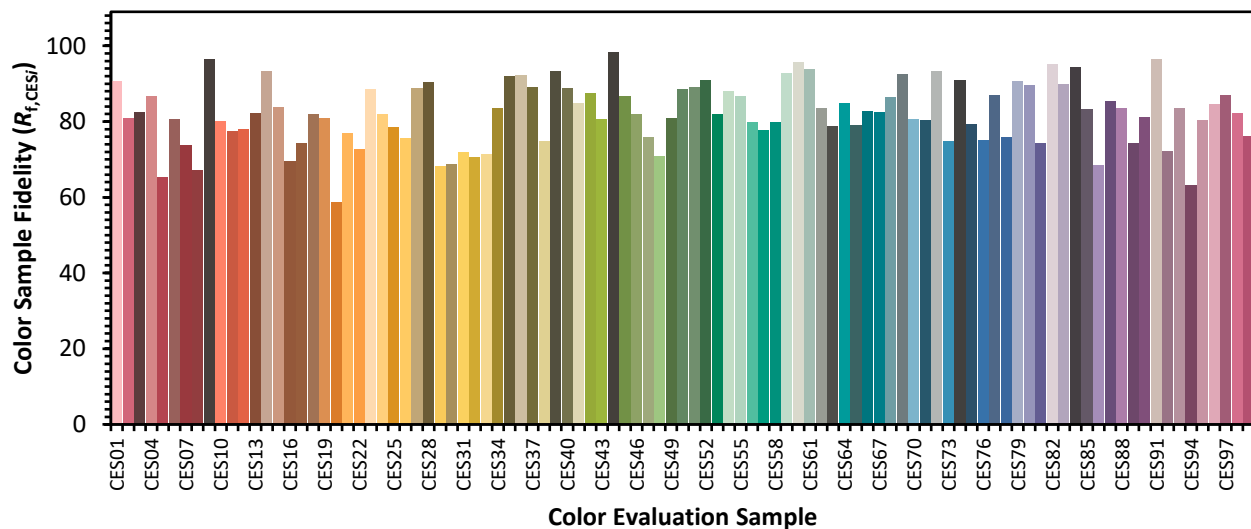


### Color Vector Graphics



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

|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 76 | CES51 = 89 | CES76 = 75 |
| CES02 = 63 | CES27 = 89 | CES52 = 91 | CES77 = 87 |
| CES03 = 31 | CES28 = 90 | CES53 = 82 | CES78 = 76 |
| CES04 = 71 | CES29 = 68 | CES54 = 88 | CES79 = 91 |
| CES05 = 50 | CES30 = 69 | CES55 = 87 | CES80 = 90 |
| CES06 = 52 | CES31 = 72 | CES56 = 80 | CES81 = 74 |
| CES07 = 43 | CES32 = 71 | CES57 = 78 | CES82 = 95 |
| CES08 = 42 | CES33 = 71 | CES58 = 80 | CES83 = 90 |
| CES09 = 29 | CES34 = 84 | CES59 = 93 | CES84 = 94 |
| CES10 = 77 | CES35 = 92 | CES60 = 96 | CES85 = 83 |
| CES11 = 59 | CES36 = 92 | CES61 = 94 | CES86 = 69 |
| CES12 = 66 | CES37 = 89 | CES62 = 84 | CES87 = 85 |
| CES13 = 44 | CES38 = 75 | CES63 = 79 | CES88 = 84 |
| CES14 = 74 | CES39 = 93 | CES64 = 85 | CES89 = 74 |
| CES15 = 72 | CES40 = 89 | CES65 = 79 | CES90 = 81 |
| CES16 = 48 | CES41 = 85 | CES66 = 83 | CES91 = 96 |
| CES17 = 50 | CES42 = 88 | CES67 = 82 | CES92 = 72 |
| CES18 = 57 | CES43 = 81 | CES68 = 86 | CES93 = 84 |
| CES19 = 73 | CES44 = 98 | CES69 = 92 | CES94 = 63 |
| CES20 = 67 | CES45 = 87 | CES70 = 81 | CES95 = 80 |
| CES21 = 87 | CES46 = 82 | CES71 = 81 | CES96 = 85 |
| CES22 = 79 | CES47 = 76 | CES72 = 93 | CES97 = 87 |
| CES23 = 92 | CES48 = 71 | CES73 = 75 | CES98 = 82 |
| CES24 = 91 | CES49 = 81 | CES74 = 91 | CES99 = 76 |
| CES25 = 72 | CES50 = 88 | CES75 = 79 |            |



Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)