

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



Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P1049705

Luminaire Tested: **GALN-SA8A-760-U-LBC**

Issue Date: 07/10/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1049705  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 07/10/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8A-760-U-LBC  
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 615mA 8xLight Square PACKAGE  
70CRI 5700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL  
Light Source: (112) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26187.2 lumens  
Efficiency: N/A  
Efficacy: 120.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G4

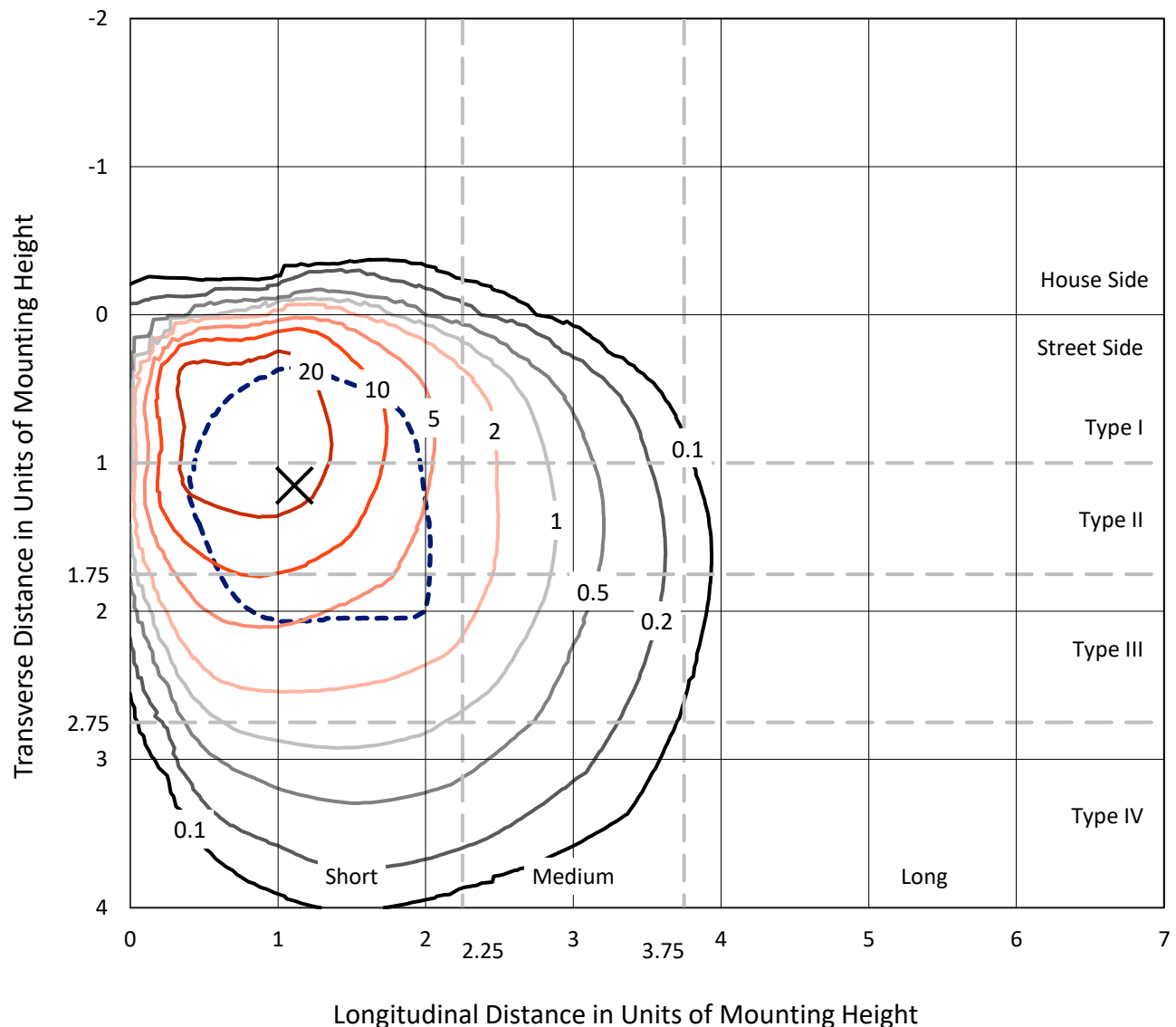
Input Watts (W): 217.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.97  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

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## Iso-Footcandle Lines of Horizontal Illumination

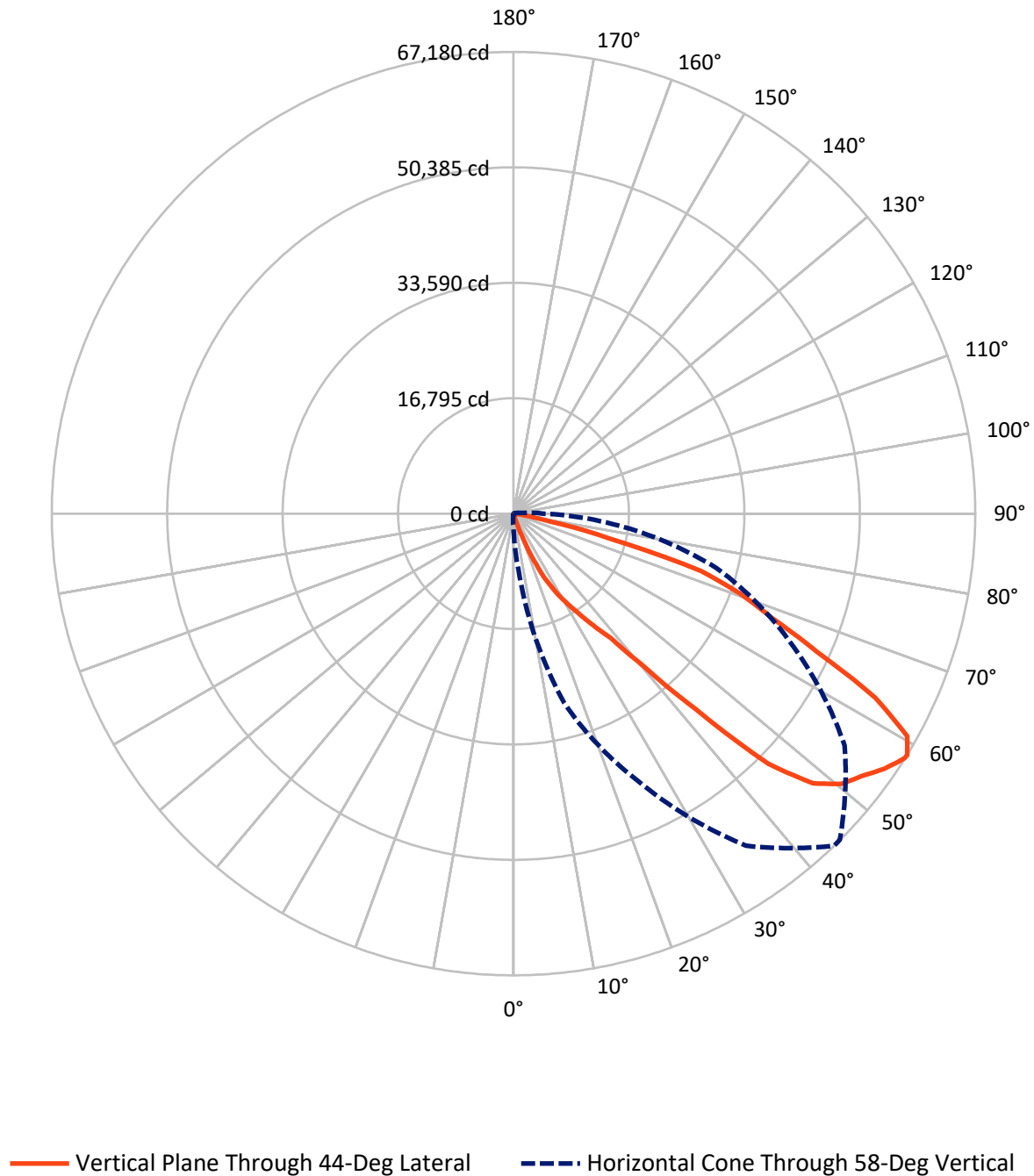
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 45.6 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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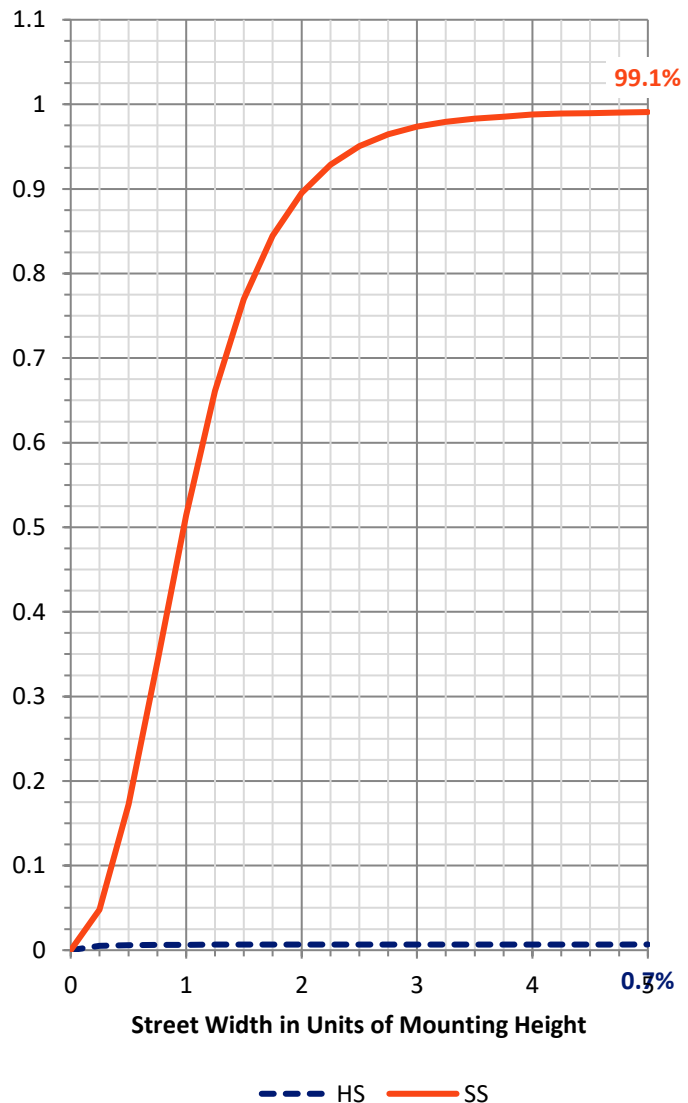
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 178.8    | 0.0    | 178.8   |
|                    | % Fixture | 0.7      | 0.0    | 0.7     |
| <b>Street Side</b> | Lumens    | 26008.4  | 0.0    | 26008.4 |
|                    | % Fixture | 99.3     | 0.0    | 99.3    |
| <b>Total</b>       | Lumens    | 26187.2  | 0.0    | 26187.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 10.2    | 0.0       |
| 10°-20°   | 57.4    | 0.2       |
| 20°-30°   | 620.4   | 2.4       |
| 30°-40°   | 1834.7  | 7.0       |
| 40°-50°   | 5468.3  | 20.9      |
| 50°-60°   | 8676.9  | 33.1      |
| 60°-70°   | 7237.6  | 27.6      |
| 70°-80°   | 2232.2  | 8.5       |
| 80°-90°   | 49.6    | 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°    | 26187.2 | 100.0     |
| 0°-180°   | 26187.2 | 100.0     |



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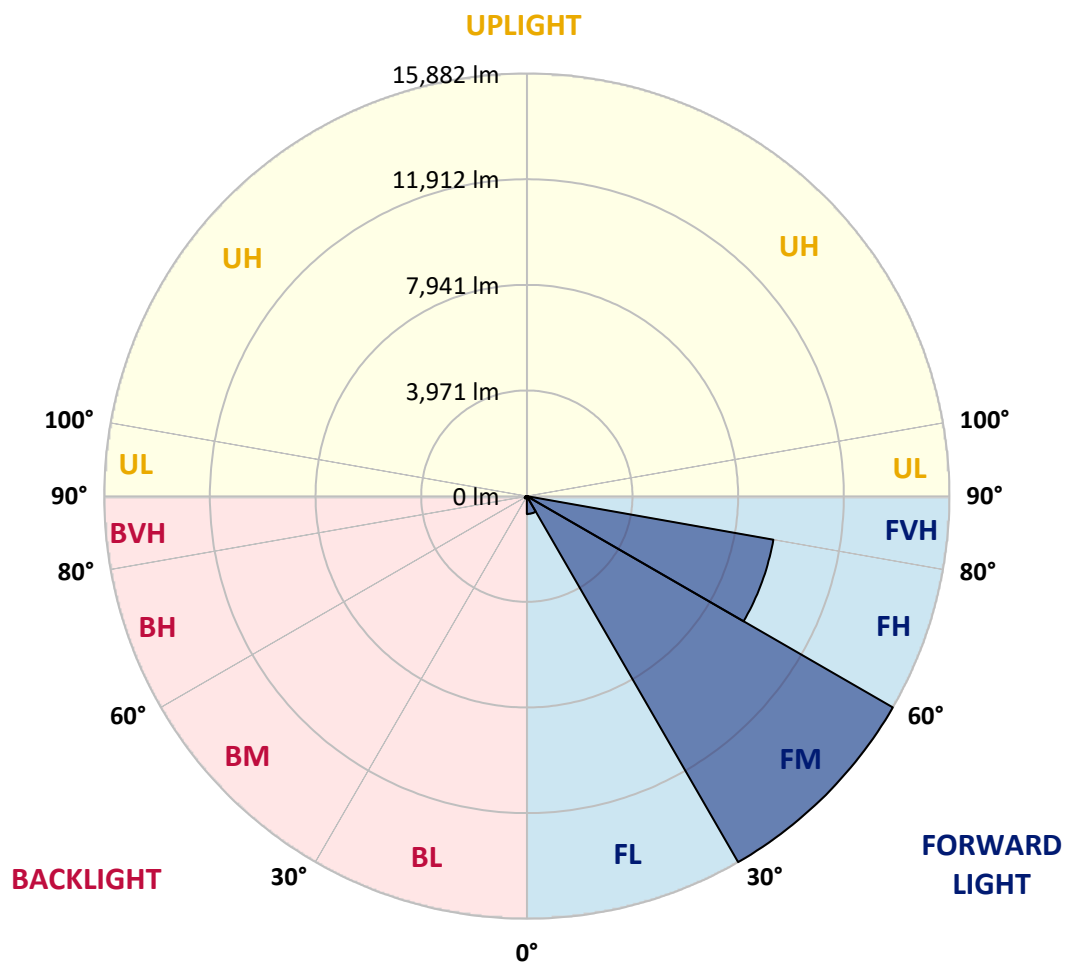
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 670.5   | 2.6       |                         |      |          |
| FM   | (30°-60°)   | 15882.0 | 60.6      |                         |      |          |
| FH   | (60°-80°)   | 9408.7  | 35.9      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 47.2    | 0.2       |                         |      | G1/100   |
| BL   | (0°-30°)    | 17.5    | 0.1       | B0/110                  |      |          |
| BM   | (30°-60°)   | 97.9    | 0.4       | B0/220                  |      |          |
| BH   | (60°-80°)   | 61.0    | 0.2       | B0/110                  |      | G0/110   |
| BVH  | (80°-90°)   | 2.4     | 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-G4**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°     | 25°     | 35°     | 44°     | 45°     | 55°     | 65°     | 75°     |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 114.7  | 114.7  | 114.7   | 114.7   | 114.7   | 114.7   | 114.7   | 114.7   | 114.7   | 114.7   |
| 2.5°  | 148.4  | 148.4  | 142.4   | 134.5   | 126.6   | 118.7   | 116.7   | 112.8   | 110.8   | 108.8   |
| 5°    | 154.3  | 154.3  | 152.3   | 146.4   | 138.5   | 132.5   | 132.5   | 126.6   | 122.6   | 118.7   |
| 7.5°  | 158.3  | 160.2  | 164.2   | 162.2   | 158.3   | 152.3   | 152.3   | 148.4   | 142.4   | 132.5   |
| 10°   | 164.2  | 170.1  | 178.0   | 182.0   | 184.0   | 184.0   | 182.0   | 180.0   | 170.1   | 156.3   |
| 12.5° | 170.1  | 182.0  | 201.8   | 221.6   | 233.4   | 249.3   | 247.3   | 243.3   | 217.6   | 187.9   |
| 15°   | 182.0  | 199.8  | 241.3   | 298.7   | 387.7   | 443.1   | 464.9   | 445.1   | 360.0   | 253.2   |
| 17.5° | 195.8  | 225.5  | 350.1   | 625.1   | 1024.7  | 1214.6  | 1329.4  | 1236.4  | 819.0   | 480.7   |
| 20°   | 209.7  | 275.0  | 650.8   | 1620.2  | 2658.7  | 3279.9  | 3452.0  | 3183.0  | 2043.5  | 915.9   |
| 22.5° | 233.4  | 385.8  | 1319.5  | 3349.1  | 5728.9  | 6660.7  | 6836.7  | 5976.2  | 3859.5  | 1808.1  |
| 25°   | 282.9  | 559.8  | 2275.0  | 5457.9  | 8549.9  | 10122.6 | 10049.4 | 8921.8  | 6261.1  | 2888.2  |
| 27.5° | 354.1  | 815.0  | 3440.1  | 7754.6  | 11252.1 | 12638.9 | 12805.0 | 11410.4 | 8346.1  | 4247.2  |
| 30°   | 457.0  | 1129.6 | 4690.4  | 9594.4  | 13418.3 | 14917.8 | 14945.5 | 13503.3 | 10211.6 | 5440.1  |
| 32.5° | 555.9  | 1426.3 | 5784.3  | 11372.8 | 15552.8 | 17196.7 | 17319.3 | 15544.9 | 11604.3 | 6682.4  |
| 35°   | 631.1  | 1620.2 | 6892.1  | 12935.6 | 17705.1 | 19970.2 | 19962.2 | 17855.4 | 13254.1 | 7792.2  |
| 37.5° | 637.0  | 1814.0 | 7895.1  | 14534.0 | 20431.1 | 22967.2 | 23218.4 | 20896.0 | 15248.1 | 9165.1  |
| 40°   | 623.1  | 2031.6 | 9165.1  | 17026.6 | 25343.0 | 29234.2 | 29455.7 | 26528.0 | 19248.1 | 11515.2 |
| 42.5° | 639.0  | 2409.5 | 11226.4 | 21629.9 | 33499.2 | 39087.7 | 39515.0 | 36436.9 | 26601.2 | 16310.4 |
| 45°   | 722.1  | 3119.7 | 15544.9 | 29331.1 | 45125.2 | 51938.2 | 51795.8 | 47362.6 | 35157.0 | 23610.1 |
| 47.5° | 997.0  | 4858.5 | 21946.4 | 36826.6 | 52555.4 | 58622.6 | 58745.3 | 53326.9 | 40150.0 | 29222.3 |
| 50°   | 1533.1 | 7434.2 | 27325.2 | 40789.0 | 55750.3 | 61837.3 | 61722.5 | 55461.4 | 42047.1 | 31985.9 |
| 52.5° | 1994.0 | 9297.6 | 30023.5 | 42179.7 | 56159.8 | 63425.8 | 63417.8 | 56023.3 | 42341.9 | 32223.3 |
| 55°   | 2108.8 | 9438.1 | 30045.2 | 42254.8 | 57077.6 | 65504.9 | 65766.0 | 57406.0 | 42723.7 | 31186.7 |
| 57.5° | 2063.3 | 8356.0 | 28791.0 | 42690.0 | 58711.7 | 67113.2 | 67127.0 | 58745.3 | 43693.0 | 30551.7 |
| 58°   | 2023.7 | 8185.9 | 28537.8 | 42937.3 | 58992.6 | 67180.4 | 67146.8 | 58806.6 | 44482.3 | 30527.9 |
| 60°   | 1802.2 | 7107.8 | 27550.7 | 43568.4 | 58575.2 | 65799.6 | 65485.1 | 57467.4 | 44365.6 | 30284.6 |
| 62.5° | 1416.4 | 5545.0 | 26579.4 | 42838.4 | 54100.4 | 59115.2 | 59245.8 | 50877.9 | 40444.8 | 28866.2 |
| 65°   | 1127.6 | 4132.5 | 24553.7 | 37576.3 | 44549.6 | 48545.6 | 49032.2 | 41372.5 | 33758.4 | 24442.9 |
| 67.5° | 898.1  | 2987.1 | 20597.3 | 29916.7 | 35251.9 | 40516.0 | 40870.1 | 34735.6 | 26154.1 | 18727.8 |
| 70°   | 730.0  | 2019.8 | 14217.5 | 21879.1 | 29075.9 | 34994.8 | 35016.5 | 28856.3 | 19521.1 | 12270.9 |
| 72.5° | 646.9  | 1398.6 | 8253.1  | 15956.3 | 23576.5 | 28516.1 | 27940.4 | 23416.2 | 15002.8 | 7268.0  |
| 75°   | 559.8  | 927.8  | 4047.4  | 9754.6  | 14294.6 | 14391.6 | 14611.1 | 10862.4 | 7499.4  | 3456.0  |
| 77.5° | 460.9  | 658.7  | 1594.4  | 2664.7  | 4286.8  | 5487.6  | 5691.3  | 4312.5  | 2494.5  | 850.6   |
| 80°   | 316.5  | 312.6  | 429.3   | 817.0   | 1226.5  | 1537.1  | 1434.2  | 1109.8  | 652.8   | 326.4   |
| 82.5° | 136.5  | 148.4  | 193.9   | 233.4   | 189.9   | 184.0   | 176.1   | 112.8   | 87.0    | 67.3    |
| 85°   | 43.5   | 39.6   | 41.5    | 41.5    | 33.6    | 25.7    | 25.7    | 11.9    | 0.0     | 0.0     |
| 87.5° | 21.8   | 17.8   | 17.8    | 15.8    | 9.9     | 4.0     | 2.0     | 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     |

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**CANDELA DISTRIBUTION (continued):**

| 85°     |       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  |
|---------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 114.7   | 0°    | 114.7  | 114.7  | 114.7 | 114.7 | 114.7 | 114.7 | 114.7 | 114.7 | 114.7 | 114.7 |
| 106.8   | 2.5°  | 104.8  | 104.8  | 100.9 | 96.9  | 95.0  | 91.0  | 89.0  | 87.0  | 85.1  | 83.1  |
| 114.7   | 5°    | 110.8  | 108.8  | 102.9 | 96.9  | 91.0  | 85.1  | 81.1  | 77.2  | 73.2  | 71.2  |
| 126.6   | 7.5°  | 120.7  | 116.7  | 104.8 | 95.0  | 87.0  | 79.1  | 75.2  | 69.2  | 65.3  | 59.3  |
| 140.5   | 10°   | 132.5  | 124.6  | 108.8 | 96.9  | 85.1  | 75.2  | 69.2  | 63.3  | 57.4  | 49.5  |
| 160.2   | 12.5° | 148.4  | 134.5  | 114.7 | 95.0  | 81.1  | 69.2  | 63.3  | 55.4  | 49.5  | 43.5  |
| 186.0   | 15°   | 162.2  | 144.4  | 116.7 | 95.0  | 77.2  | 63.3  | 55.4  | 47.5  | 41.5  | 33.6  |
| 233.4   | 17.5° | 182.0  | 152.3  | 114.7 | 89.0  | 71.2  | 55.4  | 47.5  | 41.5  | 31.7  | 19.8  |
| 346.2   | 20°   | 215.6  | 158.3  | 110.8 | 83.1  | 61.3  | 45.5  | 35.6  | 27.7  | 13.8  | 4.0   |
| 520.3   | 22.5° | 269.0  | 174.1  | 106.8 | 75.2  | 53.4  | 35.6  | 23.7  | 9.9   | 0.0   | 0.0   |
| 791.3   | 25°   | 371.9  | 201.8  | 106.8 | 71.2  | 47.5  | 25.7  | 7.9   | 0.0   | 0.0   | 0.0   |
| 1123.6  | 27.5° | 494.6  | 239.4  | 106.8 | 61.3  | 37.6  | 13.8  | 0.0   | 0.0   | 0.0   | 0.0   |
| 1531.1  | 30°   | 619.2  | 280.9  | 106.8 | 53.4  | 29.7  | 2.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 1885.2  | 32.5° | 737.9  | 316.5  | 108.8 | 45.5  | 19.8  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 2375.8  | 35°   | 858.5  | 322.5  | 106.8 | 39.6  | 11.9  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 2977.2  | 37.5° | 1012.8 | 310.6  | 100.9 | 35.6  | 5.9   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 3916.9  | 40°   | 1246.3 | 316.5  | 95.0  | 33.6  | 2.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 5592.4  | 42.5° | 1677.5 | 342.2  | 87.0  | 33.6  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 8907.9  | 45°   | 2900.1 | 458.9  | 79.1  | 35.6  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 13372.8 | 47.5° | 4797.2 | 824.9  | 77.2  | 35.6  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 16108.7 | 50°   | 6122.6 | 1038.6 | 81.1  | 37.6  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 16450.9 | 52.5° | 6112.7 | 1157.3 | 85.1  | 39.6  | 7.9   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 15163.1 | 55°   | 5434.2 | 1179.0 | 91.0  | 43.5  | 25.7  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 13030.6 | 57.5° | 4542.0 | 1076.2 | 104.8 | 53.4  | 47.5  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 12696.2 | 58°   | 4383.7 | 1028.7 | 108.8 | 55.4  | 51.4  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 11012.8 | 60°   | 3592.5 | 838.8  | 138.5 | 69.2  | 69.2  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 9028.6  | 62.5° | 2480.7 | 731.9  | 158.3 | 89.0  | 71.2  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 6656.7  | 65°   | 1754.7 | 660.7  | 172.1 | 95.0  | 57.4  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 4729.9  | 67.5° | 1311.6 | 609.3  | 189.9 | 96.9  | 29.7  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 2967.3  | 70°   | 1004.9 | 571.7  | 233.4 | 102.9 | 7.9   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 1768.5  | 72.5° | 819.0  | 528.2  | 282.9 | 106.8 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 1060.3  | 75°   | 678.5  | 476.8  | 273.0 | 116.7 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 565.8   | 77.5° | 451.0  | 369.9  | 249.3 | 116.7 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 201.8   | 80°   | 158.3  | 146.4  | 193.9 | 102.9 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 41.5    | 82.5° | 23.7   | 19.8   | 27.7  | 35.6  | 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   |



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**CANDELA DISTRIBUTION (continued):**

| 180°  |       | 185°  | 195°  | 205°  | 215°  | 225°  | 235°  | 245°  | 255°  | 265°  | 270°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 114.7 | 0°    | 114.7 | 114.7 | 114.7 | 114.7 | 114.7 | 114.7 | 114.7 | 114.7 | 114.7 | 114.7 |
| 81.1  | 2.5°  | 81.1  | 81.1  | 79.1  | 81.1  | 81.1  | 85.1  | 95.0  | 108.8 | 124.6 | 130.6 |
| 69.2  | 5°    | 67.3  | 65.3  | 63.3  | 63.3  | 63.3  | 69.2  | 77.2  | 93.0  | 110.8 | 118.7 |
| 57.4  | 7.5°  | 55.4  | 53.4  | 51.4  | 49.5  | 49.5  | 53.4  | 63.3  | 81.1  | 98.9  | 106.8 |
| 47.5  | 10°   | 45.5  | 41.5  | 39.6  | 37.6  | 37.6  | 41.5  | 51.4  | 69.2  | 89.0  | 96.9  |
| 39.6  | 12.5° | 37.6  | 31.7  | 27.7  | 25.7  | 23.7  | 29.7  | 39.6  | 55.4  | 77.2  | 87.0  |
| 29.7  | 15°   | 25.7  | 19.8  | 13.8  | 11.9  | 9.9   | 15.8  | 25.7  | 43.5  | 65.3  | 77.2  |
| 15.8  | 17.5° | 13.8  | 5.9   | 2.0   | 0.0   | 0.0   | 4.0   | 11.9  | 31.7  | 53.4  | 63.3  |
| 0.0   | 20°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 15.8  | 39.6  | 49.5  |
| 0.0   | 22.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 2.0   | 23.7  | 33.6  |
| 0.0   | 25°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 9.9   | 17.8  |
| 0.0   | 27.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 4.0   |
| 0.0   | 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   |
| 0.0   | 85°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 5.9   |
| 0.0   | 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 7.9   | 15.8  |
| 0.0   | 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |



REPORT NUMBER: P1049705

CATALOG NUMBER: GALN-SA8A-760-U-LBC

**CANDELA DISTRIBUTION (continued):**

| 275°  |       | 285°  | 295°  | 305°  | 315°  | 316°  | 325°  | 335°  | 345°  | 355°  | 360°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 114.7 | 0°    | 114.7 | 114.7 | 114.7 | 114.7 | 114.7 | 114.7 | 114.7 | 114.7 | 114.7 | 114.7  |
| 136.5 | 2.5°  | 140.5 | 138.5 | 134.5 | 130.6 | 130.6 | 130.6 | 136.5 | 142.4 | 148.4 | 148.4  |
| 122.6 | 5°    | 130.6 | 130.6 | 128.6 | 124.6 | 124.6 | 126.6 | 134.5 | 144.4 | 152.3 | 154.3  |
| 112.8 | 7.5°  | 120.7 | 124.6 | 120.7 | 118.7 | 120.7 | 122.6 | 130.6 | 142.4 | 154.3 | 158.3  |
| 104.8 | 10°   | 114.7 | 116.7 | 116.7 | 114.7 | 114.7 | 118.7 | 126.6 | 142.4 | 158.3 | 164.2  |
| 95.0  | 12.5° | 106.8 | 110.8 | 108.8 | 108.8 | 108.8 | 112.8 | 122.6 | 140.5 | 162.2 | 170.1  |
| 85.1  | 15°   | 98.9  | 104.8 | 104.8 | 102.9 | 102.9 | 104.8 | 118.7 | 138.5 | 168.1 | 182.0  |
| 73.2  | 17.5° | 91.0  | 96.9  | 98.9  | 95.0  | 95.0  | 98.9  | 112.8 | 138.5 | 172.1 | 195.8  |
| 59.3  | 20°   | 75.2  | 85.1  | 91.0  | 85.1  | 85.1  | 89.0  | 102.9 | 130.6 | 174.1 | 209.7  |
| 43.5  | 22.5° | 59.3  | 69.2  | 77.2  | 75.2  | 75.2  | 77.2  | 95.0  | 124.6 | 176.1 | 233.4  |
| 25.7  | 25°   | 43.5  | 53.4  | 59.3  | 63.3  | 63.3  | 69.2  | 87.0  | 120.7 | 184.0 | 282.9  |
| 11.9  | 27.5° | 25.7  | 37.6  | 45.5  | 49.5  | 51.4  | 59.3  | 81.1  | 116.7 | 197.8 | 354.1  |
| 0.0   | 30°   | 11.9  | 21.8  | 31.7  | 39.6  | 39.6  | 53.4  | 75.2  | 112.8 | 215.6 | 457.0  |
| 0.0   | 32.5° | 0.0   | 9.9   | 15.8  | 27.7  | 29.7  | 43.5  | 69.2  | 108.8 | 241.3 | 555.9  |
| 0.0   | 35°   | 0.0   | 0.0   | 7.9   | 21.8  | 21.8  | 35.6  | 63.3  | 104.8 | 280.9 | 631.1  |
| 0.0   | 37.5° | 0.0   | 0.0   | 0.0   | 15.8  | 17.8  | 31.7  | 61.3  | 102.9 | 288.8 | 637.0  |
| 0.0   | 40°   | 0.0   | 0.0   | 0.0   | 11.9  | 13.8  | 29.7  | 61.3  | 104.8 | 261.1 | 623.1  |
| 0.0   | 42.5° | 0.0   | 0.0   | 0.0   | 7.9   | 9.9   | 29.7  | 61.3  | 108.8 | 235.4 | 639.0  |
| 0.0   | 45°   | 0.0   | 0.0   | 0.0   | 5.9   | 7.9   | 31.7  | 59.3  | 106.8 | 221.6 | 722.1  |
| 0.0   | 47.5° | 0.0   | 0.0   | 0.0   | 7.9   | 11.9  | 31.7  | 57.4  | 104.8 | 223.5 | 997.0  |
| 0.0   | 50°   | 0.0   | 0.0   | 0.0   | 9.9   | 13.8  | 31.7  | 59.3  | 100.9 | 245.3 | 1533.1 |
| 0.0   | 52.5° | 0.0   | 0.0   | 0.0   | 7.9   | 11.9  | 35.6  | 65.3  | 98.9  | 267.1 | 1994.0 |
| 0.0   | 55°   | 0.0   | 0.0   | 0.0   | 2.0   | 5.9   | 45.5  | 71.2  | 98.9  | 300.7 | 2108.8 |
| 0.0   | 57.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 51.4  | 81.1  | 104.8 | 356.1 | 2063.3 |
| 0.0   | 58°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 51.4  | 83.1  | 104.8 | 360.0 | 2023.7 |
| 0.0   | 60°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 51.4  | 91.0  | 116.7 | 387.7 | 1802.2 |
| 0.0   | 62.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 43.5  | 108.8 | 146.4 | 403.6 | 1416.4 |
| 0.0   | 65°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 35.6  | 128.6 | 160.2 | 415.4 | 1127.6 |
| 0.0   | 67.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 33.6  | 132.5 | 162.2 | 421.4 | 898.1  |
| 0.0   | 70°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 35.6  | 130.6 | 174.1 | 441.1 | 730.0  |
| 0.0   | 72.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 39.6  | 118.7 | 191.9 | 441.1 | 646.9  |
| 0.0   | 75°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 41.5  | 110.8 | 215.6 | 401.6 | 559.8  |
| 0.0   | 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 39.6  | 108.8 | 251.2 | 358.1 | 460.9  |
| 0.0   | 80°   | 4.0   | 5.9   | 5.9   | 4.0   | 4.0   | 33.6  | 106.8 | 255.2 | 304.6 | 316.5  |
| 2.0   | 82.5° | 11.9  | 15.8  | 13.8  | 9.9   | 9.9   | 29.7  | 95.0  | 213.6 | 158.3 | 136.5  |
| 11.9  | 85°   | 21.8  | 25.7  | 25.7  | 21.8  | 21.8  | 27.7  | 59.3  | 77.2  | 53.4  | 43.5   |
| 21.8  | 87.5° | 29.7  | 33.6  | 33.6  | 29.7  | 29.7  | 27.7  | 25.7  | 23.7  | 21.8  | 21.8   |
| 0.0   | 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |

(END OF RI



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

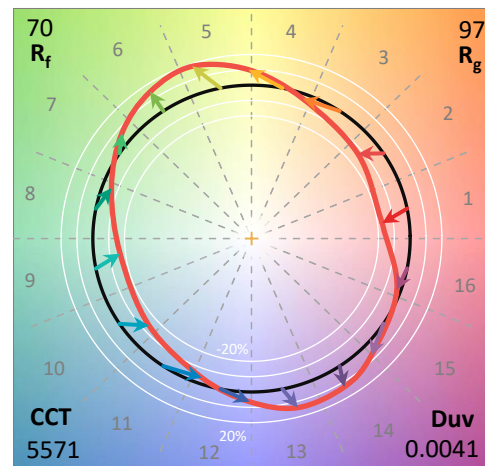
Data in this report applies to families of products including GSS-SB1A-757-U-5WQ

### 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

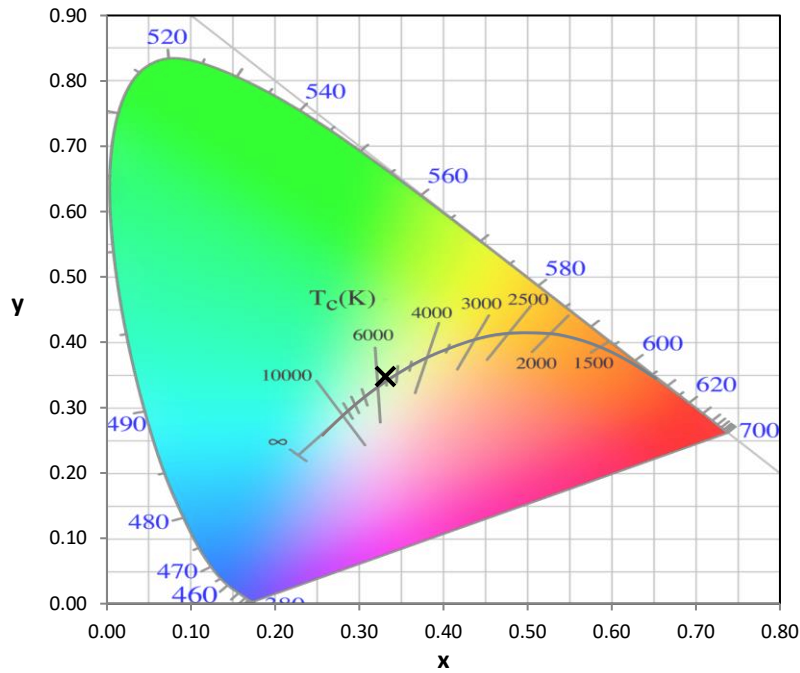
Stabilization Time: 20M  
 Operation Time: 1H 20M  
 Sphere Temperature (°C): 25.2

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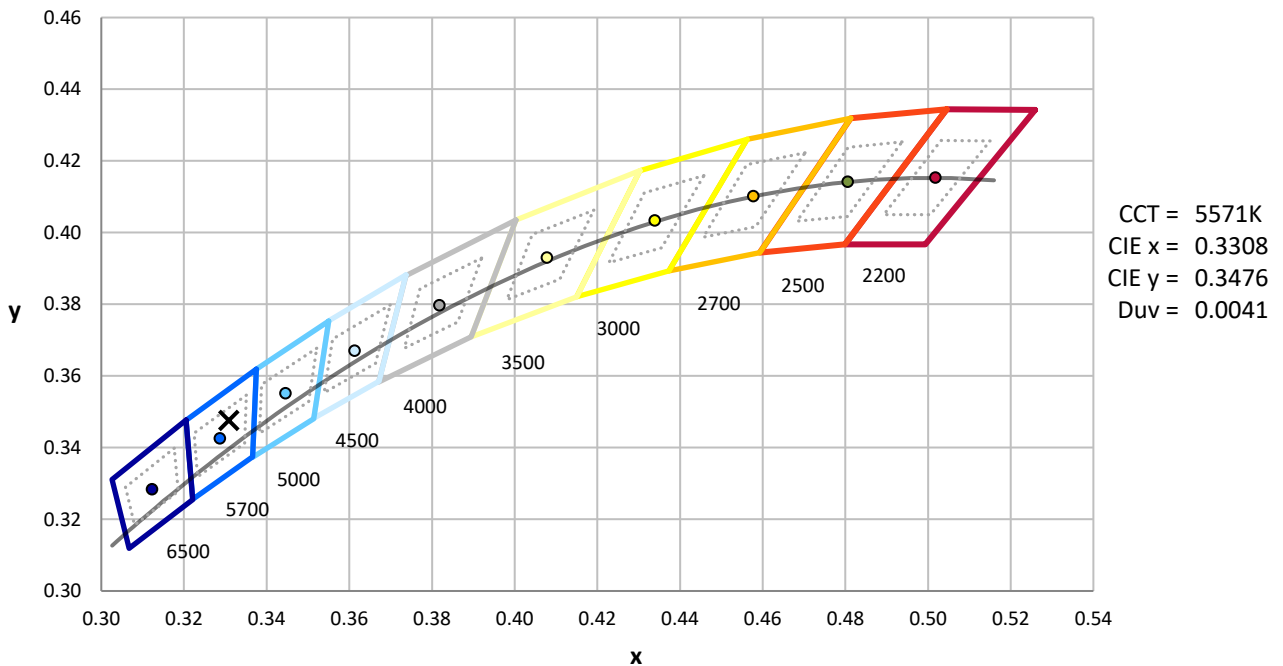
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| 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**



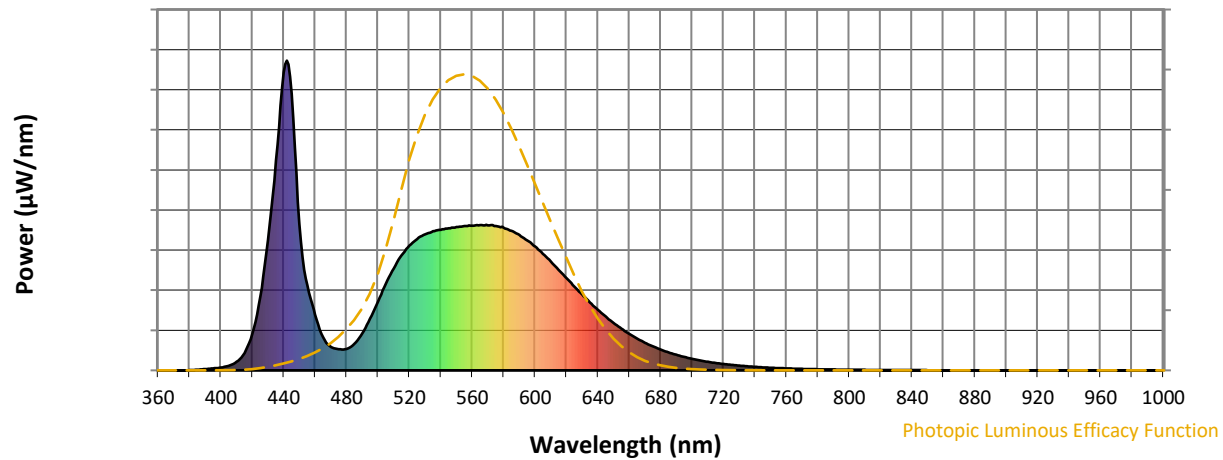
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 5700K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-7

### Photopic Flux vs. Wavelength



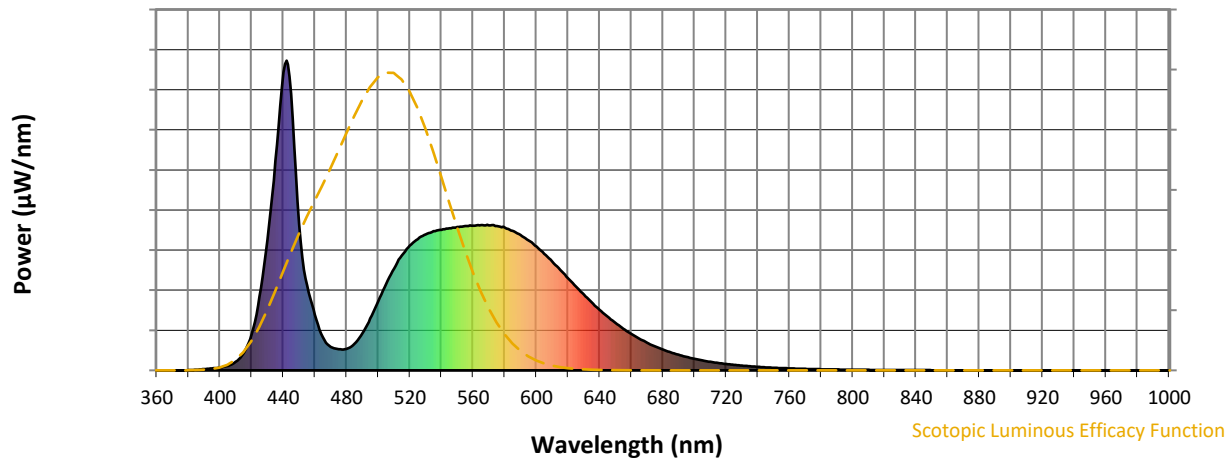
### Photopic Lumens: NR

| $\lambda$<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                             |                   |                                      |                                |



REPORT NUMBER: SP1-2407-184-7

### Scotopic Flux vs. Wavelength



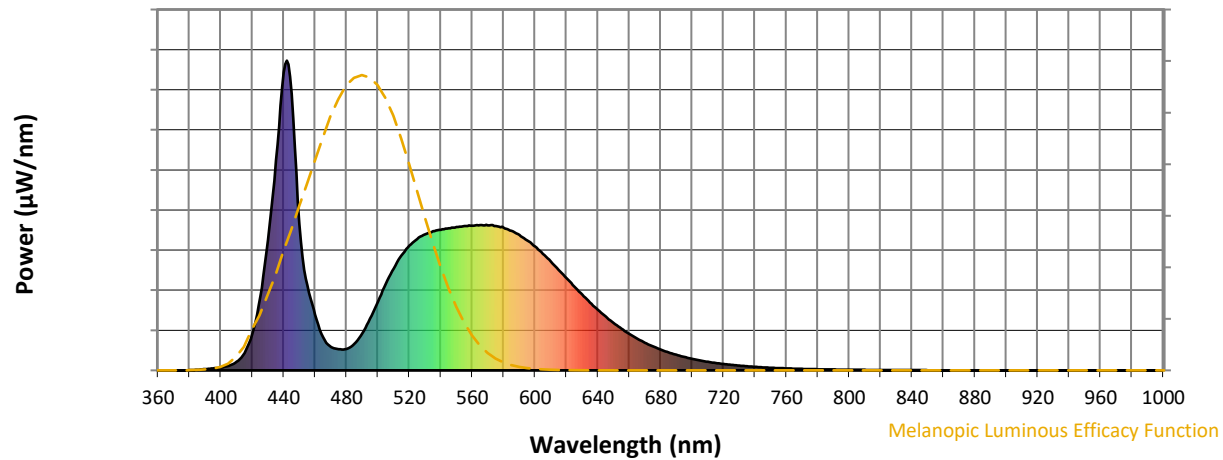
Scotopic Lumens: NR

S/P: 1.84

| λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>W <sup>λ</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**

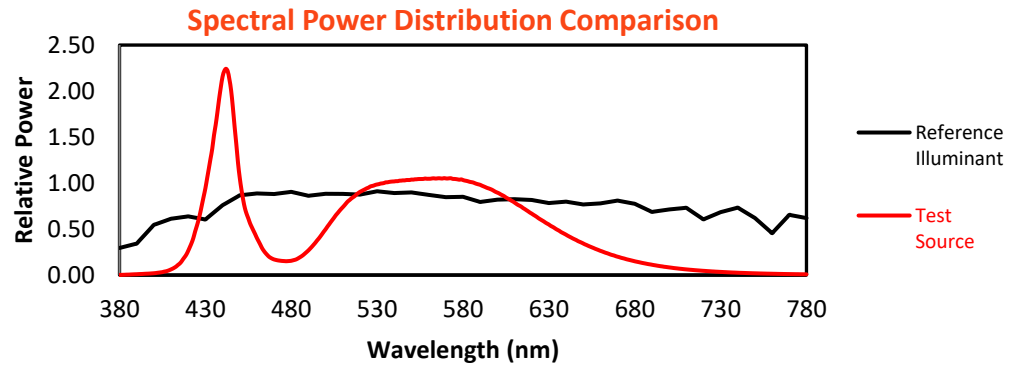
| $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<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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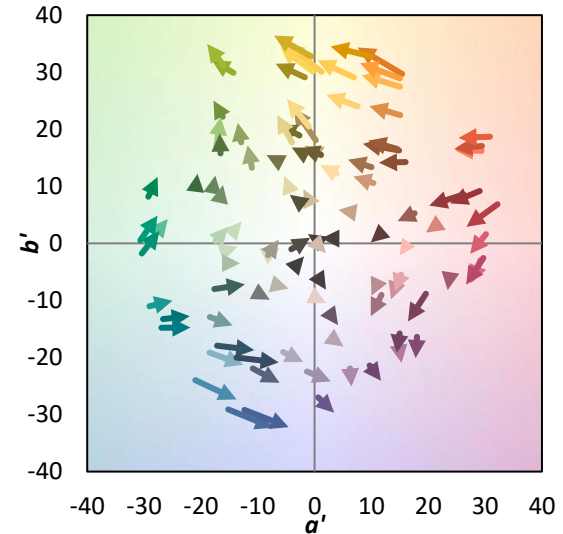
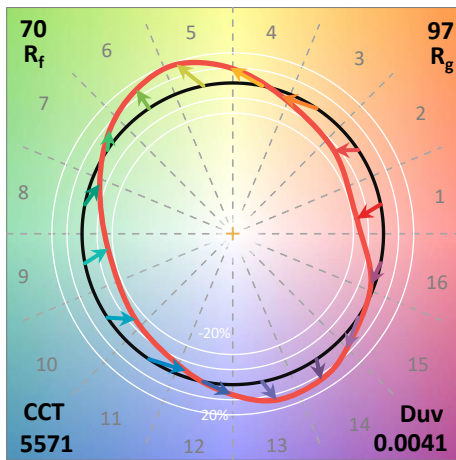
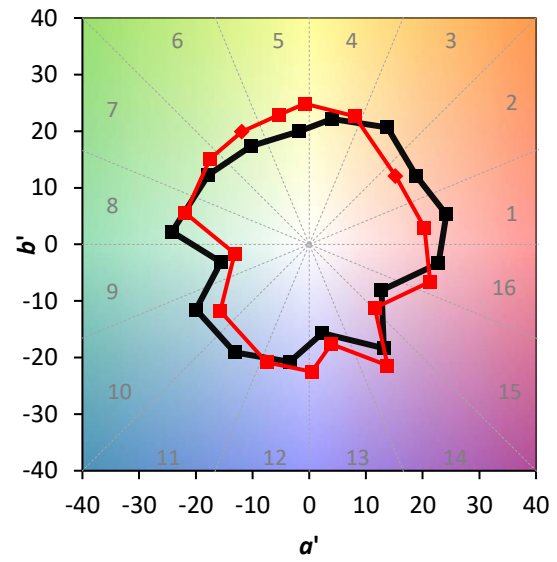
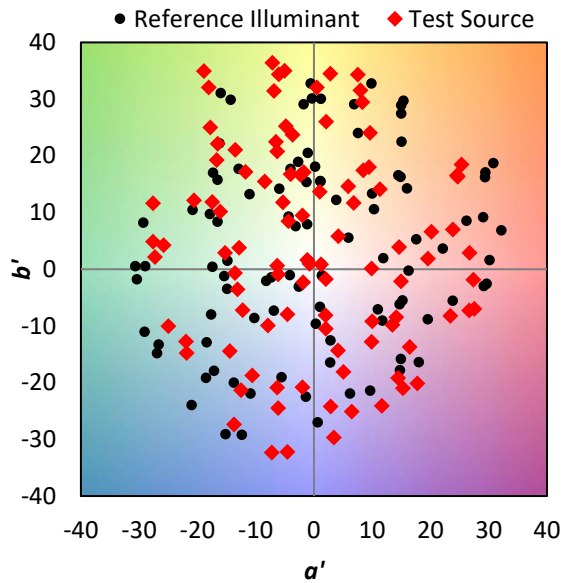
TM-30-18

### Summary

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

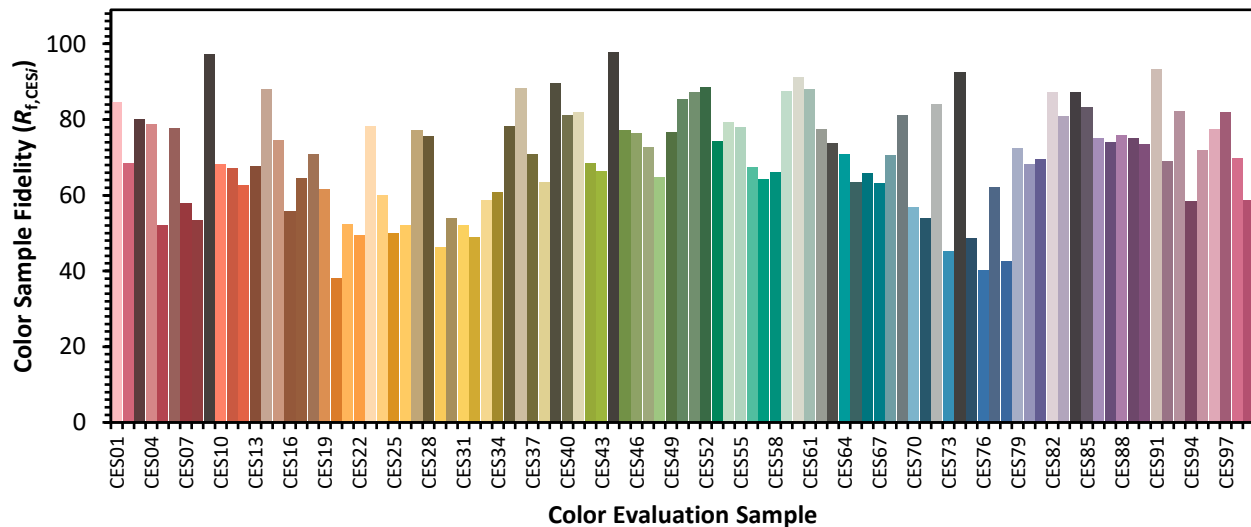


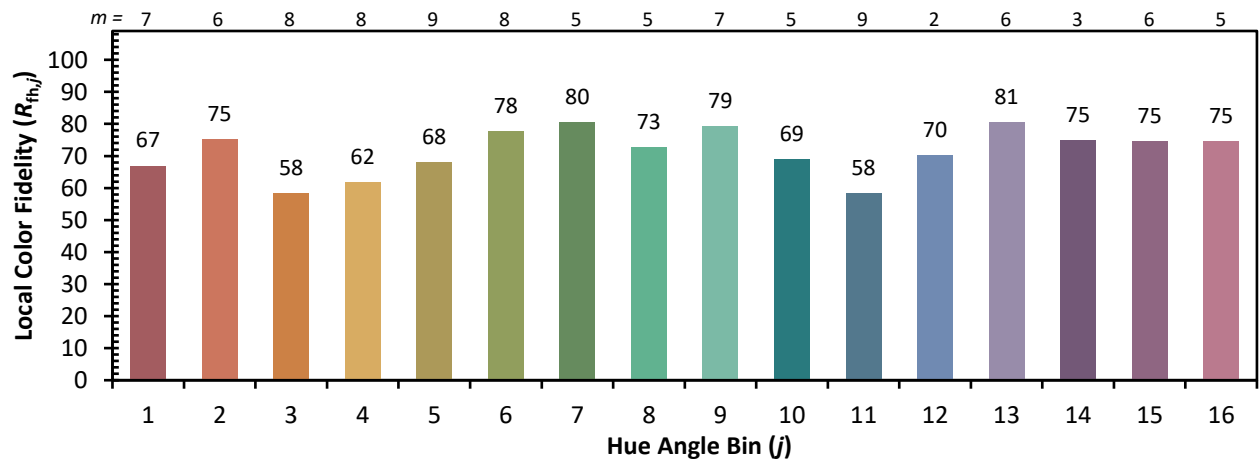
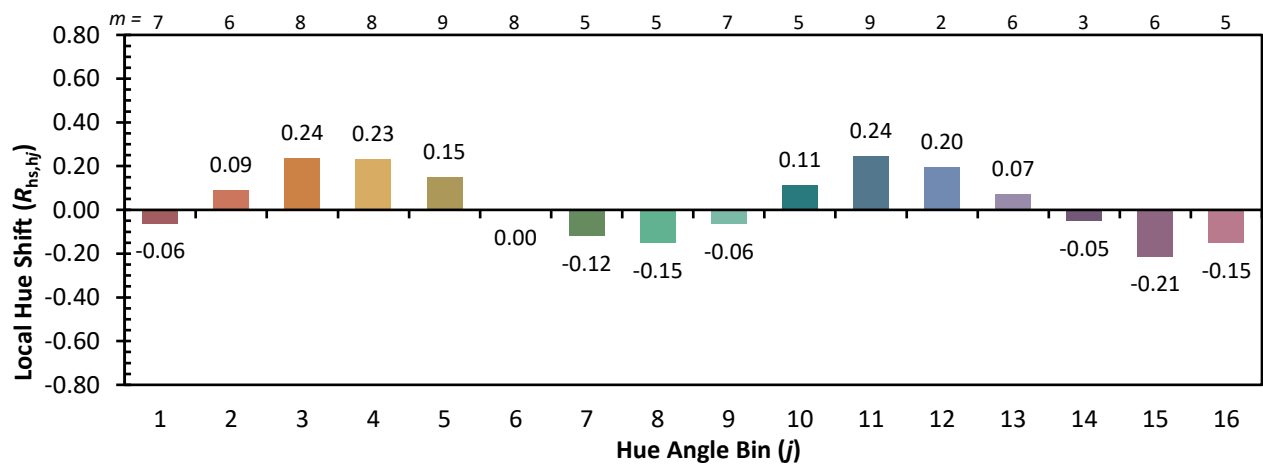
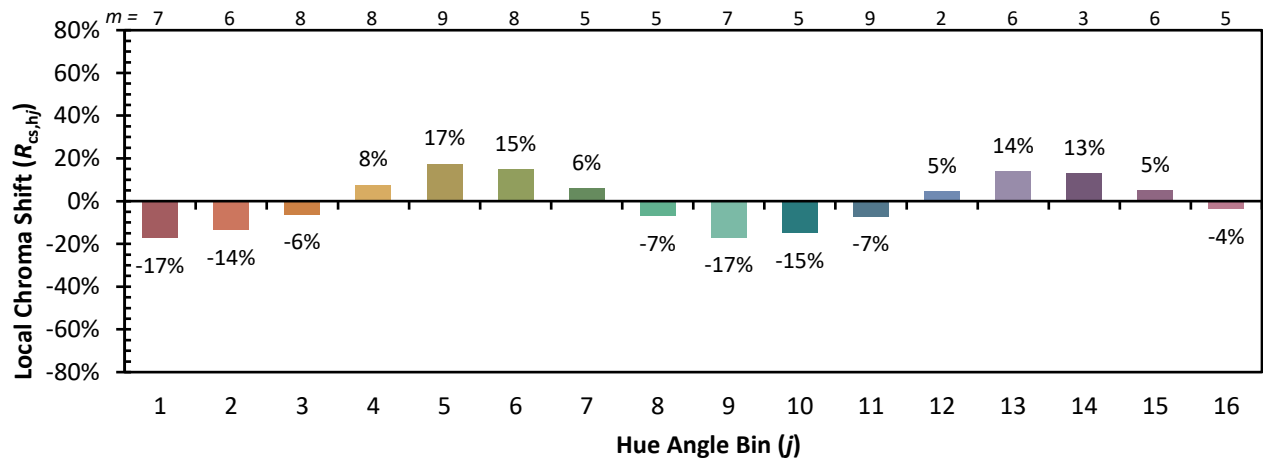
### Color Vector Graphics



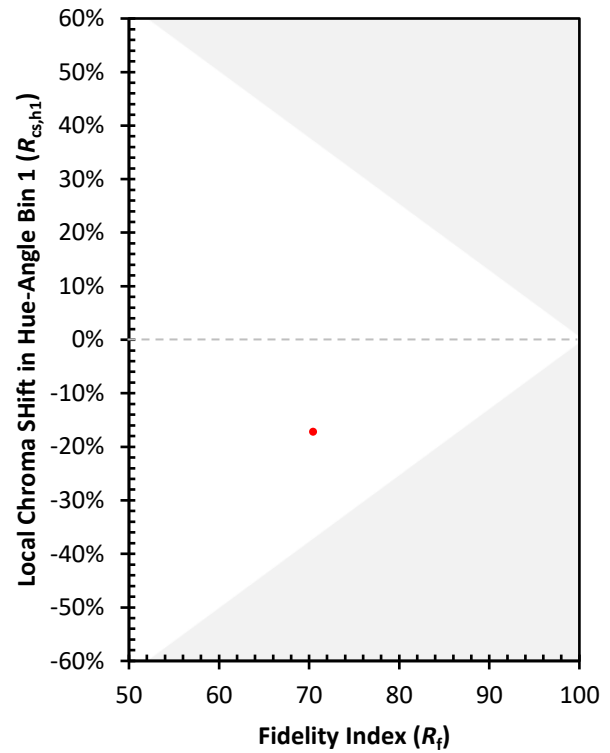
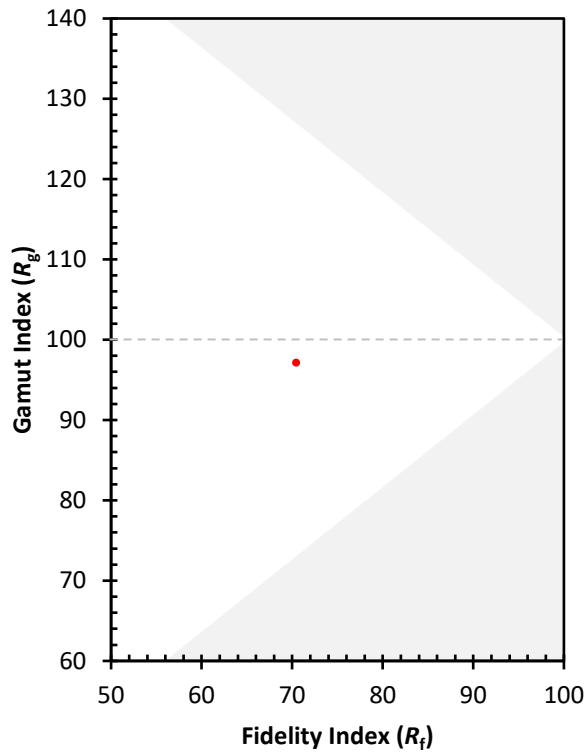
**Individual Sample Fidelity Index ( $R_{f,i}$ )**

|            |            |            |            |
|------------|------------|------------|------------|
| 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)