

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



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

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P1065307

Luminaire Tested: **GLAN-SA8C-750-U-LBC**

Issue Date: 08/07/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1065307  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 08/07/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8C-750-U-LBC  
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 8xLight Square PACKAGE  
70CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL  
Light Source: (112) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40407.5 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G5

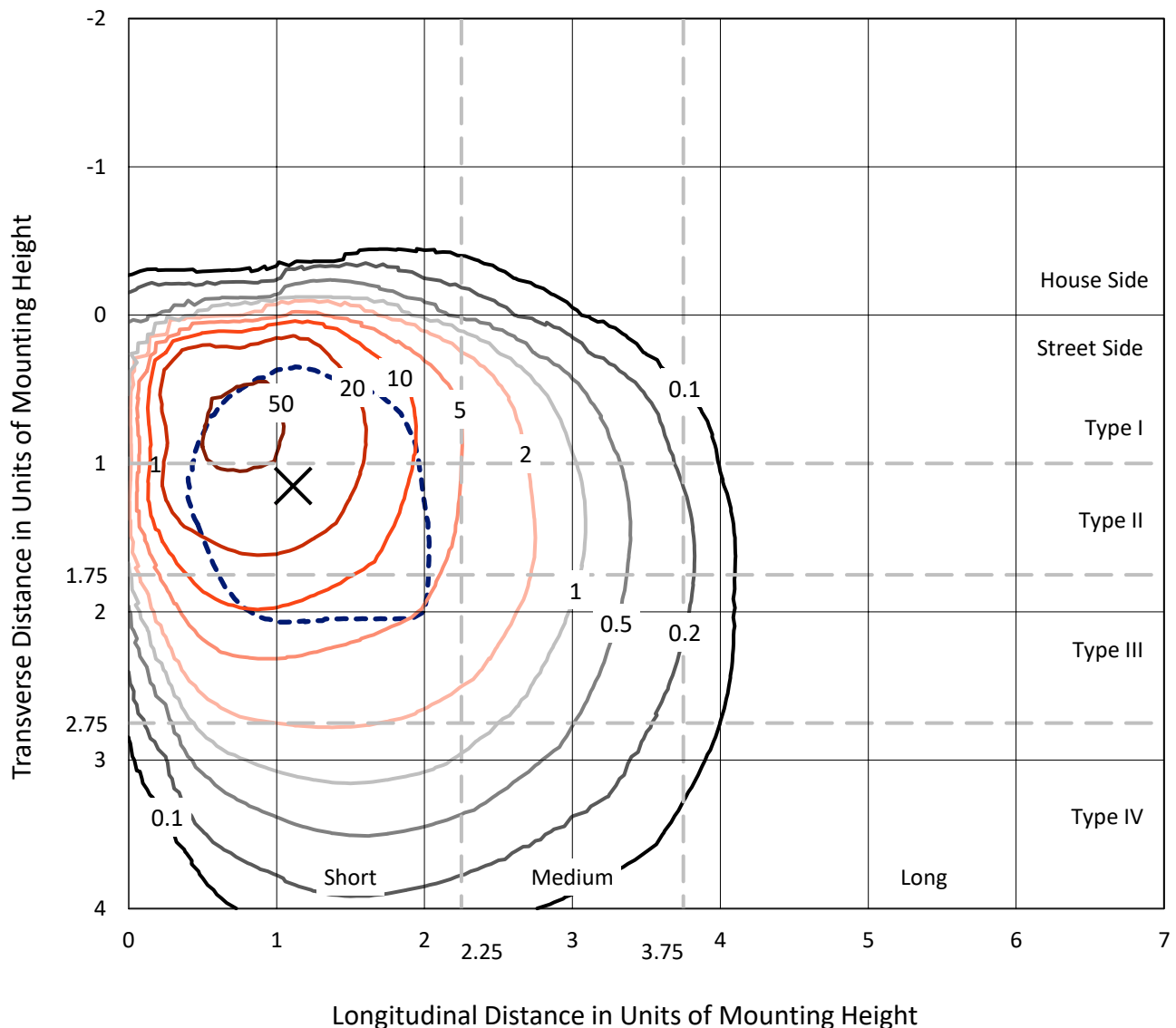
Input Watts (W): 372.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.97  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

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## Iso-Footcandle Lines of Horizontal Illumination

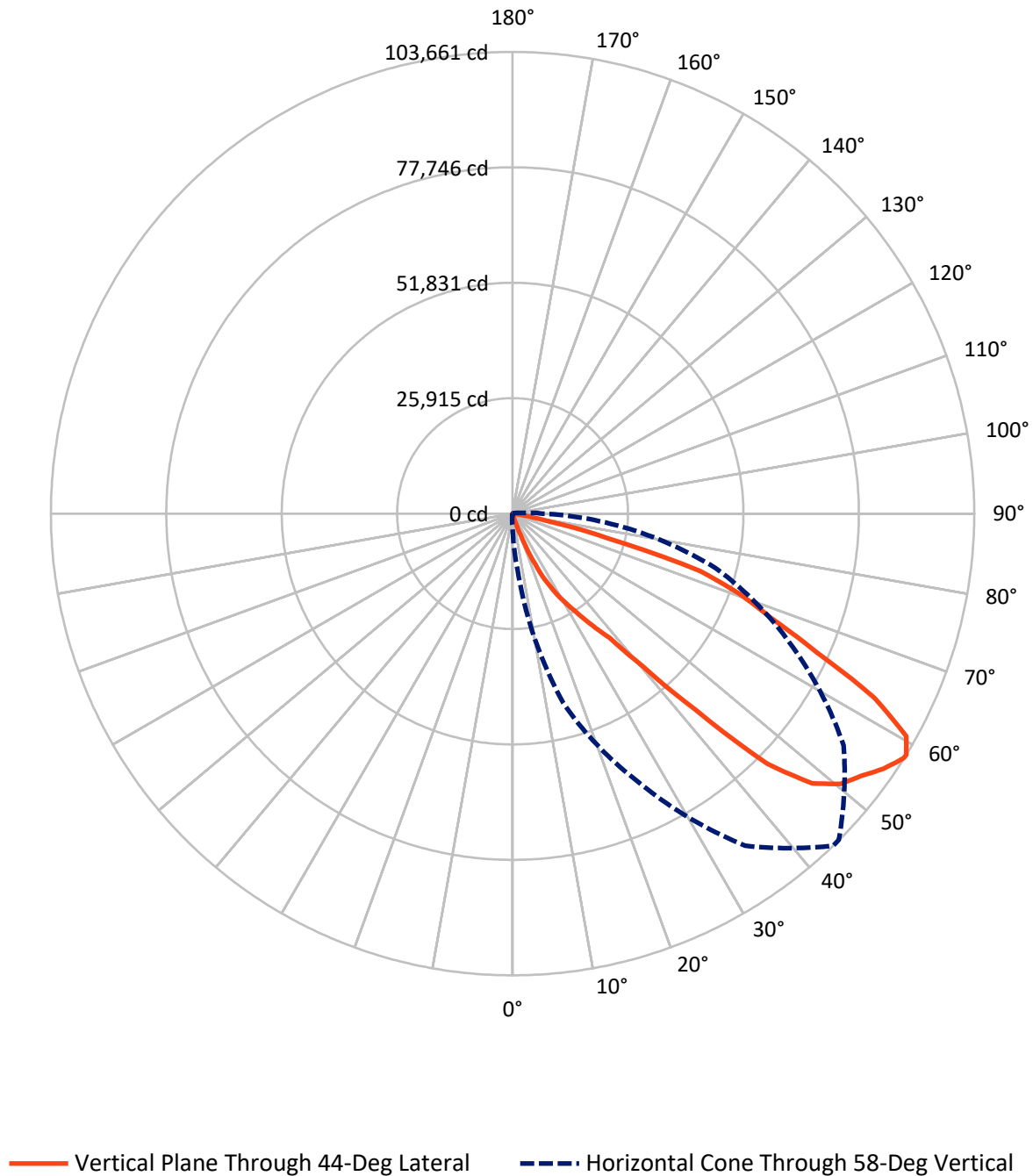
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 70.3 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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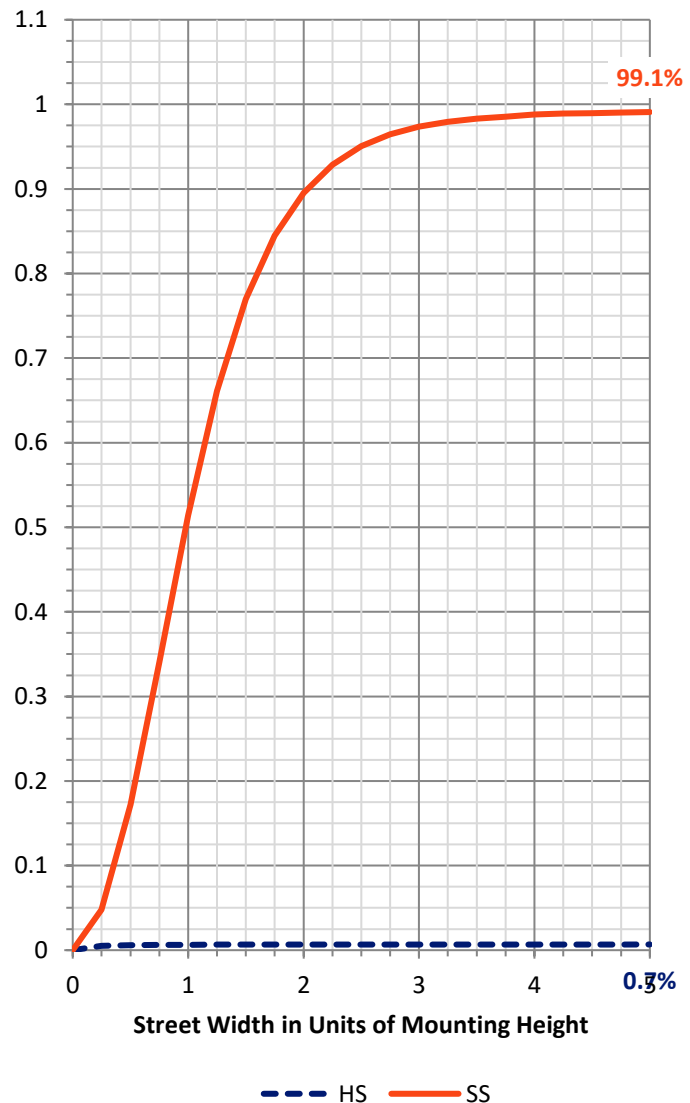
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 275.9    | 0.0    | 275.9   |
|                    | % Fixture | 0.7      | 0.0    | 0.7     |
| <b>Street Side</b> | Lumens    | 40131.6  | 0.0    | 40131.6 |
|                    | % Fixture | 99.3     | 0.0    | 99.3    |
| <b>Total</b>       | Lumens    | 40407.5  | 0.0    | 40407.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 15.8    | 0.0       |
| 10°-20°   | 88.6    | 0.2       |
| 20°-30°   | 957.3   | 2.4       |
| 30°-40°   | 2830.9  | 7.0       |
| 40°-50°   | 8437.7  | 20.9      |
| 50°-60°   | 13388.6 | 33.1      |
| 60°-70°   | 11167.7 | 27.6      |
| 70°-80°   | 3444.3  | 8.5       |
| 80°-90°   | 76.5    | 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°    | 40407.5 | 100.0     |
| 0°-180°   | 40407.5 | 100.0     |



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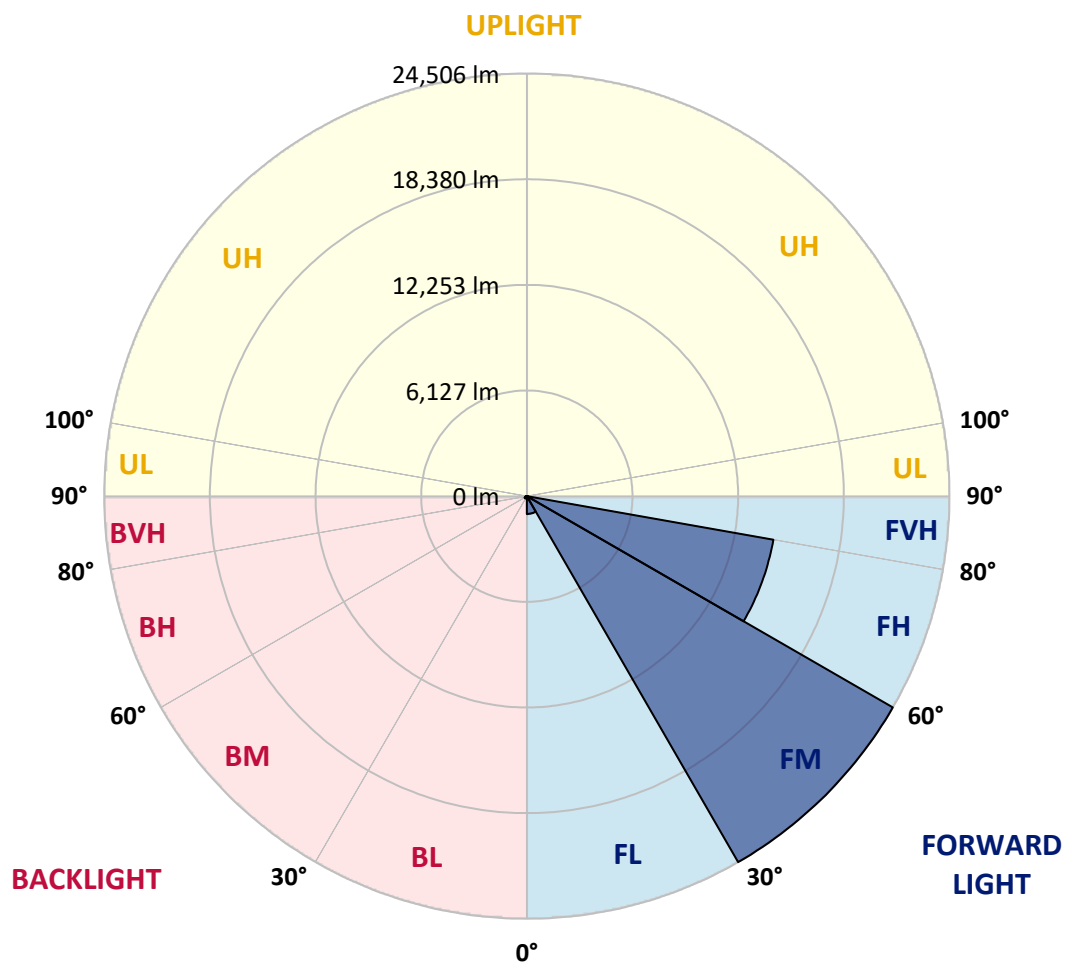
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|---------|-----------|-------------------------|------|--------|
|      |             |         |           | B                       | U    | G      |
| FL   | (0°-30°)    | 1034.7  | 2.6       |                         |      |        |
| FM   | (30°-60°)   | 24506.3 | 60.6      |                         |      |        |
| FH   | (60°-80°)   | 14517.8 | 35.9      |                         |      | G5     |
| FVH  | (80°-90°)   | 72.8    | 0.2       |                         |      | G1/100 |
| BL   | (0°-30°)    | 27.0    | 0.1       | B0/110                  |      |        |
| BM   | (30°-60°)   | 151.0   | 0.4       | B0/220                  |      |        |
| BH   | (60°-80°)   | 94.2    | 0.2       | B0/110                  |      | G0/110 |
| BVH  | (80°-90°)   | 3.7     | 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-G5**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°      | 15°     | 25°     | 35°     | 44°      | 45°      | 55°     | 65°     | 75°     |
|-------|--------|---------|---------|---------|---------|----------|----------|---------|---------|---------|
| 0°    | 177.0  | 177.0   | 177.0   | 177.0   | 177.0   | 177.0    | 177.0    | 177.0   | 177.0   | 177.0   |
| 2.5°  | 228.9  | 228.9   | 219.8   | 207.6   | 195.4   | 183.1    | 180.1    | 174.0   | 170.9   | 167.9   |
| 5°    | 238.1  | 238.1   | 235.0   | 225.9   | 213.7   | 204.5    | 204.5    | 195.4   | 189.3   | 183.1   |
| 7.5°  | 244.2  | 247.2   | 253.4   | 250.3   | 244.2   | 235.0    | 235.0    | 228.9   | 219.8   | 204.5   |
| 10°   | 253.4  | 262.5   | 274.7   | 280.8   | 283.9   | 283.9    | 280.8    | 277.8   | 262.5   | 241.1   |
| 12.5° | 262.5  | 280.8   | 311.3   | 341.9   | 360.2   | 384.6    | 381.6    | 375.5   | 335.8   | 290.0   |
| 15°   | 280.8  | 308.3   | 372.4   | 460.9   | 598.3   | 683.7    | 717.3    | 686.8   | 555.5   | 390.7   |
| 17.5° | 302.2  | 348.0   | 540.3   | 964.6   | 1581.2  | 1874.2   | 2051.2   | 1907.8  | 1263.7  | 741.7   |
| 20°   | 323.6  | 424.3   | 1004.3  | 2500.0  | 4102.5  | 5061.0   | 5326.5   | 4911.4  | 3153.2  | 1413.3  |
| 22.5° | 360.2  | 595.2   | 2036.0  | 5167.8  | 8839.9  | 10277.6  | 10549.2  | 9221.4  | 5955.3  | 2789.9  |
| 25°   | 436.5  | 863.8   | 3510.3  | 8421.7  | 13192.7 | 15619.4  | 15506.4  | 13766.5 | 9661.0  | 4456.6  |
| 27.5° | 546.4  | 1257.6  | 5308.2  | 11965.6 | 17362.3 | 19502.1  | 19758.5  | 17606.5 | 12878.3 | 6553.6  |
| 30°   | 705.1  | 1742.9  | 7237.3  | 14804.4 | 20704.7 | 23018.5  | 23061.2  | 20836.0 | 15756.7 | 8394.2  |
| 32.5° | 857.7  | 2200.8  | 8925.3  | 17548.5 | 23998.3 | 26534.9  | 26724.2  | 23986.1 | 17905.6 | 10311.2 |
| 35°   | 973.7  | 2500.0  | 10634.7 | 19959.9 | 27319.4 | 30814.4  | 30802.2  | 27551.4 | 20451.4 | 12023.6 |
| 37.5° | 982.9  | 2799.1  | 12182.3 | 22426.3 | 31525.6 | 35438.9  | 35826.5  | 32243.0 | 23528.2 | 14142.0 |
| 40°   | 961.5  | 3134.9  | 14142.0 | 26272.4 | 39104.9 | 45109.0  | 45450.9  | 40933.3 | 29700.3 | 17768.3 |
| 42.5° | 985.9  | 3717.9  | 17322.6 | 33375.4 | 51690.1 | 60313.3  | 60972.6  | 56223.0 | 41046.2 | 25167.4 |
| 45°   | 1114.1 | 4813.7  | 23986.1 | 45258.6 | 69629.3 | 80141.9  | 79922.2  | 73081.6 | 54248.0 | 36430.9 |
| 47.5° | 1538.4 | 7496.8  | 33863.8 | 56824.3 | 81094.3 | 90456.1  | 90645.4  | 82284.7 | 61952.4 | 45090.7 |
| 50°   | 2365.6 | 11471.1 | 42163.4 | 62938.4 | 86024.0 | 95416.4  | 95239.3  | 85578.3 | 64879.7 | 49355.0 |
| 52.5° | 3076.9 | 14346.5 | 46327.0 | 65084.2 | 86655.8 | 97867.5  | 97855.3  | 86445.2 | 65334.5 | 49721.3 |
| 55°   | 3253.9 | 14563.2 | 46360.5 | 65200.2 | 88072.2 | 101075.6 | 101478.5 | 88578.9 | 65923.6 | 48121.8 |
| 57.5° | 3183.7 | 12893.5 | 44425.3 | 65871.8 | 90593.5 | 103557.2 | 103578.6 | 90645.4 | 67419.3 | 47142.0 |
| 58°   | 3122.7 | 12631.0 | 44034.6 | 66253.3 | 91026.9 | 103661.0 | 103609.1 | 90740.0 | 68637.3 | 47105.3 |
| 60°   | 2780.8 | 10967.4 | 42511.4 | 67227.0 | 90382.9 | 101530.4 | 101045.1 | 88673.5 | 68457.2 | 46729.9 |
| 62.5° | 2185.6 | 8556.0  | 41012.6 | 66100.7 | 83478.3 | 91216.2  | 91417.7  | 78505.8 | 62407.2 | 44541.3 |
| 65°   | 1739.9 | 6376.6  | 37886.9 | 57981.2 | 68741.1 | 74907.0  | 75657.9  | 63838.8 | 52090.0 | 37716.0 |
| 67.5° | 1385.8 | 4609.2  | 31782.1 | 46162.1 | 54394.6 | 62517.1  | 63063.5  | 53597.9 | 40356.4 | 28897.5 |
| 70°   | 1126.4 | 3116.5  | 21937.9 | 33760.0 | 44864.8 | 53997.7  | 54031.3  | 44526.0 | 30121.5 | 18934.3 |
| 72.5° | 998.1  | 2158.1  | 12734.8 | 24621.0 | 36379.0 | 44001.0  | 43112.7  | 36131.8 | 23149.7 | 11214.7 |
| 75°   | 863.8  | 1431.6  | 6245.3  | 15051.6 | 22057.0 | 22206.5  | 22545.4  | 16761.0 | 11571.8 | 5332.6  |
| 77.5° | 711.2  | 1016.5  | 2460.3  | 4111.6  | 6614.6  | 8467.5   | 8781.9   | 6654.3  | 3849.1  | 1312.6  |
| 80°   | 488.4  | 482.3   | 662.4   | 1260.7  | 1892.5  | 2371.7   | 2213.0   | 1712.4  | 1007.3  | 503.7   |
| 82.5° | 210.6  | 228.9   | 299.1   | 360.2   | 293.0   | 283.9    | 271.7    | 174.0   | 134.3   | 103.8   |
| 85°   | 67.2   | 61.0    | 64.1    | 64.1    | 51.9    | 39.7     | 39.7     | 18.3    | 0.0     | 0.0     |
| 87.5° | 33.6   | 27.5    | 27.5    | 24.4    | 15.3    | 6.1      | 3.1      | 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°  |
|---------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 177.0   | 0°    | 177.0  | 177.0  | 177.0 | 177.0 | 177.0 | 177.0 | 177.0 | 177.0 | 177.0 | 177.0 |
| 164.8   | 2.5°  | 161.8  | 161.8  | 155.7 | 149.6 | 146.5 | 140.4 | 137.4 | 134.3 | 131.3 | 128.2 |
| 177.0   | 5°    | 170.9  | 167.9  | 158.7 | 149.6 | 140.4 | 131.3 | 125.2 | 119.0 | 112.9 | 109.9 |
| 195.4   | 7.5°  | 186.2  | 180.1  | 161.8 | 146.5 | 134.3 | 122.1 | 116.0 | 106.8 | 100.7 | 91.6  |
| 216.7   | 10°   | 204.5  | 192.3  | 167.9 | 149.6 | 131.3 | 116.0 | 106.8 | 97.7  | 88.5  | 76.3  |
| 247.2   | 12.5° | 228.9  | 207.6  | 177.0 | 146.5 | 125.2 | 106.8 | 97.7  | 85.5  | 76.3  | 67.2  |
| 286.9   | 15°   | 250.3  | 222.8  | 180.1 | 146.5 | 119.0 | 97.7  | 85.5  | 73.3  | 64.1  | 51.9  |
| 360.2   | 17.5° | 280.8  | 235.0  | 177.0 | 137.4 | 109.9 | 85.5  | 73.3  | 64.1  | 48.8  | 30.5  |
| 534.2   | 20°   | 332.7  | 244.2  | 170.9 | 128.2 | 94.6  | 70.2  | 54.9  | 42.7  | 21.4  | 6.1   |
| 802.8   | 22.5° | 415.1  | 268.6  | 164.8 | 116.0 | 82.4  | 54.9  | 36.6  | 15.3  | 0.0   | 0.0   |
| 1221.0  | 25°   | 573.9  | 311.3  | 164.8 | 109.9 | 73.3  | 39.7  | 12.2  | 0.0   | 0.0   | 0.0   |
| 1733.8  | 27.5° | 763.1  | 369.3  | 164.8 | 94.6  | 58.0  | 21.4  | 0.0   | 0.0   | 0.0   | 0.0   |
| 2362.6  | 30°   | 955.4  | 433.4  | 164.8 | 82.4  | 45.8  | 3.1   | 0.0   | 0.0   | 0.0   | 0.0   |
| 2909.0  | 32.5° | 1138.6 | 488.4  | 167.9 | 70.2  | 30.5  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 3666.0  | 35°   | 1324.8 | 497.5  | 164.8 | 61.0  | 18.3  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 4593.9  | 37.5° | 1562.9 | 479.2  | 155.7 | 54.9  | 9.2   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 6043.8  | 40°   | 1923.0 | 488.4  | 146.5 | 51.9  | 3.1   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 8629.3  | 42.5° | 2588.5 | 528.1  | 134.3 | 51.9  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 13745.2 | 45°   | 4474.9 | 708.2  | 122.1 | 54.9  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 20634.5 | 47.5° | 7402.2 | 1272.9 | 119.0 | 54.9  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 24856.1 | 50°   | 9447.3 | 1602.5 | 125.2 | 58.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 25384.1 | 52.5° | 9432.1 | 1785.7 | 131.3 | 61.0  | 12.2  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 23397.0 | 55°   | 8385.1 | 1819.3 | 140.4 | 67.2  | 39.7  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 20106.5 | 57.5° | 7008.4 | 1660.5 | 161.8 | 82.4  | 73.3  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 19590.6 | 58°   | 6764.2 | 1587.3 | 167.9 | 85.5  | 79.4  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 16993.0 | 60°   | 5543.2 | 1294.2 | 213.7 | 106.8 | 106.8 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 13931.4 | 62.5° | 3827.8 | 1129.4 | 244.2 | 137.4 | 109.9 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 10271.5 | 65°   | 2707.5 | 1019.5 | 265.6 | 146.5 | 88.5  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 7298.4  | 67.5° | 2023.8 | 940.2  | 293.0 | 149.6 | 45.8  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 4578.7  | 70°   | 1550.6 | 882.2  | 360.2 | 158.7 | 12.2  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 2728.9  | 72.5° | 1263.7 | 815.0  | 436.5 | 164.8 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 1636.1  | 75°   | 1047.0 | 735.6  | 421.2 | 180.1 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 873.0   | 77.5° | 696.0  | 570.8  | 384.6 | 180.1 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 311.3   | 80°   | 244.2  | 225.9  | 299.1 | 158.7 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 64.1    | 82.5° | 36.6   | 30.5   | 42.7  | 54.9  | 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°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 177.0 | 0°    | 177.0 | 177.0 | 177.0 | 177.0 | 177.0 | 177.0 | 177.0 | 177.0 | 177.0 | 177.0 |
| 125.2 | 2.5°  | 125.2 | 125.2 | 122.1 | 125.2 | 125.2 | 131.3 | 146.5 | 167.9 | 192.3 | 201.5 |
| 106.8 | 5°    | 103.8 | 100.7 | 97.7  | 97.7  | 97.7  | 106.8 | 119.0 | 143.5 | 170.9 | 183.1 |
| 88.5  | 7.5°  | 85.5  | 82.4  | 79.4  | 76.3  | 76.3  | 82.4  | 97.7  | 125.2 | 152.6 | 164.8 |
| 73.3  | 10°   | 70.2  | 64.1  | 61.0  | 58.0  | 58.0  | 64.1  | 79.4  | 106.8 | 137.4 | 149.6 |
| 61.0  | 12.5° | 58.0  | 48.8  | 42.7  | 39.7  | 36.6  | 45.8  | 61.0  | 85.5  | 119.0 | 134.3 |
| 45.8  | 15°   | 39.7  | 30.5  | 21.4  | 18.3  | 15.3  | 24.4  | 39.7  | 67.2  | 100.7 | 119.0 |
| 24.4  | 17.5° | 21.4  | 9.2   | 3.1   | 0.0   | 0.0   | 6.1   | 18.3  | 48.8  | 82.4  | 97.7  |
| 0.0   | 20°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 24.4  | 61.0  | 76.3  |
| 0.0   | 22.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 3.1   | 36.6  | 51.9  |
| 0.0   | 25°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 15.3  | 27.5  |
| 0.0   | 27.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 6.1   |
| 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   | 9.2   |
| 0.0   | 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 12.2  | 24.4  |
| 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: P1065307

CATALOG NUMBER: GLAN-SA8C-750-U-LBC

**CANDELA DISTRIBUTION (continued):**

| 275°  |       | 285°  | 295°  | 305°  | 315°  | 316°  | 325°  | 335°  | 345°  | 355°  | 360°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 177.0 | 0°    | 177.0 | 177.0 | 177.0 | 177.0 | 177.0 | 177.0 | 177.0 | 177.0 | 177.0 | 177.0  |
| 210.6 | 2.5°  | 216.7 | 213.7 | 207.6 | 201.5 | 201.5 | 201.5 | 210.6 | 219.8 | 228.9 | 228.9  |
| 189.3 | 5°    | 201.5 | 201.5 | 198.4 | 192.3 | 192.3 | 195.4 | 207.6 | 222.8 | 235.0 | 238.1  |
| 174.0 | 7.5°  | 186.2 | 192.3 | 186.2 | 183.1 | 186.2 | 189.3 | 201.5 | 219.8 | 238.1 | 244.2  |
| 161.8 | 10°   | 177.0 | 180.1 | 180.1 | 177.0 | 177.0 | 183.1 | 195.4 | 219.8 | 244.2 | 253.4  |
| 146.5 | 12.5° | 164.8 | 170.9 | 167.9 | 167.9 | 167.9 | 174.0 | 189.3 | 216.7 | 250.3 | 262.5  |
| 131.3 | 15°   | 152.6 | 161.8 | 161.8 | 158.7 | 158.7 | 161.8 | 183.1 | 213.7 | 259.5 | 280.8  |
| 112.9 | 17.5° | 140.4 | 149.6 | 152.6 | 146.5 | 146.5 | 152.6 | 174.0 | 213.7 | 265.6 | 302.2  |
| 91.6  | 20°   | 116.0 | 131.3 | 140.4 | 131.3 | 131.3 | 137.4 | 158.7 | 201.5 | 268.6 | 323.6  |
| 67.2  | 22.5° | 91.6  | 106.8 | 119.0 | 116.0 | 116.0 | 119.0 | 146.5 | 192.3 | 271.7 | 360.2  |
| 39.7  | 25°   | 67.2  | 82.4  | 91.6  | 97.7  | 97.7  | 106.8 | 134.3 | 186.2 | 283.9 | 436.5  |
| 18.3  | 27.5° | 39.7  | 58.0  | 70.2  | 76.3  | 79.4  | 91.6  | 125.2 | 180.1 | 305.2 | 546.4  |
| 0.0   | 30°   | 18.3  | 33.6  | 48.8  | 61.0  | 61.0  | 82.4  | 116.0 | 174.0 | 332.7 | 705.1  |
| 0.0   | 32.5° | 0.0   | 15.3  | 24.4  | 42.7  | 45.8  | 67.2  | 106.8 | 167.9 | 372.4 | 857.7  |
| 0.0   | 35°   | 0.0   | 0.0   | 12.2  | 33.6  | 33.6  | 54.9  | 97.7  | 161.8 | 433.4 | 973.7  |
| 0.0   | 37.5° | 0.0   | 0.0   | 0.0   | 24.4  | 27.5  | 48.8  | 94.6  | 158.7 | 445.7 | 982.9  |
| 0.0   | 40°   | 0.0   | 0.0   | 0.0   | 18.3  | 21.4  | 45.8  | 94.6  | 161.8 | 402.9 | 961.5  |
| 0.0   | 42.5° | 0.0   | 0.0   | 0.0   | 12.2  | 15.3  | 45.8  | 94.6  | 167.9 | 363.2 | 985.9  |
| 0.0   | 45°   | 0.0   | 0.0   | 0.0   | 9.2   | 12.2  | 48.8  | 91.6  | 164.8 | 341.9 | 1114.1 |
| 0.0   | 47.5° | 0.0   | 0.0   | 0.0   | 12.2  | 18.3  | 48.8  | 88.5  | 161.8 | 344.9 | 1538.4 |
| 0.0   | 50°   | 0.0   | 0.0   | 0.0   | 15.3  | 21.4  | 48.8  | 91.6  | 155.7 | 378.5 | 2365.6 |
| 0.0   | 52.5° | 0.0   | 0.0   | 0.0   | 12.2  | 18.3  | 54.9  | 100.7 | 152.6 | 412.1 | 3076.9 |
| 0.0   | 55°   | 0.0   | 0.0   | 0.0   | 3.1   | 9.2   | 70.2  | 109.9 | 152.6 | 464.0 | 3253.9 |
| 0.0   | 57.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 79.4  | 125.2 | 161.8 | 549.4 | 3183.7 |
| 0.0   | 58°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 79.4  | 128.2 | 161.8 | 555.5 | 3122.7 |
| 0.0   | 60°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 79.4  | 140.4 | 180.1 | 598.3 | 2780.8 |
| 0.0   | 62.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 67.2  | 167.9 | 225.9 | 622.7 | 2185.6 |
| 0.0   | 65°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 54.9  | 198.4 | 247.2 | 641.0 | 1739.9 |
| 0.0   | 67.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 51.9  | 204.5 | 250.3 | 650.2 | 1385.8 |
| 0.0   | 70°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 54.9  | 201.5 | 268.6 | 680.7 | 1126.4 |
| 0.0   | 72.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 61.0  | 183.1 | 296.1 | 680.7 | 998.1  |
| 0.0   | 75°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 64.1  | 170.9 | 332.7 | 619.6 | 863.8  |
| 0.0   | 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 61.0  | 167.9 | 387.7 | 552.5 | 711.2  |
| 0.0   | 80°   | 6.1   | 9.2   | 9.2   | 6.1   | 6.1   | 51.9  | 164.8 | 393.8 | 470.1 | 488.4  |
| 3.1   | 82.5° | 18.3  | 24.4  | 21.4  | 15.3  | 15.3  | 45.8  | 146.5 | 329.7 | 244.2 | 210.6  |
| 18.3  | 85°   | 33.6  | 39.7  | 39.7  | 33.6  | 33.6  | 42.7  | 91.6  | 119.0 | 82.4  | 67.2   |
| 33.6  | 87.5° | 45.8  | 51.9  | 51.9  | 45.8  | 45.8  | 42.7  | 39.7  | 36.6  | 33.6  | 33.6   |
| 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: SP1-2407-184-6

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-750-U-5WQ

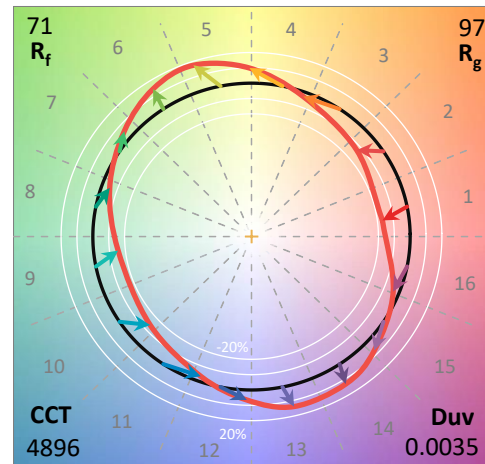
Data in this report applies to families of products including GSS-SB1A-750-U-5WQ

### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2407-184-6  
 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-750-U-5WQ**  
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI  
 5000K CCT 26 LEDS

### Spectral Parameters

|                           |          |           |      |      |       |
|---------------------------|----------|-----------|------|------|-------|
| CCT (K):                  | 4896     | CRI (Ra): | 70.2 |      |       |
| CIE u':                   | 0.2101   | R1:       | 68.1 | R9:  | -35.1 |
| CIE v':                   | 0.4901   | R2:       | 73.9 | R10: | 39.3  |
| Duv:                      | 0.0035   | R3:       | 79.4 | R11: | 71.1  |
| CIE x:                    | 0.3489   | R4:       | 72.1 | R12: | 43.8  |
| CIE y:                    | 0.3618   | R5:       | 69.2 | R13: | 68.1  |
| CIE z:                    | 0.2893   | R6:       | 65.7 | R14: | 88.4  |
| Peak Wavelength (nm):     | 443      | R7:       | 78.1 | R15: | 59.7  |
| Dominant Wavelength (nm): | 570      | R8:       | 55.3 |      |       |
| Purity:                   | 13.25435 |           |      |      |       |
| Rf:                       | 70.7     |           |      |      |       |
| Rg:                       | 96.8     |           |      |      |       |



### Test Conditions

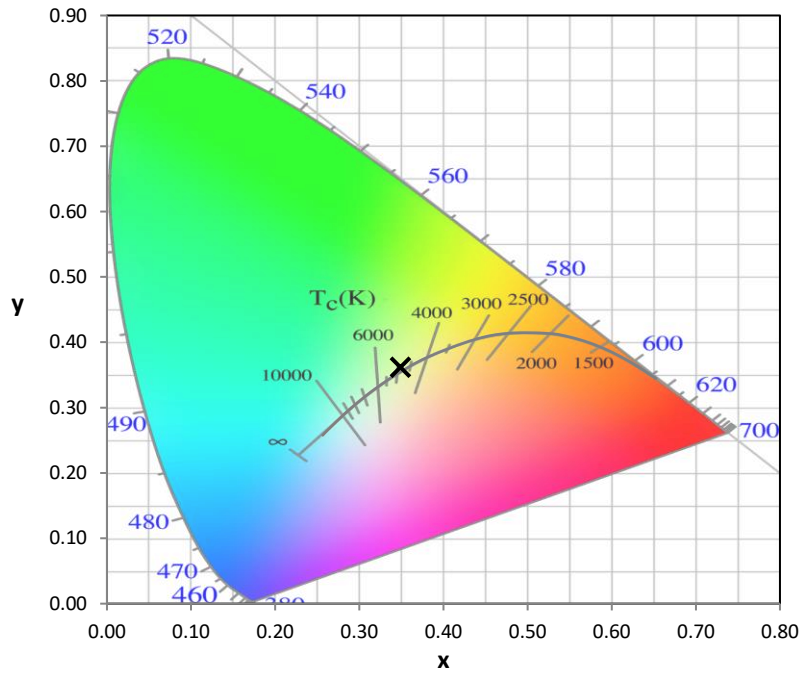
Stabilization Time: 21M  
 Operation Time: 1H 21M  
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-6

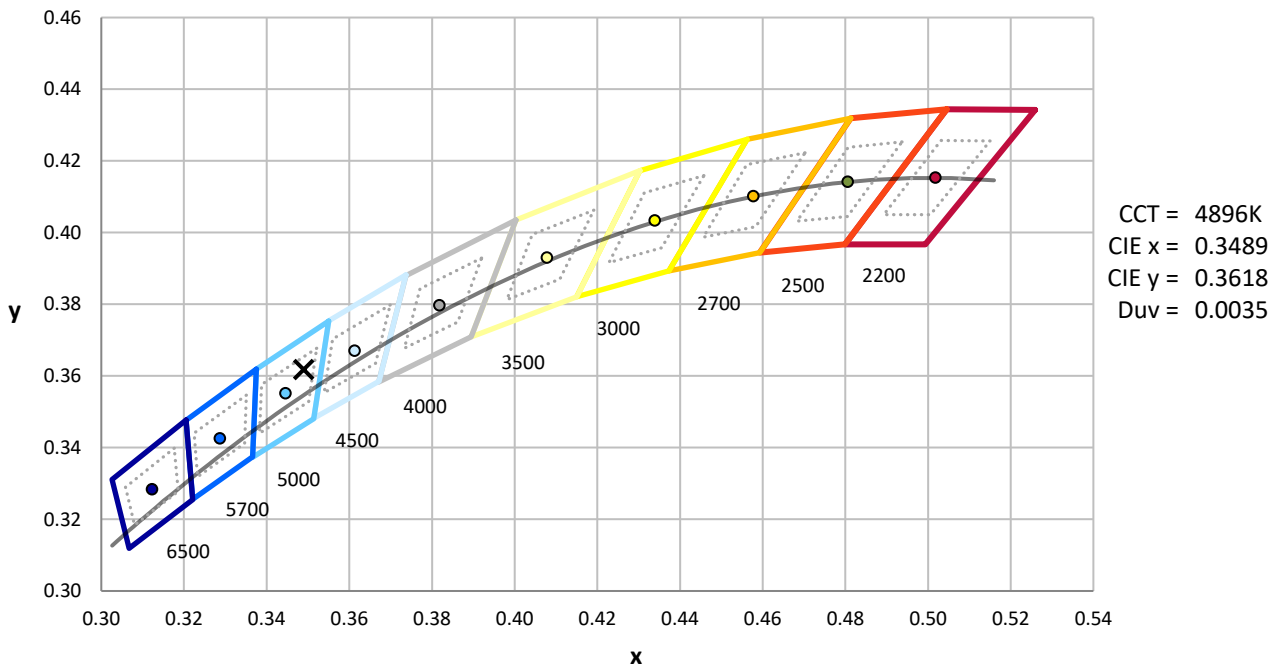
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| 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: SP1-2407-184-6

**CIE 1931 Chromaticity Diagram**



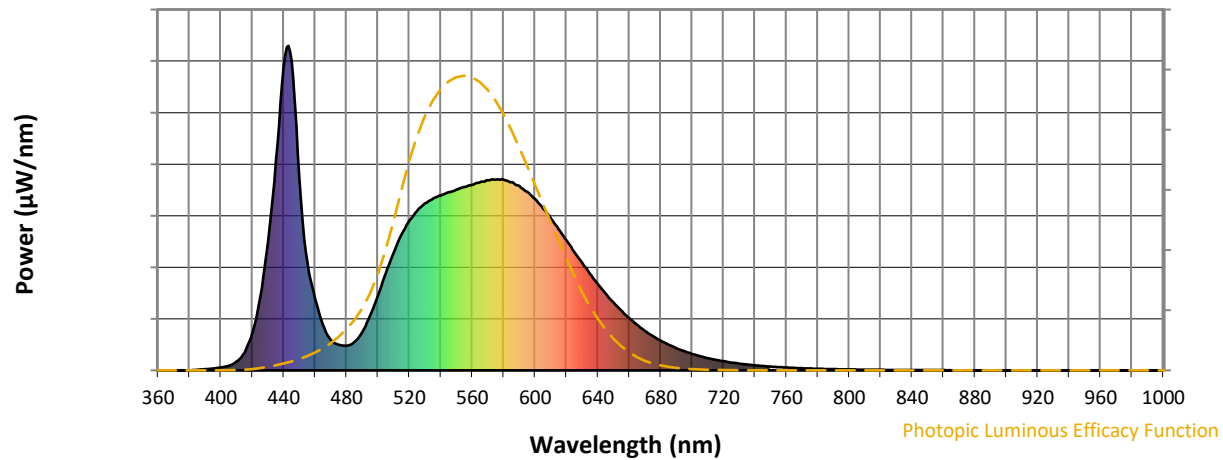
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-6

### Photopic Flux vs. Wavelength



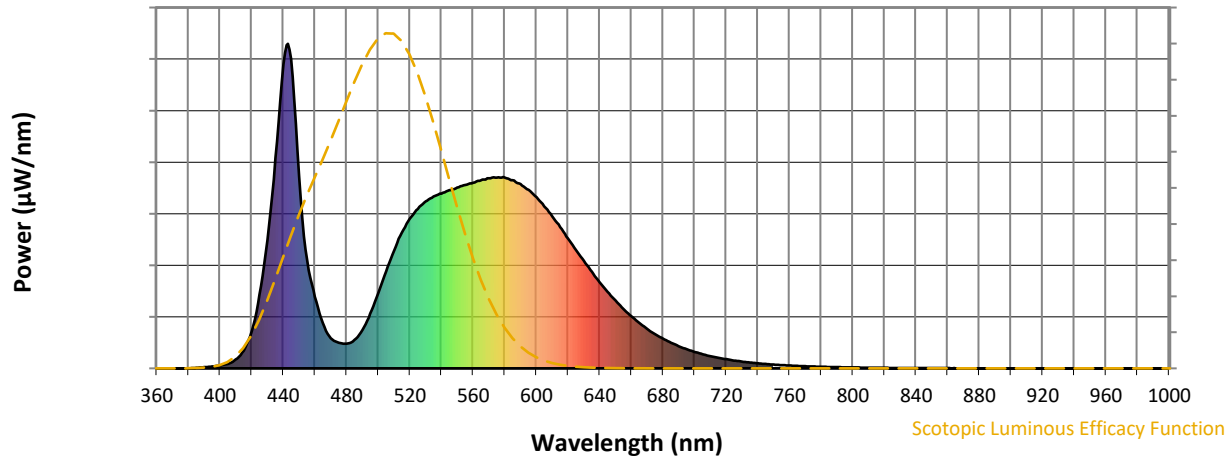
### Photopic Lumens: NR

| $\lambda$<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               | 118                                  | NR                             | 620               | 401                                  | NR                             | 750               | 12                                   | NR                             | 880               | 0                                    | NR                             |
| 365               | 0                                    | NR                             | 495               | 168                                  | NR                             | 625               | 365                                  | NR                             | 755               | 10                                   | NR                             | 885               | 0                                    | NR                             |
| 370               | 0                                    | NR                             | 500               | 230                                  | NR                             | 630               | 331                                  | NR                             | 760               | 9                                    | NR                             | 890               | 0                                    | NR                             |
| 375               | 0                                    | NR                             | 505               | 299                                  | NR                             | 635               | 298                                  | NR                             | 765               | 8                                    | NR                             | 895               | 0                                    | NR                             |
| 380               | 0                                    | NR                             | 510               | 362                                  | NR                             | 640               | 266                                  | NR                             | 770               | 6                                    | NR                             | 900               | 0                                    | NR                             |
| 385               | 2                                    | NR                             | 515               | 418                                  | NR                             | 645               | 236                                  | NR                             | 775               | 6                                    | NR                             | 905               | 0                                    | NR                             |
| 390               | 4                                    | NR                             | 520               | 461                                  | NR                             | 650               | 209                                  | NR                             | 780               | 5                                    | NR                             | 910               | 0                                    | NR                             |
| 395               | 6                                    | NR                             | 525               | 491                                  | NR                             | 655               | 184                                  | NR                             | 785               | 4                                    | NR                             | 915               | 0                                    | NR                             |
| 400               | 9                                    | NR                             | 530               | 514                                  | NR                             | 660               | 160                                  | NR                             | 790               | 4                                    | NR                             | 920               | 0                                    | NR                             |
| 405               | 14                                   | NR                             | 535               | 530                                  | NR                             | 665               | 140                                  | NR                             | 795               | 3                                    | NR                             | 925               | 0                                    | NR                             |
| 410               | 27                                   | NR                             | 540               | 539                                  | NR                             | 670               | 122                                  | NR                             | 800               | 3                                    | NR                             | 930               | 0                                    | NR                             |
| 415               | 55                                   | NR                             | 545               | 549                                  | NR                             | 675               | 106                                  | NR                             | 805               | 2                                    | NR                             | 935               | 0                                    | NR                             |
| 420               | 115                                  | NR                             | 550               | 557                                  | NR                             | 680               | 92                                   | NR                             | 810               | 2                                    | NR                             | 940               | 0                                    | NR                             |
| 425               | 226                                  | NR                             | 555               | 565                                  | NR                             | 685               | 79                                   | NR                             | 815               | 2                                    | NR                             | 945               | 0                                    | NR                             |
| 430               | 395                                  | NR                             | 560               | 572                                  | NR                             | 690               | 68                                   | NR                             | 820               | 2                                    | NR                             | 950               | 0                                    | NR                             |
| 435               | 648                                  | NR                             | 565               | 580                                  | NR                             | 695               | 59                                   | NR                             | 825               | 1                                    | NR                             | 955               | 0                                    | NR                             |
| 440               | 937                                  | NR                             | 570               | 586                                  | NR                             | 700               | 51                                   | NR                             | 830               | 1                                    | NR                             | 960               | 0                                    | NR                             |
| 445               | 953                                  | NR                             | 575               | 588                                  | NR                             | 705               | 44                                   | NR                             | 835               | 1                                    | NR                             | 965               | 0                                    | NR                             |
| 450               | 591                                  | NR                             | 580               | 588                                  | NR                             | 710               | 38                                   | NR                             | 840               | 1                                    | NR                             | 970               | 0                                    | NR                             |
| 455               | 334                                  | NR                             | 585               | 580                                  | NR                             | 715               | 32                                   | NR                             | 845               | 1                                    | NR                             | 975               | 0                                    | NR                             |
| 460               | 221                                  | NR                             | 590               | 568                                  | NR                             | 720               | 28                                   | NR                             | 850               | 1                                    | NR                             | 980               | 0                                    | NR                             |
| 465               | 140                                  | NR                             | 595               | 550                                  | NR                             | 725               | 24                                   | NR                             | 855               | 1                                    | NR                             | 985               | 0                                    | NR                             |
| 470               | 93                                   | NR                             | 600               | 527                                  | NR                             | 730               | 21                                   | NR                             | 860               | 1                                    | NR                             | 990               | 0                                    | NR                             |
| 475               | 79                                   | NR                             | 605               | 499                                  | NR                             | 735               | 18                                   | NR                             | 865               | 0                                    | NR                             | 995               | 0                                    | NR                             |
| 480               | 76                                   | NR                             | 610               | 469                                  | NR                             | 740               | 15                                   | NR                             | 870               | 0                                    | NR                             | 1000              | 0                                    | NR                             |
| 485               | 87                                   | NR                             | 615               | 435                                  | NR                             | 745               | 13                                   | NR                             | 875               | 0                                    | NR                             |                   |                                      |                                |



REPORT NUMBER: SP1-2407-184-6

### Scotopic Flux vs. Wavelength



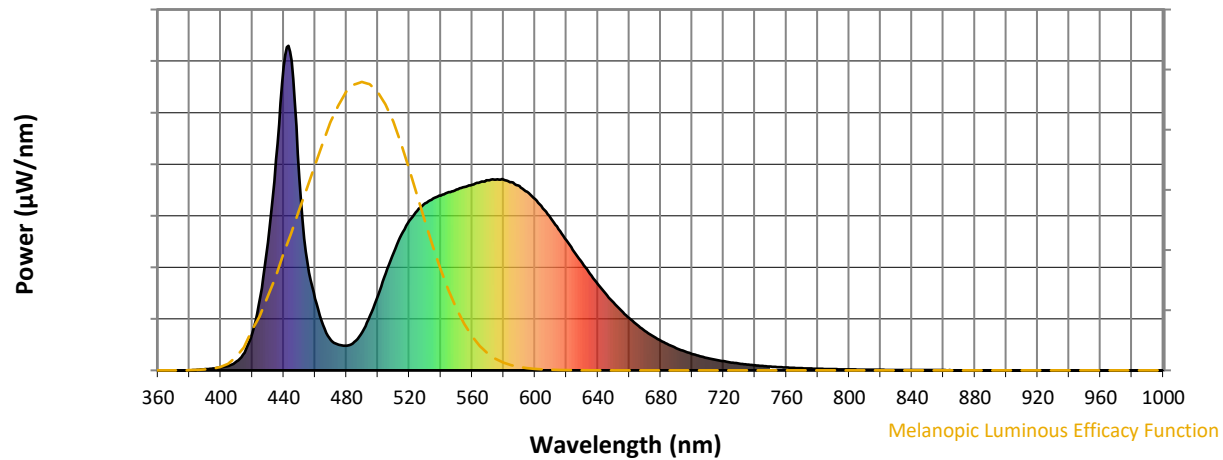
Scotopic Lumens: NR

S/P: 1.7

| 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       | 118                         | NR               | 620       | 401                         | NR               | 750       | 12                          | NR               | 880       | 0                           | NR               |
| 365       | 0                           | NR               | 495       | 168                         | NR               | 625       | 365                         | NR               | 755       | 10                          | NR               | 885       | 0                           | NR               |
| 370       | 0                           | NR               | 500       | 230                         | NR               | 630       | 331                         | NR               | 760       | 9                           | NR               | 890       | 0                           | NR               |
| 375       | 0                           | NR               | 505       | 299                         | NR               | 635       | 298                         | NR               | 765       | 8                           | NR               | 895       | 0                           | NR               |
| 380       | 0                           | NR               | 510       | 362                         | NR               | 640       | 266                         | NR               | 770       | 6                           | NR               | 900       | 0                           | NR               |
| 385       | 2                           | NR               | 515       | 418                         | NR               | 645       | 236                         | NR               | 775       | 6                           | NR               | 905       | 0                           | NR               |
| 390       | 4                           | NR               | 520       | 461                         | NR               | 650       | 209                         | NR               | 780       | 5                           | NR               | 910       | 0                           | NR               |
| 395       | 6                           | NR               | 525       | 491                         | NR               | 655       | 184                         | NR               | 785       | 4                           | NR               | 915       | 0                           | NR               |
| 400       | 9                           | NR               | 530       | 514                         | NR               | 660       | 160                         | NR               | 790       | 4                           | NR               | 920       | 0                           | NR               |
| 405       | 14                          | NR               | 535       | 530                         | NR               | 665       | 140                         | NR               | 795       | 3                           | NR               | 925       | 0                           | NR               |
| 410       | 27                          | NR               | 540       | 539                         | NR               | 670       | 122                         | NR               | 800       | 3                           | NR               | 930       | 0                           | NR               |
| 415       | 55                          | NR               | 545       | 549                         | NR               | 675       | 106                         | NR               | 805       | 2                           | NR               | 935       | 0                           | NR               |
| 420       | 115                         | NR               | 550       | 557                         | NR               | 680       | 92                          | NR               | 810       | 2                           | NR               | 940       | 0                           | NR               |
| 425       | 226                         | NR               | 555       | 565                         | NR               | 685       | 79                          | NR               | 815       | 2                           | NR               | 945       | 0                           | NR               |
| 430       | 395                         | NR               | 560       | 572                         | NR               | 690       | 68                          | NR               | 820       | 2                           | NR               | 950       | 0                           | NR               |
| 435       | 648                         | NR               | 565       | 580                         | NR               | 695       | 59                          | NR               | 825       | 1                           | NR               | 955       | 0                           | NR               |
| 440       | 937                         | NR               | 570       | 586                         | NR               | 700       | 51                          | NR               | 830       | 1                           | NR               | 960       | 0                           | NR               |
| 445       | 953                         | NR               | 575       | 588                         | NR               | 705       | 44                          | NR               | 835       | 1                           | NR               | 965       | 0                           | NR               |
| 450       | 591                         | NR               | 580       | 588                         | NR               | 710       | 38                          | NR               | 840       | 1                           | NR               | 970       | 0                           | NR               |
| 455       | 334                         | NR               | 585       | 580                         | NR               | 715       | 32                          | NR               | 845       | 1                           | NR               | 975       | 0                           | NR               |
| 460       | 221                         | NR               | 590       | 568                         | NR               | 720       | 28                          | NR               | 850       | 1                           | NR               | 980       | 0                           | NR               |
| 465       | 140                         | NR               | 595       | 550                         | NR               | 725       | 24                          | NR               | 855       | 1                           | NR               | 985       | 0                           | NR               |
| 470       | 93                          | NR               | 600       | 527                         | NR               | 730       | 21                          | NR               | 860       | 1                           | NR               | 990       | 0                           | NR               |
| 475       | 79                          | NR               | 605       | 499                         | NR               | 735       | 18                          | NR               | 865       | 0                           | NR               | 995       | 0                           | NR               |
| 480       | 76                          | NR               | 610       | 469                         | NR               | 740       | 15                          | NR               | 870       | 0                           | NR               | 1000      | 0                           | NR               |
| 485       | 87                          | NR               | 615       | 435                         | NR               | 745       | 13                          | NR               | 875       | 0                           | NR               |           |                             |                  |

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### Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.37

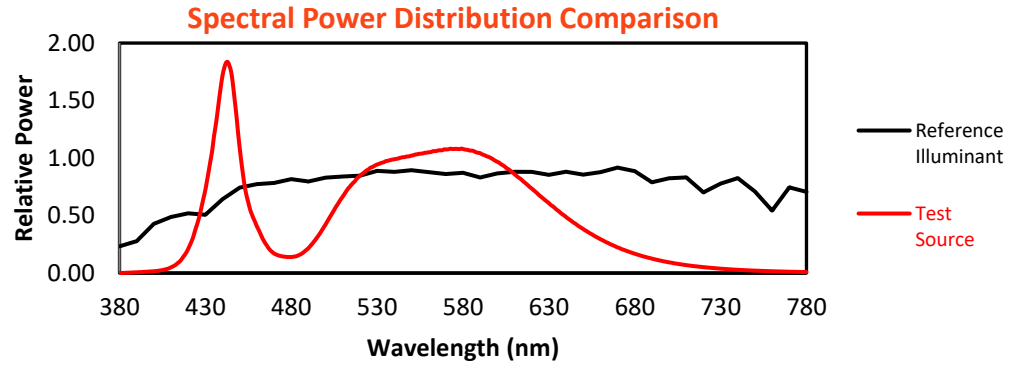
| $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<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               | 118                                  | NR                             | 620               | 401                                  | NR                             | 750               | 12                                   | NR                             | 880               | 0                                    | NR                             |
| 365               | 0                                    | NR                             | 495               | 168                                  | NR                             | 625               | 365                                  | NR                             | 755               | 10                                   | NR                             | 885               | 0                                    | NR                             |
| 370               | 0                                    | NR                             | 500               | 230                                  | NR                             | 630               | 331                                  | NR                             | 760               | 9                                    | NR                             | 890               | 0                                    | NR                             |
| 375               | 0                                    | NR                             | 505               | 299                                  | NR                             | 635               | 298                                  | NR                             | 765               | 8                                    | NR                             | 895               | 0                                    | NR                             |
| 380               | 0                                    | NR                             | 510               | 362                                  | NR                             | 640               | 266                                  | NR                             | 770               | 6                                    | NR                             | 900               | 0                                    | NR                             |
| 385               | 2                                    | NR                             | 515               | 418                                  | NR                             | 645               | 236                                  | NR                             | 775               | 6                                    | NR                             | 905               | 0                                    | NR                             |
| 390               | 4                                    | NR                             | 520               | 461                                  | NR                             | 650               | 209                                  | NR                             | 780               | 5                                    | NR                             | 910               | 0                                    | NR                             |
| 395               | 6                                    | NR                             | 525               | 491                                  | NR                             | 655               | 184                                  | NR                             | 785               | 4                                    | NR                             | 915               | 0                                    | NR                             |
| 400               | 9                                    | NR                             | 530               | 514                                  | NR                             | 660               | 160                                  | NR                             | 790               | 4                                    | NR                             | 920               | 0                                    | NR                             |
| 405               | 14                                   | NR                             | 535               | 530                                  | NR                             | 665               | 140                                  | NR                             | 795               | 3                                    | NR                             | 925               | 0                                    | NR                             |
| 410               | 27                                   | NR                             | 540               | 539                                  | NR                             | 670               | 122                                  | NR                             | 800               | 3                                    | NR                             | 930               | 0                                    | NR                             |
| 415               | 55                                   | NR                             | 545               | 549                                  | NR                             | 675               | 106                                  | NR                             | 805               | 2                                    | NR                             | 935               | 0                                    | NR                             |
| 420               | 115                                  | NR                             | 550               | 557                                  | NR                             | 680               | 92                                   | NR                             | 810               | 2                                    | NR                             | 940               | 0                                    | NR                             |
| 425               | 226                                  | NR                             | 555               | 565                                  | NR                             | 685               | 79                                   | NR                             | 815               | 2                                    | NR                             | 945               | 0                                    | NR                             |
| 430               | 395                                  | NR                             | 560               | 572                                  | NR                             | 690               | 68                                   | NR                             | 820               | 2                                    | NR                             | 950               | 0                                    | NR                             |
| 435               | 648                                  | NR                             | 565               | 580                                  | NR                             | 695               | 59                                   | NR                             | 825               | 1                                    | NR                             | 955               | 0                                    | NR                             |
| 440               | 937                                  | NR                             | 570               | 586                                  | NR                             | 700               | 51                                   | NR                             | 830               | 1                                    | NR                             | 960               | 0                                    | NR                             |
| 445               | 953                                  | NR                             | 575               | 588                                  | NR                             | 705               | 44                                   | NR                             | 835               | 1                                    | NR                             | 965               | 0                                    | NR                             |
| 450               | 591                                  | NR                             | 580               | 588                                  | NR                             | 710               | 38                                   | NR                             | 840               | 1                                    | NR                             | 970               | 0                                    | NR                             |
| 455               | 334                                  | NR                             | 585               | 580                                  | NR                             | 715               | 32                                   | NR                             | 845               | 1                                    | NR                             | 975               | 0                                    | NR                             |
| 460               | 221                                  | NR                             | 590               | 568                                  | NR                             | 720               | 28                                   | NR                             | 850               | 1                                    | NR                             | 980               | 0                                    | NR                             |
| 465               | 140                                  | NR                             | 595               | 550                                  | NR                             | 725               | 24                                   | NR                             | 855               | 1                                    | NR                             | 985               | 0                                    | NR                             |
| 470               | 93                                   | NR                             | 600               | 527                                  | NR                             | 730               | 21                                   | NR                             | 860               | 1                                    | NR                             | 990               | 0                                    | NR                             |
| 475               | 79                                   | NR                             | 605               | 499                                  | NR                             | 735               | 18                                   | NR                             | 865               | 0                                    | NR                             | 995               | 0                                    | NR                             |
| 480               | 76                                   | NR                             | 610               | 469                                  | NR                             | 740               | 15                                   | NR                             | 870               | 0                                    | NR                             | 1000              | 0                                    | NR                             |
| 485               | 87                                   | NR                             | 615               | 435                                  | NR                             | 745               | 13                                   | NR                             | 875               | 0                                    | NR                             |                   |                                      |                                |

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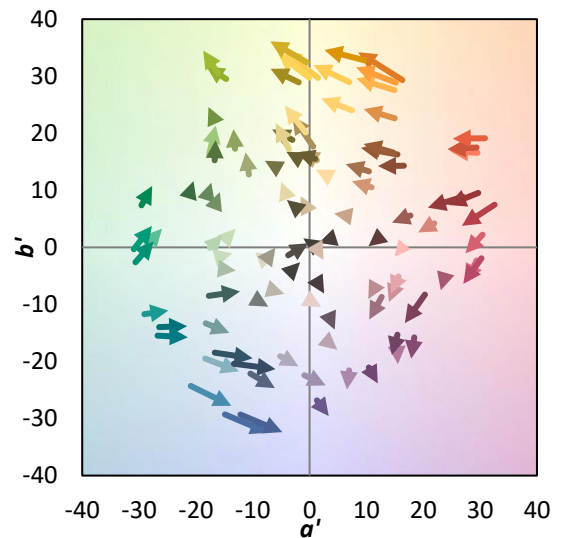
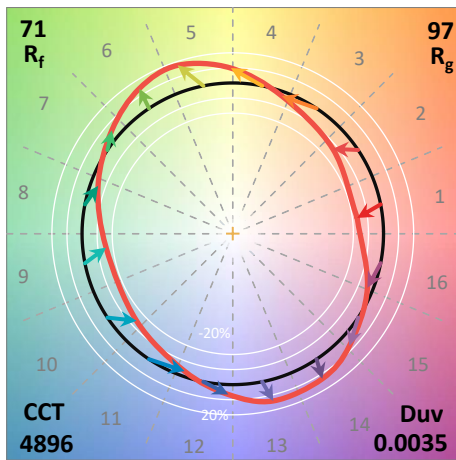
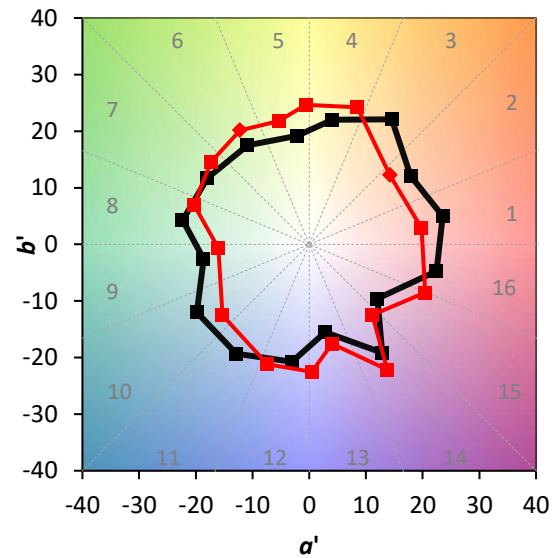
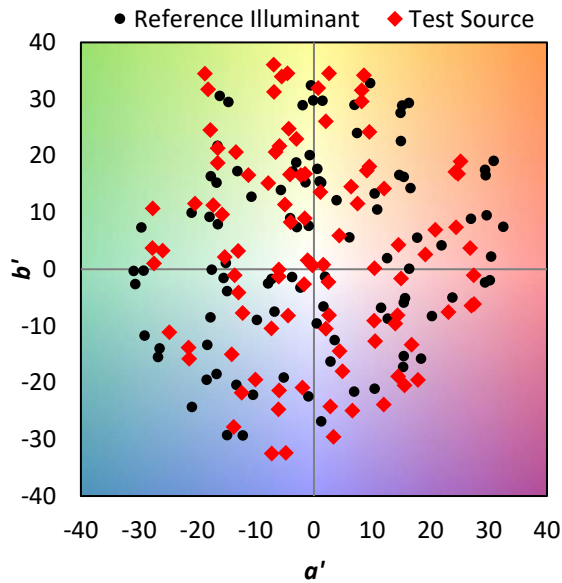
TM-30-18

### Summary

$R_f = 70.7$   
 $R_g = 96.8$   
 CIE  $R_a = 70.2$   
 $R_g = -35.1$

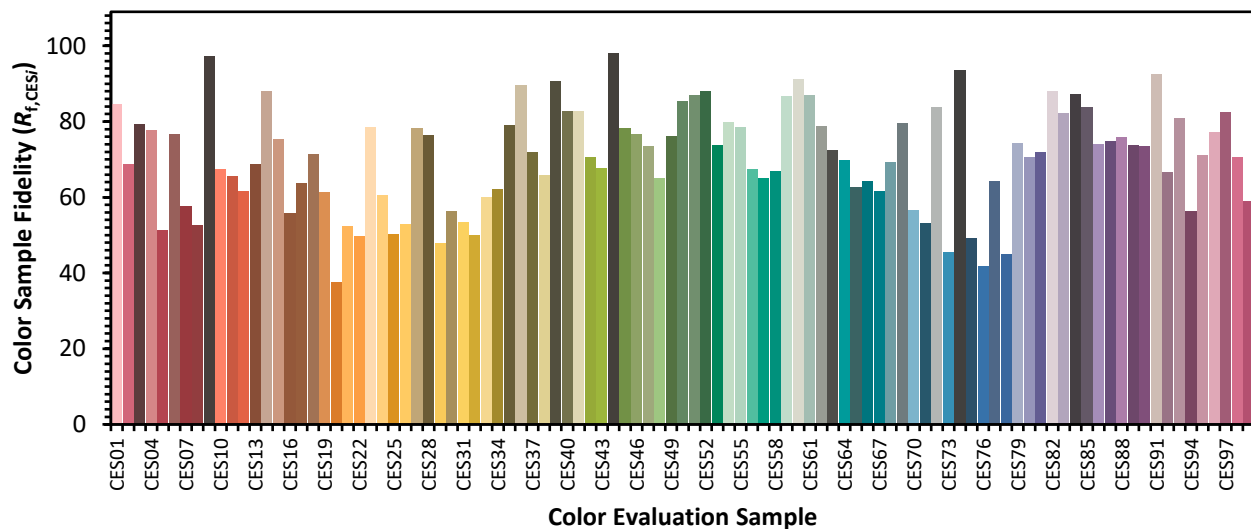


### Color Vector Graphics

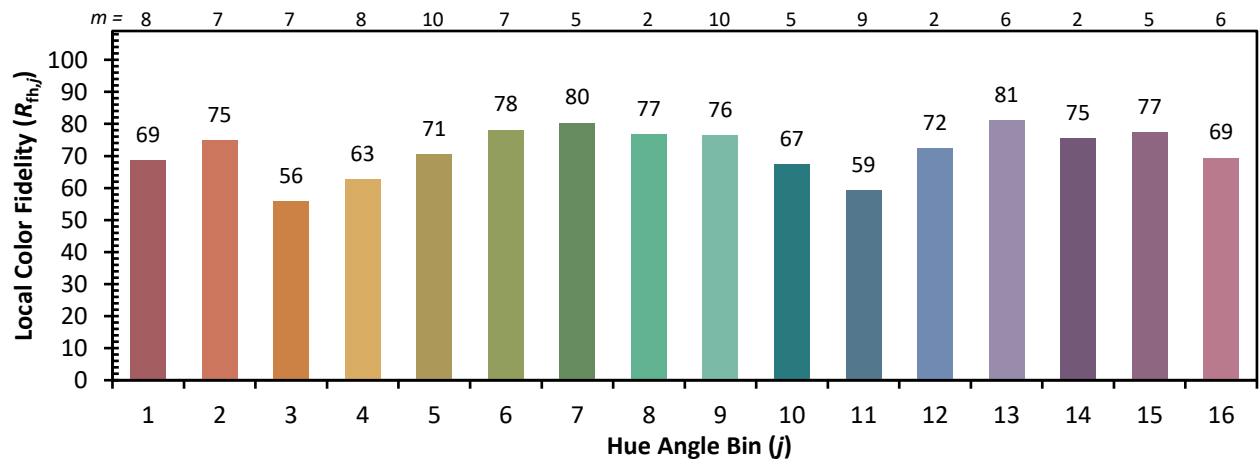
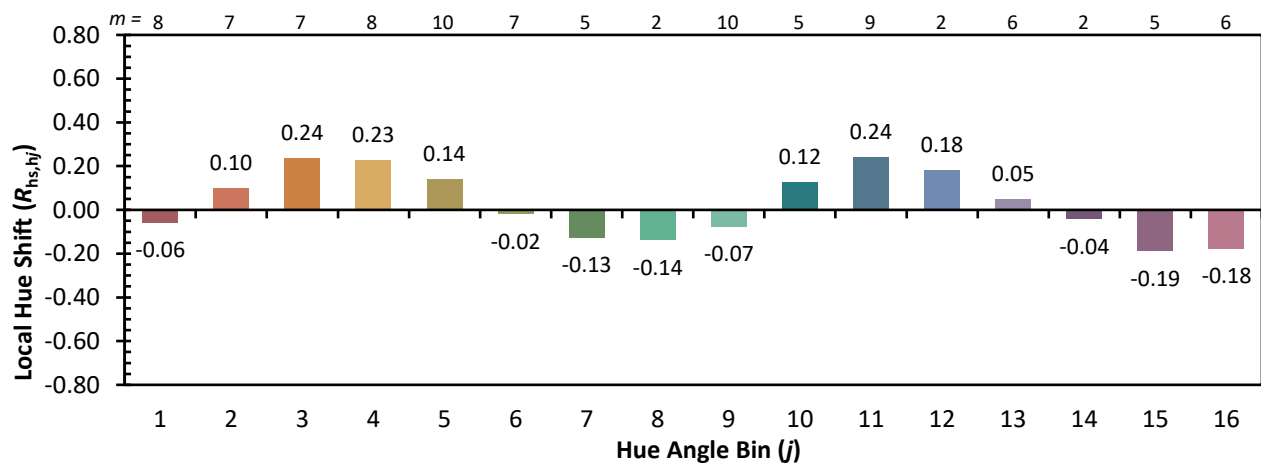
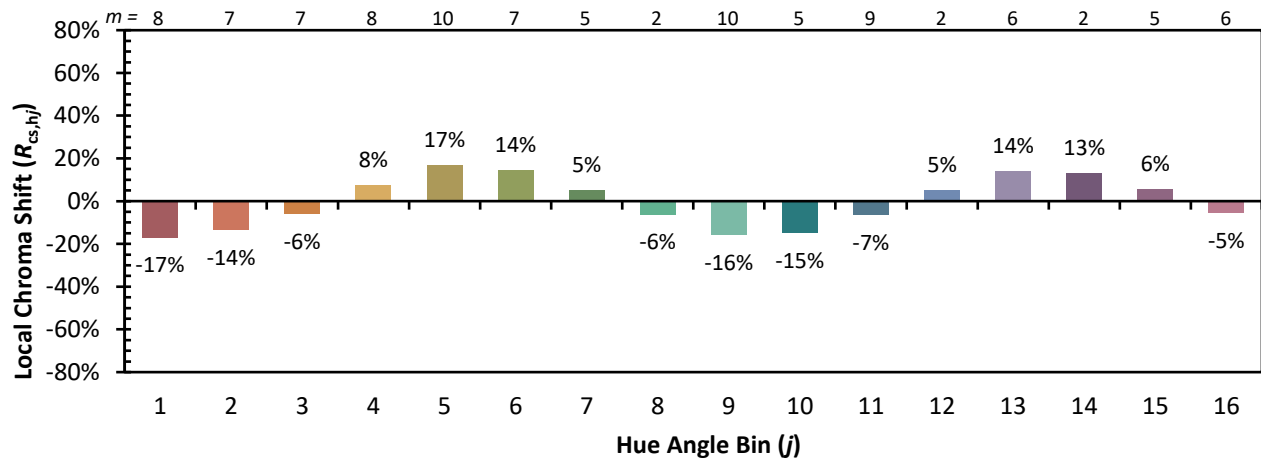


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

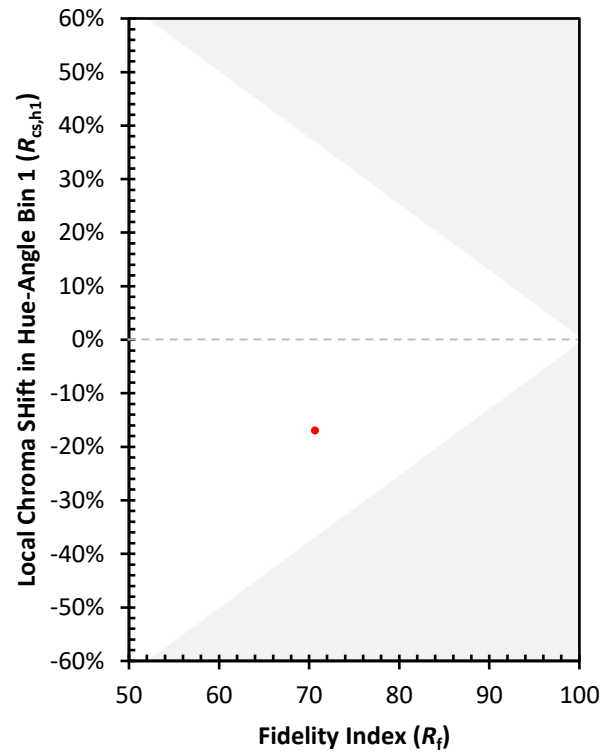
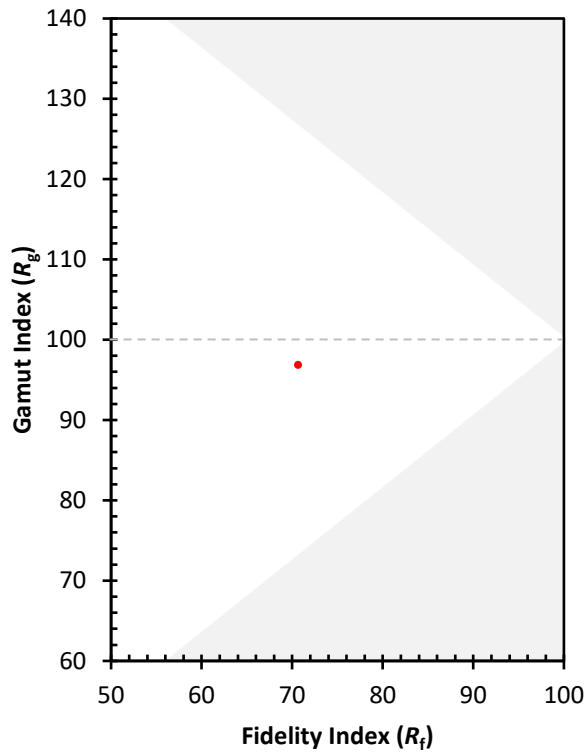
|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 53 | CES51 = 87 | CES76 = 42 |
| CES02 = 59 | CES27 = 78 | CES52 = 88 | CES77 = 64 |
| CES03 = 30 | CES28 = 76 | CES53 = 74 | CES78 = 45 |
| CES04 = 69 | CES29 = 48 | CES54 = 80 | CES79 = 74 |
| CES05 = 46 | CES30 = 56 | CES55 = 79 | CES80 = 71 |
| CES06 = 50 | CES31 = 54 | CES56 = 68 | CES81 = 72 |
| CES07 = 39 | CES32 = 50 | CES57 = 65 | CES82 = 88 |
| CES08 = 38 | CES33 = 60 | CES58 = 67 | CES83 = 82 |
| CES09 = 29 | CES34 = 62 | CES59 = 87 | CES84 = 87 |
| CES10 = 72 | CES35 = 79 | CES60 = 91 | CES85 = 84 |
| CES11 = 56 | CES36 = 90 | CES61 = 87 | CES86 = 74 |
| CES12 = 61 | CES37 = 72 | CES62 = 79 | CES87 = 75 |
| CES13 = 41 | CES38 = 66 | CES63 = 72 | CES88 = 76 |
| CES14 = 74 | CES39 = 91 | CES64 = 70 | CES89 = 74 |
| CES15 = 70 | CES40 = 83 | CES65 = 63 | CES90 = 73 |
| CES16 = 46 | CES41 = 83 | CES66 = 64 | CES91 = 92 |
| CES17 = 49 | CES42 = 70 | CES67 = 62 | CES92 = 67 |
| CES18 = 55 | CES43 = 68 | CES68 = 69 | CES93 = 81 |
| CES19 = 71 | CES44 = 98 | CES69 = 80 | CES94 = 56 |
| CES20 = 64 | CES45 = 78 | CES70 = 56 | CES95 = 71 |
| CES21 = 85 | CES46 = 77 | CES71 = 53 | CES96 = 77 |
| CES22 = 77 | CES47 = 73 | CES72 = 84 | CES97 = 82 |
| CES23 = 91 | CES48 = 65 | CES73 = 46 | CES98 = 71 |
| CES24 = 90 | CES49 = 76 | CES74 = 94 | CES99 = 59 |
| CES25 = 71 | CES50 = 85 | CES75 = 49 |            |



Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)