

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: P1065235

Luminaire Tested: **GLAN-SA8C-730-U-LBC**

Issue Date: 08/07/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1065235  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 08/07/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8C-730-U-LBC  
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 1050mA 8xLight Square PACKAGE  
70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL  
Light Source: (112) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

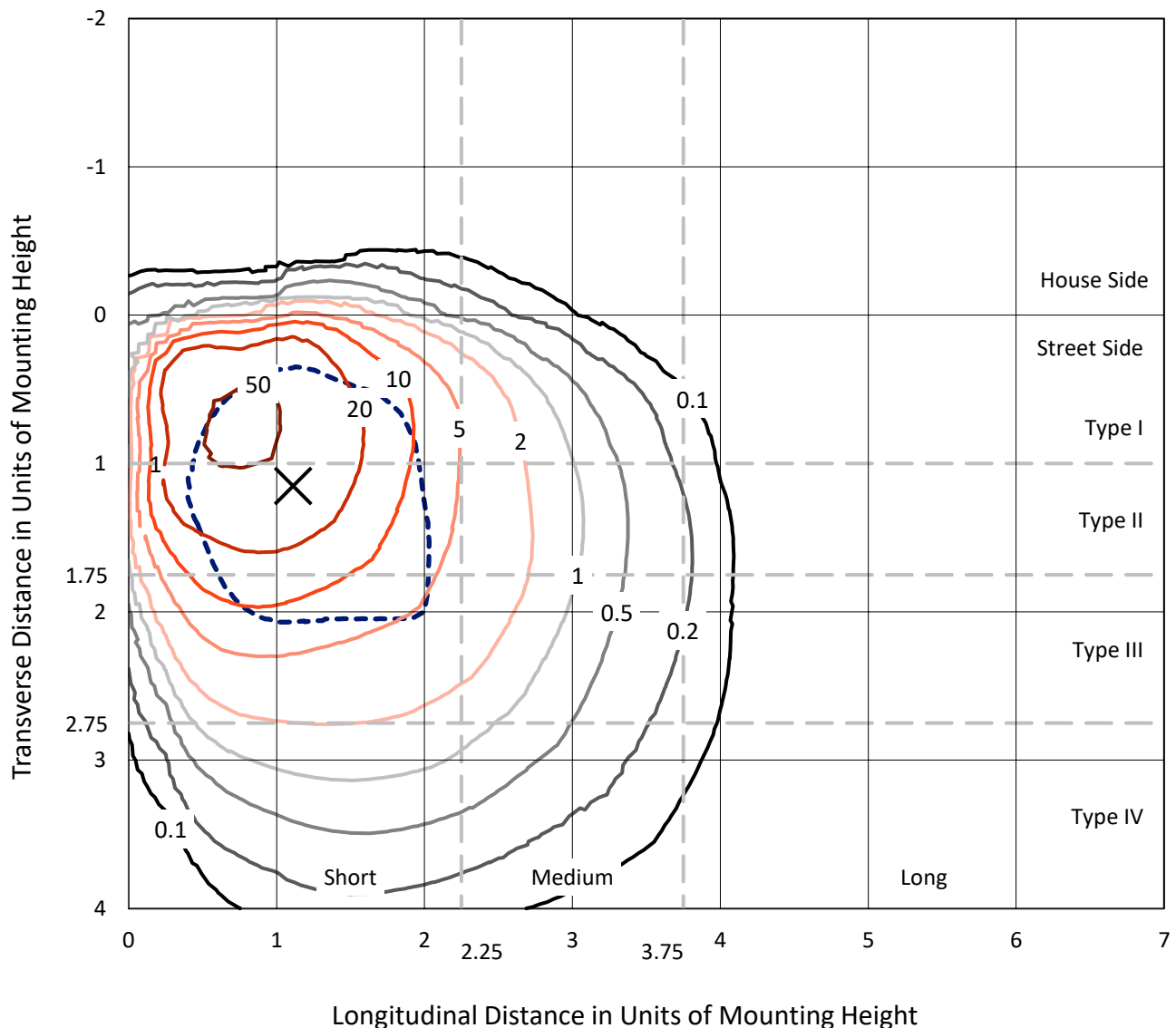
Lumens per Lamp: N/A  
Luminaire Lumens: 39068.3 lumens  
Efficiency: N/A  
Efficacy: 104.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G5

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

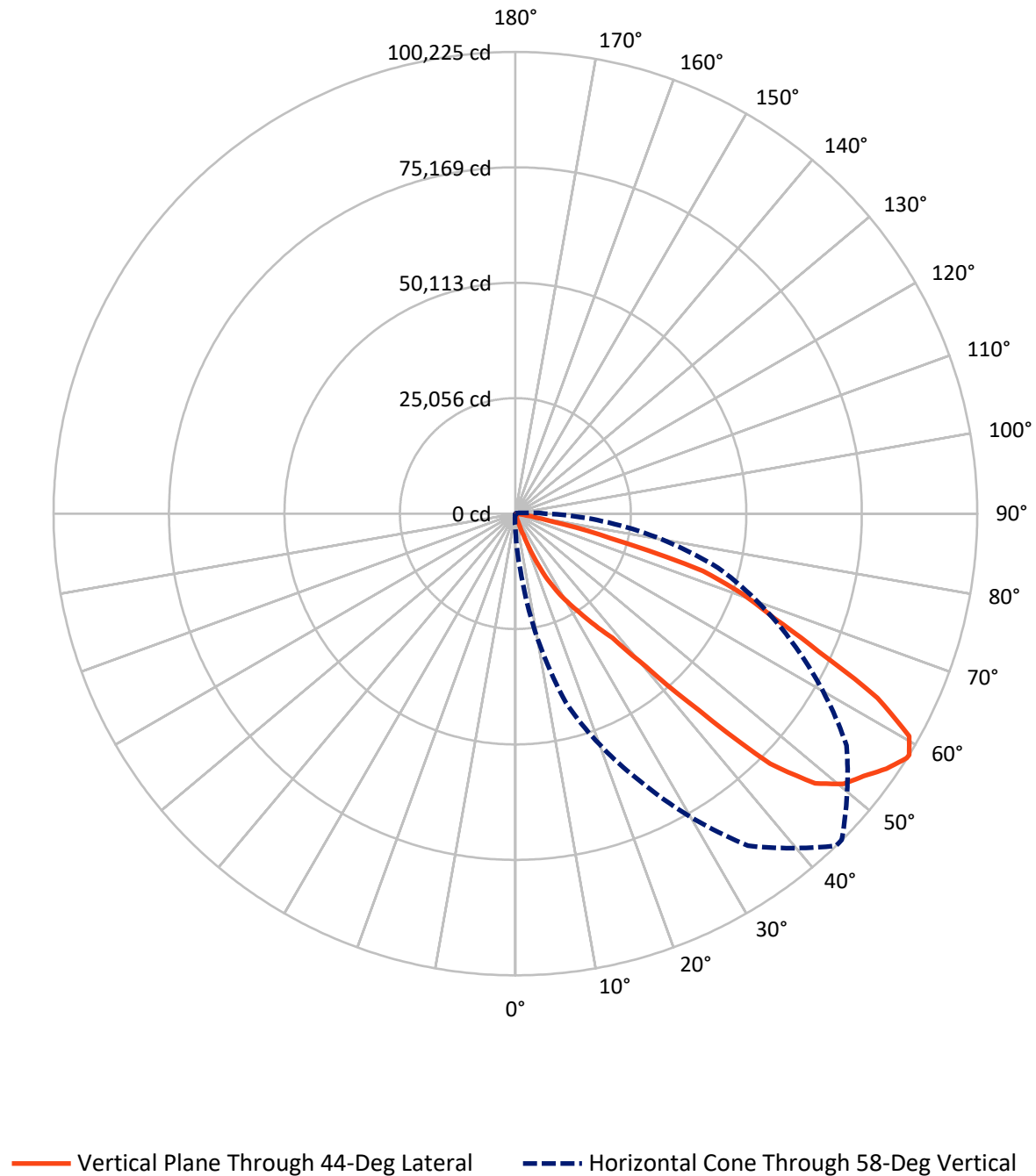
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 68 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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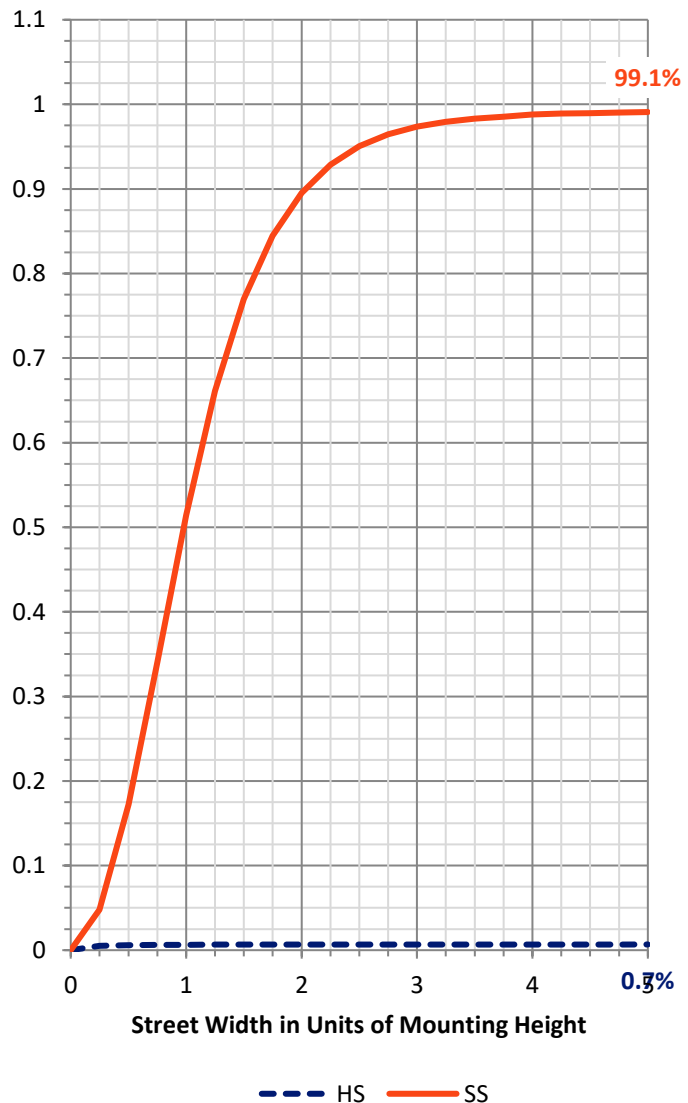
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 266.8    | 0.0    | 266.8   |
|                    | % Fixture | 0.7      | 0.0    | 0.7     |
| <b>Street Side</b> | Lumens    | 38801.5  | 0.0    | 38801.5 |
|                    | % Fixture | 99.3     | 0.0    | 99.3    |
| <b>Total</b>       | Lumens    | 39068.3  | 0.0    | 39068.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 15.3    | 0.0       |
| 10°-20°   | 85.7    | 0.2       |
| 20°-30°   | 925.5   | 2.4       |
| 30°-40°   | 2737.1  | 7.0       |
| 40°-50°   | 8158.1  | 20.9      |
| 50°-60°   | 12944.9 | 33.1      |
| 60°-70°   | 10797.6 | 27.6      |
| 70°-80°   | 3330.1  | 8.5       |
| 80°-90°   | 74.0    | 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°    | 39068.3 | 100.0     |
| 0°-180°   | 39068.3 | 100.0     |



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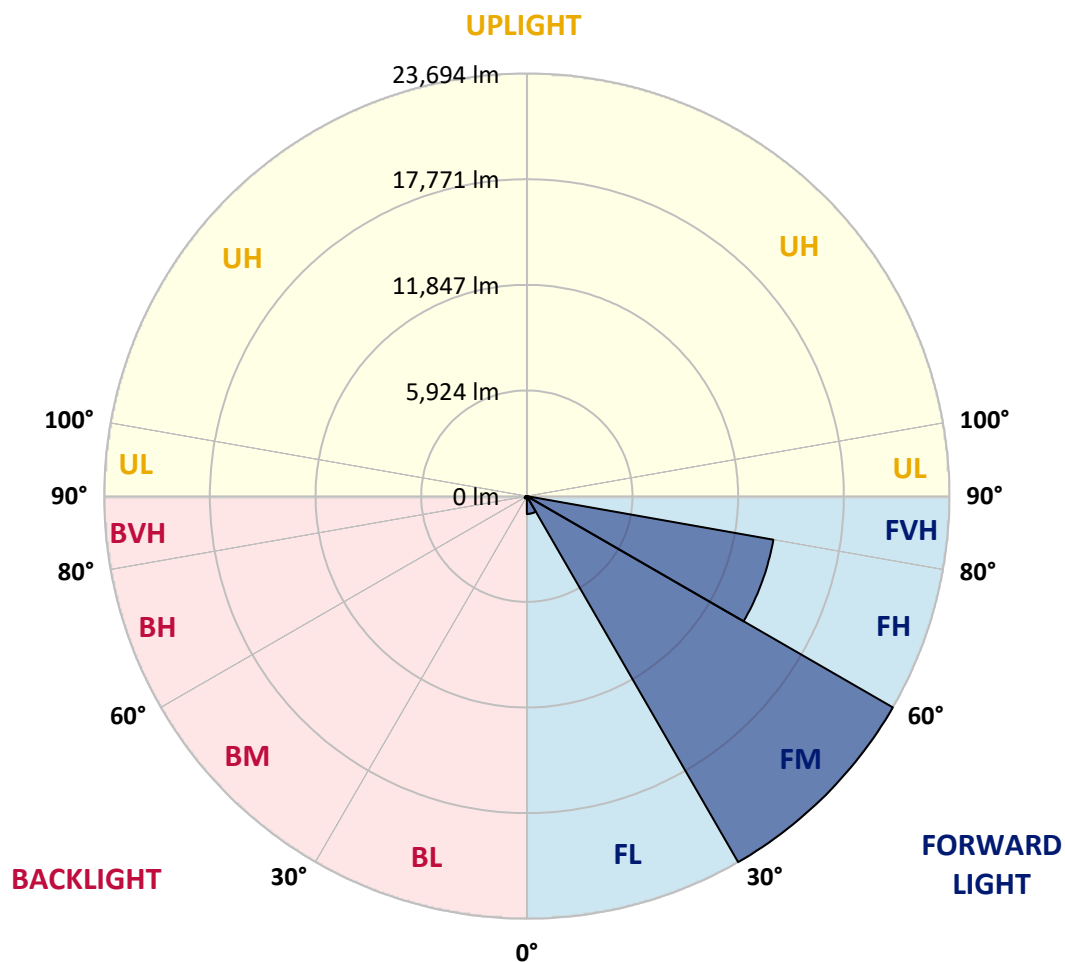
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|---------|-----------|-------------------------|------|--------|
|      |             |         |           | B                       | U    | G      |
| FL   | (0°-30°)    | 1000.4  | 2.6       |                         |      |        |
| FM   | (30°-60°)   | 23694.1 | 60.6      |                         |      |        |
| FH   | (60°-80°)   | 14036.6 | 35.9      |                         |      | G5     |
| FVH  | (80°-90°)   | 70.4    | 0.2       |                         |      | G1/100 |
| BL   | (0°-30°)    | 26.1    | 0.1       | B0/110                  |      |        |
| BM   | (30°-60°)   | 146.0   | 0.4       | B0/220                  |      |        |
| BH   | (60°-80°)   | 91.1    | 0.2       | B0/110                  |      | G0/110 |
| BVH  | (80°-90°)   | 3.6     | 0.0       |                         |      | G0/10  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |        |

**BUG Rating: B0-U0-G5**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°      | 15°     | 25°     | 35°     | 44°      | 45°      | 55°     | 65°     | 75°     |
|-------|--------|---------|---------|---------|---------|----------|----------|---------|---------|---------|
| 0°    | 171.2  | 171.2   | 171.2   | 171.2   | 171.2   | 171.2    | 171.2    | 171.2   | 171.2   | 171.2   |
| 2.5°  | 221.3  | 221.3   | 212.5   | 200.7   | 188.9   | 177.1    | 174.1    | 168.2   | 165.3   | 162.3   |
| 5°    | 230.2  | 230.2   | 227.2   | 218.4   | 206.6   | 197.7    | 197.7    | 188.9   | 183.0   | 177.1   |
| 7.5°  | 236.1  | 239.1   | 245.0   | 242.0   | 236.1   | 227.2    | 227.2    | 221.3   | 212.5   | 197.7   |
| 10°   | 245.0  | 253.8   | 265.6   | 271.5   | 274.5   | 274.5    | 271.5    | 268.6   | 253.8   | 233.2   |
| 12.5° | 253.8  | 271.5   | 301.0   | 330.5   | 348.3   | 371.9    | 368.9    | 363.0   | 324.6   | 280.4   |
| 15°   | 271.5  | 298.1   | 360.1   | 445.6   | 578.4   | 661.1    | 693.5    | 664.0   | 537.1   | 377.8   |
| 17.5° | 292.2  | 336.4   | 522.4   | 932.6   | 1528.8  | 1812.1   | 1983.3   | 1844.5  | 1221.8  | 717.2   |
| 20°   | 312.8  | 410.2   | 971.0   | 2417.1  | 3966.5  | 4893.2   | 5150.0   | 4748.6  | 3048.7  | 1366.4  |
| 22.5° | 348.3  | 575.5   | 1968.5  | 4996.5  | 8546.9  | 9936.9   | 10199.6  | 8915.8  | 5757.9  | 2697.5  |
| 25°   | 422.0  | 835.2   | 3394.0  | 8142.6  | 12755.4 | 15101.7  | 14992.5  | 13310.2 | 9340.8  | 4308.9  |
| 27.5° | 528.3  | 1215.9  | 5132.3  | 11569.0 | 16786.8 | 18855.7  | 19103.6  | 17022.9 | 12451.4 | 6336.4  |
| 30°   | 681.7  | 1685.2  | 6997.5  | 14313.7 | 20018.5 | 22255.6  | 22296.9  | 20145.4 | 15234.5 | 8116.0  |
| 32.5° | 829.3  | 2127.9  | 8629.5  | 16966.9 | 23202.9 | 25655.4  | 25838.4  | 23191.1 | 17312.2 | 9969.4  |
| 35°   | 941.5  | 2417.1  | 10282.2 | 19298.4 | 26413.9 | 29793.1  | 29781.3  | 26638.2 | 19773.5 | 11625.1 |
| 37.5° | 950.3  | 2706.3  | 11778.5 | 21683.0 | 30480.8 | 34264.3  | 34639.1  | 31174.3 | 22748.4 | 13673.3 |
| 40°   | 929.7  | 3031.0  | 13673.3 | 25401.6 | 37808.8 | 43613.9  | 43944.5  | 39576.6 | 28715.9 | 17179.4 |
| 42.5° | 953.3  | 3594.7  | 16748.5 | 32269.2 | 49976.9 | 58314.2  | 58951.7  | 54359.5 | 39685.8 | 24333.3 |
| 45°   | 1077.2 | 4654.2  | 23191.1 | 43758.5 | 67321.5 | 77485.7  | 77273.2  | 70659.4 | 52450.0 | 35223.5 |
| 47.5° | 1487.4 | 7248.3  | 32741.4 | 54940.9 | 78406.5 | 87458.0  | 87641.0  | 79557.5 | 59899.0 | 43596.2 |
| 50°   | 2287.2 | 11090.9 | 40765.9 | 60852.3 | 83172.8 | 92253.9  | 92082.7  | 82741.9 | 62729.3 | 47719.1 |
| 52.5° | 2974.9 | 13871.0 | 44791.5 | 62927.1 | 83783.7 | 94623.7  | 94611.9  | 83580.1 | 63169.1 | 48073.3 |
| 55°   | 3146.1 | 14080.5 | 44823.9 | 63039.2 | 85153.1 | 97725.5  | 98115.1  | 85643.0 | 63738.7 | 46526.8 |
| 57.5° | 3078.2 | 12466.2 | 42952.8 | 63688.5 | 87590.8 | 100124.9 | 100145.6 | 87641.0 | 65184.8 | 45579.5 |
| 58°   | 3019.2 | 12212.4 | 42575.1 | 64057.4 | 88009.9 | 100225.3 | 100175.1 | 87732.5 | 66362.3 | 45544.1 |
| 60°   | 2688.6 | 10603.9 | 41102.4 | 64998.8 | 87387.2 | 98165.3  | 97696.0  | 85734.5 | 66188.2 | 45181.0 |
| 62.5° | 2113.1 | 8272.4  | 39653.3 | 63909.8 | 80711.4 | 88192.9  | 88387.7  | 75903.8 | 60338.8 | 43065.0 |
| 65°   | 1682.2 | 6165.2  | 36631.2 | 56059.4 | 66462.7 | 72424.3  | 73150.3  | 61722.9 | 50363.5 | 36465.9 |
| 67.5° | 1339.9 | 4456.4  | 30728.7 | 44632.1 | 52591.7 | 60445.0  | 60973.3  | 51821.4 | 39018.8 | 27939.7 |
| 70°   | 1089.0 | 3013.3  | 21210.8 | 32641.1 | 43377.8 | 52208.0  | 52240.5  | 43050.2 | 29123.2 | 18306.8 |
| 72.5° | 965.1  | 2086.6  | 12312.7 | 23805.0 | 35173.3 | 42542.6  | 41683.8  | 34934.2 | 22382.5 | 10843.0 |
| 75°   | 835.2  | 1384.1  | 6038.3  | 14552.7 | 21325.9 | 21470.5  | 21798.1  | 16205.4 | 11188.3 | 5155.9  |
| 77.5° | 687.6  | 982.8   | 2378.7  | 3975.4  | 6395.4  | 8186.8   | 8490.8   | 6433.8  | 3721.6  | 1269.0  |
| 80°   | 472.2  | 466.3   | 640.4   | 1218.9  | 1829.8  | 2293.1   | 2139.7   | 1655.7  | 973.9   | 487.0   |
| 82.5° | 203.6  | 221.3   | 289.2   | 348.3   | 283.3   | 274.5    | 262.7    | 168.2   | 129.9   | 100.3   |
| 85°   | 64.9   | 59.0    | 62.0    | 62.0    | 50.2    | 38.4     | 38.4     | 17.7    | 0.0     | 0.0     |
| 87.5° | 32.5   | 26.6    | 26.6    | 23.6    | 14.8    | 5.9      | 3.0      | 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°  |
|---------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 171.2   | 0°    | 171.2  | 171.2  | 171.2 | 171.2 | 171.2 | 171.2 | 171.2 | 171.2 | 171.2 | 171.2 |
| 159.4   | 2.5°  | 156.4  | 156.4  | 150.5 | 144.6 | 141.7 | 135.8 | 132.8 | 129.9 | 126.9 | 124.0 |
| 171.2   | 5°    | 165.3  | 162.3  | 153.5 | 144.6 | 135.8 | 126.9 | 121.0 | 115.1 | 109.2 | 106.2 |
| 188.9   | 7.5°  | 180.0  | 174.1  | 156.4 | 141.7 | 129.9 | 118.1 | 112.1 | 103.3 | 97.4  | 88.5  |
| 209.5   | 10°   | 197.7  | 185.9  | 162.3 | 144.6 | 126.9 | 112.1 | 103.3 | 94.4  | 85.6  | 73.8  |
| 239.1   | 12.5° | 221.3  | 200.7  | 171.2 | 141.7 | 121.0 | 103.3 | 94.4  | 82.6  | 73.8  | 64.9  |
| 277.4   | 15°   | 242.0  | 215.4  | 174.1 | 141.7 | 115.1 | 94.4  | 82.6  | 70.8  | 62.0  | 50.2  |
| 348.3   | 17.5° | 271.5  | 227.2  | 171.2 | 132.8 | 106.2 | 82.6  | 70.8  | 62.0  | 47.2  | 29.5  |
| 516.5   | 20°   | 321.7  | 236.1  | 165.3 | 124.0 | 91.5  | 67.9  | 53.1  | 41.3  | 20.7  | 5.9   |
| 776.2   | 22.5° | 401.4  | 259.7  | 159.4 | 112.1 | 79.7  | 53.1  | 35.4  | 14.8  | 0.0   | 0.0   |
| 1180.5  | 25°   | 554.8  | 301.0  | 159.4 | 106.2 | 70.8  | 38.4  | 11.8  | 0.0   | 0.0   | 0.0   |
| 1676.3  | 27.5° | 737.8  | 357.1  | 159.4 | 91.5  | 56.1  | 20.7  | 0.0   | 0.0   | 0.0   | 0.0   |
| 2284.3  | 30°   | 923.7  | 419.1  | 159.4 | 79.7  | 44.3  | 3.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 2812.6  | 32.5° | 1100.8 | 472.2  | 162.3 | 67.9  | 29.5  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 3544.5  | 35°   | 1280.9 | 481.1  | 159.4 | 59.0  | 17.7  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 4441.7  | 37.5° | 1511.1 | 463.3  | 150.5 | 53.1  | 8.9   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 5843.5  | 40°   | 1859.3 | 472.2  | 141.7 | 50.2  | 3.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 8343.3  | 42.5° | 2502.7 | 510.6  | 129.9 | 50.2  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 13289.6 | 45°   | 4326.6 | 684.7  | 118.1 | 53.1  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 19950.6 | 47.5° | 7156.8 | 1230.7 | 115.1 | 53.1  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 24032.2 | 50°   | 9134.2 | 1549.4 | 121.0 | 56.1  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 24542.8 | 52.5° | 9119.4 | 1726.5 | 126.9 | 59.0  | 11.8  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 22621.5 | 55°   | 8107.1 | 1759.0 | 135.8 | 64.9  | 38.4  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 19440.0 | 57.5° | 6776.1 | 1605.5 | 156.4 | 79.7  | 70.8  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 18941.3 | 58°   | 6540.0 | 1534.7 | 162.3 | 82.6  | 76.7  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 16429.7 | 60°   | 5359.5 | 1251.3 | 206.6 | 103.3 | 103.3 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 13469.6 | 62.5° | 3700.9 | 1092.0 | 236.1 | 132.8 | 106.2 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 9931.0  | 65°   | 2617.8 | 985.7  | 256.8 | 141.7 | 85.6  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 7056.5  | 67.5° | 1956.7 | 909.0  | 283.3 | 144.6 | 44.3  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 4426.9  | 70°   | 1499.2 | 852.9  | 348.3 | 153.5 | 11.8  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 2638.4  | 72.5° | 1221.8 | 788.0  | 422.0 | 159.4 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 1581.9  | 75°   | 1012.3 | 711.3  | 407.3 | 174.1 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 844.1   | 77.5° | 672.9  | 551.9  | 371.9 | 174.1 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 301.0   | 80°   | 236.1  | 218.4  | 289.2 | 153.5 | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 62.0    | 82.5° | 35.4   | 29.5   | 41.3  | 53.1  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0     | 85°   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0     | 87.5° | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 0.0     | 90°   | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |



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**CANDELA DISTRIBUTION (continued):**

| 180°  |       | 185°  | 195°  | 205°  | 215°  | 225°  | 235°  | 245°  | 255°  | 265°  | 270°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 171.2 | 0°    | 171.2 | 171.2 | 171.2 | 171.2 | 171.2 | 171.2 | 171.2 | 171.2 | 171.2 | 171.2 |
| 121.0 | 2.5°  | 121.0 | 121.0 | 118.1 | 121.0 | 121.0 | 126.9 | 141.7 | 162.3 | 185.9 | 194.8 |
| 103.3 | 5°    | 100.3 | 97.4  | 94.4  | 94.4  | 94.4  | 103.3 | 115.1 | 138.7 | 165.3 | 177.1 |
| 85.6  | 7.5°  | 82.6  | 79.7  | 76.7  | 73.8  | 73.8  | 79.7  | 94.4  | 121.0 | 147.6 | 159.4 |
| 70.8  | 10°   | 67.9  | 62.0  | 59.0  | 56.1  | 56.1  | 62.0  | 76.7  | 103.3 | 132.8 | 144.6 |
| 59.0  | 12.5° | 56.1  | 47.2  | 41.3  | 38.4  | 35.4  | 44.3  | 59.0  | 82.6  | 115.1 | 129.9 |
| 44.3  | 15°   | 38.4  | 29.5  | 20.7  | 17.7  | 14.8  | 23.6  | 38.4  | 64.9  | 97.4  | 115.1 |
| 23.6  | 17.5° | 20.7  | 8.9   | 3.0   | 0.0   | 0.0   | 5.9   | 17.7  | 47.2  | 79.7  | 94.4  |
| 0.0   | 20°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 23.6  | 59.0  | 73.8  |
| 0.0   | 22.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 3.0   | 35.4  | 50.2  |
| 0.0   | 25°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 14.8  | 26.6  |
| 0.0   | 27.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 5.9   |
| 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   | 8.9   |
| 0.0   | 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 11.8  | 23.6  |
| 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: P1065235

CATALOG NUMBER: GLAN-SA8C-730-U-LBC

**CANDELA DISTRIBUTION (continued):**

| 275°  |       | 285°  | 295°  | 305°  | 315°  | 316°  | 325°  | 335°  | 345°  | 355°  | 360°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 171.2 | 0°    | 171.2 | 171.2 | 171.2 | 171.2 | 171.2 | 171.2 | 171.2 | 171.2 | 171.2 | 171.2  |
| 203.6 | 2.5°  | 209.5 | 206.6 | 200.7 | 194.8 | 194.8 | 194.8 | 203.6 | 212.5 | 221.3 | 221.3  |
| 183.0 | 5°    | 194.8 | 194.8 | 191.8 | 185.9 | 185.9 | 188.9 | 200.7 | 215.4 | 227.2 | 230.2  |
| 168.2 | 7.5°  | 180.0 | 185.9 | 180.0 | 177.1 | 180.0 | 183.0 | 194.8 | 212.5 | 230.2 | 236.1  |
| 156.4 | 10°   | 171.2 | 174.1 | 174.1 | 171.2 | 171.2 | 177.1 | 188.9 | 212.5 | 236.1 | 245.0  |
| 141.7 | 12.5° | 159.4 | 165.3 | 162.3 | 162.3 | 162.3 | 168.2 | 183.0 | 209.5 | 242.0 | 253.8  |
| 126.9 | 15°   | 147.6 | 156.4 | 156.4 | 153.5 | 153.5 | 156.4 | 177.1 | 206.6 | 250.9 | 271.5  |
| 109.2 | 17.5° | 135.8 | 144.6 | 147.6 | 141.7 | 141.7 | 147.6 | 168.2 | 206.6 | 256.8 | 292.2  |
| 88.5  | 20°   | 112.1 | 126.9 | 135.8 | 126.9 | 126.9 | 132.8 | 153.5 | 194.8 | 259.7 | 312.8  |
| 64.9  | 22.5° | 88.5  | 103.3 | 115.1 | 112.1 | 112.1 | 115.1 | 141.7 | 185.9 | 262.7 | 348.3  |
| 38.4  | 25°   | 64.9  | 79.7  | 88.5  | 94.4  | 94.4  | 103.3 | 129.9 | 180.0 | 274.5 | 422.0  |
| 17.7  | 27.5° | 38.4  | 56.1  | 67.9  | 73.8  | 76.7  | 88.5  | 121.0 | 174.1 | 295.1 | 528.3  |
| 0.0   | 30°   | 17.7  | 32.5  | 47.2  | 59.0  | 59.0  | 79.7  | 112.1 | 168.2 | 321.7 | 681.7  |
| 0.0   | 32.5° | 0.0   | 14.8  | 23.6  | 41.3  | 44.3  | 64.9  | 103.3 | 162.3 | 360.1 | 829.3  |
| 0.0   | 35°   | 0.0   | 0.0   | 11.8  | 32.5  | 32.5  | 53.1  | 94.4  | 156.4 | 419.1 | 941.5  |
| 0.0   | 37.5° | 0.0   | 0.0   | 0.0   | 23.6  | 26.6  | 47.2  | 91.5  | 153.5 | 430.9 | 950.3  |
| 0.0   | 40°   | 0.0   | 0.0   | 0.0   | 17.7  | 20.7  | 44.3  | 91.5  | 156.4 | 389.6 | 929.7  |
| 0.0   | 42.5° | 0.0   | 0.0   | 0.0   | 11.8  | 14.8  | 44.3  | 91.5  | 162.3 | 351.2 | 953.3  |
| 0.0   | 45°   | 0.0   | 0.0   | 0.0   | 8.9   | 11.8  | 47.2  | 88.5  | 159.4 | 330.5 | 1077.2 |
| 0.0   | 47.5° | 0.0   | 0.0   | 0.0   | 11.8  | 17.7  | 47.2  | 85.6  | 156.4 | 333.5 | 1487.4 |
| 0.0   | 50°   | 0.0   | 0.0   | 0.0   | 14.8  | 20.7  | 47.2  | 88.5  | 150.5 | 366.0 | 2287.2 |
| 0.0   | 52.5° | 0.0   | 0.0   | 0.0   | 11.8  | 17.7  | 53.1  | 97.4  | 147.6 | 398.4 | 2974.9 |
| 0.0   | 55°   | 0.0   | 0.0   | 0.0   | 3.0   | 8.9   | 67.9  | 106.2 | 147.6 | 448.6 | 3146.1 |
| 0.0   | 57.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 76.7  | 121.0 | 156.4 | 531.2 | 3078.2 |
| 0.0   | 58°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 76.7  | 124.0 | 156.4 | 537.1 | 3019.2 |
| 0.0   | 60°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 76.7  | 135.8 | 174.1 | 578.4 | 2688.6 |
| 0.0   | 62.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 64.9  | 162.3 | 218.4 | 602.1 | 2113.1 |
| 0.0   | 65°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 53.1  | 191.8 | 239.1 | 619.8 | 1682.2 |
| 0.0   | 67.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 50.2  | 197.7 | 242.0 | 628.6 | 1339.9 |
| 0.0   | 70°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 53.1  | 194.8 | 259.7 | 658.1 | 1089.0 |
| 0.0   | 72.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 59.0  | 177.1 | 286.3 | 658.1 | 965.1  |
| 0.0   | 75°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 62.0  | 165.3 | 321.7 | 599.1 | 835.2  |
| 0.0   | 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 59.0  | 162.3 | 374.8 | 534.2 | 687.6  |
| 0.0   | 80°   | 5.9   | 8.9   | 8.9   | 5.9   | 5.9   | 50.2  | 159.4 | 380.7 | 454.5 | 472.2  |
| 3.0   | 82.5° | 17.7  | 23.6  | 20.7  | 14.8  | 14.8  | 44.3  | 141.7 | 318.7 | 236.1 | 203.6  |
| 17.7  | 85°   | 32.5  | 38.4  | 38.4  | 32.5  | 32.5  | 41.3  | 88.5  | 115.1 | 79.7  | 64.9   |
| 32.5  | 87.5° | 44.3  | 50.2  | 50.2  | 44.3  | 44.3  | 41.3  | 38.4  | 35.4  | 32.5  | 32.5   |
| 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: SP1-2407-184-4

Test Date: 10/10/2024

Luminaire Tested: GSS-SB1A-730-U-5WQ

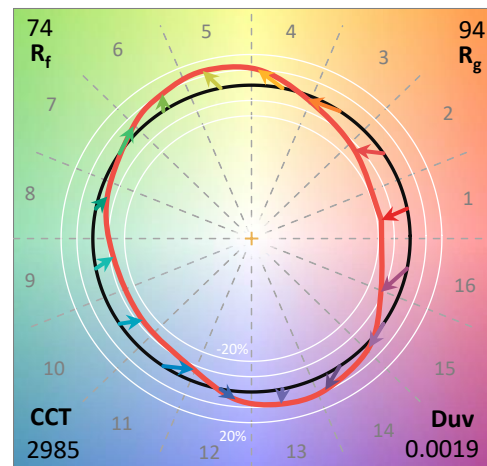
Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2407-184-4  
 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-730-U-5WQ**  
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI  
 3000K CCT 26 LEDS

### Spectral Parameters

|                           |          |           |      |      |       |
|---------------------------|----------|-----------|------|------|-------|
| CCT (K):                  | 2985     | CRI (Ra): | 70.8 |      |       |
| CIE u':                   | 0.2504   | R1:       | 66.3 | R9:  | -43.2 |
| CIE v':                   | 0.5243   | R2:       | 80.6 | R10: | 57.6  |
| Duv:                      | 0.0019   | R3:       | 94.5 | R11: | 64.8  |
| CIE x:                    | 0.4408   | R4:       | 68.2 | R12: | 53.5  |
| CIE y:                    | 0.4101   | R5:       | 66.5 | R13: | 68.7  |
| CIE z:                    | 0.1491   | R6:       | 74.7 | R14: | 97.0  |
| Peak Wavelength (nm):     | 595      | R7:       | 76.2 | R15: | 56.4  |
| Dominant Wavelength (nm): | 582      | R8:       | 39.6 |      |       |
| Purity:                   | 55.41818 |           |      |      |       |
| Rf:                       | 73.8     |           |      |      |       |
| Rg:                       | 94.4     |           |      |      |       |



### Test Conditions

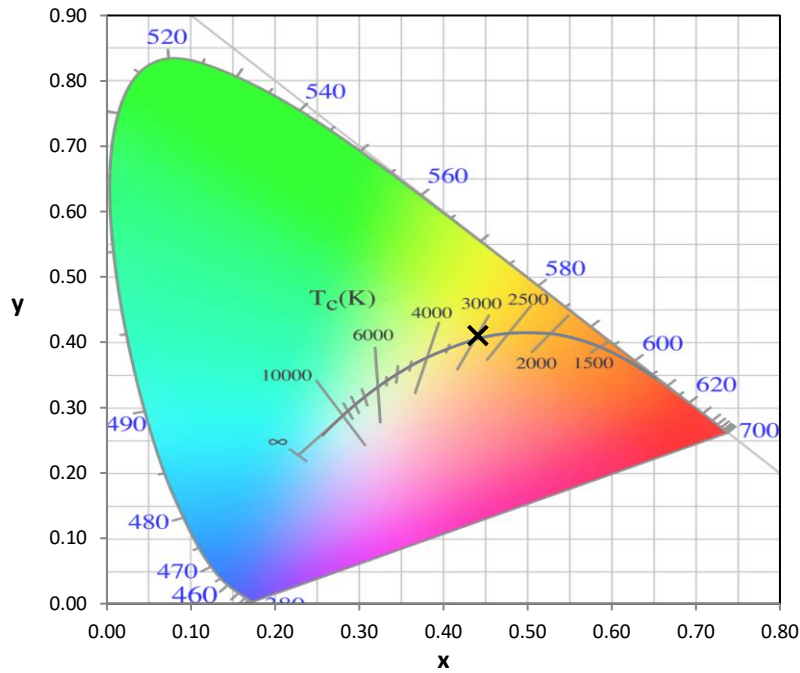
Stabilization Time: 36M  
 Operation Time: 1H 36M  
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

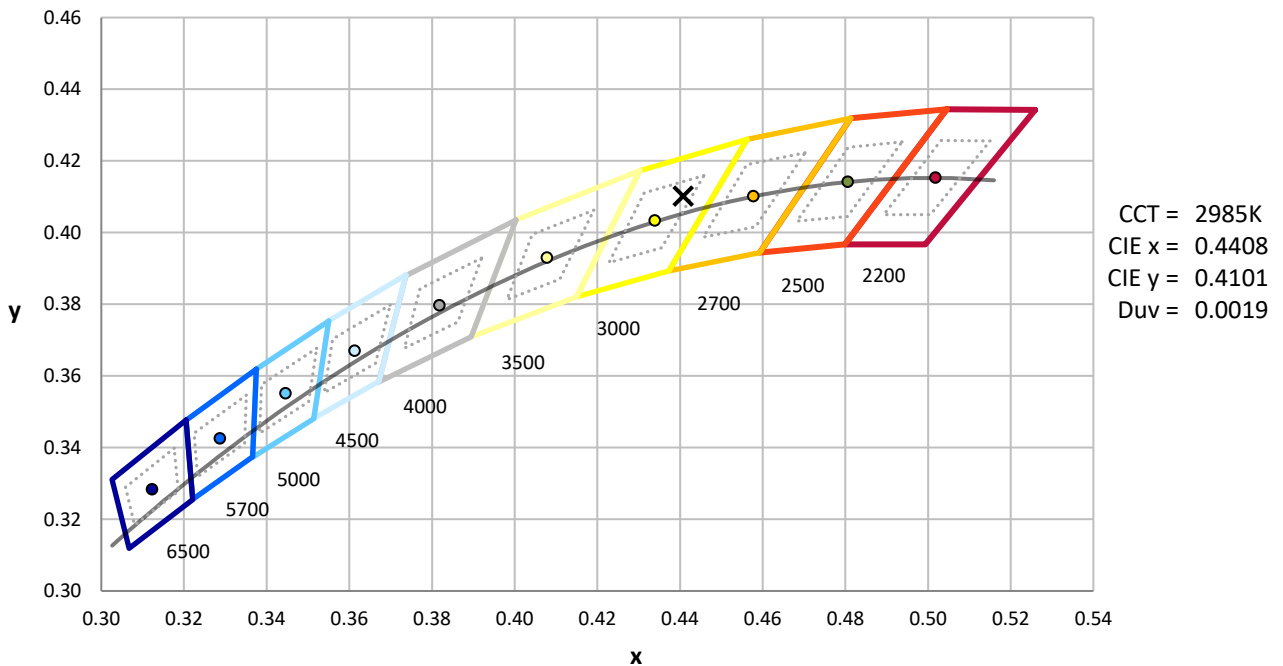
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| 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: SP1-2407-184-4

**CIE 1931 Chromaticity Diagram**



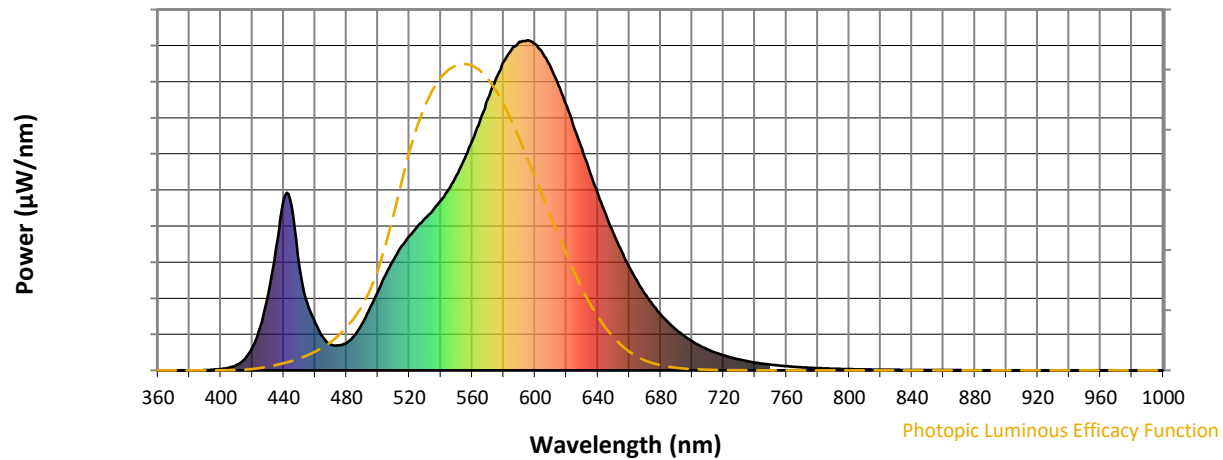
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

### Photopic Flux vs. Wavelength



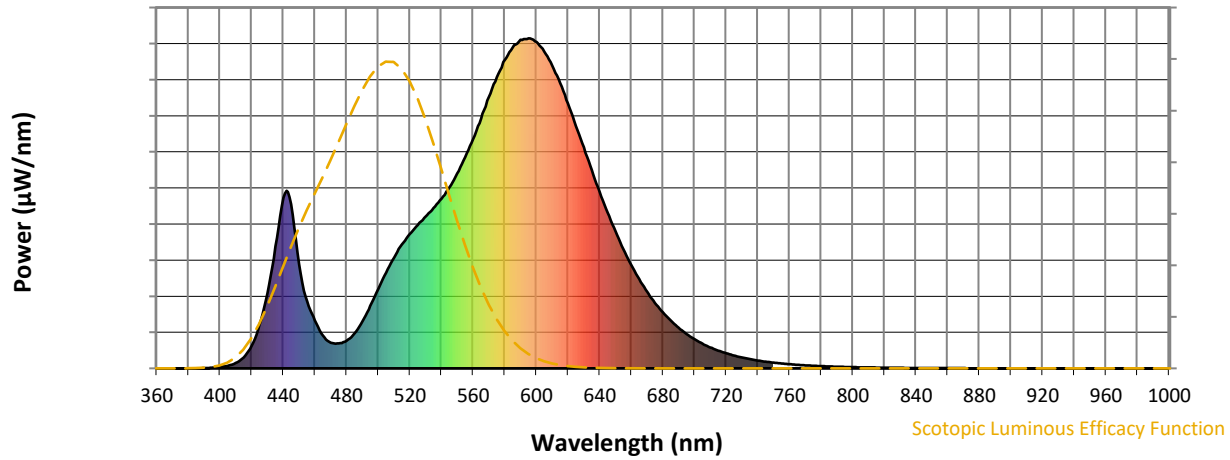
### Photopic Lumens: NR

| $\lambda$<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               | 142                                  | NR                             | 620               | 803                                  | NR                             | 750               | 17                                   | NR                             | 880               | 0                                    | NR                             |
| 365               | 0                                    | NR                             | 495               | 189                                  | NR                             | 625               | 734                                  | NR                             | 755               | 15                                   | NR                             | 885               | 0                                    | NR                             |
| 370               | 0                                    | NR                             | 500               | 240                                  | NR                             | 630               | 670                                  | NR                             | 760               | 13                                   | NR                             | 890               | 0                                    | NR                             |
| 375               | 0                                    | NR                             | 505               | 290                                  | NR                             | 635               | 600                                  | NR                             | 765               | 11                                   | NR                             | 895               | 0                                    | NR                             |
| 380               | 0                                    | NR                             | 510               | 335                                  | NR                             | 640               | 535                                  | NR                             | 770               | 9                                    | NR                             | 900               | 0                                    | NR                             |
| 385               | 0                                    | NR                             | 515               | 375                                  | NR                             | 645               | 473                                  | NR                             | 775               | 8                                    | NR                             | 905               | 0                                    | NR                             |
| 390               | 1                                    | NR                             | 520               | 408                                  | NR                             | 650               | 415                                  | NR                             | 780               | 7                                    | NR                             | 910               | 0                                    | NR                             |
| 395               | 2                                    | NR                             | 525               | 434                                  | NR                             | 655               | 362                                  | NR                             | 785               | 6                                    | NR                             | 915               | 0                                    | NR                             |
| 400               | 4                                    | NR                             | 530               | 461                                  | NR                             | 660               | 313                                  | NR                             | 790               | 5                                    | NR                             | 920               | 0                                    | NR                             |
| 405               | 8                                    | NR                             | 535               | 486                                  | NR                             | 665               | 271                                  | NR                             | 795               | 4                                    | NR                             | 925               | 0                                    | NR                             |
| 410               | 16                                   | NR                             | 540               | 514                                  | NR                             | 670               | 231                                  | NR                             | 800               | 4                                    | NR                             | 930               | 0                                    | NR                             |
| 415               | 33                                   | NR                             | 545               | 549                                  | NR                             | 675               | 198                                  | NR                             | 805               | 3                                    | NR                             | 935               | 0                                    | NR                             |
| 420               | 69                                   | NR                             | 550               | 591                                  | NR                             | 680               | 169                                  | NR                             | 810               | 3                                    | NR                             | 940               | 0                                    | NR                             |
| 425               | 131                                  | NR                             | 555               | 640                                  | NR                             | 685               | 144                                  | NR                             | 815               | 2                                    | NR                             | 945               | 0                                    | NR                             |
| 430               | 227                                  | NR                             | 560               | 695                                  | NR                             | 690               | 123                                  | NR                             | 820               | 2                                    | NR                             | 950               | 0                                    | NR                             |
| 435               | 369                                  | NR                             | 565               | 757                                  | NR                             | 695               | 104                                  | NR                             | 825               | 2                                    | NR                             | 955               | 0                                    | NR                             |
| 440               | 517                                  | NR                             | 570               | 822                                  | NR                             | 700               | 88                                   | NR                             | 830               | 2                                    | NR                             | 960               | 0                                    | NR                             |
| 445               | 498                                  | NR                             | 575               | 882                                  | NR                             | 705               | 75                                   | NR                             | 835               | 1                                    | NR                             | 965               | 0                                    | NR                             |
| 450               | 315                                  | NR                             | 580               | 935                                  | NR                             | 710               | 63                                   | NR                             | 840               | 1                                    | NR                             | 970               | 0                                    | NR                             |
| 455               | 204                                  | NR                             | 585               | 972                                  | NR                             | 715               | 54                                   | NR                             | 845               | 1                                    | NR                             | 975               | 0                                    | NR                             |
| 460               | 145                                  | NR                             | 590               | 996                                  | NR                             | 720               | 46                                   | NR                             | 850               | 1                                    | NR                             | 980               | 0                                    | NR                             |
| 465               | 100                                  | NR                             | 595               | 1000                                 | NR                             | 725               | 39                                   | NR                             | 855               | 1                                    | NR                             | 985               | 0                                    | NR                             |
| 470               | 78                                   | NR                             | 600               | 989                                  | NR                             | 730               | 33                                   | NR                             | 860               | 1                                    | NR                             | 990               | 0                                    | NR                             |
| 475               | 76                                   | NR                             | 605               | 960                                  | NR                             | 735               | 28                                   | NR                             | 865               | 1                                    | NR                             | 995               | 0                                    | NR                             |
| 480               | 83                                   | NR                             | 610               | 918                                  | NR                             | 740               | 24                                   | NR                             | 870               | 1                                    | NR                             | 1000              | 0                                    | NR                             |
| 485               | 105                                  | NR                             | 615               | 864                                  | NR                             | 745               | 20                                   | NR                             | 875               | 1                                    | NR                             |                   |                                      |                                |



REPORT NUMBER: SP1-2407-184-4

### Scotopic Flux vs. Wavelength



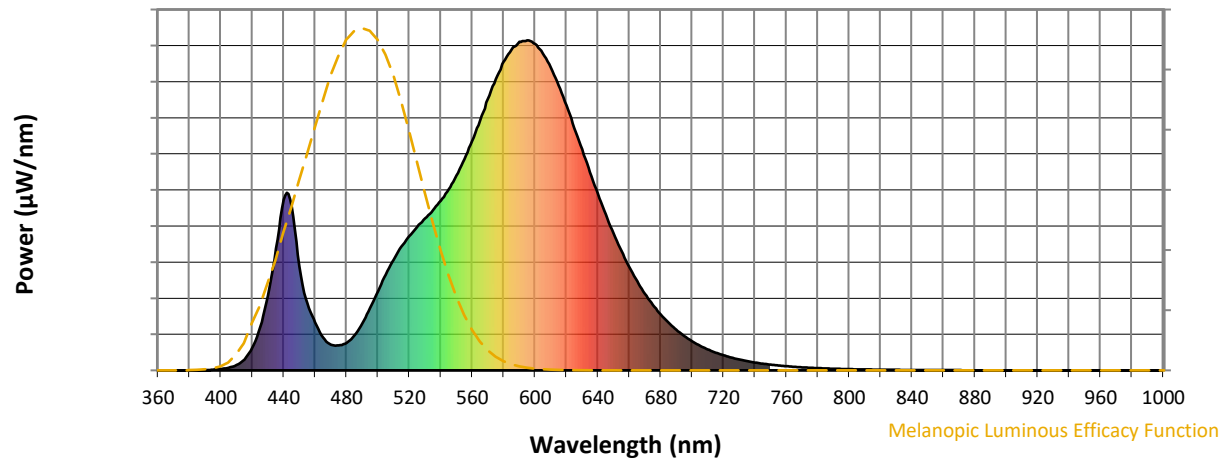
Scotopic Lumens: NR

S/P: 1.19

| $\lambda$<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               | 142                                  | NR                             | 620               | 803                                  | NR                             | 750               | 17                                   | NR                             | 880               | 0                                    | NR                             |
| 365               | 0                                    | NR                             | 495               | 189                                  | NR                             | 625               | 734                                  | NR                             | 755               | 15                                   | NR                             | 885               | 0                                    | NR                             |
| 370               | 0                                    | NR                             | 500               | 240                                  | NR                             | 630               | 670                                  | NR                             | 760               | 13                                   | NR                             | 890               | 0                                    | NR                             |
| 375               | 0                                    | NR                             | 505               | 290                                  | NR                             | 635               | 600                                  | NR                             | 765               | 11                                   | NR                             | 895               | 0                                    | NR                             |
| 380               | 0                                    | NR                             | 510               | 335                                  | NR                             | 640               | 535                                  | NR                             | 770               | 9                                    | NR                             | 900               | 0                                    | NR                             |
| 385               | 0                                    | NR                             | 515               | 375                                  | NR                             | 645               | 473                                  | NR                             | 775               | 8                                    | NR                             | 905               | 0                                    | NR                             |
| 390               | 1                                    | NR                             | 520               | 408                                  | NR                             | 650               | 415                                  | NR                             | 780               | 7                                    | NR                             | 910               | 0                                    | NR                             |
| 395               | 2                                    | NR                             | 525               | 434                                  | NR                             | 655               | 362                                  | NR                             | 785               | 6                                    | NR                             | 915               | 0                                    | NR                             |
| 400               | 4                                    | NR                             | 530               | 461                                  | NR                             | 660               | 313                                  | NR                             | 790               | 5                                    | NR                             | 920               | 0                                    | NR                             |
| 405               | 8                                    | NR                             | 535               | 486                                  | NR                             | 665               | 271                                  | NR                             | 795               | 4                                    | NR                             | 925               | 0                                    | NR                             |
| 410               | 16                                   | NR                             | 540               | 514                                  | NR                             | 670               | 231                                  | NR                             | 800               | 4                                    | NR                             | 930               | 0                                    | NR                             |
| 415               | 33                                   | NR                             | 545               | 549                                  | NR                             | 675               | 198                                  | NR                             | 805               | 3                                    | NR                             | 935               | 0                                    | NR                             |
| 420               | 69                                   | NR                             | 550               | 591                                  | NR                             | 680               | 169                                  | NR                             | 810               | 3                                    | NR                             | 940               | 0                                    | NR                             |
| 425               | 131                                  | NR                             | 555               | 640                                  | NR                             | 685               | 144                                  | NR                             | 815               | 2                                    | NR                             | 945               | 0                                    | NR                             |
| 430               | 227                                  | NR                             | 560               | 695                                  | NR                             | 690               | 123                                  | NR                             | 820               | 2                                    | NR                             | 950               | 0                                    | NR                             |
| 435               | 369                                  | NR                             | 565               | 757                                  | NR                             | 695               | 104                                  | NR                             | 825               | 2                                    | NR                             | 955               | 0                                    | NR                             |
| 440               | 517                                  | NR                             | 570               | 822                                  | NR                             | 700               | 88                                   | NR                             | 830               | 2                                    | NR                             | 960               | 0                                    | NR                             |
| 445               | 498                                  | NR                             | 575               | 882                                  | NR                             | 705               | 75                                   | NR                             | 835               | 1                                    | NR                             | 965               | 0                                    | NR                             |
| 450               | 315                                  | NR                             | 580               | 935                                  | NR                             | 710               | 63                                   | NR                             | 840               | 1                                    | NR                             | 970               | 0                                    | NR                             |
| 455               | 204                                  | NR                             | 585               | 972                                  | NR                             | 715               | 54                                   | NR                             | 845               | 1                                    | NR                             | 975               | 0                                    | NR                             |
| 460               | 145                                  | NR                             | 590               | 996                                  | NR                             | 720               | 46                                   | NR                             | 850               | 1                                    | NR                             | 980               | 0                                    | NR                             |
| 465               | 100                                  | NR                             | 595               | 1000                                 | NR                             | 725               | 39                                   | NR                             | 855               | 1                                    | NR                             | 985               | 0                                    | NR                             |
| 470               | 78                                   | NR                             | 600               | 989                                  | NR                             | 730               | 33                                   | NR                             | 860               | 1                                    | NR                             | 990               | 0                                    | NR                             |
| 475               | 76                                   | NR                             | 605               | 960                                  | NR                             | 735               | 28                                   | NR                             | 865               | 1                                    | NR                             | 995               | 0                                    | NR                             |
| 480               | 83                                   | NR                             | 610               | 918                                  | NR                             | 740               | 24                                   | NR                             | 870               | 1                                    | NR                             | 1000              | 0                                    | NR                             |
| 485               | 105                                  | NR                             | 615               | 864                                  | NR                             | 745               | 20                                   | NR                             | 875               | 1                                    | NR                             |                   |                                      |                                |

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### Melanopic Flux vs. Wavelength


**Melanopic Lumens: NR**
**M/P: 2.13**

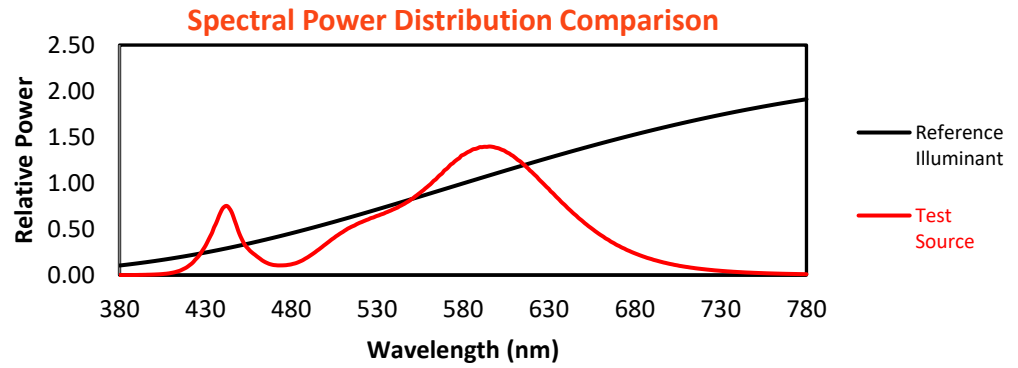
| $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<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               | 142                                  | NR                             | 620               | 803                                  | NR                             | 750               | 17                                   | NR                             | 880               | 0                                    | NR                             |
| 365               | 0                                    | NR                             | 495               | 189                                  | NR                             | 625               | 734                                  | NR                             | 755               | 15                                   | NR                             | 885               | 0                                    | NR                             |
| 370               | 0                                    | NR                             | 500               | 240                                  | NR                             | 630               | 670                                  | NR                             | 760               | 13                                   | NR                             | 890               | 0                                    | NR                             |
| 375               | 0                                    | NR                             | 505               | 290                                  | NR                             | 635               | 600                                  | NR                             | 765               | 11                                   | NR                             | 895               | 0                                    | NR                             |
| 380               | 0                                    | NR                             | 510               | 335                                  | NR                             | 640               | 535                                  | NR                             | 770               | 9                                    | NR                             | 900               | 0                                    | NR                             |
| 385               | 0                                    | NR                             | 515               | 375                                  | NR                             | 645               | 473                                  | NR                             | 775               | 8                                    | NR                             | 905               | 0                                    | NR                             |
| 390               | 1                                    | NR                             | 520               | 408                                  | NR                             | 650               | 415                                  | NR                             | 780               | 7                                    | NR                             | 910               | 0                                    | NR                             |
| 395               | 2                                    | NR                             | 525               | 434                                  | NR                             | 655               | 362                                  | NR                             | 785               | 6                                    | NR                             | 915               | 0                                    | NR                             |
| 400               | 4                                    | NR                             | 530               | 461                                  | NR                             | 660               | 313                                  | NR                             | 790               | 5                                    | NR                             | 920               | 0                                    | NR                             |
| 405               | 8                                    | NR                             | 535               | 486                                  | NR                             | 665               | 271                                  | NR                             | 795               | 4                                    | NR                             | 925               | 0                                    | NR                             |
| 410               | 16                                   | NR                             | 540               | 514                                  | NR                             | 670               | 231                                  | NR                             | 800               | 4                                    | NR                             | 930               | 0                                    | NR                             |
| 415               | 33                                   | NR                             | 545               | 549                                  | NR                             | 675               | 198                                  | NR                             | 805               | 3                                    | NR                             | 935               | 0                                    | NR                             |
| 420               | 69                                   | NR                             | 550               | 591                                  | NR                             | 680               | 169                                  | NR                             | 810               | 3                                    | NR                             | 940               | 0                                    | NR                             |
| 425               | 131                                  | NR                             | 555               | 640                                  | NR                             | 685               | 144                                  | NR                             | 815               | 2                                    | NR                             | 945               | 0                                    | NR                             |
| 430               | 227                                  | NR                             | 560               | 695                                  | NR                             | 690               | 123                                  | NR                             | 820               | 2                                    | NR                             | 950               | 0                                    | NR                             |
| 435               | 369                                  | NR                             | 565               | 757                                  | NR                             | 695               | 104                                  | NR                             | 825               | 2                                    | NR                             | 955               | 0                                    | NR                             |
| 440               | 517                                  | NR                             | 570               | 822                                  | NR                             | 700               | 88                                   | NR                             | 830               | 2                                    | NR                             | 960               | 0                                    | NR                             |
| 445               | 498                                  | NR                             | 575               | 882                                  | NR                             | 705               | 75                                   | NR                             | 835               | 1                                    | NR                             | 965               | 0                                    | NR                             |
| 450               | 315                                  | NR                             | 580               | 935                                  | NR                             | 710               | 63                                   | NR                             | 840               | 1                                    | NR                             | 970               | 0                                    | NR                             |
| 455               | 204                                  | NR                             | 585               | 972                                  | NR                             | 715               | 54                                   | NR                             | 845               | 1                                    | NR                             | 975               | 0                                    | NR                             |
| 460               | 145                                  | NR                             | 590               | 996                                  | NR                             | 720               | 46                                   | NR                             | 850               | 1                                    | NR                             | 980               | 0                                    | NR                             |
| 465               | 100                                  | NR                             | 595               | 1000                                 | NR                             | 725               | 39                                   | NR                             | 855               | 1                                    | NR                             | 985               | 0                                    | NR                             |
| 470               | 78                                   | NR                             | 600               | 989                                  | NR                             | 730               | 33                                   | NR                             | 860               | 1                                    | NR                             | 990               | 0                                    | NR                             |
| 475               | 76                                   | NR                             | 605               | 960                                  | NR                             | 735               | 28                                   | NR                             | 865               | 1                                    | NR                             | 995               | 0                                    | NR                             |
| 480               | 83                                   | NR                             | 610               | 918                                  | NR                             | 740               | 24                                   | NR                             | 870               | 1                                    | NR                             | 1000              | 0                                    | NR                             |
| 485               | 105                                  | NR                             | 615               | 864                                  | NR                             | 745               | 20                                   | NR                             | 875               | 1                                    | NR                             |                   |                                      |                                |

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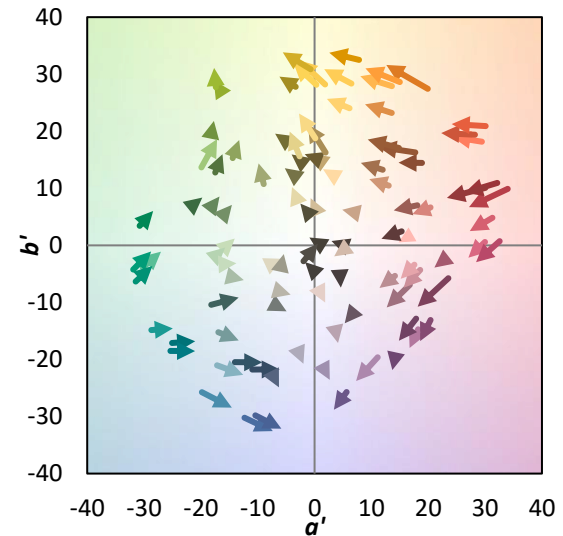
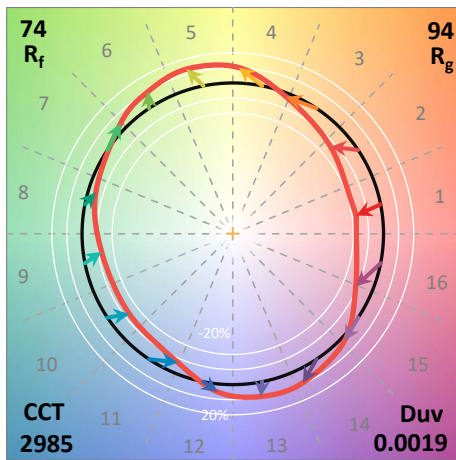
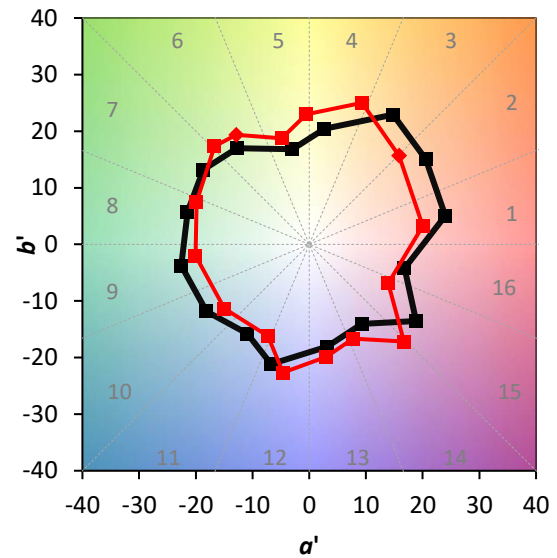
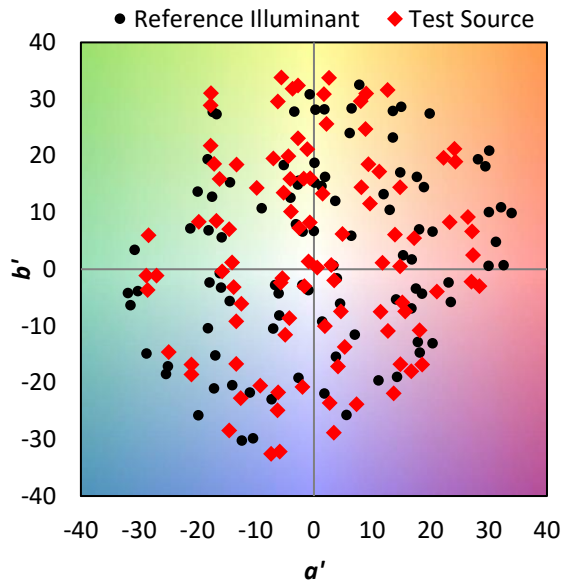
TM-30-18

### Summary

$R_f = 73.8$   
 $R_g = 94.4$   
 $CIE R_a = 70.8$   
 $R_g = -43.2$

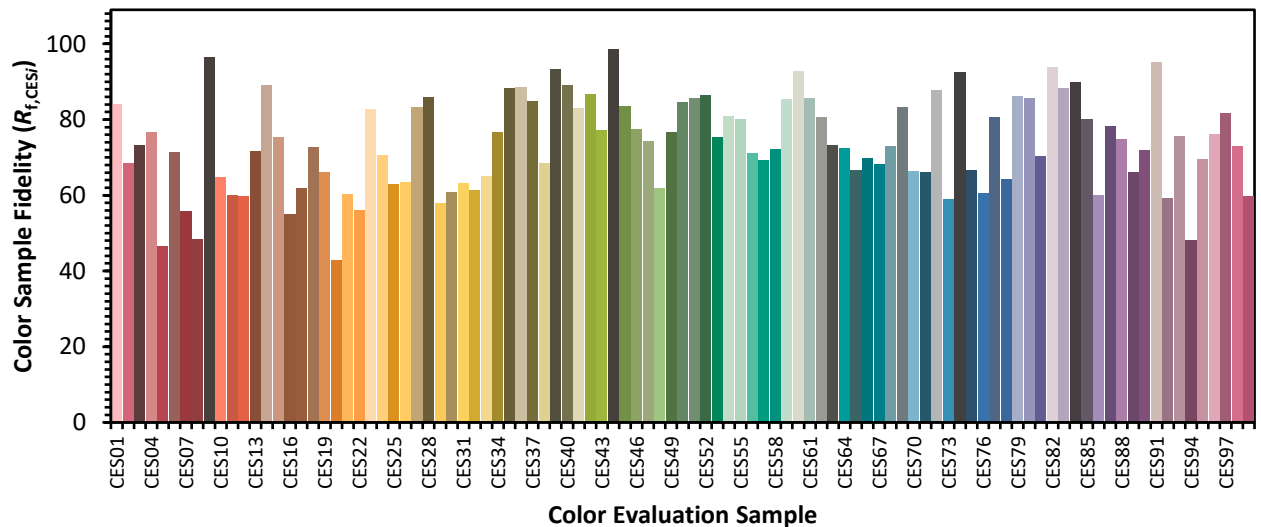


### Color Vector Graphics

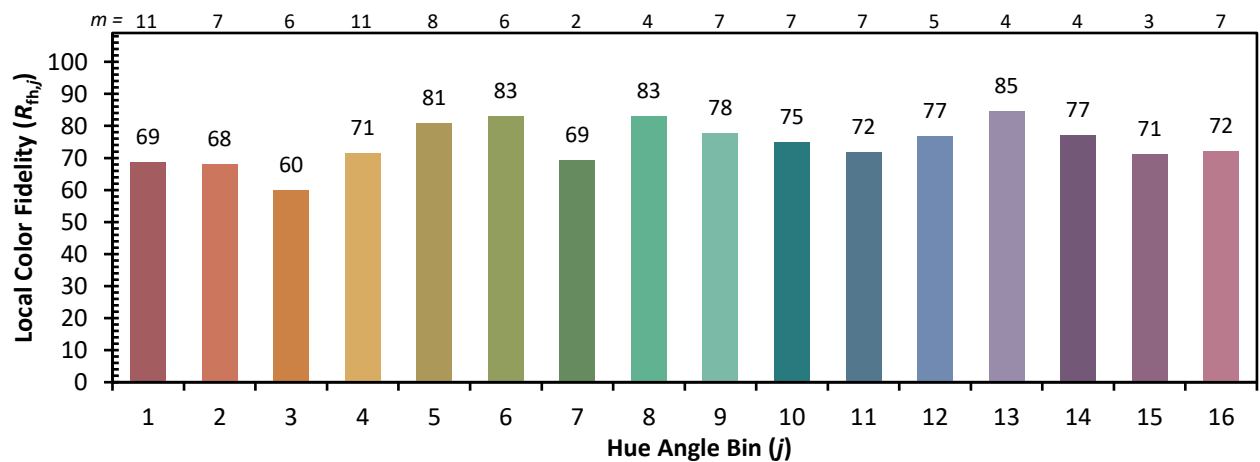
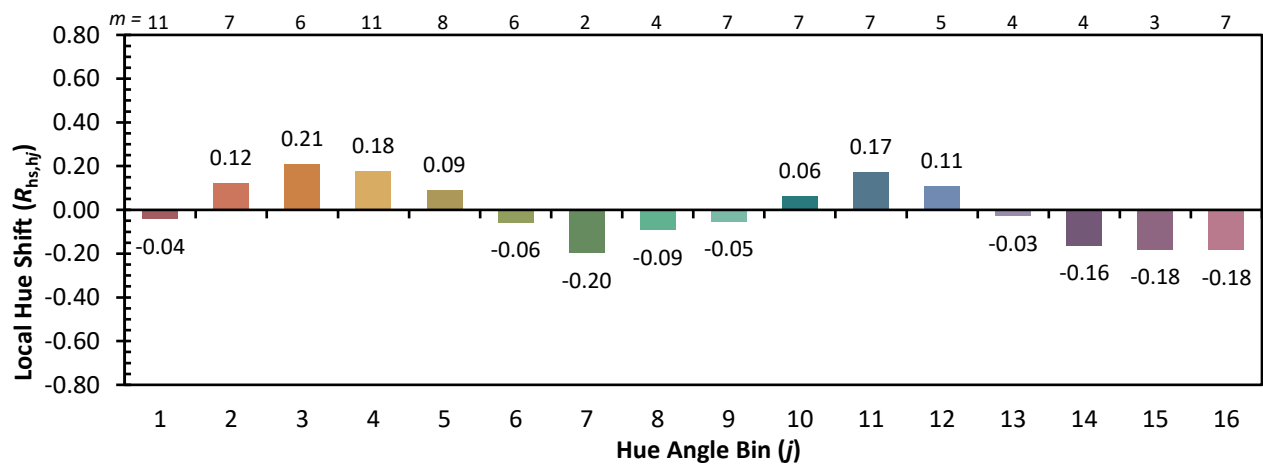
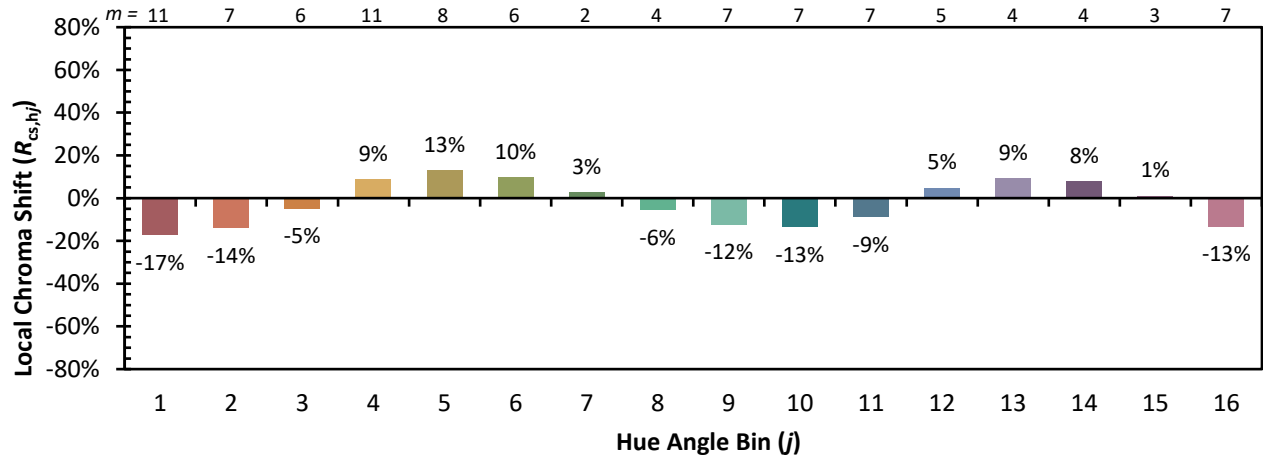


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

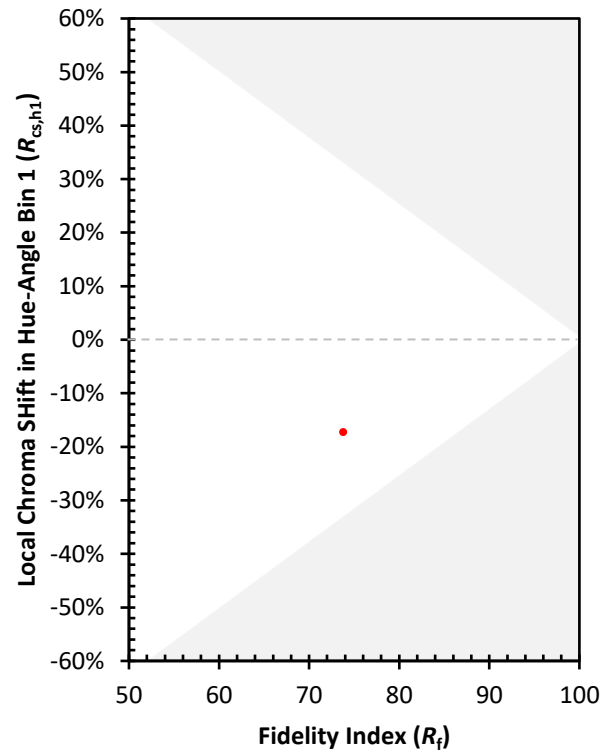
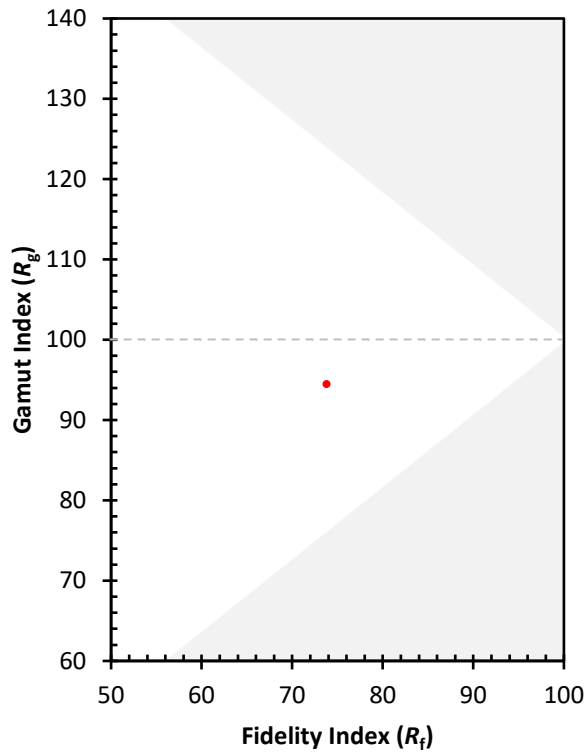
|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 63 | CES51 = 86 | CES76 = 61 |
| CES02 = 62 | CES27 = 83 | CES52 = 86 | CES77 = 81 |
| CES03 = 31 | CES28 = 86 | CES53 = 75 | CES78 = 64 |
| CES04 = 71 | CES29 = 58 | CES54 = 81 | CES79 = 86 |
| CES05 = 49 | CES30 = 61 | CES55 = 80 | CES80 = 86 |
| CES06 = 51 | CES31 = 63 | CES56 = 71 | CES81 = 70 |
| CES07 = 41 | CES32 = 61 | CES57 = 69 | CES82 = 94 |
| CES08 = 40 | CES33 = 65 | CES58 = 72 | CES83 = 88 |
| CES09 = 29 | CES34 = 77 | CES59 = 85 | CES84 = 90 |
| CES10 = 76 | CES35 = 88 | CES60 = 93 | CES85 = 80 |
| CES11 = 59 | CES36 = 89 | CES61 = 86 | CES86 = 60 |
| CES12 = 65 | CES37 = 85 | CES62 = 81 | CES87 = 78 |
| CES13 = 43 | CES38 = 69 | CES63 = 73 | CES88 = 75 |
| CES14 = 74 | CES39 = 93 | CES64 = 72 | CES89 = 66 |
| CES15 = 71 | CES40 = 89 | CES65 = 67 | CES90 = 72 |
| CES16 = 47 | CES41 = 83 | CES66 = 70 | CES91 = 95 |
| CES17 = 50 | CES42 = 87 | CES67 = 68 | CES92 = 59 |
| CES18 = 56 | CES43 = 77 | CES68 = 73 | CES93 = 76 |
| CES19 = 73 | CES44 = 99 | CES69 = 83 | CES94 = 48 |
| CES20 = 66 | CES45 = 83 | CES70 = 66 | CES95 = 70 |
| CES21 = 87 | CES46 = 77 | CES71 = 66 | CES96 = 76 |
| CES22 = 79 | CES47 = 74 | CES72 = 88 | CES97 = 82 |
| CES23 = 92 | CES48 = 62 | CES73 = 59 | CES98 = 73 |
| CES24 = 91 | CES49 = 77 | CES74 = 93 | CES99 = 60 |
| CES25 = 73 | CES50 = 85 | CES75 = 67 |            |



Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)