

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



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

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: LUMARK

Report Number: P1067963

Luminaire Tested: **NAV-SA6C-730-U-LBC**

Issue Date: 08/07/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1067963  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 08/07/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SA6C-730-U-LBC  
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 6xLight Square PACKAGE  
70CRI 3000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL  
Light Source: (84) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26078.8 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G4

Input Watts (W): 279.1  
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

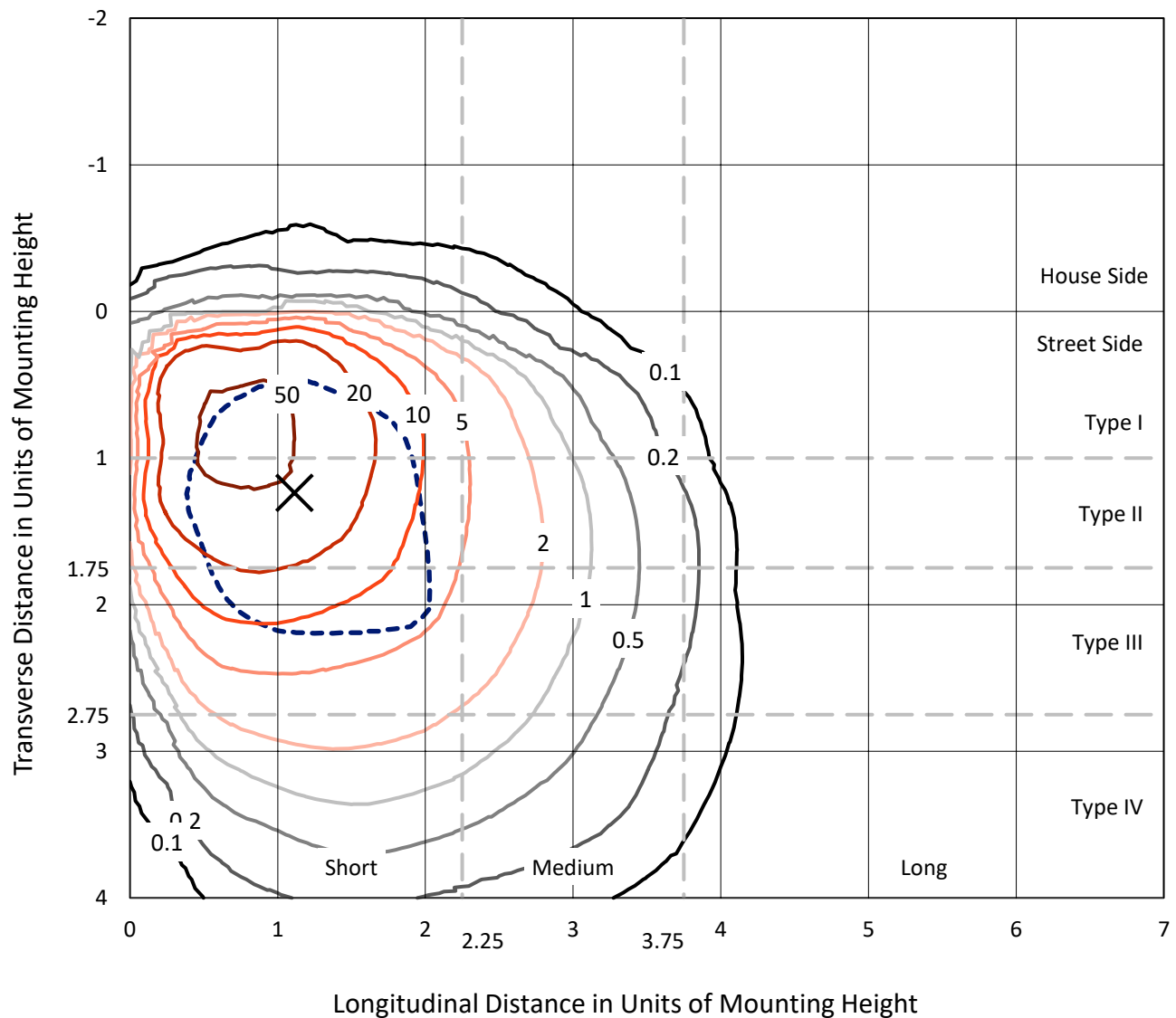


REPORT NUMBER: P1067963

CATALOG NUMBER: NAV-SA6C-730-U-LBC

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

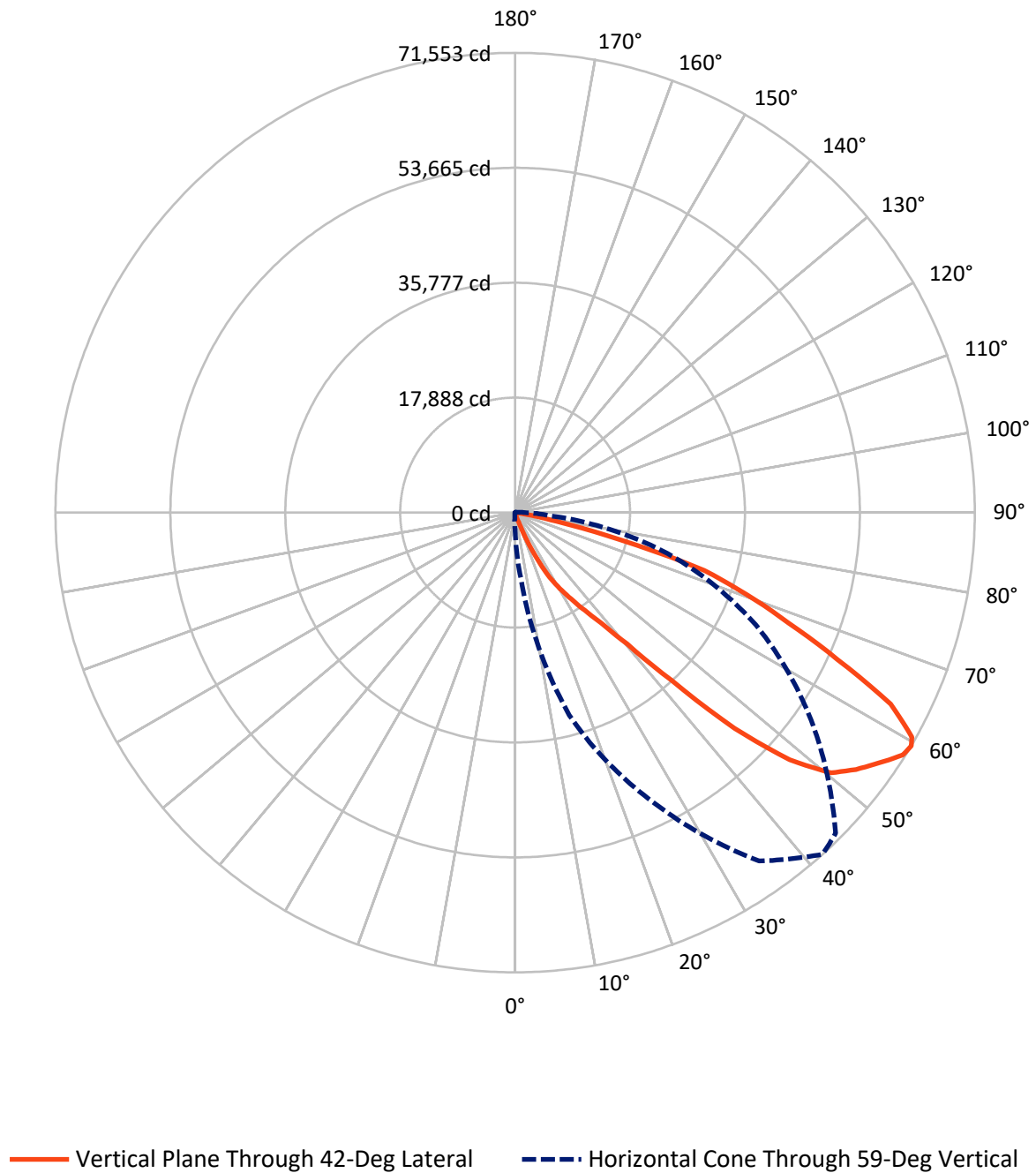


Based on 15 foot mounting height. Maximum calculated value = 77.5 fc  
 Type III - Short - N/A

REPORT NUMBER: P1067963

CATALOG NUMBER: NAV-SA6C-730-U-LBC

## Luminous Intensity Polar Plot



REPORT NUMBER: P1067963

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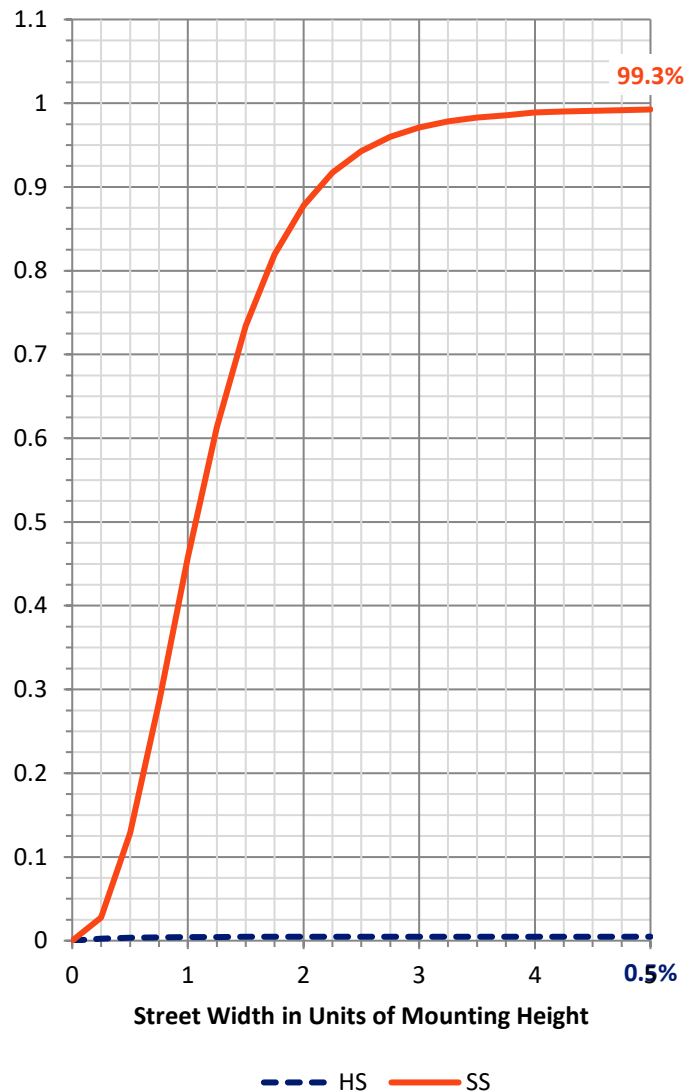
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 125.7    | 0.0    | 125.7   |
|                    | % Fixture | 0.5      | 0.0    | 0.5     |
| <b>Street Side</b> | Lumens    | 25953.1  | 0.0    | 25953.1 |
|                    | % Fixture | 99.5     | 0.0    | 99.5    |
| <b>Total</b>       | Lumens    | 26078.8  | 0.0    | 26078.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 7.6     | 0.0       |
| 10°-20°   | 38.0    | 0.1       |
| 20°-30°   | 486.4   | 1.9       |
| 30°-40°   | 1640.0  | 6.3       |
| 40°-50°   | 4953.6  | 19.0      |
| 50°-60°   | 8744.2  | 33.5      |
| 60°-70°   | 7699.5  | 29.5      |
| 70°-80°   | 2450.8  | 9.4       |
| 80°-90°   | 58.6    | 0.2       |
| 90°-100°  | 0.0     | 0.0       |
| 100°-110° | 0.0     | 0.0       |
| 110°-120° | 0.0     | 0.0       |
| 120°-130° | 0.0     | 0.0       |
| 130°-140° | 0.0     | 0.0       |
| 140°-150° | 0.0     | 0.0       |
| 150°-160° | 0.0     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-90°    | 26078.8 | 100.0     |
| 0°-180°   | 26078.8 | 100.0     |



REPORT NUMBER: P1067963

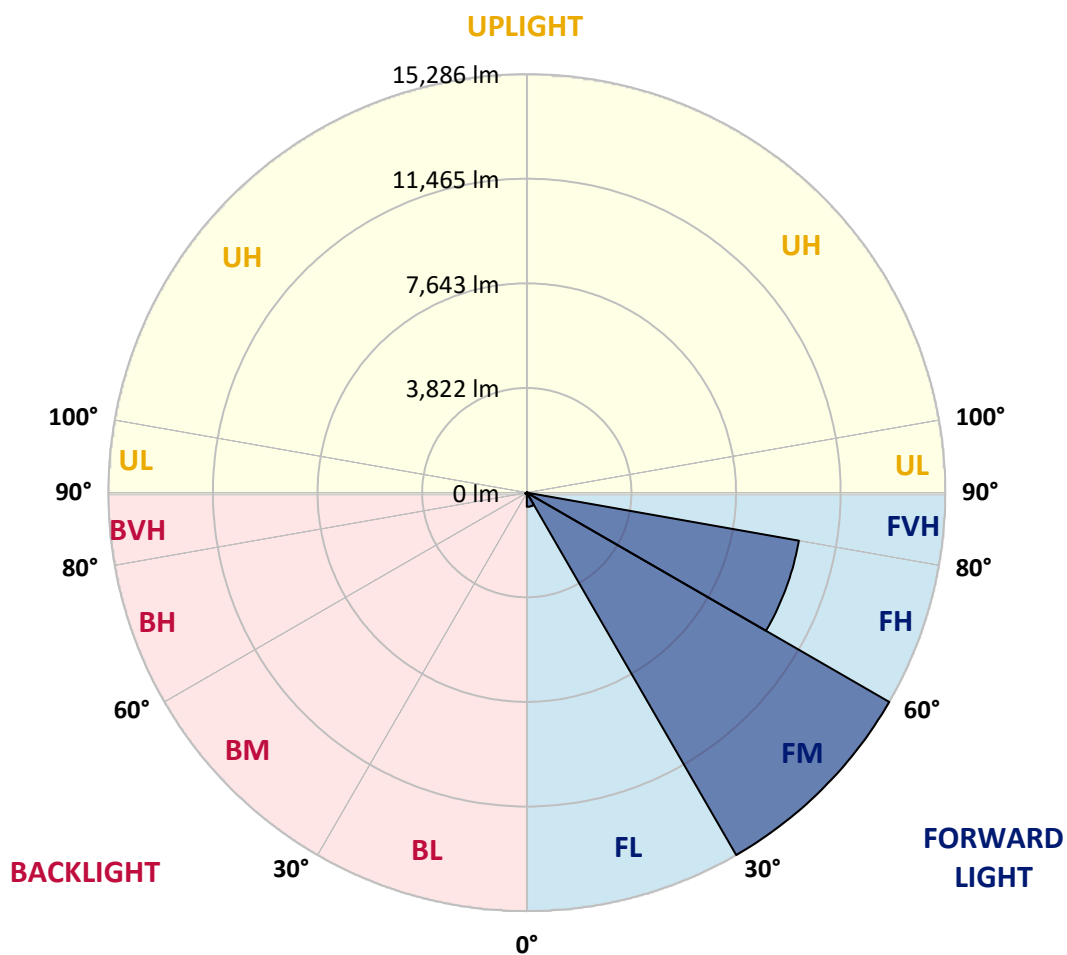
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 518.1   | 2.0       |                         |      |          |
| FM   | (30°-60°)   | 15286.5 | 58.6      |                         |      |          |
| FH   | (60°-80°)   | 10092.7 | 38.7      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 55.8    | 0.2       |                         |      | G1/100   |
| BL   | (0°-30°)    | 14.0    | 0.1       | B0/110                  |      |          |
| BM   | (30°-60°)   | 51.3    | 0.2       | B0/220                  |      |          |
| BH   | (60°-80°)   | 57.5    | 0.2       | B0/110                  |      | G0/110   |
| BVH  | (80°-90°)   | 2.8     | 0.0       |                         |      | G0/10    |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B0-U0-G4**

Type III Short



REPORT NUMBER: P1067963

CATALOG NUMBER: NAV-SA6C-730-U-LBC

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°      | 15°     | 25°     | 35°     | 42°     | 45°     | 55°     | 65°     | 75°     | 85°    |
|-------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 73.6   | 73.6    | 73.6    | 73.6    | 73.6    | 73.6    | 73.6    | 73.6    | 73.6    | 73.6    | 73.6   |
| 2.5°  | 114.5  | 114.5   | 106.3   | 98.1    | 89.9    | 81.8    | 81.8    | 81.8    | 73.6    | 73.6    | 65.4   |
| 5°    | 130.8  | 130.8   | 122.6   | 114.5   | 114.5   | 106.3   | 106.3   | 98.1    | 89.9    | 89.9    | 81.8   |
| 7.5°  | 139.0  | 139.0   | 139.0   | 139.0   | 130.8   | 130.8   | 130.8   | 122.6   | 114.5   | 106.3   | 98.1   |
| 10°   | 147.2  | 155.4   | 163.5   | 163.5   | 163.5   | 163.5   | 163.5   | 155.4   | 139.0   | 130.8   | 114.5  |
| 12.5° | 163.5  | 171.7   | 188.1   | 204.4   | 204.4   | 212.6   | 204.4   | 196.2   | 179.9   | 155.4   | 130.8  |
| 15°   | 179.9  | 196.2   | 220.8   | 253.5   | 286.2   | 294.4   | 294.4   | 269.8   | 237.1   | 188.1   | 155.4  |
| 17.5° | 204.4  | 228.9   | 294.4   | 400.7   | 515.1   | 605.1   | 605.1   | 539.7   | 376.1   | 245.3   | 179.9  |
| 20°   | 220.8  | 269.8   | 474.2   | 964.8   | 1471.8  | 1847.9  | 1774.3  | 1569.9  | 842.2   | 384.3   | 196.2  |
| 22.5° | 245.3  | 343.4   | 1005.7  | 2534.7  | 3924.8  | 4611.6  | 4448.1  | 3376.9  | 1888.8  | 686.8   | 237.1  |
| 25°   | 278.0  | 498.8   | 1995.1  | 4750.6  | 7293.5  | 8037.6  | 7931.3  | 6304.1  | 3442.3  | 1152.9  | 302.5  |
| 27.5° | 343.4  | 735.9   | 3197.0  | 7203.6  | 10760.4 | 11398.1 | 11357.3 | 9231.3  | 5502.8  | 1856.1  | 392.5  |
| 30°   | 433.4  | 1071.1  | 4742.4  | 9787.3  | 13058.0 | 13703.9 | 13499.5 | 11373.6 | 7424.3  | 2837.3  | 506.9  |
| 32.5° | 539.7  | 1496.3  | 6140.6  | 11692.5 | 15175.7 | 16026.1 | 15780.8 | 13237.9 | 8969.7  | 3671.3  | 752.2  |
| 35°   | 703.2  | 1913.3  | 7522.4  | 13376.9 | 17620.5 | 18699.8 | 18291.0 | 15159.4 | 10302.5 | 4611.6  | 907.6  |
| 37.5° | 785.0  | 2158.6  | 8789.8  | 15208.4 | 20367.8 | 21839.6 | 21528.9 | 17587.8 | 11659.8 | 5813.5  | 1112.0 |
| 40°   | 793.1  | 2453.0  | 10106.2 | 17596.0 | 24251.7 | 26876.4 | 26320.4 | 21757.8 | 14186.3 | 7358.9  | 1430.9 |
| 42.5° | 817.7  | 2894.5  | 11815.1 | 21667.9 | 31880.4 | 35649.8 | 35020.2 | 29427.5 | 19918.1 | 10457.8 | 2027.8 |
| 45°   | 932.1  | 3728.5  | 15298.4 | 29280.3 | 42354.6 | 47882.0 | 47154.3 | 40114.2 | 27923.0 | 16287.7 | 3458.7 |
| 47.5° | 1332.8 | 5609.1  | 21406.3 | 37497.7 | 53065.9 | 57473.1 | 57293.2 | 48536.1 | 35175.6 | 22264.8 | 5862.6 |
| 50°   | 2142.3 | 8609.9  | 28356.3 | 44406.9 | 59885.2 | 63670.9 | 63221.2 | 52052.0 | 39312.9 | 26344.9 | 7514.3 |
| 52.5° | 2861.8 | 11479.9 | 32722.6 | 46949.8 | 61921.1 | 66434.6 | 65886.8 | 53335.7 | 40400.4 | 27546.9 | 7972.2 |
| 55°   | 3041.7 | 12518.3 | 34022.7 | 47734.8 | 63270.3 | 68773.1 | 67980.0 | 54194.3 | 40539.4 | 26688.3 | 7211.7 |
| 57.5° | 2951.7 | 11537.1 | 33180.5 | 48503.4 | 65150.9 | 71177.0 | 70122.2 | 55870.5 | 41005.5 | 25232.9 | 6001.6 |
| 59°   | 2796.4 | 10327.0 | 32657.2 | 49116.6 | 66189.3 | 71553.1 | 70563.8 | 56238.4 | 41316.2 | 24570.6 | 5265.7 |
| 60°   | 2616.5 | 9509.3  | 32248.4 | 49517.3 | 66123.9 | 70964.4 | 69942.3 | 56066.7 | 41438.8 | 23998.2 | 4914.1 |
| 62.5° | 2019.6 | 7587.9  | 31659.7 | 49231.1 | 61994.7 | 65592.4 | 65011.9 | 51864.0 | 39640.0 | 22166.7 | 3875.7 |
| 65°   | 1569.9 | 5805.4  | 29501.1 | 43908.2 | 52755.2 | 55175.5 | 54995.6 | 43916.3 | 33360.4 | 19108.6 | 2796.4 |
| 67.5° | 1242.8 | 4235.5  | 24946.7 | 35559.9 | 42444.6 | 45886.9 | 45756.1 | 35649.8 | 25322.8 | 14603.3 | 2011.4 |
| 70°   | 1013.9 | 3017.2  | 17105.4 | 26811.0 | 33949.1 | 38282.7 | 38094.6 | 28691.6 | 18765.2 | 9264.0  | 1463.6 |
| 72.5° | 858.5  | 1929.7  | 10376.1 | 20212.5 | 28331.8 | 30809.3 | 30261.5 | 23147.9 | 13646.7 | 5044.9  | 1161.1 |
| 75°   | 727.7  | 1185.6  | 5143.1  | 12600.1 | 16876.4 | 16860.1 | 16312.2 | 12256.7 | 7326.2  | 2469.3  | 924.0  |
| 77.5° | 588.7  | 834.0   | 2019.6  | 3458.7  | 5322.9  | 6590.3  | 6484.0  | 4341.8  | 2191.3  | 719.5   | 572.4  |
| 80°   | 384.3  | 392.5   | 539.7   | 948.5   | 1463.6  | 1619.0  | 1839.7  | 1324.6  | 637.8   | 343.4   | 237.1  |
| 82.5° | 171.7  | 188.1   | 245.3   | 310.7   | 310.7   | 286.2   | 253.5   | 188.1   | 139.0   | 114.5   | 57.2   |
| 85°   | 40.9   | 57.2    | 40.9    | 49.1    | 40.9    | 32.7    | 32.7    | 16.4    | 0.0     | 0.0     | 0.0    |
| 87.5° | 8.2    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0    |
| 90°   | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0    |

REPORT NUMBER: P1067963

CATALOG NUMBER: NAV-SA6C-730-U-LBC

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°   | 105°  | 115°  | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|-------|-------|-------|------|------|------|------|------|------|------|
| 0°    | 73.6   | 73.6  | 73.6  | 73.6  | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 |
| 2.5°  | 65.4   | 65.4  | 65.4  | 57.2  | 57.2 | 57.2 | 49.1 | 49.1 | 49.1 | 40.9 | 40.9 |
| 5°    | 81.8   | 73.6  | 65.4  | 65.4  | 57.2 | 57.2 | 49.1 | 40.9 | 40.9 | 40.9 | 32.7 |
| 7.5°  | 89.9   | 81.8  | 73.6  | 65.4  | 57.2 | 49.1 | 49.1 | 40.9 | 32.7 | 32.7 | 32.7 |
| 10°   | 106.3  | 98.1  | 81.8  | 65.4  | 57.2 | 49.1 | 40.9 | 40.9 | 32.7 | 24.5 | 24.5 |
| 12.5° | 122.6  | 106.3 | 89.9  | 73.6  | 57.2 | 49.1 | 40.9 | 40.9 | 32.7 | 24.5 | 16.4 |
| 15°   | 139.0  | 122.6 | 98.1  | 73.6  | 57.2 | 49.1 | 40.9 | 40.9 | 24.5 | 16.4 | 8.2  |
| 17.5° | 155.4  | 130.8 | 98.1  | 81.8  | 57.2 | 49.1 | 40.9 | 32.7 | 16.4 | 8.2  | 0.0  |
| 20°   | 163.5  | 139.0 | 106.3 | 81.8  | 57.2 | 49.1 | 40.9 | 24.5 | 8.2  | 0.0  | 0.0  |
| 22.5° | 179.9  | 155.4 | 114.5 | 81.8  | 57.2 | 40.9 | 24.5 | 8.2  | 0.0  | 0.0  | 0.0  |
| 25°   | 212.6  | 163.5 | 114.5 | 81.8  | 57.2 | 40.9 | 16.4 | 0.0  | 0.0  | 0.0  | 0.0  |
| 27.5° | 237.1  | 179.9 | 114.5 | 81.8  | 57.2 | 32.7 | 8.2  | 0.0  | 0.0  | 0.0  | 0.0  |
| 30°   | 278.0  | 196.2 | 122.6 | 81.8  | 57.2 | 24.5 | 8.2  | 0.0  | 0.0  | 0.0  | 0.0  |
| 32.5° | 343.4  | 212.6 | 122.6 | 81.8  | 49.1 | 24.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 35°   | 417.0  | 245.3 | 122.6 | 81.8  | 49.1 | 24.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 37.5° | 425.2  | 261.7 | 122.6 | 81.8  | 49.1 | 16.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 40°   | 441.5  | 245.3 | 130.8 | 81.8  | 49.1 | 16.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 42.5° | 506.9  | 228.9 | 139.0 | 81.8  | 49.1 | 16.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 45°   | 752.2  | 237.1 | 139.0 | 89.9  | 49.1 | 24.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 47.5° | 1308.3 | 245.3 | 130.8 | 89.9  | 49.1 | 24.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 50°   | 1676.2 | 286.2 | 130.8 | 98.1  | 57.2 | 16.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 52.5° | 1782.5 | 335.2 | 130.8 | 106.3 | 73.6 | 8.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 55°   | 1733.4 | 392.5 | 139.0 | 114.5 | 89.9 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 57.5° | 1602.6 | 425.2 | 147.2 | 122.6 | 98.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 59°   | 1463.6 | 449.7 | 171.7 | 130.8 | 98.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 60°   | 1349.1 | 474.2 | 179.9 | 139.0 | 98.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 62.5° | 1087.5 | 506.9 | 196.2 | 163.5 | 81.8 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 65°   | 948.5  | 531.5 | 204.4 | 179.9 | 73.6 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 67.5° | 866.7  | 547.8 | 220.8 | 188.1 | 65.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 70°   | 801.3  | 539.7 | 237.1 | 179.9 | 57.2 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 72.5° | 727.7  | 515.1 | 286.2 | 163.5 | 49.1 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 75°   | 654.1  | 466.1 | 310.7 | 147.2 | 32.7 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 77.5° | 474.2  | 392.5 | 286.2 | 130.8 | 16.4 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 80°   | 204.4  | 212.6 | 204.4 | 98.1  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 82.5° | 40.9   | 49.1  | 40.9  | 24.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 85°   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 87.5° | 0.0    | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 90°   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |



REPORT NUMBER: P1067963

CATALOG NUMBER: NAV-SA6C-730-U-LBC

**CANDELA DISTRIBUTION (continued):**

|       | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270°  | 275°  |
|-------|------|------|------|------|------|------|------|------|------|-------|-------|
| 0°    | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6 | 73.6  | 73.6  |
| 2.5°  | 40.9 | 40.9 | 40.9 | 40.9 | 49.1 | 49.1 | 65.4 | 81.8 | 98.1 | 106.3 | 106.3 |
| 5°    | 32.7 | 32.7 | 32.7 | 32.7 | 32.7 | 40.9 | 49.1 | 65.4 | 89.9 | 98.1  | 98.1  |
| 7.5°  | 24.5 | 24.5 | 24.5 | 24.5 | 24.5 | 24.5 | 40.9 | 57.2 | 81.8 | 89.9  | 98.1  |
| 10°   | 24.5 | 16.4 | 16.4 | 8.2  | 8.2  | 16.4 | 24.5 | 49.1 | 73.6 | 81.8  | 89.9  |
| 12.5° | 16.4 | 8.2  | 8.2  | 0.0  | 0.0  | 8.2  | 16.4 | 40.9 | 65.4 | 73.6  | 81.8  |
| 15°   | 8.2  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.2  | 32.7 | 57.2 | 65.4  | 81.8  |
| 17.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 24.5 | 49.1 | 65.4  | 73.6  |
| 20°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 16.4 | 40.9 | 57.2  | 65.4  |
| 22.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.2  | 32.7 | 49.1  | 57.2  |
| 25°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 24.5 | 32.7  | 40.9  |
| 27.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 16.4 | 24.5  | 32.7  |
| 30°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 16.4 | 24.5  | 32.7  |
| 32.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.2  | 16.4  | 24.5  |
| 35°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.2  | 16.4  | 24.5  |
| 37.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.2  | 16.4  | 16.4  |
| 40°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.2   | 16.4  |
| 42.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.2   | 16.4  |
| 45°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.2   | 16.4  |
| 47.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.2   | 16.4  |
| 50°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.2   | 16.4  |
| 52.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.2   | 8.2   |
| 55°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.2   | 8.2   |
| 57.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 8.2   |
| 59°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 8.2   |
| 60°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 8.2   |
| 62.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 8.2   |
| 65°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 8.2   |
| 67.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 8.2   |
| 70°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 8.2   |
| 72.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 8.2   |
| 75°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.2   | 8.2   |
| 77.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.2   | 16.4  |
| 80°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.2   | 16.4  |
| 82.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.2   | 8.2   |
| 85°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.2   | 8.2   |
| 87.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 8.2   | 8.2   |
| 90°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0   | 0.0   |

REPORT NUMBER: P1067963

CATALOG NUMBER: NAV-SA6C-730-U-LBC

**CANDELA DISTRIBUTION (continued):**

|       | 285°  | 295°  | 305°  | 315° | 318° | 325°  | 335°  | 345°  | 355°  | 360°   |
|-------|-------|-------|-------|------|------|-------|-------|-------|-------|--------|
| 0°    | 73.6  | 73.6  | 73.6  | 73.6 | 73.6 | 73.6  | 73.6  | 73.6  | 73.6  | 73.6   |
| 2.5°  | 114.5 | 114.5 | 106.3 | 98.1 | 98.1 | 98.1  | 106.3 | 114.5 | 114.5 | 114.5  |
| 5°    | 106.3 | 106.3 | 98.1  | 98.1 | 98.1 | 98.1  | 106.3 | 122.6 | 130.8 | 130.8  |
| 7.5°  | 106.3 | 106.3 | 98.1  | 98.1 | 98.1 | 98.1  | 106.3 | 122.6 | 130.8 | 139.0  |
| 10°   | 98.1  | 98.1  | 98.1  | 98.1 | 89.9 | 98.1  | 106.3 | 122.6 | 147.2 | 147.2  |
| 12.5° | 98.1  | 98.1  | 98.1  | 98.1 | 89.9 | 98.1  | 114.5 | 130.8 | 155.4 | 163.5  |
| 15°   | 98.1  | 98.1  | 98.1  | 89.9 | 89.9 | 98.1  | 114.5 | 139.0 | 163.5 | 179.9  |
| 17.5° | 89.9  | 98.1  | 98.1  | 89.9 | 89.9 | 98.1  | 114.5 | 139.0 | 179.9 | 204.4  |
| 20°   | 81.8  | 89.9  | 98.1  | 89.9 | 89.9 | 89.9  | 114.5 | 139.0 | 188.1 | 220.8  |
| 22.5° | 73.6  | 81.8  | 89.9  | 89.9 | 81.8 | 89.9  | 114.5 | 147.2 | 204.4 | 245.3  |
| 25°   | 65.4  | 73.6  | 73.6  | 81.8 | 81.8 | 89.9  | 114.5 | 147.2 | 212.6 | 278.0  |
| 27.5° | 49.1  | 57.2  | 65.4  | 73.6 | 73.6 | 89.9  | 114.5 | 155.4 | 228.9 | 343.4  |
| 30°   | 40.9  | 49.1  | 57.2  | 65.4 | 73.6 | 89.9  | 114.5 | 155.4 | 245.3 | 433.4  |
| 32.5° | 40.9  | 49.1  | 57.2  | 65.4 | 73.6 | 81.8  | 114.5 | 163.5 | 269.8 | 539.7  |
| 35°   | 32.7  | 40.9  | 49.1  | 65.4 | 65.4 | 81.8  | 114.5 | 163.5 | 294.4 | 703.2  |
| 37.5° | 32.7  | 40.9  | 49.1  | 65.4 | 65.4 | 81.8  | 114.5 | 163.5 | 359.8 | 785.0  |
| 40°   | 24.5  | 32.7  | 40.9  | 65.4 | 65.4 | 81.8  | 122.6 | 171.7 | 367.9 | 793.1  |
| 42.5° | 24.5  | 32.7  | 40.9  | 57.2 | 65.4 | 81.8  | 122.6 | 171.7 | 343.4 | 817.7  |
| 45°   | 24.5  | 32.7  | 40.9  | 65.4 | 73.6 | 89.9  | 122.6 | 179.9 | 335.2 | 932.1  |
| 47.5° | 24.5  | 32.7  | 40.9  | 65.4 | 81.8 | 89.9  | 122.6 | 179.9 | 343.4 | 1332.8 |
| 50°   | 24.5  | 32.7  | 40.9  | 65.4 | 89.9 | 89.9  | 122.6 | 179.9 | 376.1 | 2142.3 |
| 52.5° | 16.4  | 24.5  | 32.7  | 57.2 | 73.6 | 98.1  | 130.8 | 171.7 | 400.7 | 2861.8 |
| 55°   | 16.4  | 16.4  | 24.5  | 49.1 | 65.4 | 106.3 | 139.0 | 171.7 | 466.1 | 3041.7 |
| 57.5° | 16.4  | 16.4  | 24.5  | 40.9 | 57.2 | 114.5 | 147.2 | 171.7 | 539.7 | 2951.7 |
| 59°   | 16.4  | 16.4  | 16.4  | 32.7 | 49.1 | 114.5 | 155.4 | 188.1 | 556.0 | 2616.5 |
| 60°   | 16.4  | 16.4  | 16.4  | 32.7 | 49.1 | 114.5 | 155.4 | 188.1 | 556.0 | 2616.5 |
| 62.5° | 8.2   | 8.2   | 8.2   | 32.7 | 40.9 | 114.5 | 171.7 | 228.9 | 572.4 | 2019.6 |
| 65°   | 16.4  | 16.4  | 8.2   | 24.5 | 40.9 | 98.1  | 196.2 | 245.3 | 580.5 | 1569.9 |
| 67.5° | 16.4  | 16.4  | 16.4  | 32.7 | 40.9 | 98.1  | 204.4 | 253.5 | 580.5 | 1242.8 |
| 70°   | 16.4  | 16.4  | 16.4  | 32.7 | 49.1 | 98.1  | 204.4 | 261.7 | 572.4 | 1013.9 |
| 72.5° | 16.4  | 16.4  | 16.4  | 32.7 | 49.1 | 89.9  | 188.1 | 269.8 | 547.8 | 858.5  |
| 75°   | 16.4  | 16.4  | 16.4  | 24.5 | 40.9 | 81.8  | 179.9 | 294.4 | 498.8 | 727.7  |
| 77.5° | 16.4  | 16.4  | 16.4  | 16.4 | 32.7 | 65.4  | 163.5 | 327.1 | 441.5 | 588.7  |
| 80°   | 24.5  | 16.4  | 16.4  | 16.4 | 24.5 | 57.2  | 155.4 | 318.9 | 367.9 | 384.3  |
| 82.5° | 24.5  | 16.4  | 16.4  | 8.2  | 16.4 | 40.9  | 122.6 | 245.3 | 188.1 | 171.7  |
| 85°   | 16.4  | 16.4  | 16.4  | 8.2  | 8.2  | 24.5  | 57.2  | 73.6  | 57.2  | 40.9   |
| 87.5° | 16.4  | 16.4  | 16.4  | 8.2  | 8.2  | 8.2   | 8.2   | 8.2   | 8.2   | 8.2    |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    |

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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-4

Test Date: 10/10/2024

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

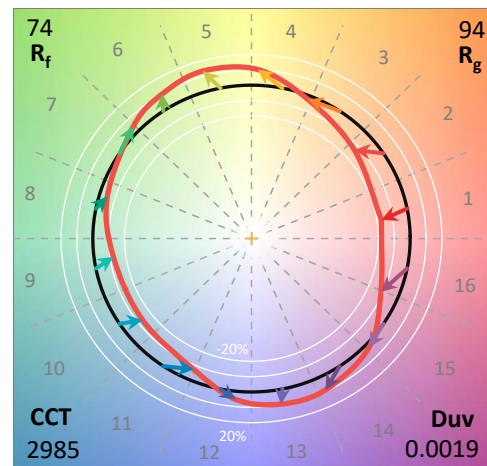
Data in this report applies to families of products including GSS-SB1A-730-U-5WQ

### 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

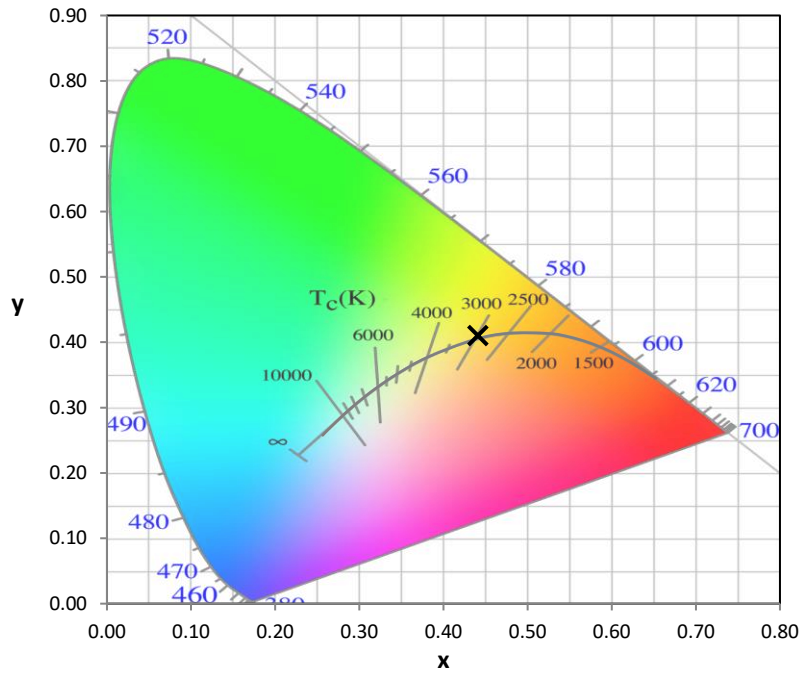
Stabilization Time: 36M  
 Operation Time: 1H 36M  
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-4

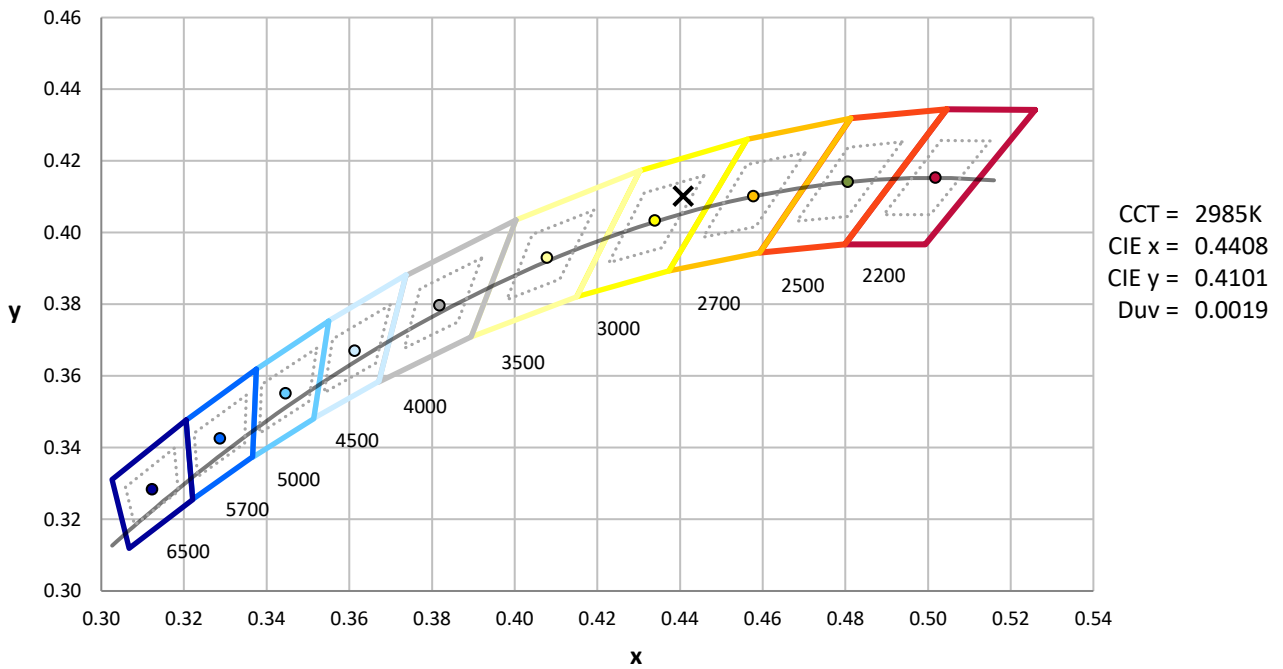
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date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



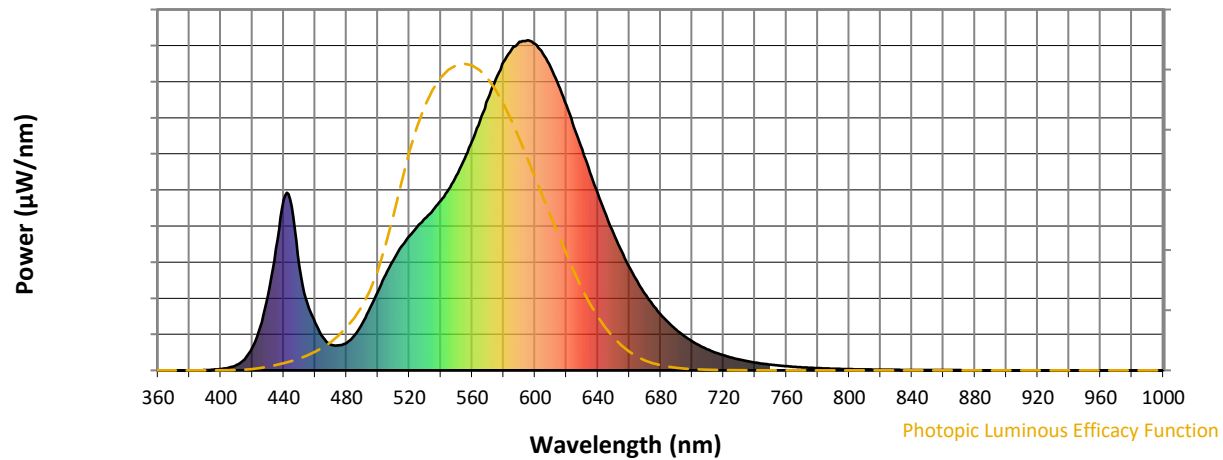
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-4

### Photopic Flux vs. Wavelength

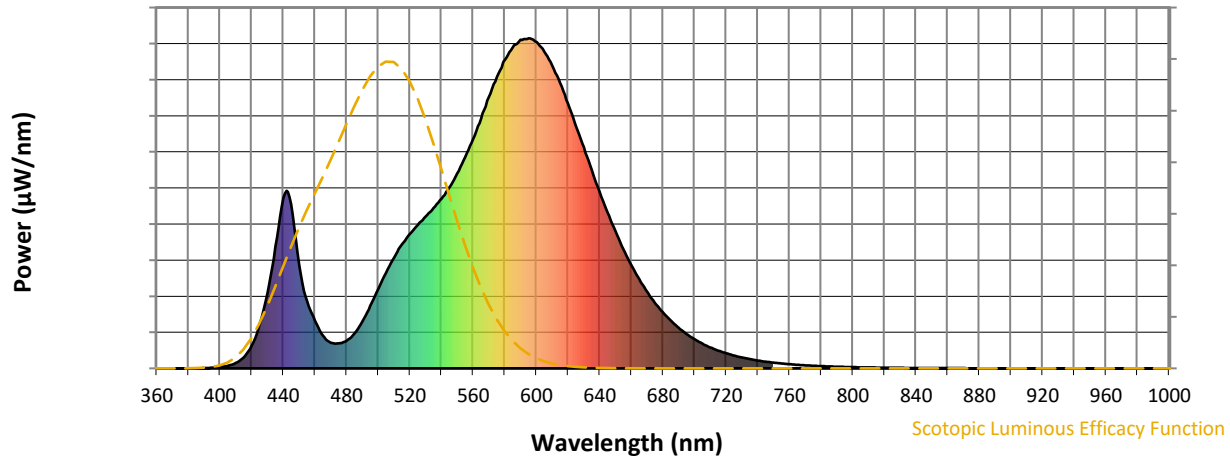


### Photopic Lumens: NR

| $\lambda$<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



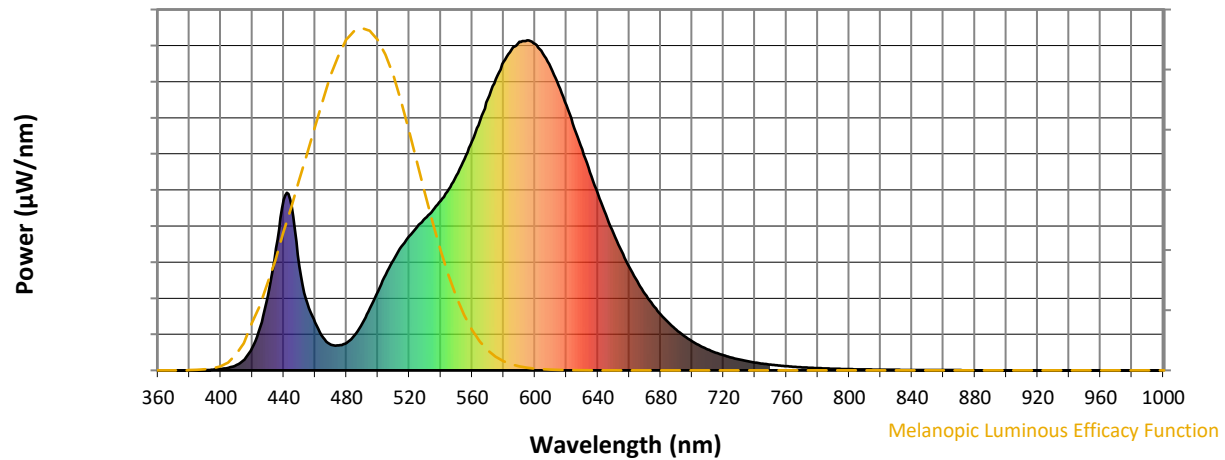
Scotopic Lumens: NR

S/P: 1.19

| λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>^</sup> /nm | Lumens<br>(φ/nm) |
|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|
| 360       | 0                           | NR               | 490       | 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

### Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.13

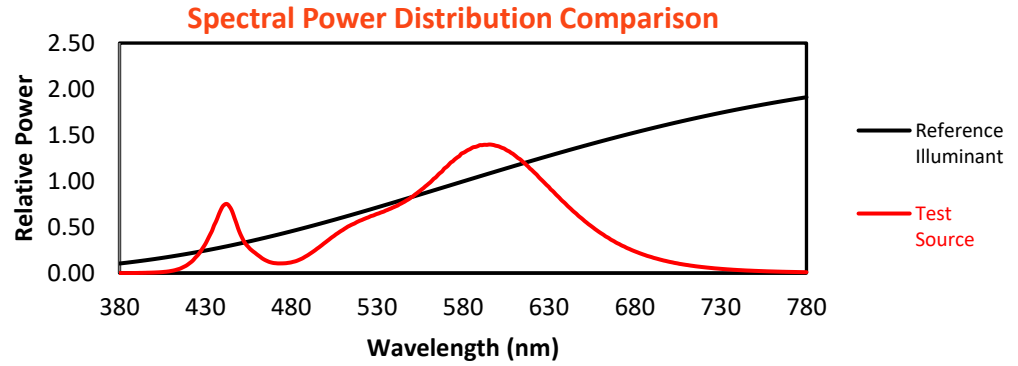
| $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power<br>$\text{W}^\wedge/\text{nm}$ | Lumens<br>( $\phi/\text{nm}$ ) | $\lambda$<br>(nm) | Power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

REPORT NUMBER: SP1-2407-184-4

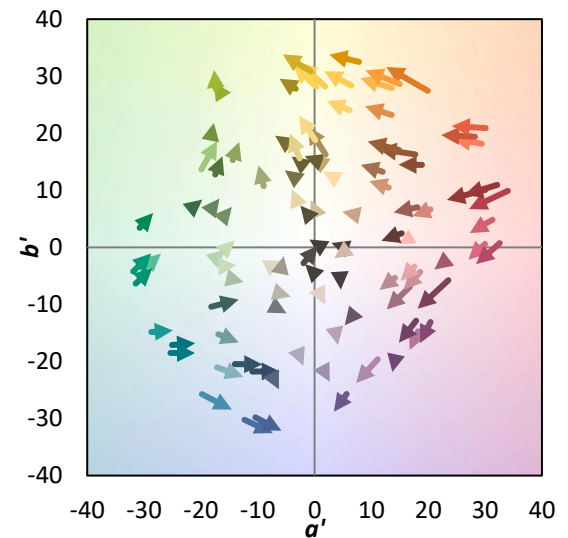
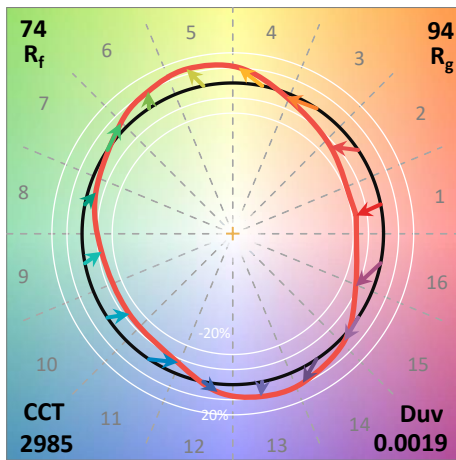
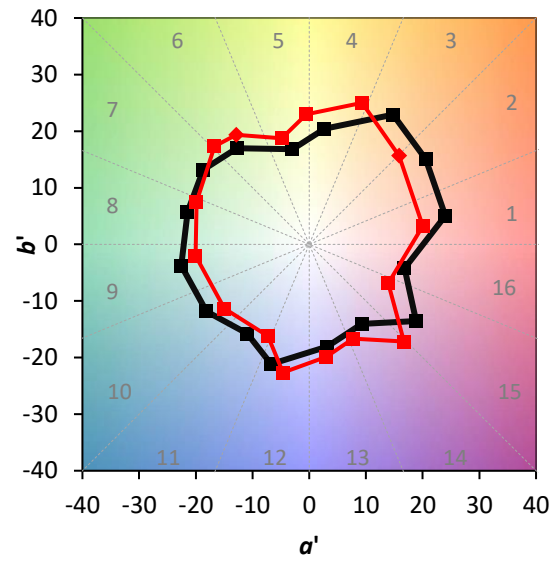
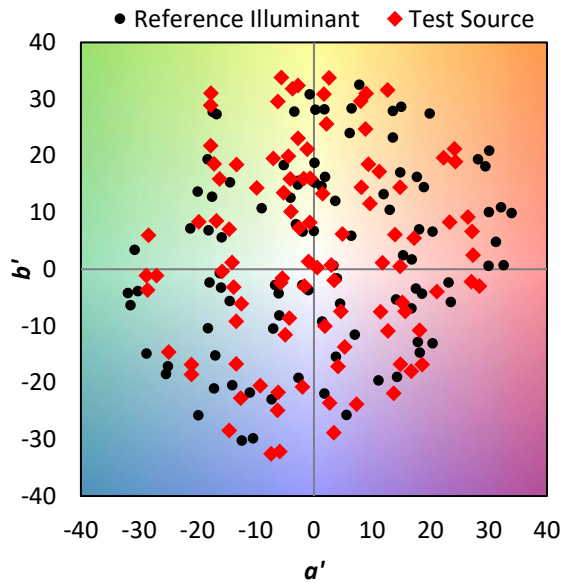
TM-30-18

### Summary

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

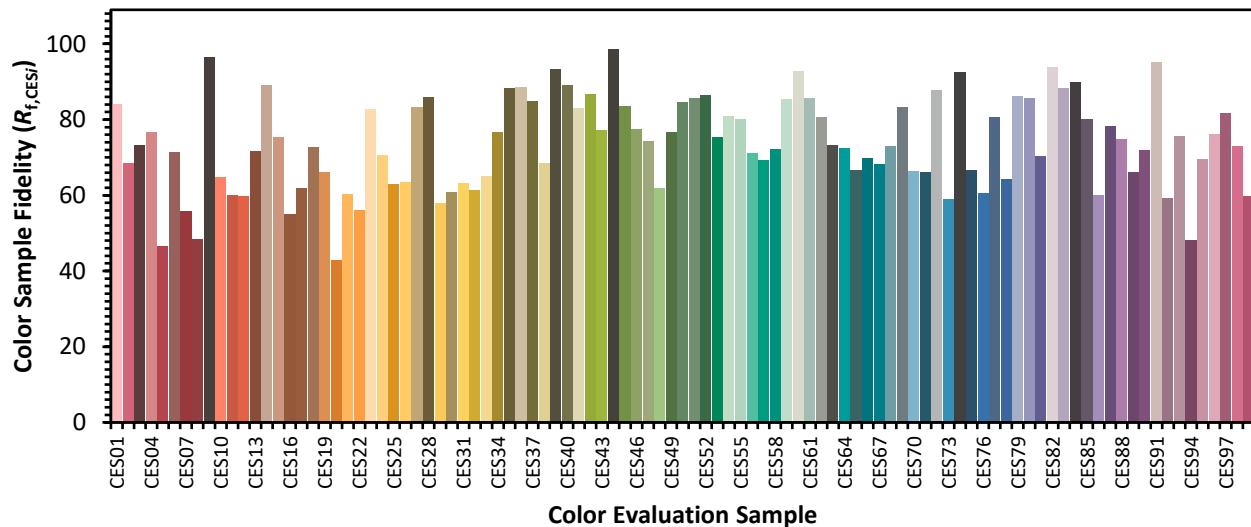


### Color Vector Graphics

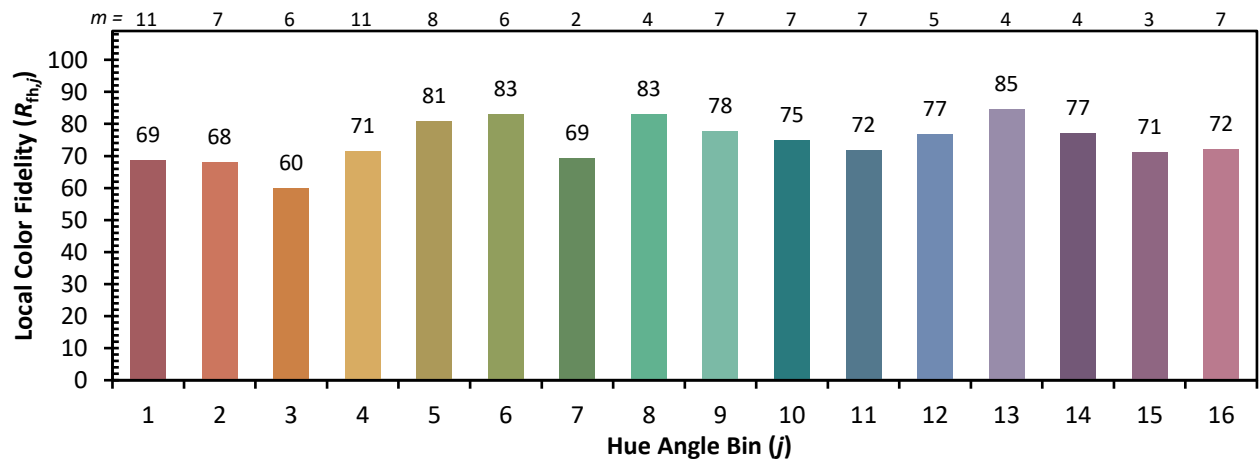
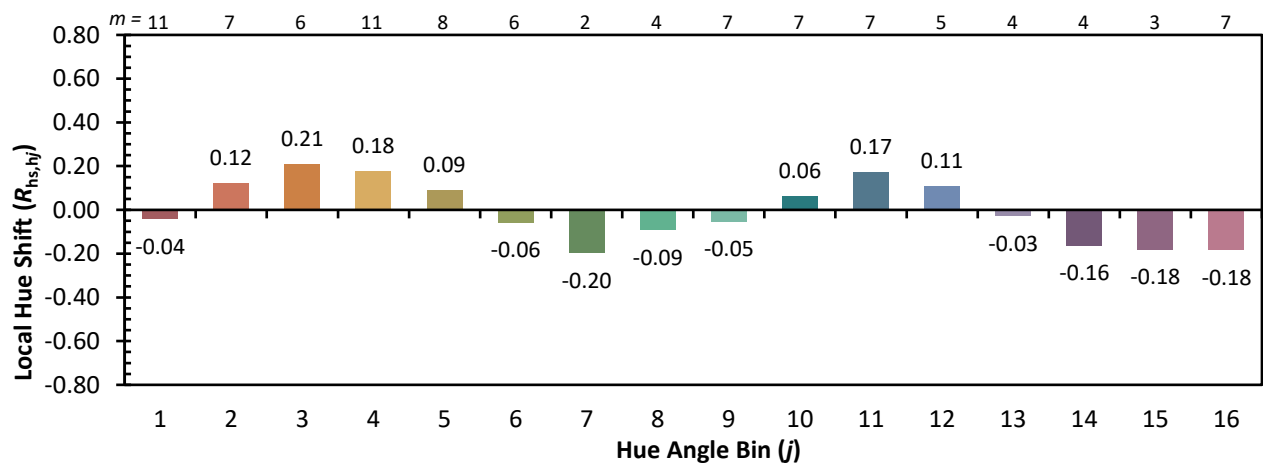
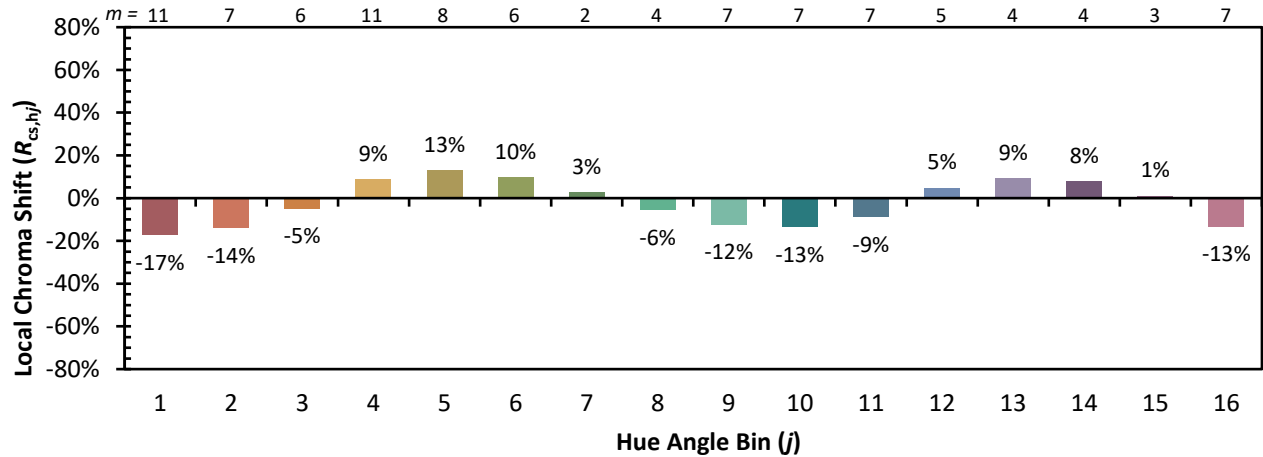


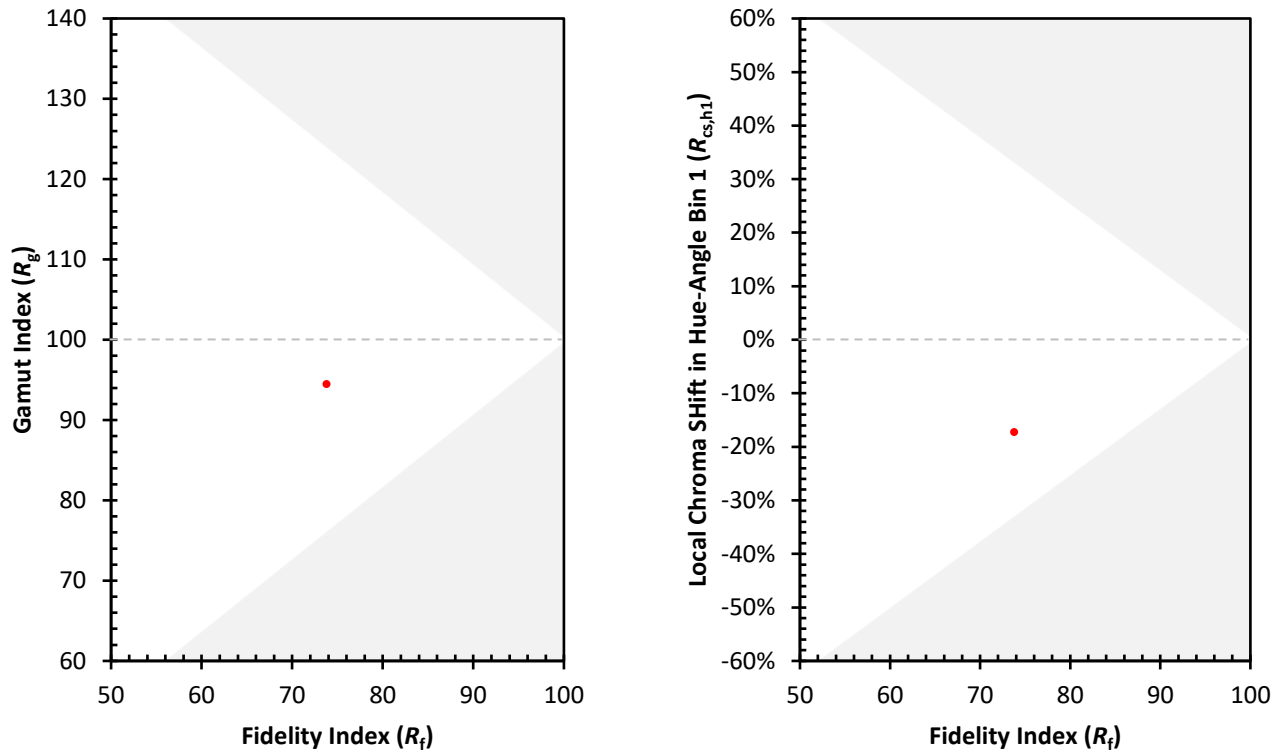
**Individual Sample Fidelity Index ( $R_{f,i}$ )**

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