

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: P1067939

Luminaire Tested: **NAV-SA6C-727-U-LBC**

Issue Date: 08/07/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P1067939  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 08/07/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SA6C-727-U-LBC  
Description: Navion AREA AND ROADWAY LUMINAIRE 1050mA 6xLight Square PACKAGE  
70CRI 2700K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL  
Light Source: (84) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23931.8 lumens  
Efficiency: N/A  
Efficacy: 85.7 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



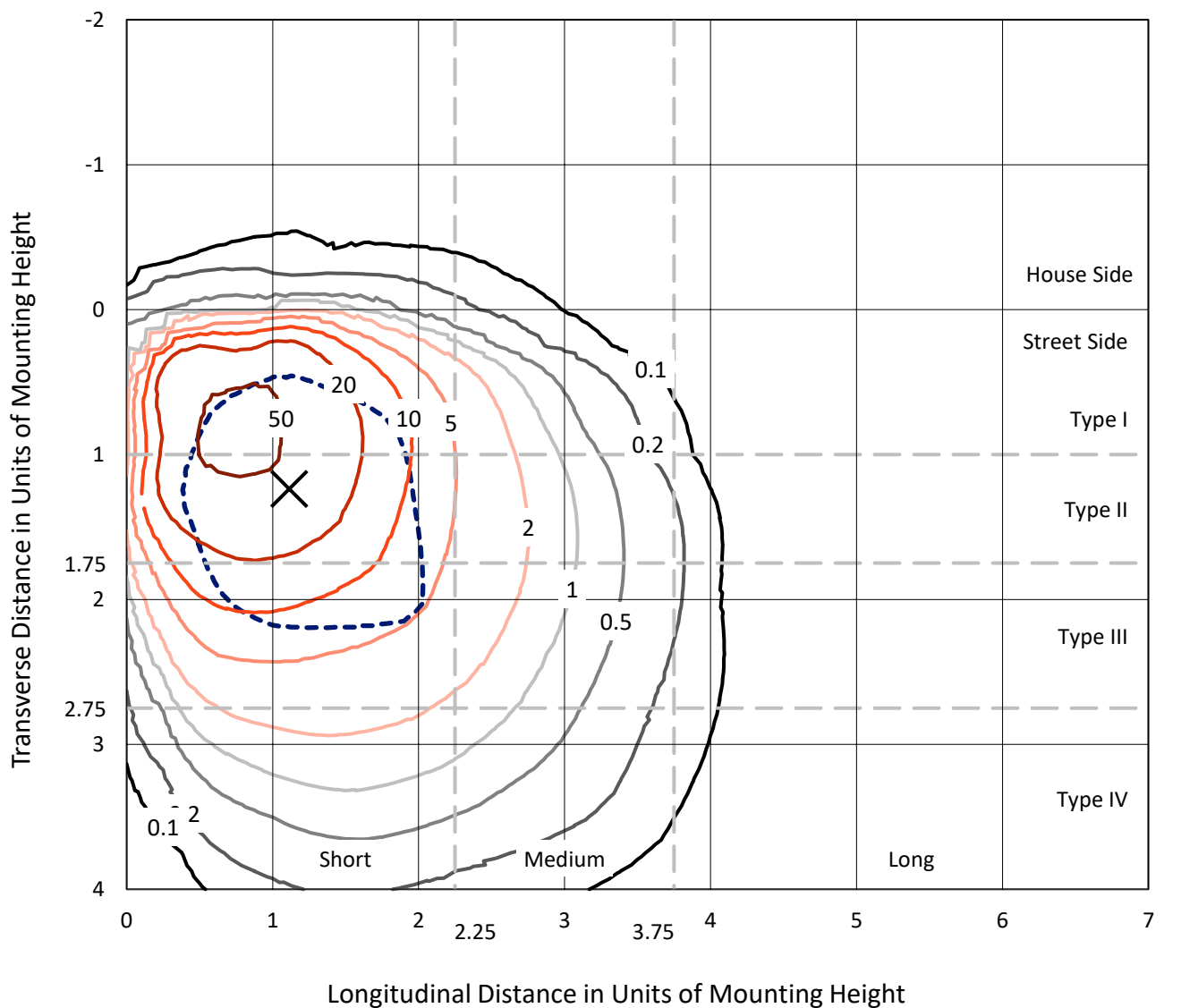
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

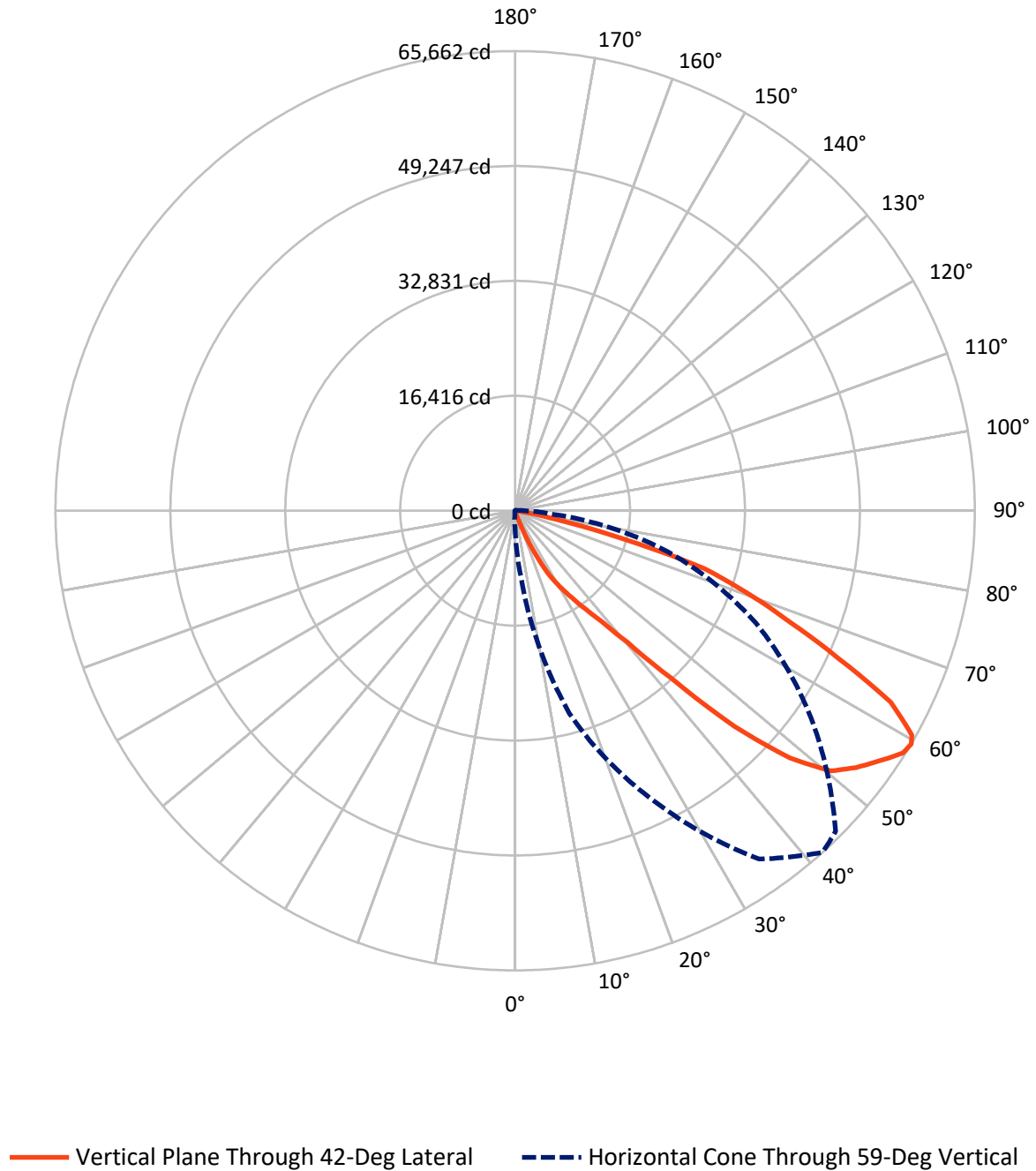


Based on 15 foot mounting height. Maximum calculated value = 71.1 fc  
Type III - Short - N/A

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## Luminous Intensity Polar Plot



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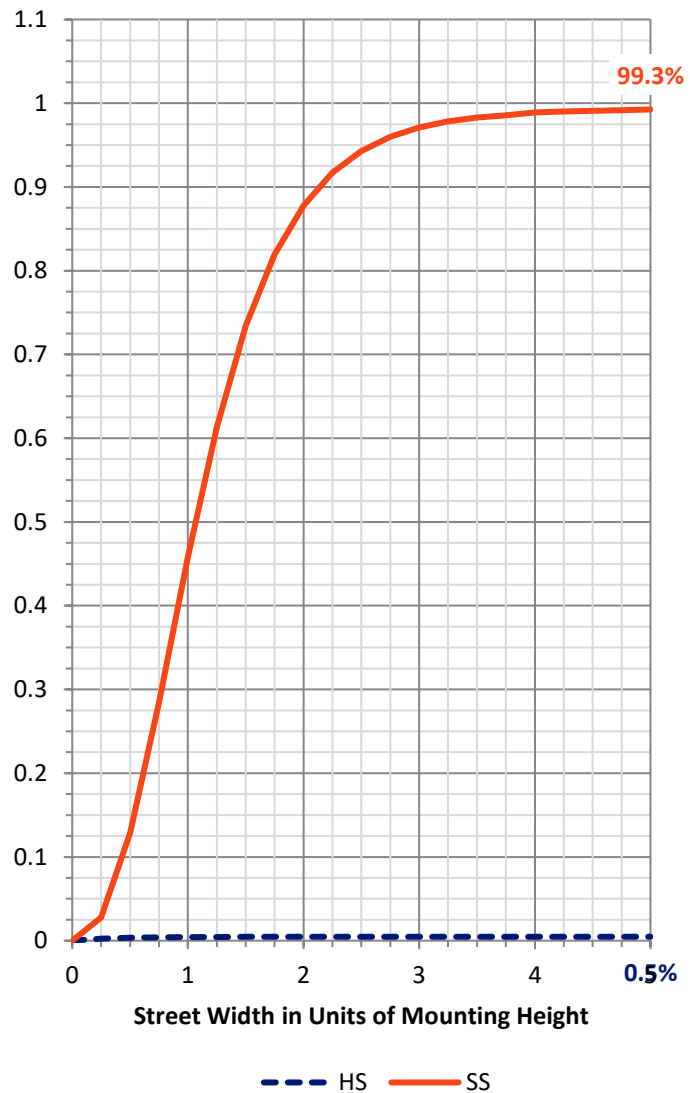
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 115.3    | 0.0    | 115.3   |
|                    | % Fixture | 0.5      | 0.0    | 0.5     |
| <b>Street Side</b> | Lumens    | 23816.5  | 0.0    | 23816.5 |
|                    | % Fixture | 99.5     | 0.0    | 99.5    |
| <b>Total</b>       | Lumens    | 23931.8  | 0.0    | 23931.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 7.0     | 0.0       |
| 10°-20°   | 34.9    | 0.1       |
| 20°-30°   | 446.4   | 1.9       |
| 30°-40°   | 1505.0  | 6.3       |
| 40°-50°   | 4545.7  | 19.0      |
| 50°-60°   | 8024.4  | 33.5      |
| 60°-70°   | 7065.6  | 29.5      |
| 70°-80°   | 2249.0  | 9.4       |
| 80°-90°   | 53.8    | 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°    | 23931.8 | 100.0     |
| 0°-180°   | 23931.8 | 100.0     |



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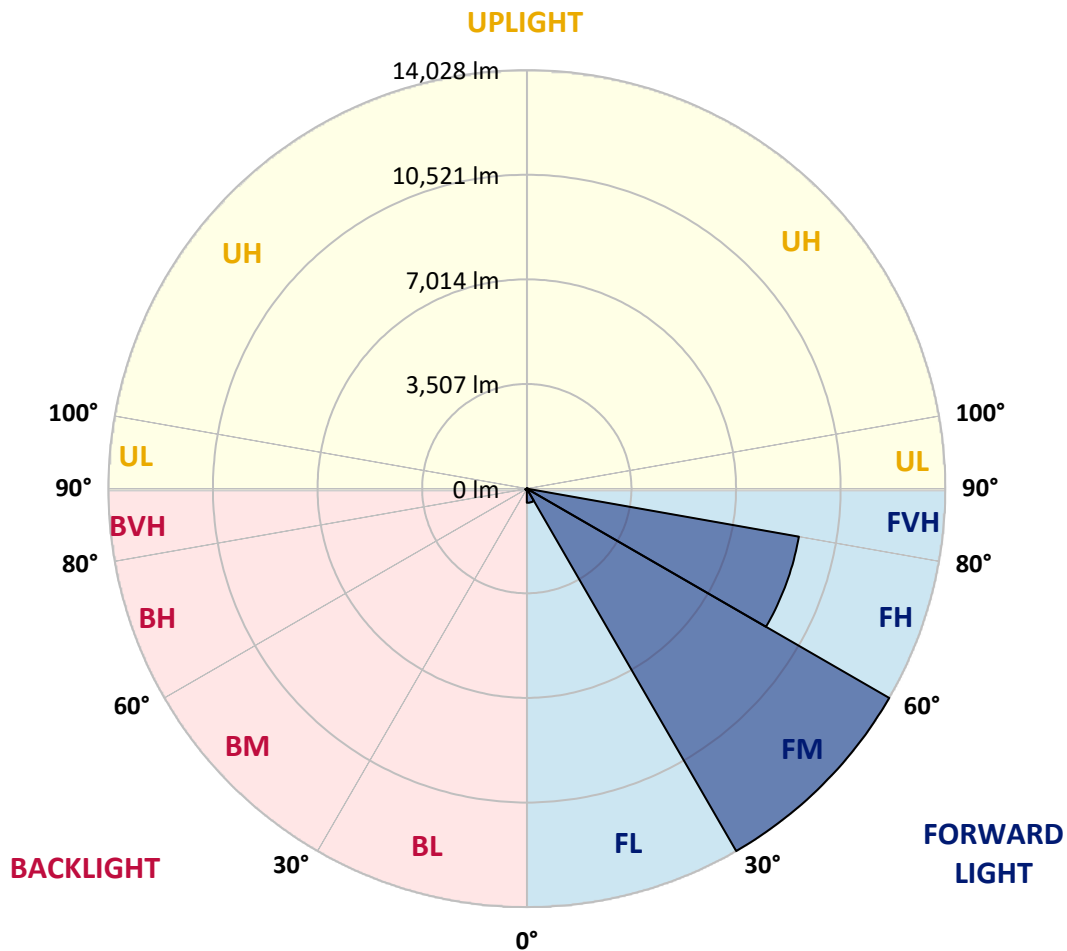
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 475.4   | 2.0       |                         |      |          |
| FM   | (30°-60°)   | 14028.0 | 58.6      |                         |      |          |
| FH   | (60°-80°)   | 9261.8  | 38.7      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 51.2    | 0.2       |                         |      | G1/100   |
| BL   | (0°-30°)    | 12.9    | 0.1       | B0/110                  |      |          |
| BM   | (30°-60°)   | 47.1    | 0.2       | B0/220                  |      |          |
| BH   | (60°-80°)   | 52.7    | 0.2       | B0/110                  |      | G0/110   |
| BVH  | (80°-90°)   | 2.6     | 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-G4**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°      | 15°     | 25°     | 35°     | 42°     | 45°     | 55°     | 65°     | 75°     | 85°    |
|-------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 67.5   | 67.5    | 67.5    | 67.5    | 67.5    | 67.5    | 67.5    | 67.5    | 67.5    | 67.5    | 67.5   |
| 2.5°  | 105.0  | 105.0   | 97.5    | 90.0    | 82.5    | 75.0    | 75.0    | 75.0    | 67.5    | 67.5    | 60.0   |
| 5°    | 120.1  | 120.1   | 112.6   | 105.0   | 105.0   | 97.5    | 97.5    | 90.0    | 82.5    | 82.5    | 75.0   |
| 7.5°  | 127.6  | 127.6   | 127.6   | 127.6   | 120.1   | 120.1   | 120.1   | 112.6   | 105.0   | 97.5    | 90.0   |
| 10°   | 135.1  | 142.6   | 150.1   | 150.1   | 150.1   | 150.1   | 150.1   | 142.6   | 127.6   | 120.1   | 105.0  |
| 12.5° | 150.1  | 157.6   | 172.6   | 187.6   | 187.6   | 195.1   | 187.6   | 180.1   | 165.1   | 142.6   | 120.1  |
| 15°   | 165.1  | 180.1   | 202.6   | 232.6   | 262.6   | 270.1   | 270.1   | 247.6   | 217.6   | 172.6   | 142.6  |
| 17.5° | 187.6  | 210.1   | 270.1   | 367.7   | 472.7   | 555.3   | 555.3   | 495.2   | 345.2   | 225.1   | 165.1  |
| 20°   | 202.6  | 247.6   | 435.2   | 885.4   | 1350.6  | 1695.8  | 1628.2  | 1440.7  | 772.9   | 352.7   | 180.1  |
| 22.5° | 225.1  | 315.1   | 922.9   | 2326.1  | 3601.6  | 4231.9  | 4081.9  | 3098.9  | 1733.3  | 630.3   | 217.6  |
| 25°   | 255.1  | 457.7   | 1830.8  | 4359.5  | 6693.0  | 7375.9  | 7278.3  | 5785.1  | 3158.9  | 1058.0  | 277.6  |
| 27.5° | 315.1  | 675.3   | 2933.8  | 6610.5  | 9874.5  | 10459.8 | 10422.2 | 8471.4  | 5049.8  | 1703.3  | 360.2  |
| 30°   | 397.7  | 982.9   | 4352.0  | 8981.6  | 11983.0 | 12575.7 | 12388.1 | 10437.2 | 6813.1  | 2603.7  | 465.2  |
| 32.5° | 495.2  | 1373.1  | 5635.1  | 10729.9 | 13926.3 | 14706.7 | 14481.6 | 12148.0 | 8231.2  | 3369.0  | 690.3  |
| 35°   | 645.3  | 1755.8  | 6903.1  | 12275.6 | 16169.9 | 17160.3 | 16785.1 | 13911.3 | 9454.3  | 4231.9  | 832.9  |
| 37.5° | 720.3  | 1980.9  | 8066.2  | 13956.3 | 18691.0 | 20041.6 | 19756.5 | 16139.8 | 10699.9 | 5334.9  | 1020.5 |
| 40°   | 727.8  | 2251.0  | 9274.2  | 16147.3 | 22255.1 | 24663.7 | 24153.5 | 19966.6 | 13018.4 | 6753.1  | 1313.1 |
| 42.5° | 750.3  | 2656.2  | 10842.4 | 19884.0 | 29255.8 | 32714.9 | 32137.1 | 27004.8 | 18278.3 | 9596.9  | 1860.8 |
| 45°   | 855.4  | 3421.6  | 14038.9 | 26869.7 | 38867.7 | 43940.0 | 43272.2 | 36811.7 | 25624.2 | 14946.8 | 3173.9 |
| 47.5° | 1223.1 | 5147.3  | 19643.9 | 34410.7 | 48697.2 | 52741.5 | 52576.4 | 44540.3 | 32279.7 | 20431.8 | 5379.9 |
| 50°   | 1965.9 | 7901.1  | 26021.8 | 40751.0 | 54955.0 | 58429.1 | 58016.4 | 47766.7 | 36076.4 | 24176.0 | 6895.6 |
| 52.5° | 2626.2 | 10534.8 | 30028.7 | 43084.6 | 56823.3 | 60965.2 | 60462.5 | 48944.8 | 37074.4 | 25279.0 | 7315.8 |
| 55°   | 2791.3 | 11487.7 | 31221.7 | 43804.9 | 58061.4 | 63111.2 | 62383.4 | 49732.6 | 37201.9 | 24491.1 | 6618.0 |
| 57.5° | 2708.7 | 10587.3 | 30448.9 | 44510.2 | 59787.2 | 65317.2 | 64349.3 | 51270.8 | 37629.6 | 23155.5 | 5507.5 |
| 59°   | 2566.2 | 9476.8  | 29968.6 | 45073.0 | 60740.1 | 65662.4 | 64754.5 | 51608.5 | 37914.7 | 22547.8 | 4832.2 |
| 60°   | 2401.1 | 8726.5  | 29593.5 | 45440.7 | 60680.1 | 65122.1 | 64184.2 | 51450.9 | 38027.3 | 22022.5 | 4509.6 |
| 62.5° | 1853.3 | 6963.2  | 29053.2 | 45178.1 | 56890.9 | 60192.4 | 59659.6 | 47594.2 | 36376.5 | 20341.8 | 3556.6 |
| 65°   | 1440.7 | 5327.4  | 27072.3 | 40293.3 | 48412.0 | 50633.0 | 50468.0 | 40300.8 | 30613.9 | 17535.5 | 2566.2 |
| 67.5° | 1140.5 | 3886.8  | 22892.9 | 32632.3 | 38950.2 | 42109.2 | 41989.1 | 32714.9 | 23238.1 | 13401.1 | 1845.8 |
| 70°   | 930.4  | 2768.8  | 15697.1 | 24603.7 | 31154.2 | 35131.0 | 34958.4 | 26329.5 | 17220.3 | 8501.4  | 1343.1 |
| 72.5° | 787.9  | 1770.8  | 9521.8  | 18548.4 | 25999.3 | 28272.9 | 27770.1 | 21242.2 | 12523.2 | 4629.6  | 1065.5 |
| 75°   | 667.8  | 1088.0  | 4719.6  | 11562.8 | 15487.0 | 15472.0 | 14969.3 | 11247.6 | 6723.1  | 2266.0  | 847.9  |
| 77.5° | 540.2  | 765.3   | 1853.3  | 3173.9  | 4884.7  | 6047.8  | 5950.2  | 3984.3  | 2010.9  | 660.3   | 525.2  |
| 80°   | 352.7  | 360.2   | 495.2   | 870.4   | 1343.1  | 1485.7  | 1688.3  | 1215.6  | 585.3   | 315.1   | 217.6  |
| 82.5° | 157.6  | 172.6   | 225.1   | 285.1   | 285.1   | 262.6   | 232.6   | 172.6   | 127.6   | 105.0   | 52.5   |
| 85°   | 37.5   | 52.5    | 37.5    | 45.0    | 37.5    | 30.0    | 30.0    | 15.0    | 0.0     | 0.0     | 0.0    |
| 87.5° | 7.5    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0    |
| 90°   | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°   | 105°  | 115°  | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|-------|-------|-------|------|------|------|------|------|------|------|
| 0°    | 67.5   | 67.5  | 67.5  | 67.5  | 67.5 | 67.5 | 67.5 | 67.5 | 67.5 | 67.5 | 67.5 |
| 2.5°  | 60.0   | 60.0  | 60.0  | 52.5  | 52.5 | 52.5 | 45.0 | 45.0 | 45.0 | 37.5 | 37.5 |
| 5°    | 75.0   | 67.5  | 60.0  | 60.0  | 52.5 | 52.5 | 45.0 | 37.5 | 37.5 | 37.5 | 30.0 |
| 7.5°  | 82.5   | 75.0  | 67.5  | 60.0  | 52.5 | 45.0 | 45.0 | 37.5 | 30.0 | 30.0 | 30.0 |
| 10°   | 97.5   | 90.0  | 75.0  | 60.0  | 52.5 | 45.0 | 37.5 | 37.5 | 30.0 | 22.5 | 22.5 |
| 12.5° | 112.6  | 97.5  | 82.5  | 67.5  | 52.5 | 45.0 | 37.5 | 37.5 | 30.0 | 22.5 | 15.0 |
| 15°   | 127.6  | 112.6 | 90.0  | 67.5  | 52.5 | 45.0 | 37.5 | 37.5 | 22.5 | 15.0 | 7.5  |
| 17.5° | 142.6  | 120.1 | 90.0  | 75.0  | 52.5 | 45.0 | 37.5 | 30.0 | 15.0 | 7.5  | 0.0  |
| 20°   | 150.1  | 127.6 | 97.5  | 75.0  | 52.5 | 45.0 | 37.5 | 22.5 | 7.5  | 0.0  | 0.0  |
| 22.5° | 165.1  | 142.6 | 105.0 | 75.0  | 52.5 | 37.5 | 22.5 | 7.5  | 0.0  | 0.0  | 0.0  |
| 25°   | 195.1  | 150.1 | 105.0 | 75.0  | 52.5 | 37.5 | 15.0 | 0.0  | 0.0  | 0.0  | 0.0  |
| 27.5° | 217.6  | 165.1 | 105.0 | 75.0  | 52.5 | 30.0 | 7.5  | 0.0  | 0.0  | 0.0  | 0.0  |
| 30°   | 255.1  | 180.1 | 112.6 | 75.0  | 52.5 | 22.5 | 7.5  | 0.0  | 0.0  | 0.0  | 0.0  |
| 32.5° | 315.1  | 195.1 | 112.6 | 75.0  | 45.0 | 22.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 35°   | 382.7  | 225.1 | 112.6 | 75.0  | 45.0 | 22.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 37.5° | 390.2  | 240.1 | 112.6 | 75.0  | 45.0 | 15.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 40°   | 405.2  | 225.1 | 120.1 | 75.0  | 45.0 | 15.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 42.5° | 465.2  | 210.1 | 127.6 | 75.0  | 45.0 | 15.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 45°   | 690.3  | 217.6 | 127.6 | 82.5  | 45.0 | 22.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 47.5° | 1200.5 | 225.1 | 120.1 | 82.5  | 45.0 | 22.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 50°   | 1538.2 | 262.6 | 120.1 | 90.0  | 52.5 | 15.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 52.5° | 1635.7 | 307.6 | 120.1 | 97.5  | 67.5 | 7.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 55°   | 1590.7 | 360.2 | 127.6 | 105.0 | 82.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 57.5° | 1470.7 | 390.2 | 135.1 | 112.6 | 90.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 59°   | 1343.1 | 412.7 | 157.6 | 120.1 | 90.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 60°   | 1238.1 | 435.2 | 165.1 | 127.6 | 90.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 62.5° | 998.0  | 465.2 | 180.1 | 150.1 | 75.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 65°   | 870.4  | 487.7 | 187.6 | 165.1 | 67.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 67.5° | 795.4  | 502.7 | 202.6 | 172.6 | 60.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 70°   | 735.3  | 495.2 | 217.6 | 165.1 | 52.5 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 72.5° | 667.8  | 472.7 | 262.6 | 150.1 | 45.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 75°   | 600.3  | 427.7 | 285.1 | 135.1 | 30.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 77.5° | 435.2  | 360.2 | 262.6 | 120.1 | 15.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 80°   | 187.6  | 195.1 | 187.6 | 90.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 82.5° | 37.5   | 45.0  | 37.5  | 22.5  | 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  |



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**CANDELA DISTRIBUTION (continued):**

|       | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 0°    | 67.5 | 67.5 | 67.5 | 67.5 | 67.5 | 67.5 | 67.5 | 67.5 | 67.5 | 67.5 | 67.5 |
| 2.5°  | 37.5 | 37.5 | 37.5 | 37.5 | 45.0 | 45.0 | 60.0 | 75.0 | 90.0 | 97.5 | 97.5 |
| 5°    | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 | 37.5 | 45.0 | 60.0 | 82.5 | 90.0 | 90.0 |
| 7.5°  | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 | 37.5 | 52.5 | 75.0 | 82.5 | 90.0 |
| 10°   | 22.5 | 15.0 | 15.0 | 7.5  | 7.5  | 15.0 | 22.5 | 45.0 | 67.5 | 75.0 | 82.5 |
| 12.5° | 15.0 | 7.5  | 7.5  | 0.0  | 0.0  | 7.5  | 15.0 | 37.5 | 60.0 | 67.5 | 75.0 |
| 15°   | 7.5  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.5  | 30.0 | 52.5 | 60.0 | 75.0 |
| 17.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 22.5 | 45.0 | 60.0 | 67.5 |
| 20°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 15.0 | 37.5 | 52.5 | 60.0 |
| 22.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.5  | 30.0 | 45.0 | 52.5 |
| 25°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 22.5 | 30.0 | 37.5 |
| 27.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 15.0 | 22.5 | 30.0 |
| 30°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 15.0 | 22.5 | 30.0 |
| 32.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.5  | 15.0 | 22.5 |
| 35°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.5  | 15.0 | 22.5 |
| 37.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.5  | 15.0 | 15.0 |
| 40°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.5  | 15.0 |
| 42.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.5  | 15.0 |
| 45°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.5  | 15.0 |
| 47.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.5  | 15.0 |
| 50°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.5  | 15.0 |
| 52.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.5  | 7.5  |
| 55°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.5  | 7.5  |
| 57.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.5  |
| 59°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.5  |
| 60°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.5  |
| 62.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.5  |
| 65°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.5  |
| 67.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.5  |
| 70°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.5  |
| 72.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.5  |
| 75°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.5  | 7.5  |
| 77.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.5  | 15.0 |
| 80°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.5  | 15.0 |
| 82.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.5  | 7.5  |
| 85°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.5  | 7.5  |
| 87.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.5  | 7.5  |
| 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: P1067939

CATALOG NUMBER: NAV-SA6C-727-U-LBC

**CANDELA DISTRIBUTION (continued):**

|       | 285°  | 295°  | 305° | 315° | 318° | 325°  | 335°  | 345°  | 355°  | 360°   |
|-------|-------|-------|------|------|------|-------|-------|-------|-------|--------|
| 0°    | 67.5  | 67.5  | 67.5 | 67.5 | 67.5 | 67.5  | 67.5  | 67.5  | 67.5  | 67.5   |
| 2.5°  | 105.0 | 105.0 | 97.5 | 90.0 | 90.0 | 90.0  | 97.5  | 105.0 | 105.0 | 105.0  |
| 5°    | 97.5  | 97.5  | 90.0 | 90.0 | 90.0 | 90.0  | 97.5  | 112.6 | 120.1 | 120.1  |
| 7.5°  | 97.5  | 97.5  | 90.0 | 90.0 | 90.0 | 90.0  | 97.5  | 112.6 | 120.1 | 127.6  |
| 10°   | 90.0  | 90.0  | 90.0 | 90.0 | 82.5 | 90.0  | 97.5  | 112.6 | 135.1 | 135.1  |
| 12.5° | 90.0  | 90.0  | 90.0 | 90.0 | 82.5 | 90.0  | 105.0 | 120.1 | 142.6 | 150.1  |
| 15°   | 90.0  | 90.0  | 90.0 | 82.5 | 82.5 | 90.0  | 105.0 | 127.6 | 150.1 | 165.1  |
| 17.5° | 82.5  | 90.0  | 90.0 | 82.5 | 82.5 | 90.0  | 105.0 | 127.6 | 165.1 | 187.6  |
| 20°   | 75.0  | 82.5  | 90.0 | 82.5 | 82.5 | 82.5  | 105.0 | 127.6 | 172.6 | 202.6  |
| 22.5° | 67.5  | 75.0  | 82.5 | 82.5 | 75.0 | 82.5  | 105.0 | 135.1 | 187.6 | 225.1  |
| 25°   | 60.0  | 67.5  | 67.5 | 75.0 | 75.0 | 82.5  | 105.0 | 135.1 | 195.1 | 255.1  |
| 27.5° | 45.0  | 52.5  | 60.0 | 67.5 | 67.5 | 82.5  | 105.0 | 142.6 | 210.1 | 315.1  |
| 30°   | 37.5  | 45.0  | 52.5 | 60.0 | 67.5 | 82.5  | 105.0 | 142.6 | 225.1 | 397.7  |
| 32.5° | 37.5  | 45.0  | 52.5 | 60.0 | 67.5 | 75.0  | 105.0 | 150.1 | 247.6 | 495.2  |
| 35°   | 30.0  | 37.5  | 45.0 | 60.0 | 60.0 | 75.0  | 105.0 | 150.1 | 270.1 | 645.3  |
| 37.5° | 30.0  | 37.5  | 45.0 | 60.0 | 60.0 | 75.0  | 105.0 | 150.1 | 330.2 | 720.3  |
| 40°   | 22.5  | 30.0  | 37.5 | 60.0 | 60.0 | 75.0  | 112.6 | 157.6 | 337.7 | 727.8  |
| 42.5° | 22.5  | 30.0  | 37.5 | 52.5 | 60.0 | 75.0  | 112.6 | 157.6 | 315.1 | 750.3  |
| 45°   | 22.5  | 30.0  | 37.5 | 60.0 | 67.5 | 82.5  | 112.6 | 165.1 | 307.6 | 855.4  |
| 47.5° | 22.5  | 30.0  | 37.5 | 60.0 | 75.0 | 82.5  | 112.6 | 165.1 | 315.1 | 1223.1 |
| 50°   | 22.5  | 30.0  | 37.5 | 60.0 | 82.5 | 82.5  | 112.6 | 165.1 | 345.2 | 1965.9 |
| 52.5° | 15.0  | 22.5  | 30.0 | 52.5 | 67.5 | 90.0  | 120.1 | 157.6 | 367.7 | 2626.2 |
| 55°   | 15.0  | 15.0  | 22.5 | 45.0 | 60.0 | 97.5  | 127.6 | 157.6 | 427.7 | 2791.3 |
| 57.5° | 15.0  | 15.0  | 22.5 | 37.5 | 52.5 | 105.0 | 135.1 | 157.6 | 495.2 | 2708.7 |
| 59°   | 15.0  | 15.0  | 15.0 | 30.0 | 45.0 | 105.0 | 142.6 | 172.6 | 510.2 | 2401.1 |
| 60°   | 15.0  | 15.0  | 15.0 | 30.0 | 45.0 | 105.0 | 142.6 | 172.6 | 510.2 | 2401.1 |
| 62.5° | 7.5   | 7.5   | 7.5  | 30.0 | 37.5 | 105.0 | 157.6 | 210.1 | 525.2 | 1853.3 |
| 65°   | 15.0  | 15.0  | 7.5  | 22.5 | 37.5 | 90.0  | 180.1 | 225.1 | 532.7 | 1440.7 |
| 67.5° | 15.0  | 15.0  | 15.0 | 30.0 | 37.5 | 90.0  | 187.6 | 232.6 | 532.7 | 1140.5 |
| 70°   | 15.0  | 15.0  | 15.0 | 30.0 | 45.0 | 90.0  | 187.6 | 240.1 | 525.2 | 930.4  |
| 72.5° | 15.0  | 15.0  | 15.0 | 30.0 | 45.0 | 82.5  | 172.6 | 247.6 | 502.7 | 787.9  |
| 75°   | 15.0  | 15.0  | 15.0 | 22.5 | 37.5 | 75.0  | 165.1 | 270.1 | 457.7 | 667.8  |
| 77.5° | 15.0  | 15.0  | 15.0 | 15.0 | 30.0 | 60.0  | 150.1 | 300.1 | 405.2 | 540.2  |
| 80°   | 22.5  | 15.0  | 15.0 | 15.0 | 22.5 | 52.5  | 142.6 | 292.6 | 337.7 | 352.7  |
| 82.5° | 22.5  | 15.0  | 15.0 | 7.5  | 15.0 | 37.5  | 112.6 | 225.1 | 172.6 | 157.6  |
| 85°   | 15.0  | 15.0  | 15.0 | 7.5  | 7.5  | 22.5  | 52.5  | 67.5  | 52.5  | 37.5   |
| 87.5° | 15.0  | 15.0  | 15.0 | 7.5  | 7.5  | 7.5   | 7.5   | 7.5   | 7.5   | 7.5    |
| 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: SP1-2407-184-3

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-727-U-5WQ

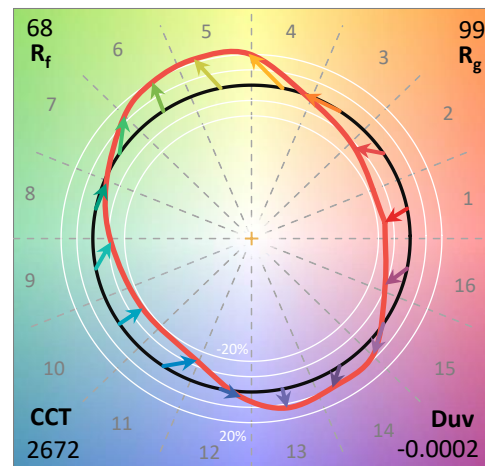
Data in this report applies to families of products including GSS-SB1A-727-U-5WQ

### Test Information

Test Method: LM-79-2019  
 Report Number: SP1-2407-184-3  
 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-727-U-5WQ**  
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI  
 2700K CCT 26 LEDS

### Spectral Parameters

|                           |          |           |      |      |       |
|---------------------------|----------|-----------|------|------|-------|
| CCT (K):                  | 2672     | CRI (Ra): | 71.1 |      |       |
| CIE u':                   | 0.2638   | R1:       | 68.3 | R9:  | -27.8 |
| CIE v':                   | 0.5276   | R2:       | 79.8 | R10: | 54.4  |
| Duv:                      | -0.0002  | R3:       | 91.2 | R11: | 65.8  |
| CIE x:                    | 0.4619   | R4:       | 69.4 | R12: | 45.6  |
| CIE y:                    | 0.4106   | R5:       | 66.5 | R13: | 69.8  |
| CIE z:                    | 0.1275   | R6:       | 72.6 | R14: | 94.5  |
| Peak Wavelength (nm):     | 601      | R7:       | 77.0 | R15: | 60.1  |
| Dominant Wavelength (nm): | 584      | R8:       | 44.1 |      |       |
| Purity:                   | 61.88407 |           |      |      |       |
| Rf:                       | 67.9     |           |      |      |       |
| Rg:                       | 98.6     |           |      |      |       |



### Test Conditions

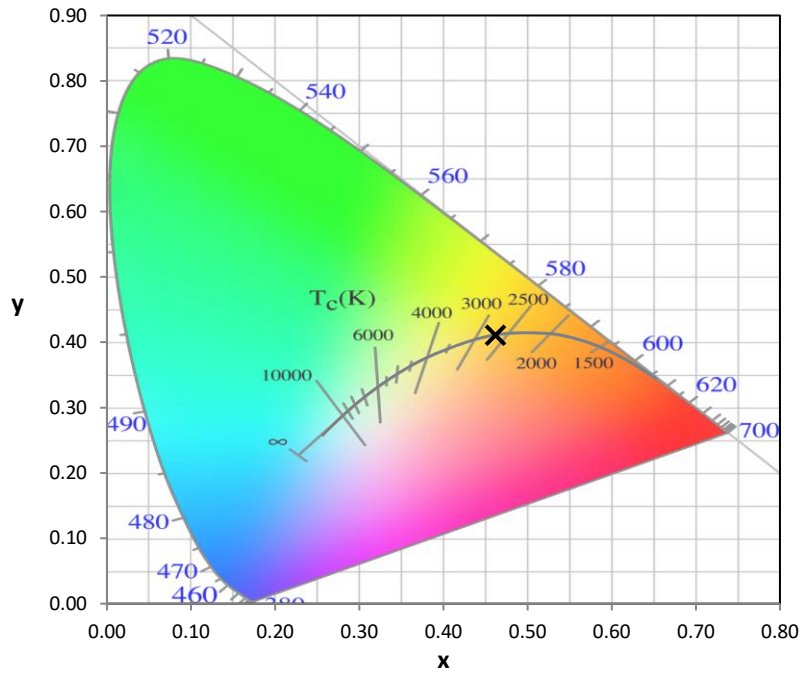
Stabilization Time: 21M  
 Operation Time: 1H 21M  
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-3

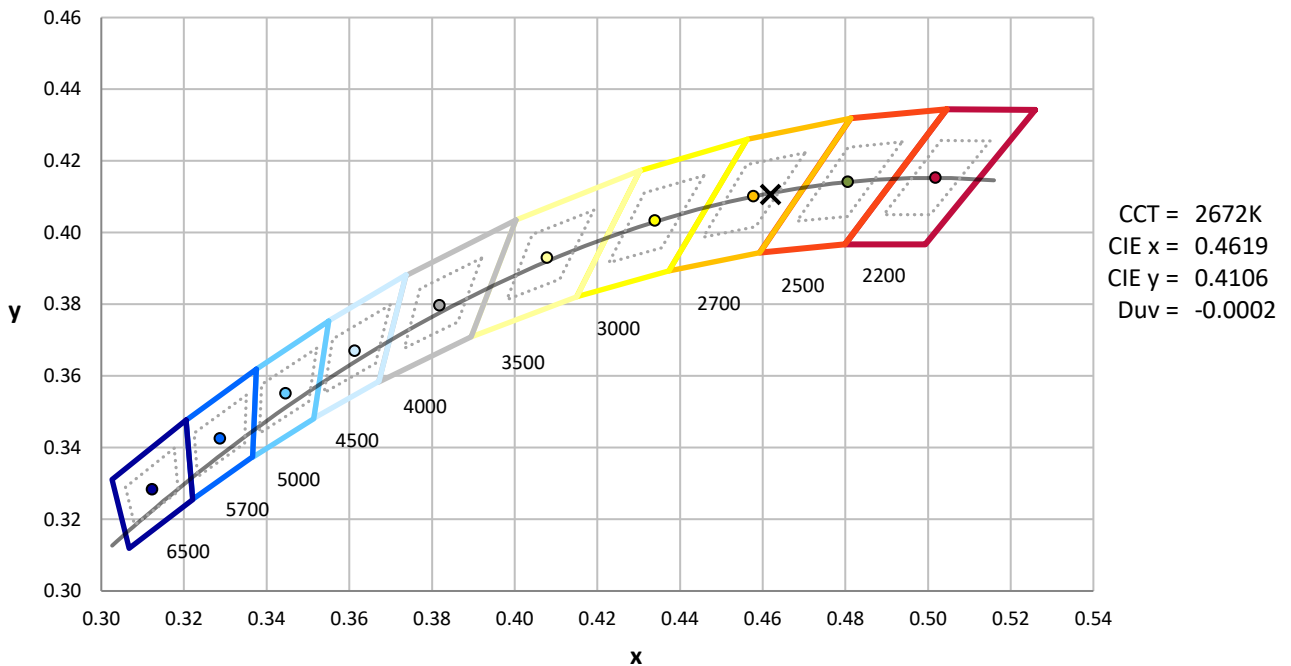
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| 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: SP1-2407-184-3

**CIE 1931 Chromaticity Diagram**

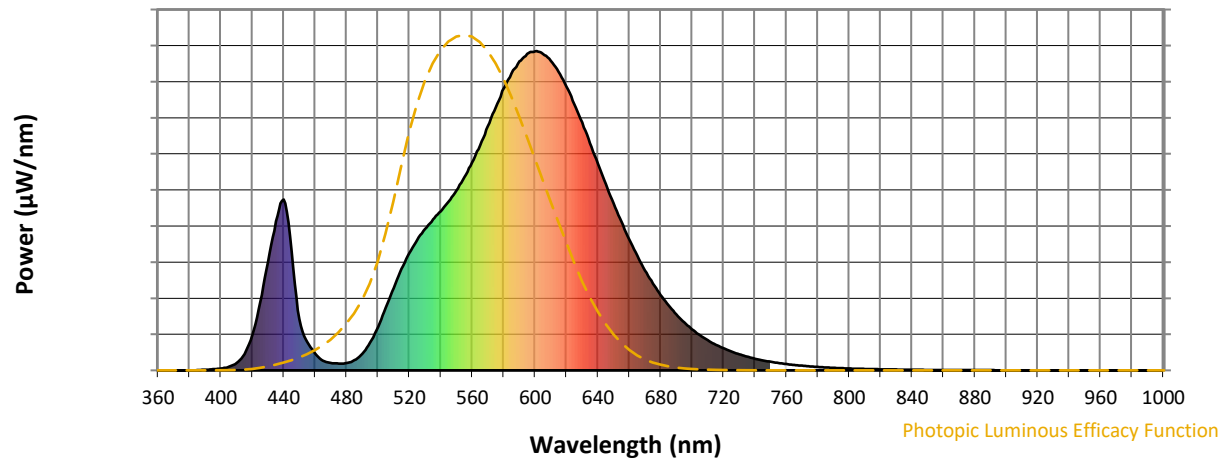


**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



REPORT NUMBER: SP1-2407-184-3

### Photopic Flux vs. Wavelength

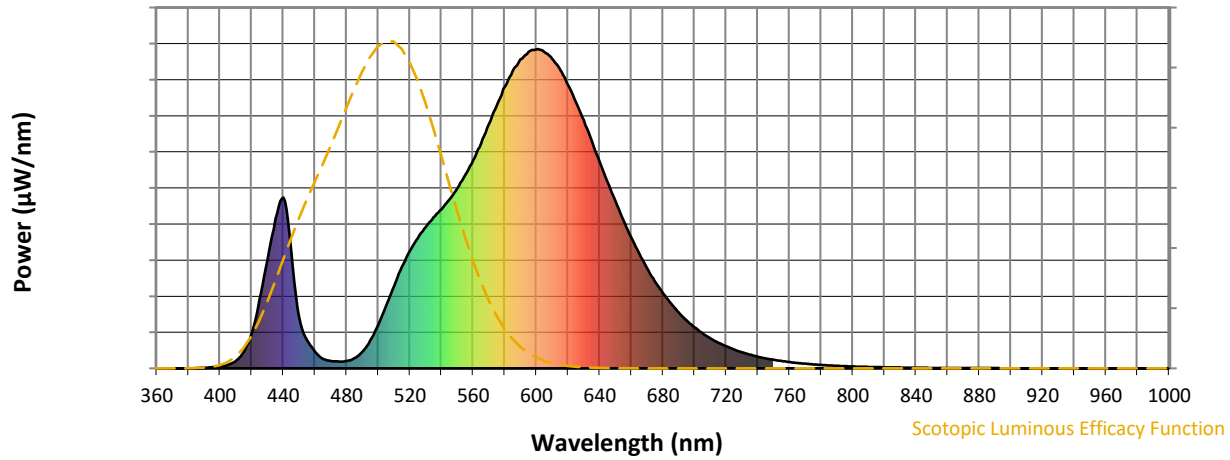


### Photopic Lumens: NR

| $\lambda$<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               | 52                                   | NR                             | 620               | 888                                  | NR                             | 750               | 27                                   | NR                             | 880               | 1                                    | NR                             |
| 365               | 0                                    | NR                             | 495               | 87                                   | NR                             | 625               | 834                                  | NR                             | 755               | 23                                   | NR                             | 885               | 1                                    | NR                             |
| 370               | 0                                    | NR                             | 500               | 135                                  | NR                             | 630               | 776                                  | NR                             | 760               | 20                                   | NR                             | 890               | 1                                    | NR                             |
| 375               | 0                                    | NR                             | 505               | 196                                  | NR                             | 635               | 712                                  | NR                             | 765               | 17                                   | NR                             | 895               | 0                                    | NR                             |
| 380               | 0                                    | NR                             | 510               | 258                                  | NR                             | 640               | 648                                  | NR                             | 770               | 15                                   | NR                             | 900               | 0                                    | NR                             |
| 385               | 1                                    | NR                             | 515               | 317                                  | NR                             | 645               | 583                                  | NR                             | 775               | 12                                   | NR                             | 905               | 0                                    | NR                             |
| 390               | 2                                    | NR                             | 520               | 368                                  | NR                             | 650               | 523                                  | NR                             | 780               | 11                                   | NR                             | 910               | 0                                    | NR                             |
| 395               | 4                                    | NR                             | 525               | 408                                  | NR                             | 655               | 465                                  | NR                             | 785               | 9                                    | NR                             | 915               | 0                                    | NR                             |
| 400               | 6                                    | NR                             | 530               | 443                                  | NR                             | 660               | 410                                  | NR                             | 790               | 8                                    | NR                             | 920               | 0                                    | NR                             |
| 405               | 11                                   | NR                             | 535               | 473                                  | NR                             | 665               | 360                                  | NR                             | 795               | 7                                    | NR                             | 925               | 0                                    | NR                             |
| 410               | 23                                   | NR                             | 540               | 498                                  | NR                             | 670               | 313                                  | NR                             | 800               | 6                                    | NR                             | 930               | 0                                    | NR                             |
| 415               | 51                                   | NR                             | 545               | 530                                  | NR                             | 675               | 272                                  | NR                             | 805               | 5                                    | NR                             | 935               | 0                                    | NR                             |
| 420               | 111                                  | NR                             | 550               | 563                                  | NR                             | 680               | 236                                  | NR                             | 810               | 4                                    | NR                             | 940               | 0                                    | NR                             |
| 425               | 214                                  | NR                             | 555               | 605                                  | NR                             | 685               | 203                                  | NR                             | 815               | 4                                    | NR                             | 945               | 0                                    | NR                             |
| 430               | 339                                  | NR                             | 560               | 651                                  | NR                             | 690               | 175                                  | NR                             | 820               | 3                                    | NR                             | 950               | 0                                    | NR                             |
| 435               | 467                                  | NR                             | 565               | 705                                  | NR                             | 695               | 150                                  | NR                             | 825               | 3                                    | NR                             | 955               | 0                                    | NR                             |
| 440               | 535                                  | NR                             | 570               | 765                                  | NR                             | 700               | 128                                  | NR                             | 830               | 3                                    | NR                             | 960               | 0                                    | NR                             |
| 445               | 372                                  | NR                             | 575               | 824                                  | NR                             | 705               | 110                                  | NR                             | 835               | 2                                    | NR                             | 965               | 0                                    | NR                             |
| 450               | 160                                  | NR                             | 580               | 882                                  | NR                             | 710               | 94                                   | NR                             | 840               | 2                                    | NR                             | 970               | 0                                    | NR                             |
| 455               | 89                                   | NR                             | 585               | 930                                  | NR                             | 715               | 80                                   | NR                             | 845               | 2                                    | NR                             | 975               | 0                                    | NR                             |
| 460               | 53                                   | NR                             | 590               | 968                                  | NR                             | 720               | 69                                   | NR                             | 850               | 1                                    | NR                             | 980               | 0                                    | NR                             |
| 465               | 31                                   | NR                             | 595               | 991                                  | NR                             | 725               | 59                                   | NR                             | 855               | 1                                    | NR                             | 985               | 0                                    | NR                             |
| 470               | 23                                   | NR                             | 600               | 999                                  | NR                             | 730               | 50                                   | NR                             | 860               | 1                                    | NR                             | 990               | 0                                    | NR                             |
| 475               | 21                                   | NR                             | 605               | 992                                  | NR                             | 735               | 43                                   | NR                             | 865               | 1                                    | NR                             | 995               | 0                                    | NR                             |
| 480               | 23                                   | NR                             | 610               | 969                                  | NR                             | 740               | 36                                   | NR                             | 870               | 1                                    | NR                             | 1000              | 0                                    | NR                             |
| 485               | 32                                   | NR                             | 615               | 935                                  | NR                             | 745               | 31                                   | NR                             | 875               | 1                                    | NR                             |                   |                                      |                                |

REPORT NUMBER: SP1-2407-184-3

### Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

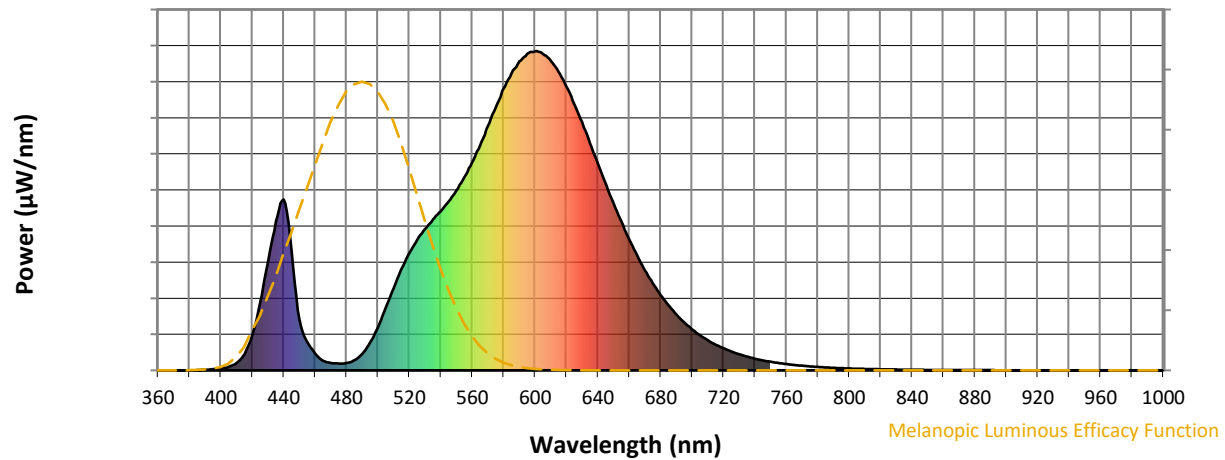
S/P: 1.02

| $\lambda$<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               | 52                                   | NR                             | 620               | 888                                  | NR                             | 750               | 27                                   | NR                             | 880               | 1                                    | NR                             |
| 365               | 0                                    | NR                             | 495               | 87                                   | NR                             | 625               | 834                                  | NR                             | 755               | 23                                   | NR                             | 885               | 1                                    | NR                             |
| 370               | 0                                    | NR                             | 500               | 135                                  | NR                             | 630               | 776                                  | NR                             | 760               | 20                                   | NR                             | 890               | 1                                    | NR                             |
| 375               | 0                                    | NR                             | 505               | 196                                  | NR                             | 635               | 712                                  | NR                             | 765               | 17                                   | NR                             | 895               | 0                                    | NR                             |
| 380               | 0                                    | NR                             | 510               | 258                                  | NR                             | 640               | 648                                  | NR                             | 770               | 15                                   | NR                             | 900               | 0                                    | NR                             |
| 385               | 1                                    | NR                             | 515               | 317                                  | NR                             | 645               | 583                                  | NR                             | 775               | 12                                   | NR                             | 905               | 0                                    | NR                             |
| 390               | 2                                    | NR                             | 520               | 368                                  | NR                             | 650               | 523                                  | NR                             | 780               | 11                                   | NR                             | 910               | 0                                    | NR                             |
| 395               | 4                                    | NR                             | 525               | 408                                  | NR                             | 655               | 465                                  | NR                             | 785               | 9                                    | NR                             | 915               | 0                                    | NR                             |
| 400               | 6                                    | NR                             | 530               | 443                                  | NR                             | 660               | 410                                  | NR                             | 790               | 8                                    | NR                             | 920               | 0                                    | NR                             |
| 405               | 11                                   | NR                             | 535               | 473                                  | NR                             | 665               | 360                                  | NR                             | 795               | 7                                    | NR                             | 925               | 0                                    | NR                             |
| 410               | 23                                   | NR                             | 540               | 498                                  | NR                             | 670               | 313                                  | NR                             | 800               | 6                                    | NR                             | 930               | 0                                    | NR                             |
| 415               | 51                                   | NR                             | 545               | 530                                  | NR                             | 675               | 272                                  | NR                             | 805               | 5                                    | NR                             | 935               | 0                                    | NR                             |
| 420               | 111                                  | NR                             | 550               | 563                                  | NR                             | 680               | 236                                  | NR                             | 810               | 4                                    | NR                             | 940               | 0                                    | NR                             |
| 425               | 214                                  | NR                             | 555               | 605                                  | NR                             | 685               | 203                                  | NR                             | 815               | 4                                    | NR                             | 945               | 0                                    | NR                             |
| 430               | 339                                  | NR                             | 560               | 651                                  | NR                             | 690               | 175                                  | NR                             | 820               | 3                                    | NR                             | 950               | 0                                    | NR                             |
| 435               | 467                                  | NR                             | 565               | 705                                  | NR                             | 695               | 150                                  | NR                             | 825               | 3                                    | NR                             | 955               | 0                                    | NR                             |
| 440               | 535                                  | NR                             | 570               | 765                                  | NR                             | 700               | 128                                  | NR                             | 830               | 3                                    | NR                             | 960               | 0                                    | NR                             |
| 445               | 372                                  | NR                             | 575               | 824                                  | NR                             | 705               | 110                                  | NR                             | 835               | 2                                    | NR                             | 965               | 0                                    | NR                             |
| 450               | 160                                  | NR                             | 580               | 882                                  | NR                             | 710               | 94                                   | NR                             | 840               | 2                                    | NR                             | 970               | 0                                    | NR                             |
| 455               | 89                                   | NR                             | 585               | 930                                  | NR                             | 715               | 80                                   | NR                             | 845               | 2                                    | NR                             | 975               | 0                                    | NR                             |
| 460               | 53                                   | NR                             | 590               | 968                                  | NR                             | 720               | 69                                   | NR                             | 850               | 1                                    | NR                             | 980               | 0                                    | NR                             |
| 465               | 31                                   | NR                             | 595               | 991                                  | NR                             | 725               | 59                                   | NR                             | 855               | 1                                    | NR                             | 985               | 0                                    | NR                             |
| 470               | 23                                   | NR                             | 600               | 999                                  | NR                             | 730               | 50                                   | NR                             | 860               | 1                                    | NR                             | 990               | 0                                    | NR                             |
| 475               | 21                                   | NR                             | 605               | 992                                  | NR                             | 735               | 43                                   | NR                             | 865               | 1                                    | NR                             | 995               | 0                                    | NR                             |
| 480               | 23                                   | NR                             | 610               | 969                                  | NR                             | 740               | 36                                   | NR                             | 870               | 1                                    | NR                             | 1000              | 0                                    | NR                             |
| 485               | 32                                   | NR                             | 615               | 935                                  | NR                             | 745               | 31                                   | NR                             | 875               | 1                                    | NR                             |                   |                                      |                                |



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### Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 1.71

| λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>W <sup>λ</sup> /nm | Lumens<br>(φ/nm) |
|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|-----------|-----------------------------|------------------|
| 360       | 0                           | NR               | 490       | 52                          | NR               | 620       | 888                         | NR               | 750       | 27                          | NR               | 880       | 1                           | NR               |
| 365       | 0                           | NR               | 495       | 87                          | NR               | 625       | 834                         | NR               | 755       | 23                          | NR               | 885       | 1                           | NR               |
| 370       | 0                           | NR               | 500       | 135                         | NR               | 630       | 776                         | NR               | 760       | 20                          | NR               | 890       | 1                           | NR               |
| 375       | 0                           | NR               | 505       | 196                         | NR               | 635       | 712                         | NR               | 765       | 17                          | NR               | 895       | 0                           | NR               |
| 380       | 0                           | NR               | 510       | 258                         | NR               | 640       | 648                         | NR               | 770       | 15                          | NR               | 900       | 0                           | NR               |
| 385       | 1                           | NR               | 515       | 317                         | NR               | 645       | 583                         | NR               | 775       | 12                          | NR               | 905       | 0                           | NR               |
| 390       | 2                           | NR               | 520       | 368                         | NR               | 650       | 523                         | NR               | 780       | 11                          | NR               | 910       | 0                           | NR               |
| 395       | 4                           | NR               | 525       | 408                         | NR               | 655       | 465                         | NR               | 785       | 9                           | NR               | 915       | 0                           | NR               |
| 400       | 6                           | NR               | 530       | 443                         | NR               | 660       | 410                         | NR               | 790       | 8                           | NR               | 920       | 0                           | NR               |
| 405       | 11                          | NR               | 535       | 473                         | NR               | 665       | 360                         | NR               | 795       | 7                           | NR               | 925       | 0                           | NR               |
| 410       | 23                          | NR               | 540       | 498                         | NR               | 670       | 313                         | NR               | 800       | 6                           | NR               | 930       | 0                           | NR               |
| 415       | 51                          | NR               | 545       | 530                         | NR               | 675       | 272                         | NR               | 805       | 5                           | NR               | 935       | 0                           | NR               |
| 420       | 111                         | NR               | 550       | 563                         | NR               | 680       | 236                         | NR               | 810       | 4                           | NR               | 940       | 0                           | NR               |
| 425       | 214                         | NR               | 555       | 605                         | NR               | 685       | 203                         | NR               | 815       | 4                           | NR               | 945       | 0                           | NR               |
| 430       | 339                         | NR               | 560       | 651                         | NR               | 690       | 175                         | NR               | 820       | 3                           | NR               | 950       | 0                           | NR               |
| 435       | 467                         | NR               | 565       | 705                         | NR               | 695       | 150                         | NR               | 825       | 3                           | NR               | 955       | 0                           | NR               |
| 440       | 535                         | NR               | 570       | 765                         | NR               | 700       | 128                         | NR               | 830       | 3                           | NR               | 960       | 0                           | NR               |
| 445       | 372                         | NR               | 575       | 824                         | NR               | 705       | 110                         | NR               | 835       | 2                           | NR               | 965       | 0                           | NR               |
| 450       | 160                         | NR               | 580       | 882                         | NR               | 710       | 94                          | NR               | 840       | 2                           | NR               | 970       | 0                           | NR               |
| 455       | 89                          | NR               | 585       | 930                         | NR               | 715       | 80                          | NR               | 845       | 2                           | NR               | 975       | 0                           | NR               |
| 460       | 53                          | NR               | 590       | 968                         | NR               | 720       | 69                          | NR               | 850       | 1                           | NR               | 980       | 0                           | NR               |
| 465       | 31                          | NR               | 595       | 991                         | NR               | 725       | 59                          | NR               | 855       | 1                           | NR               | 985       | 0                           | NR               |
| 470       | 23                          | NR               | 600       | 999                         | NR               | 730       | 50                          | NR               | 860       | 1                           | NR               | 990       | 0                           | NR               |
| 475       | 21                          | NR               | 605       | 992                         | NR               | 735       | 43                          | NR               | 865       | 1                           | NR               | 995       | 0                           | NR               |
| 480       | 23                          | NR               | 610       | 969                         | NR               | 740       | 36                          | NR               | 870       | 1                           | NR               | 1000      | 0                           | NR               |
| 485       | 32                          | NR               | 615       | 935                         | NR               | 745       | 31                          | NR               | 875       | 1                           | NR               |           |                             |                  |

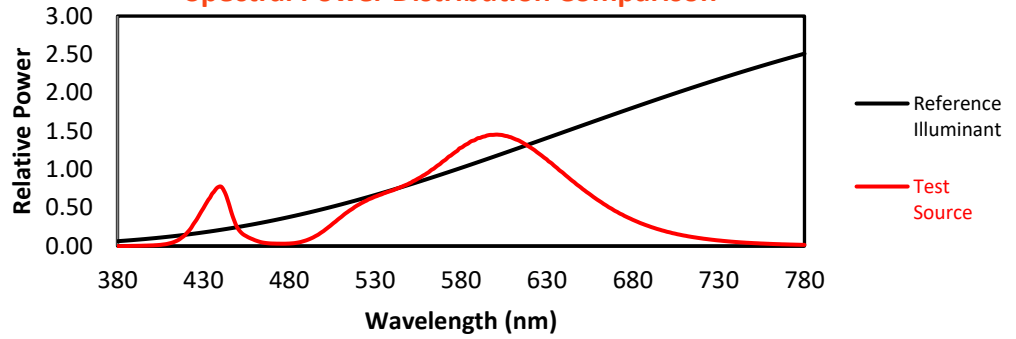
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TM-30-18

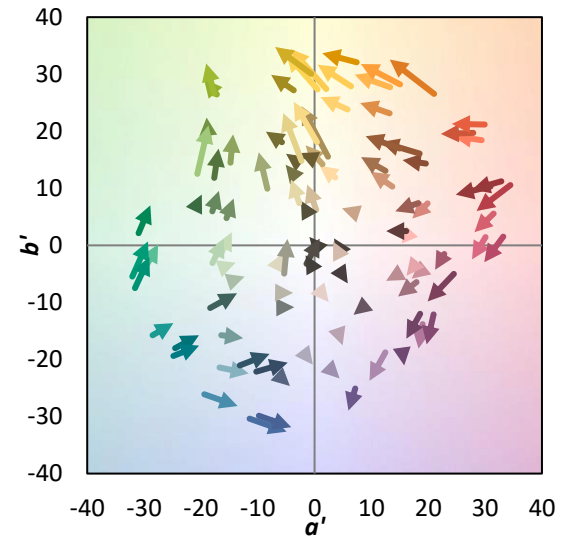
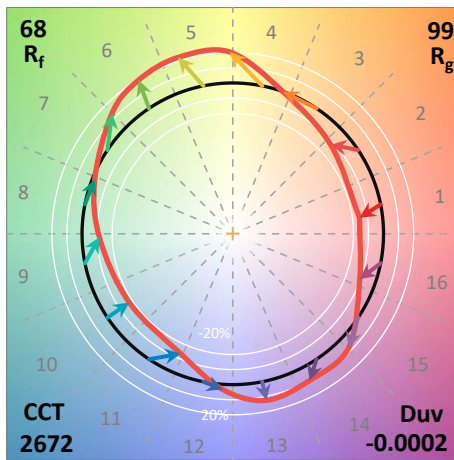
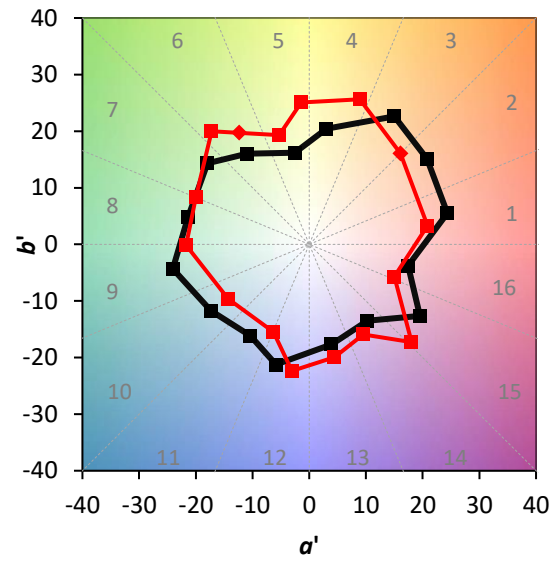
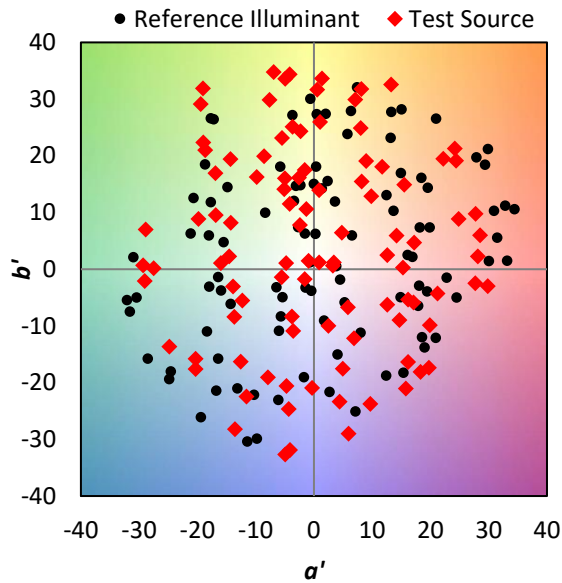
### Summary

$R_f = 67.9$   
 $R_g = 98.6$   
 $CIE R_a = 71.1$   
 $R_g = -27.8$

### Spectral Power Distribution Comparison

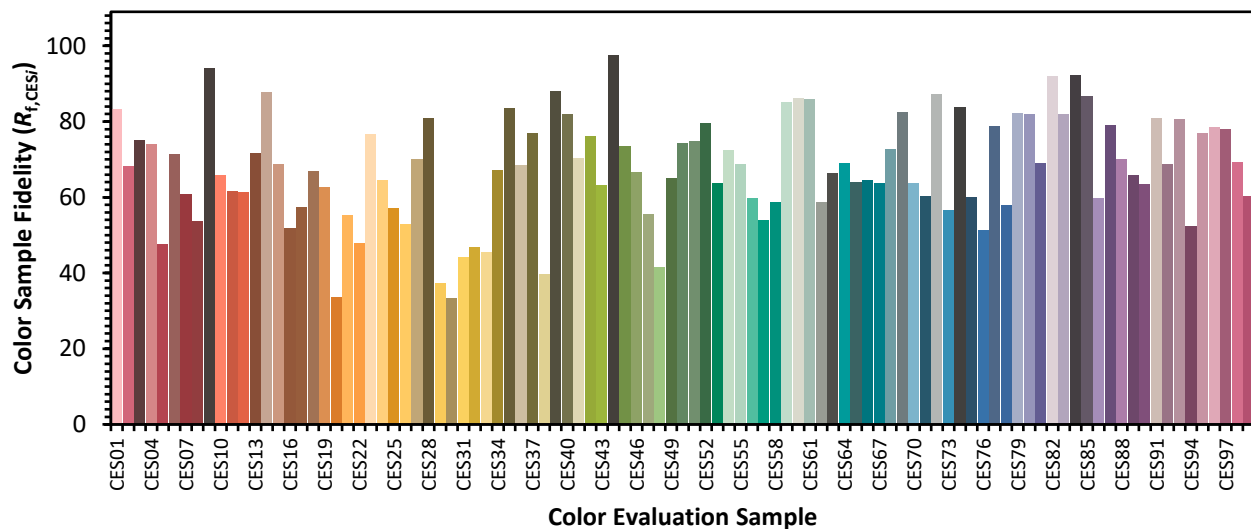


### Color Vector Graphics

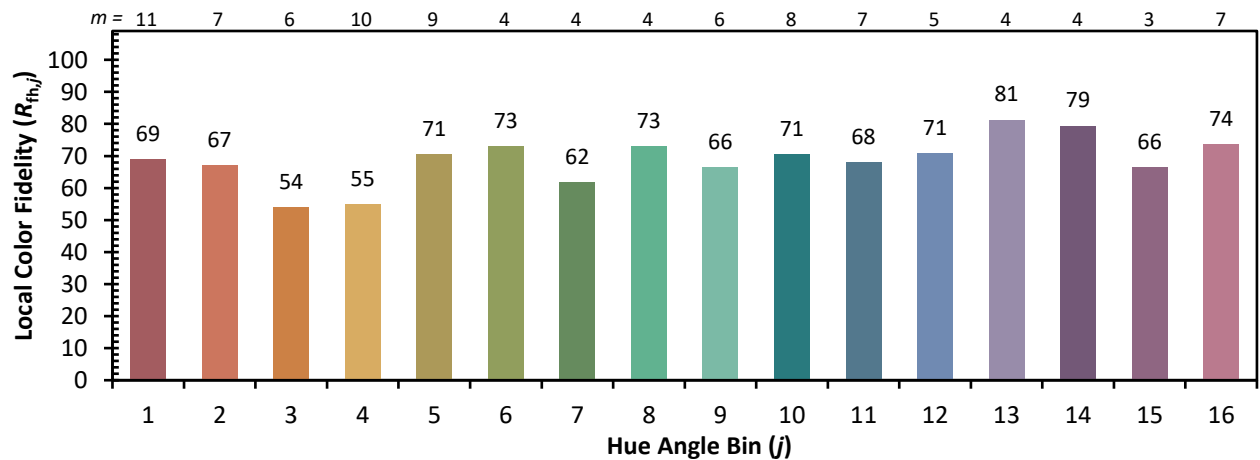
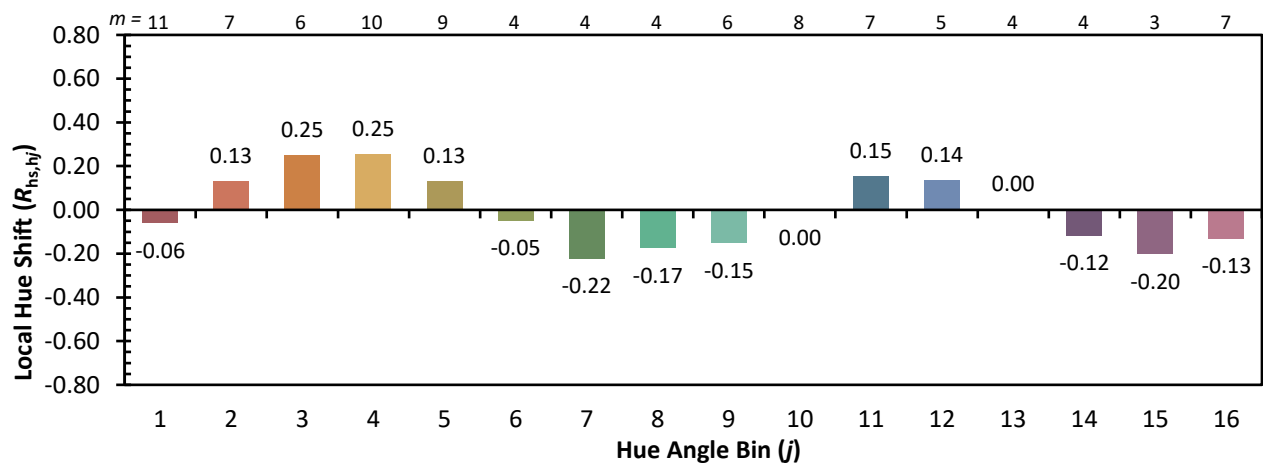
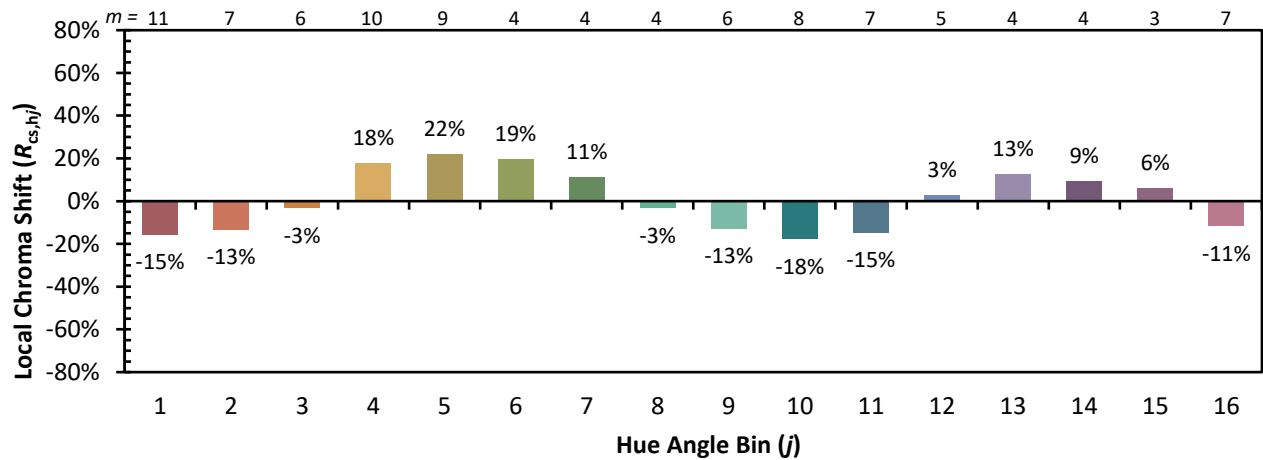


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

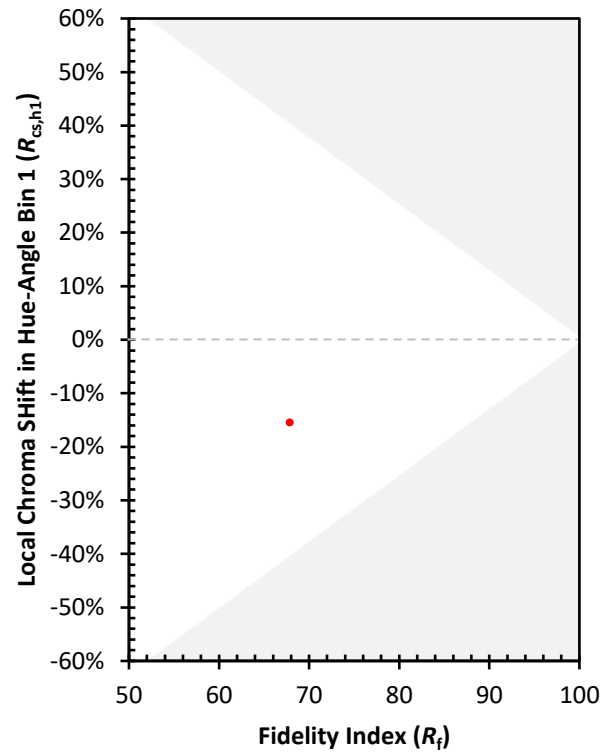
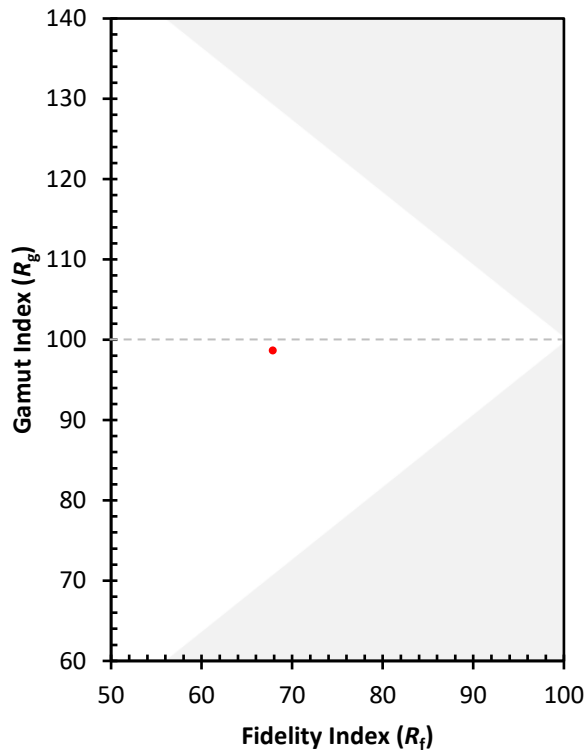
|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 53 | CES51 = 75 | CES76 = 51 |
| CES02 = 63 | CES27 = 70 | CES52 = 80 | CES77 = 79 |
| CES03 = 31 | CES28 = 81 | CES53 = 64 | CES78 = 58 |
| CES04 = 71 | CES29 = 37 | CES54 = 73 | CES79 = 82 |
| CES05 = 50 | CES30 = 33 | CES55 = 69 | CES80 = 82 |
| CES06 = 52 | CES31 = 44 | CES56 = 60 | CES81 = 69 |
| CES07 = 42 | CES32 = 47 | CES57 = 54 | CES82 = 92 |
| CES08 = 41 | CES33 = 45 | CES58 = 59 | CES83 = 82 |
| CES09 = 29 | CES34 = 67 | CES59 = 85 | CES84 = 92 |
| CES10 = 77 | CES35 = 84 | CES60 = 86 | CES85 = 87 |
| CES11 = 60 | CES36 = 68 | CES61 = 86 | CES86 = 60 |
| CES12 = 66 | CES37 = 77 | CES62 = 59 | CES87 = 79 |
| CES13 = 44 | CES38 = 40 | CES63 = 66 | CES88 = 70 |
| CES14 = 74 | CES39 = 88 | CES64 = 69 | CES89 = 66 |
| CES15 = 72 | CES40 = 82 | CES65 = 64 | CES90 = 64 |
| CES16 = 48 | CES41 = 70 | CES66 = 65 | CES91 = 81 |
| CES17 = 51 | CES42 = 76 | CES67 = 64 | CES92 = 69 |
| CES18 = 57 | CES43 = 63 | CES68 = 73 | CES93 = 81 |
| CES19 = 73 | CES44 = 97 | CES69 = 83 | CES94 = 53 |
| CES20 = 67 | CES45 = 74 | CES70 = 64 | CES95 = 77 |
| CES21 = 88 | CES46 = 67 | CES71 = 60 | CES96 = 79 |
| CES22 = 80 | CES47 = 55 | CES72 = 87 | CES97 = 78 |
| CES23 = 92 | CES48 = 42 | CES73 = 57 | CES98 = 69 |
| CES24 = 92 | CES49 = 65 | CES74 = 84 | CES99 = 60 |
| CES25 = 73 | CES50 = 74 | CES75 = 60 |            |



Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)