

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



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

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P510605

Luminaire Tested: **CST-CA10-760-740-U-T1**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510605  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CST-CA10-760-740-U-T1  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (10) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 110695 lumens  
Efficiency: N/A  
Efficacy: 145.3 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

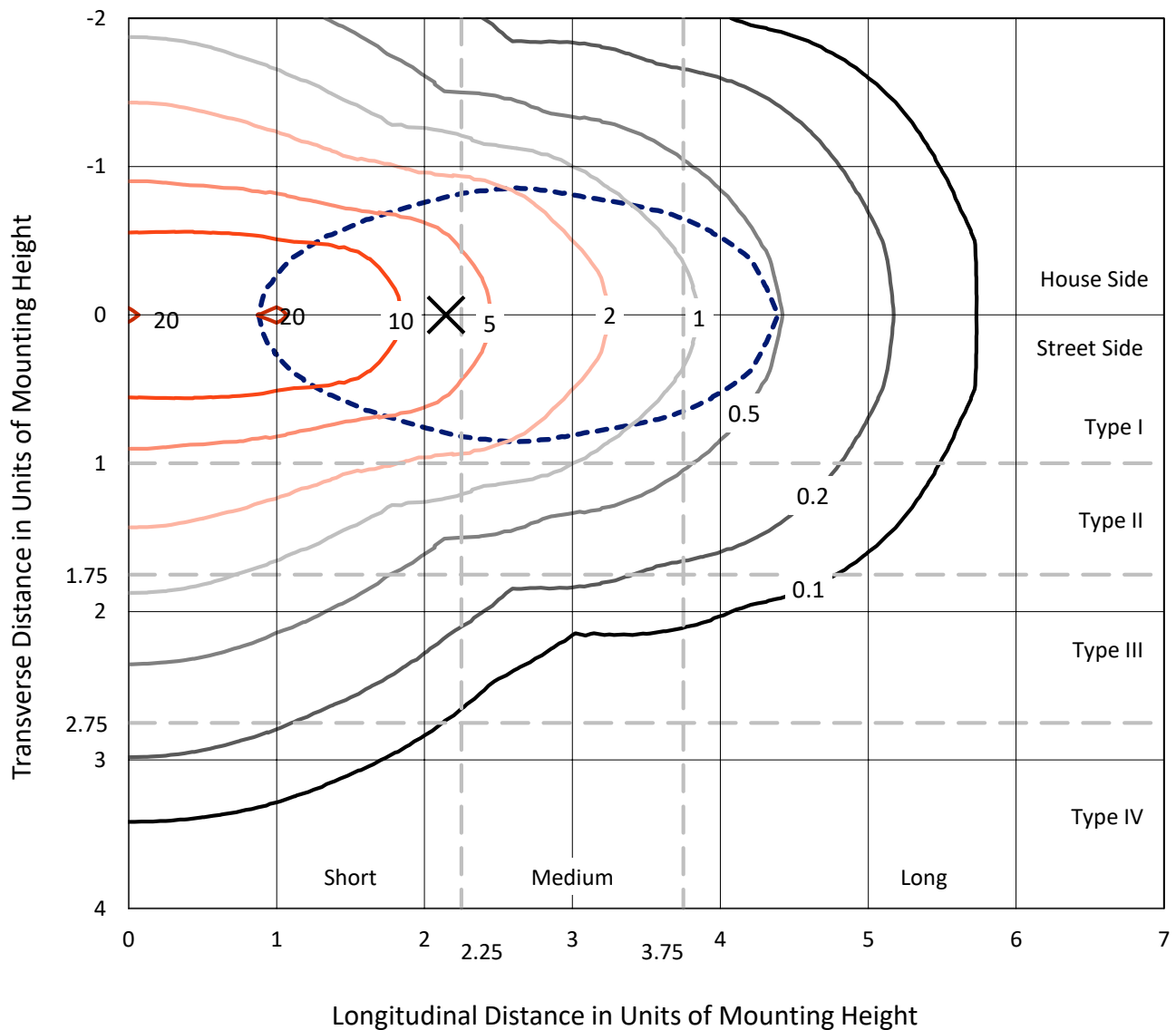
Input Watts (W): 761.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

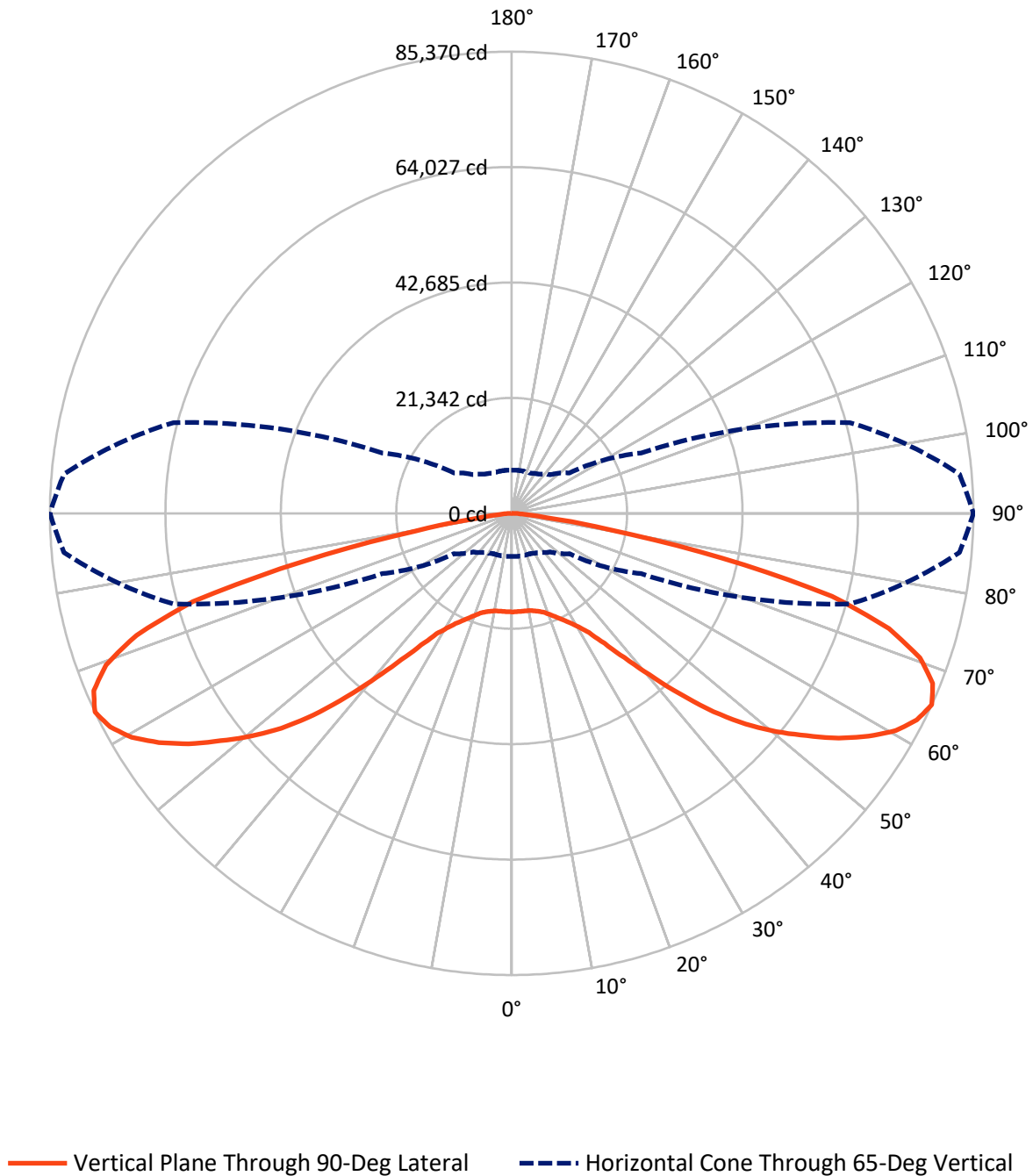
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 20.6 fc  
 Type I - Short - N/A

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## Luminous Intensity Polar Plot



FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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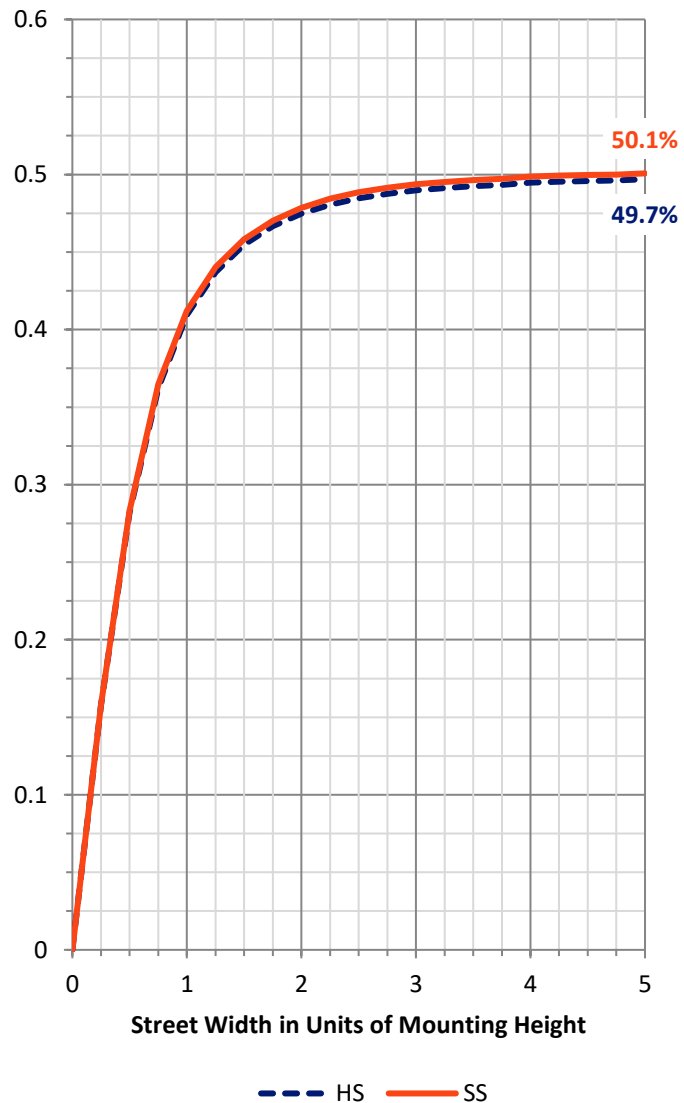
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total    |
|--------------------|-----------|----------|--------|----------|
| <b>House Side</b>  | Lumens    | 55347.5  | 0.0    | 55347.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0     |
| <b>Street Side</b> | Lumens    | 55347.5  | 0.0    | 55347.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0     |
| <b>Total</b>       | Lumens    | 110695.0 | 0.0    | 110695.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0    |

**ZONAL LUMENS:**

| Zone      | Lumens   | % Fixture |
|-----------|----------|-----------|
| 0°-10°    | 1730.6   | 1.6       |
| 10°-20°   | 5107.0   | 4.6       |
| 20°-30°   | 8412.5   | 7.6       |
| 30°-40°   | 12325.4  | 11.1      |
| 40°-50°   | 18224.4  | 16.5      |
| 50°-60°   | 23905.8  | 21.6      |
| 60°-70°   | 24940.5  | 22.5      |
| 70°-80°   | 14339.4  | 13.0      |
| 80°-90°   | 1709.4   | 1.5       |
| 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°    | 110695.0 | 100.0     |
| 0°-180°   | 110695.0 | 100.0     |

**Coefficient of Utilization**



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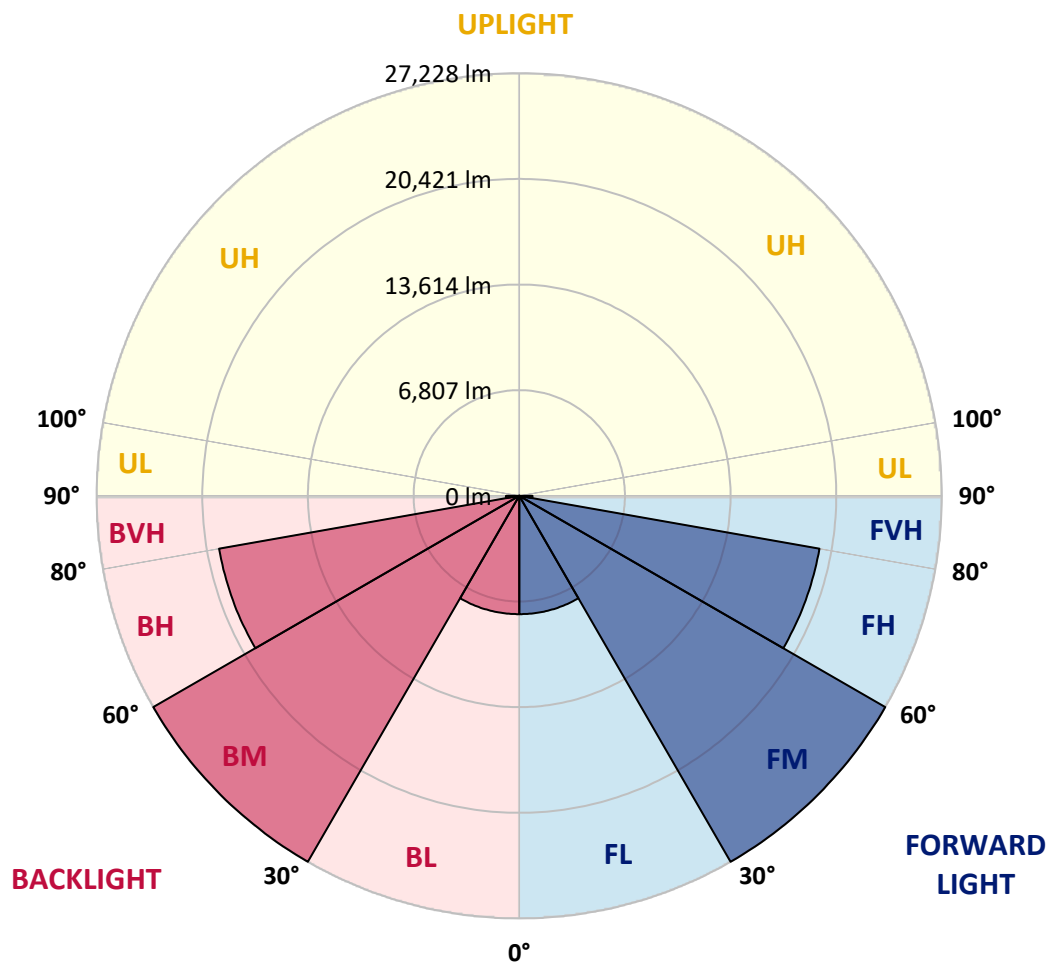
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |    |
|------|-------------|---------|-----------|-------------------------|------|----|
|      |             |         |           | B                       | U    | G  |
| FL   | (0°-30°)    | 7625.1  | 6.9       |                         |      |    |
| FM   | (30°-60°)   | 27227.8 | 24.6      |                         |      |    |
| FH   | (60°-80°)   | 19639.9 | 17.7      |                         |      | G5 |
| FVH  | (80°-90°)   | 854.7   | 0.8       |                         |      | G5 |
| BL   | (0°-30°)    | 7625.1  | 6.9       | B5                      |      |    |
| BM   | (30°-60°)   | 27227.8 | 24.6      | B5                      |      |    |
| BH   | (60°-80°)   | 19639.9 | 17.7      | B5                      |      | G5 |
| BVH  | (80°-90°)   | 854.7   | 0.8       |                         |      | G5 |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |    |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |    |

**BUG Rating: B5-U0-G5**

Type I Short



FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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**CANDELA DISTRIBUTION (FULL):**

|        | 0°      | 5°      | 10°     | 15°     | 20°     | 25°     | 30°     | 35°     | 40°     | 45°     | 50°     |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°     | 18236.7 | 18236.7 | 18236.7 | 18236.7 | 18236.7 | 18236.7 | 18236.7 | 18236.7 | 18236.7 | 18236.7 | 18236.7 |
| 2.5°   | 18232.3 | 18219.4 | 18215.0 | 18208.5 | 18219.4 | 18228.0 | 18249.7 | 18269.1 | 18264.8 | 18260.5 | 18264.8 |
| 5°     | 18130.7 | 18137.1 | 18139.3 | 18141.5 | 18150.1 | 18156.6 | 18186.9 | 18217.2 | 18212.9 | 18208.5 | 18230.2 |
| 7.5°   | 17987.9 | 17987.9 | 17983.5 | 17979.2 | 17996.5 | 18011.7 | 18042.0 | 18072.2 | 18096.0 | 18117.7 | 18152.3 |
| 10°    | 17780.2 | 17771.5 | 17769.3 | 17767.2 | 17786.7 | 17804.0 | 17860.2 | 17916.5 | 17964.1 | 18009.5 | 18067.9 |
| 12.5°  | 17527.0 | 17524.9 | 17529.2 | 17533.5 | 17574.6 | 17615.7 | 17710.9 | 17806.1 | 17901.3 | 17996.5 | 18080.9 |
| 15°    | 17226.3 | 17200.3 | 17222.0 | 17241.4 | 17308.5 | 17373.4 | 17557.3 | 17741.2 | 17886.2 | 18029.0 | 18193.4 |
| 17.5°  | 16767.6 | 16741.7 | 16774.1 | 16804.4 | 16938.5 | 17072.7 | 17332.3 | 17589.8 | 17862.4 | 18135.0 | 18370.8 |
| 20°    | 16073.1 | 16073.1 | 16155.3 | 16237.5 | 16464.7 | 16691.9 | 17048.9 | 17403.7 | 17771.5 | 18139.3 | 18481.2 |
| 22.5°  | 15333.2 | 15311.5 | 15486.8 | 15662.0 | 15934.6 | 16205.1 | 16655.1 | 17105.1 | 17591.9 | 18076.6 | 18546.1 |
| 25°    | 14498.0 | 14534.8 | 14755.5 | 14974.0 | 15357.0 | 15737.8 | 16291.6 | 16843.3 | 17455.6 | 18067.9 | 18719.1 |
| 27.5°  | 13792.7 | 13799.2 | 14065.3 | 14331.4 | 14811.8 | 15289.9 | 15962.8 | 16635.6 | 17382.1 | 18128.5 | 18948.5 |
| 30°    | 13063.6 | 13182.6 | 13463.9 | 13743.0 | 14279.5 | 14816.1 | 15629.6 | 16440.9 | 17325.8 | 18210.7 | 19210.3 |
| 32.5°  | 12503.2 | 12531.4 | 12849.4 | 13165.3 | 13725.6 | 14286.0 | 15231.5 | 16177.0 | 17239.3 | 18301.6 | 19517.5 |
| 35°    | 11975.3 | 12020.8 | 12317.2 | 12613.6 | 13197.7 | 13779.7 | 14816.1 | 15850.3 | 17120.3 | 18388.1 | 19850.7 |
| 37.5°  | 11505.8 | 11562.1 | 11843.3 | 12124.6 | 12687.1 | 13249.7 | 14348.7 | 15447.8 | 16936.4 | 18424.9 | 20216.3 |
| 40°    | 11161.8 | 11209.4 | 11447.4 | 11685.4 | 12193.8 | 12700.1 | 13851.1 | 15000.0 | 16678.9 | 18357.8 | 20504.1 |
| 42.5°  | 10913.0 | 10934.6 | 11127.2 | 11319.8 | 11774.1 | 12228.5 | 13368.7 | 14506.7 | 16343.6 | 18180.4 | 20726.9 |
| 45°    | 10575.5 | 10623.1 | 10813.5 | 11001.7 | 11410.6 | 11817.4 | 12860.2 | 13903.1 | 15845.9 | 17786.7 | 20729.1 |
| 47.5°  | 10324.5 | 10354.8 | 10534.4 | 10711.8 | 11092.6 | 11473.4 | 12410.2 | 13347.0 | 15283.4 | 17217.6 | 20495.4 |
| 50°    | 10140.6 | 10125.5 | 10292.1 | 10456.5 | 10778.9 | 11099.1 | 11934.2 | 12767.2 | 14586.7 | 16406.3 | 19911.3 |
| 52.5°  | 9878.8  | 9896.1  | 10030.3 | 10164.4 | 10443.5 | 10720.5 | 11469.0 | 12215.5 | 13814.3 | 15411.1 | 18963.6 |
| 55°    | 9528.3  | 9608.4  | 9720.9  | 9831.2  | 10075.7 | 10320.2 | 10993.1 | 11665.9 | 13042.0 | 14415.8 | 17743.4 |
| 57.5°  | 9184.3  | 9242.7  | 9337.9  | 9433.1  | 9625.7  | 9816.1  | 10450.0 | 11083.9 | 12228.5 | 13373.0 | 16202.9 |
| 60°    | 8903.1  | 8918.2  | 8978.8  | 9037.2  | 9184.3  | 9331.4  | 9855.0  | 10378.6 | 11378.2 | 12375.6 | 14666.8 |
| 62.5°  | 8539.6  | 8543.9  | 8585.0  | 8626.1  | 8717.0  | 8805.7  | 9216.8  | 9625.7  | 10478.1 | 11330.6 | 13139.3 |
| 65°    | 7970.6  | 8005.2  | 8044.1  | 8080.9  | 8141.5  | 8199.9  | 8513.6  | 8827.3  | 9465.6  | 10103.8 | 11562.1 |
| 67.5°  | 7395.1  | 7364.8  | 7410.2  | 7455.6  | 7464.3  | 7472.9  | 7710.9  | 7948.9  | 8472.5  | 8996.1  | 10168.7 |
| 70°    | 6458.2  | 6482.0  | 6477.7  | 6471.2  | 6434.4  | 6395.5  | 6562.1  | 6728.7  | 7005.6  | 7280.4  | 8128.5  |
| 72.5°  | 4952.4  | 4919.9  | 4837.7  | 4753.3  | 4714.4  | 4675.5  | 4870.2  | 5062.7  | 5266.1  | 5469.5  | 6081.8  |
| 75°    | 3026.8  | 3119.9  | 3290.8  | 3459.5  | 3524.4  | 3589.4  | 3578.5  | 3565.6  | 3548.2  | 3530.9  | 4294.7  |
| 77.5°  | 2051.1  | 2100.8  | 2139.8  | 2176.5  | 2271.7  | 2364.8  | 2473.0  | 2581.1  | 2579.0  | 2576.8  | 3057.1  |
| 80°    | 1304.6  | 1265.7  | 1283.0  | 1300.3  | 1354.4  | 1408.5  | 1572.9  | 1735.2  | 1780.6  | 1823.9  | 2154.9  |
| 82.5°  | 817.8   | 824.3   | 846.0   | 865.4   | 804.8   | 744.3   | 871.9   | 997.4   | 1105.6  | 1211.6  | 1365.2  |
| 85°    | 530.1   | 601.5   | 590.7   | 579.8   | 508.4   | 437.0   | 549.5   | 662.1   | 714.0   | 763.7   | 822.2   |
| 87.5°  | 170.9   | 199.0   | 205.5   | 209.9   | 209.9   | 207.7   | 231.5   | 255.3   | 264.0   | 270.4   | 292.1   |
| 90°    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 92.5°  | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 95°    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 97.5°  | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 100°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 102.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 105°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 107.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 110°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE



REPORT NUMBER: P510605  
 CATALOG NUMBER: CST-CA10-760-740-U-T1

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180°   | 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):**

|        | 55°     | 60°     | 65°     | 70°     | 75°     | 80°     | 85°     | 90°     |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°     | 18236.7 | 18236.7 | 18236.7 | 18236.7 | 18236.7 | 18236.7 | 18236.7 | 18236.7 |
| 2.5°   | 18267.0 | 18245.3 | 18223.7 | 18217.2 | 18210.7 | 18206.4 | 18202.1 | 18197.7 |
| 5°     | 18249.7 | 18245.3 | 18241.0 | 18223.7 | 18206.4 | 18204.2 | 18202.1 | 18208.5 |
| 7.5°   | 18186.9 | 18186.9 | 18186.9 | 18206.4 | 18225.9 | 18217.2 | 18206.4 | 18219.4 |
| 10°    | 18124.2 | 18176.1 | 18228.0 | 18243.2 | 18258.3 | 18269.1 | 18279.9 | 18290.8 |
| 12.5°  | 18165.3 | 18254.0 | 18340.5 | 18390.3 | 18440.0 | 18466.0 | 18489.8 | 18496.3 |
| 15°    | 18357.8 | 18470.3 | 18582.8 | 18649.9 | 18714.8 | 18758.1 | 18801.4 | 18812.2 |
| 17.5°  | 18606.6 | 18779.7 | 18950.6 | 19048.0 | 19145.4 | 19195.1 | 19242.7 | 19227.6 |
| 20°    | 18820.8 | 19058.8 | 19296.8 | 19504.5 | 19712.2 | 19826.9 | 19939.4 | 19952.4 |
| 22.5°  | 19013.4 | 19413.7 | 19813.9 | 20082.2 | 20348.3 | 20551.7 | 20755.1 | 20776.7 |
| 25°    | 19368.2 | 19891.8 | 20415.4 | 20843.8 | 21272.2 | 21458.2 | 21642.1 | 21750.3 |
| 27.5°  | 19766.3 | 20467.3 | 21168.3 | 21741.6 | 22315.0 | 22598.4 | 22879.7 | 22894.8 |
| 30°    | 20207.7 | 21096.9 | 21984.0 | 22754.2 | 23522.3 | 23868.4 | 24212.4 | 24394.2 |
| 32.5°  | 20731.3 | 21860.6 | 22987.9 | 24000.4 | 25013.0 | 25538.7 | 26064.4 | 26248.3 |
| 35°    | 21311.1 | 22775.8 | 24238.4 | 25633.9 | 27027.2 | 28033.3 | 29039.3 | 29524.0 |
| 37.5°  | 22007.8 | 23872.8 | 25737.7 | 27834.2 | 29930.7 | 31646.4 | 33360.0 | 33848.9 |
| 40°    | 22650.3 | 25049.7 | 27447.0 | 30359.1 | 33271.3 | 35993.0 | 38712.6 | 39242.7 |
| 42.5°  | 23273.4 | 26176.9 | 29080.5 | 33052.8 | 37025.1 | 40668.5 | 44311.9 | 45690.1 |
| 45°    | 23669.4 | 27180.8 | 30690.1 | 35928.1 | 41166.1 | 46168.3 | 51168.3 | 52325.8 |
| 47.5°  | 23771.1 | 27897.0 | 32022.9 | 38511.4 | 44999.9 | 50887.0 | 56771.9 | 58258.3 |
| 50°    | 23416.2 | 28269.1 | 33122.0 | 41685.4 | 50246.6 | 56241.8 | 62234.9 | 63455.1 |
| 52.5°  | 22516.2 | 28150.1 | 33784.0 | 44145.3 | 54506.6 | 60852.4 | 67198.1 | 68305.8 |
| 55°    | 21070.9 | 27427.5 | 33784.0 | 46170.4 | 58554.7 | 65136.2 | 71715.6 | 73398.9 |
| 57.5°  | 19032.9 | 26047.1 | 33061.4 | 47522.7 | 61983.9 | 69132.3 | 76280.7 | 77793.1 |
| 60°    | 16958.0 | 24405.0 | 31849.8 | 48269.1 | 64688.4 | 72260.8 | 79833.3 | 81598.8 |
| 62.5°  | 14945.9 | 22174.4 | 29400.7 | 47485.9 | 65571.1 | 73565.5 | 81557.7 | 84097.7 |
| 65°    | 13020.3 | 19697.1 | 26373.8 | 45575.5 | 64774.9 | 73935.4 | 83093.8 | 85369.9 |
| 67.5°  | 11341.4 | 17626.5 | 23911.7 | 42373.4 | 60835.1 | 70973.5 | 81109.8 | 83946.2 |
| 70°    | 8976.6  | 14759.8 | 20543.0 | 36696.2 | 52849.4 | 64723.0 | 76596.6 | 80097.3 |
| 72.5°  | 6694.1  | 11598.9 | 16501.5 | 28866.3 | 41231.0 | 54885.3 | 68537.3 | 72942.4 |
| 75°    | 5056.2  | 9264.4  | 13472.5 | 22816.9 | 32161.4 | 43721.3 | 55281.2 | 61176.9 |
| 77.5°  | 3537.4  | 6694.1  | 9848.5  | 16819.5 | 23790.5 | 30190.4 | 36590.2 | 39731.7 |
| 80°    | 2483.8  | 4234.1  | 5982.3  | 9335.8  | 12687.1 | 15525.7 | 18362.2 | 18137.1 |
| 82.5°  | 1516.7  | 2252.3  | 2985.7  | 4050.2  | 5114.7  | 5800.5  | 6486.4  | 6456.1  |
| 85°    | 880.6   | 1071.0  | 1259.2  | 1559.9  | 1860.7  | 2200.3  | 2540.0  | 2258.8  |
| 87.5°  | 311.6   | 311.6   | 311.6   | 357.0   | 402.4   | 553.9   | 705.3   | 744.3   |
| 90°    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 92.5°  | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 95°    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 97.5°  | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 100°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 102.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 105°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 107.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 110°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE



REPORT NUMBER: P510605  
 CATALOG NUMBER: CST-CA10-760-740-U-T1

**CANDELA DISTRIBUTION (continued):**

|        | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

LM-79-08: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

STREETWORKS

Report Number: SP1-2104-215-1

Luminaire Tested: CST-CA6-230-740-U-T4

Test Date: 04/20/2021

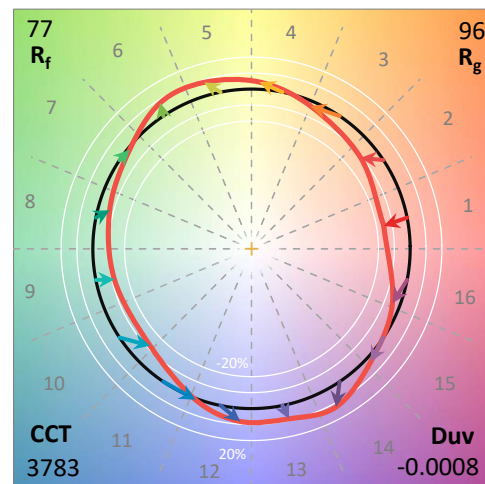
### Test Information

Test Method: LM-79-08  
 Report Number: SP1-2104-215-1  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1  
 Measurement Geometry:  $4\pi$   
 Issue Date: 04/20/2021  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: **CST-CA6-230-740-U-T4**  
 Description: STREETWORKS HIGH MAST LUMINAIRE

230W

### Spectral Parameters

|                           |         |           |      |      |       |
|---------------------------|---------|-----------|------|------|-------|
| CCT (K):                  | 3783    | CRI (Ra): | 75.1 |      |       |
| CIE u':                   | 0.2297  | R1:       | 72.8 | R9:  | -19.0 |
| CIE v':                   | 0.5046  | R2:       | 81.9 | R10: | 57.0  |
| Duv:                      | -0.0008 | R3:       | 89.0 | R11: | 70.7  |
| CIE x:                    | 0.3897  | R4:       | 74.1 | R12: | 48.2  |
| CIE y:                    | 0.3804  | R5:       | 72.3 | R13: | 74.4  |
| CIE z:                    | 0.2299  | R6:       | 74.5 | R14: | 93.7  |
| Peak Wavelength (nm):     | 450     | R7:       | 81.7 |      |       |
| Dominant Wavelength (nm): | 580     | R8:       | 54.6 |      |       |
| Purity:                   | 31.3    |           |      |      |       |
| Rf:                       | 76.5    |           |      |      |       |
| Rg:                       | 95.6    |           |      |      |       |



### Test Conditions

Stabilization Time: 47M  
 Operation Time: 12H  
 Room Temperature (°C) / RH%: 25.5/39%  
 Sphere Temperature (°C): 24.0

REPORT NUMBER: SP1-2104-215-1

| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| Photometer                     | IN0058                | 1/31/2021        | 7/31/2021            |
| Power Meter                    | IN0071                | 12/1/2020        | 12/1/2021            |
| AC Power Source                | IN0063                | 12/1/2020        | 12/1/2021            |
| DC Power Source                | IN0208                | 12/1/2020        | 12/1/2021            |
| Sphere Thermometer             | IN0085                | 12/1/2020        | 12/1/2021            |
| Room Thermometer               | IN0046                | 12/1/2020        | 12/1/2021            |

REPORT NUMBER: SP1-2104-215-1

**CIE 1931 Chromaticity Diagram**



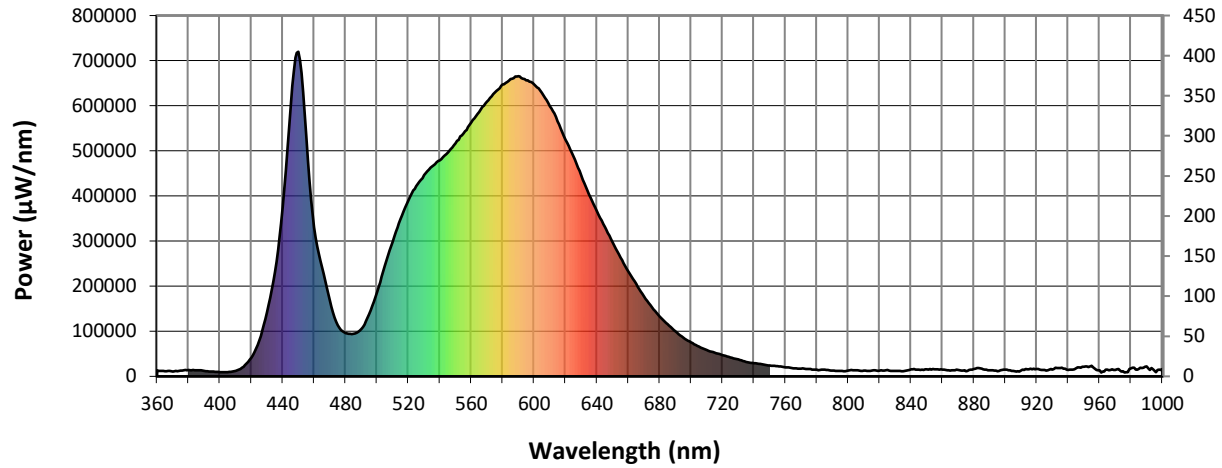
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 4000K 7-step quadrangle

REPORT NUMBER: SP1-2104-215-1

### Photopic Flux vs. Wavelength



#####

| λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) |
|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|
| 360       | 13329            | 0.0              | 490       | 105235           | 15.0             | 620       | 524343           | 136.4            | 750       | 24224            | 0.0              | 880       | 16135            | 0.0              |
| 365       | 11697            | 0.0              | 495       | 137678           | 25.0             | 625       | 488932           | 107.9            | 755       | 22376            | 0.0              | 885       | 16876            | 0.0              |
| 370       | 10917            | 0.0              | 500       | 186689           | 41.2             | 630       | 445400           | 80.6             | 760       | 20109            | 0.0              | 890       | 13554            | 0.0              |
| 375       | 12548            | 0.0              | 505       | 244611           | 68.4             | 635       | 403534           | 60.6             | 765       | 18097            | 0.0              | 895       | 11525            | 0.0              |
| 380       | 13932            | 0.0              | 510       | 298987           | 102.7            | 640       | 366414           | 43.8             | 770       | 17366            | 0.0              | 900       | 14656            | 0.0              |
| 385       | 13265            | 0.0              | 515       | 348170           | 144.2            | 645       | 331272           | 31.9             | 775       | 16226            | 0.0              | 905       | 11999            | 0.0              |
| 390       | 11808            | 0.0              | 520       | 390427           | 189.3            | 650       | 297360           | 21.7             | 780       | 14803            | 0.0              | 910       | 12965            | 0.0              |
| 395       | 10395            | 0.0              | 525       | 421211           | 226.1            | 655       | 263291           | 15.1             | 785       | 15199            | 0.0              | 915       | 15939            | 0.0              |
| 400       | 9348             | 0.0              | 530       | 446063           | 262.6            | 660       | 232931           | 9.7              | 790       | 12989            | 0.0              | 920       | 16238            | 0.0              |
| 405       | 9479             | 0.0              | 535       | 465110           | 288.4            | 665       | 204719           | 6.5              | 795       | 12106            | 0.0              | 925       | 14419            | 0.0              |
| 410       | 12414            | 0.0              | 540       | 479189           | 312.2            | 670       | 177096           | 3.9              | 800       | 12942            | 0.0              | 930       | 14788            | 0.0              |
| 415       | 21574            | 0.0              | 545       | 495864           | 330.0            | 675       | 153254           | 2.6              | 805       | 13253            | 0.0              | 935       | 18619            | 0.0              |
| 420       | 41448            | 0.1              | 550       | 516625           | 351.1            | 680       | 132874           | 1.5              | 810       | 12808            | 0.0              | 940       | 13995            | 0.0              |
| 425       | 79385            | 0.4              | 555       | 538555           | 367.8            | 685       | 115378           | 1.0              | 815       | 12903            | 0.0              | 945       | 18047            | 0.0              |
| 430       | 141845           | 1.1              | 560       | 562412           | 382.2            | 690       | 100157           | 0.6              | 820       | 12621            | 0.0              | 950       | 21418            | 0.0              |
| 435       | 231290           | 2.7              | 565       | 585835           | 389.5            | 695       | 85561            | 0.4              | 825       | 13903            | 0.0              | 955       | 23138            | 0.0              |
| 440       | 374482           | 5.9              | 570       | 608681           | 395.8            | 700       | 75396            | 0.2              | 830       | 11870            | 0.0              | 960       | 13665            | 0.0              |
| 445       | 596715           | 12.4             | 575       | 629563           | 391.7            | 705       | 65658            | 0.1              | 835       | 11069            | 0.0              | 965       | 14793            | 0.0              |
| 450       | 719656           | 18.7             | 580       | 646820           | 384.3            | 710       | 58172            | 0.1              | 840       | 15291            | 0.0              | 970       | 14396            | 0.0              |
| 455       | 530438           | 17.8             | 585       | 659231           | 366.3            | 715       | 52563            | 0.1              | 845       | 15125            | 0.0              | 975       | 11155            | 0.0              |
| 460       | 330446           | 13.5             | 590       | 665630           | 344.2            | 720       | 47085            | 0.0              | 850       | 15336            | 0.0              | 980       | 17987            | 0.0              |
| 465       | 241999           | 12.5             | 595       | 656228           | 311.1            | 725       | 41741            | 0.0              | 855       | 15791            | 0.0              | 985       | 16185            | 0.0              |
| 470       | 167096           | 10.4             | 600       | 646946           | 278.8            | 730       | 37415            | 0.0              | 860       | 14660            | 0.0              | 990       | 22120            | 0.0              |
| 475       | 113791           | 8.9              | 605       | 628643           | 243.4            | 735       | 32125            | 0.0              | 865       | 12528            | 0.0              | 995       | 11943            | 0.0              |
| 480       | 96126            | 9.1              | 610       | 599057           | 205.8            | 740       | 29322            | 0.0              | 870       | 14089            | 0.0              | 1000      | 16020            | 0.0              |
| 485       | 94467            | 11.2             | 615       | 565669           | 170.8            | 745       | 26862            | 0.0              | 875       | 11732            | 0.0              |           |                  |                  |

REPORT NUMBER: SP1-2104-215-1

### Scotopic Flux vs. Wavelength



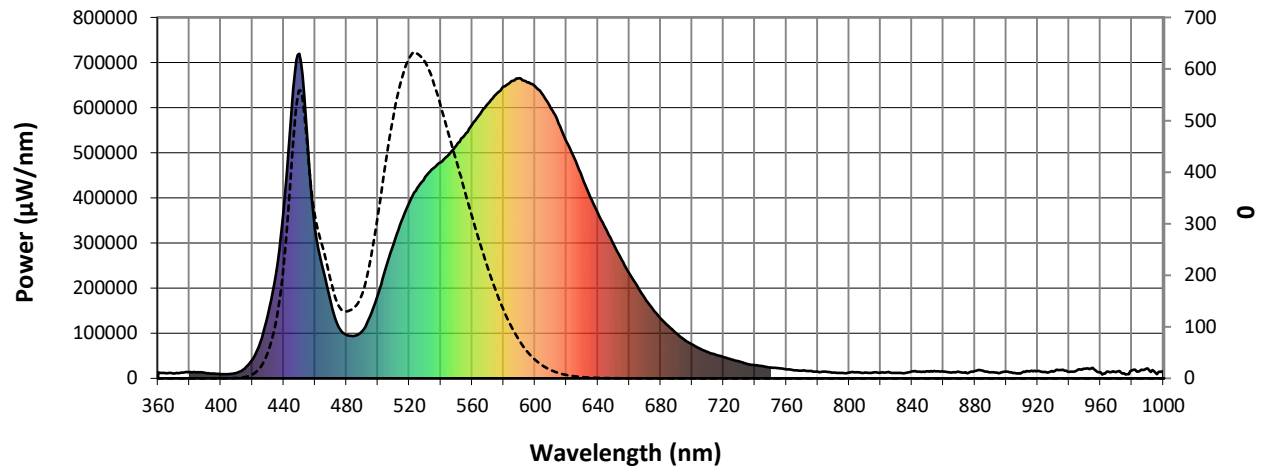
Scotopic Lumens: 54268.8

S/P: 1.5

| λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) |
|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|
| 360       | 13329            | 0.0              | 490       | 105235           | 162.0            | 620       | 524343           | 6.6              | 750       | 24224            | 0.0              | 880       | 16135            | 0.0              |
| 365       | 11697            | 0.0              | 495       | 137678           | 222.6            | 625       | 488932           | 4.1              | 755       | 22376            | 0.0              | 885       | 16876            | 0.0              |
| 370       | 10917            | 0.0              | 500       | 186689           | 312.3            | 630       | 445400           | 2.5              | 760       | 20109            | 0.0              | 890       | 13554            | 0.0              |
| 375       | 12548            | 0.0              | 505       | 244611           | 415.8            | 635       | 403534           | 1.5              | 765       | 18097            | 0.0              | 895       | 11525            | 0.0              |
| 380       | 13932            | 0.0              | 510       | 298987           | 506.8            | 640       | 366414           | 0.9              | 770       | 17366            | 0.0              | 900       | 14656            | 0.0              |
| 385       | 13265            | 0.0              | 515       | 348170           | 577.1            | 645       | 331272           | 0.6              | 775       | 16226            | 0.0              | 905       | 11999            | 0.0              |
| 390       | 11808            | 0.0              | 520       | 390427           | 620.6            | 650       | 297360           | 0.3              | 780       | 14803            | 0.0              | 910       | 12965            | 0.0              |
| 395       | 10395            | 0.1              | 525       | 421211           | 630.1            | 655       | 263291           | 0.2              | 785       | 15199            | 0.0              | 915       | 15939            | 0.0              |
| 400       | 9348             | 0.1              | 530       | 446063           | 615.0            | 660       | 232931           | 0.1              | 790       | 12989            | 0.0              | 920       | 16238            | 0.0              |
| 405       | 9479             | 0.3              | 535       | 465110           | 579.6            | 665       | 204719           | 0.1              | 795       | 12106            | 0.0              | 925       | 14419            | 0.0              |
| 410       | 12414            | 0.7              | 540       | 479189           | 529.5            | 670       | 177096           | 0.0              | 800       | 12942            | 0.0              | 930       | 14788            | 0.0              |
| 415       | 21574            | 2.2              | 545       | 495864           | 475.4            | 675       | 153254           | 0.0              | 805       | 13253            | 0.0              | 935       | 18619            | 0.0              |
| 420       | 41448            | 6.8              | 550       | 516625           | 422.4            | 680       | 132874           | 0.0              | 810       | 12808            | 0.0              | 940       | 13995            | 0.0              |
| 425       | 79385            | 19.4             | 555       | 538555           | 368.0            | 685       | 115378           | 0.0              | 815       | 12903            | 0.0              | 945       | 18047            | 0.0              |
| 430       | 141845           | 48.3             | 560       | 562412           | 314.4            | 690       | 100157           | 0.0              | 820       | 12621            | 0.0              | 950       | 21418            | 0.0              |
| 435       | 231290           | 103.4            | 565       | 585835           | 262.8            | 695       | 85561            | 0.0              | 825       | 13903            | 0.0              | 955       | 23138            | 0.0              |
| 440       | 374482           | 209.3            | 570       | 608681           | 214.8            | 700       | 75396            | 0.0              | 830       | 11870            | 0.0              | 960       | 13665            | 0.0              |
| 445       | 596715           | 399.6            | 575       | 629563           | 171.5            | 705       | 65658            | 0.0              | 835       | 11069            | 0.0              | 965       | 14793            | 0.0              |
| 450       | 719656           | 557.8            | 580       | 646820           | 133.3            | 710       | 58172            | 0.0              | 840       | 15291            | 0.0              | 970       | 14396            | 0.0              |
| 455       | 530438           | 463.5            | 585       | 659231           | 100.8            | 715       | 52563            | 0.0              | 845       | 15125            | 0.0              | 975       | 11155            | 0.0              |
| 460       | 330446           | 319.2            | 590       | 665630           | 74.1             | 720       | 47085            | 0.0              | 850       | 15336            | 0.0              | 980       | 17987            | 0.0              |
| 465       | 241999           | 255.6            | 595       | 656228           | 52.3             | 725       | 41741            | 0.0              | 855       | 15791            | 0.0              | 985       | 16185            | 0.0              |
| 470       | 167096           | 192.4            | 600       | 646946           | 36.5             | 730       | 37415            | 0.0              | 860       | 14660            | 0.0              | 990       | 22120            | 0.0              |
| 475       | 113791           | 142.3            | 605       | 628643           | 24.7             | 735       | 32125            | 0.0              | 865       | 12528            | 0.0              | 995       | 11943            | 0.0              |
| 480       | 96126            | 129.8            | 610       | 599057           | 16.2             | 740       | 29322            | 0.0              | 870       | 14089            | 0.0              | 1000      | 16020            | 0.0              |
| 485       | 94467            | 136.9            | 615       | 565669           | 10.5             | 745       | 26862            | 0.0              | 875       | 11732            | 0.0              |           |                  |                  |

REPORT NUMBER: SP1-2104-215-1

### Melanopic Flux vs. Wavelength


**Melanopic Lumens: 20938.3      M/P: 0.58**

| λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) |
|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|
| 360       | 13329            | 0.0              | 490       | 105235           | 87.6             | 620       | 524343           | 0.4              | 750       | 24224            | 0.0              | 880       | 16135            | 0.0              |
| 365       | 11697            | 0.0              | 495       | 137678           | 113.7            | 625       | 488932           | 0.3              | 755       | 22376            | 0.0              | 885       | 16876            | 0.0              |
| 370       | 10917            | 0.0              | 500       | 186689           | 150.1            | 630       | 445400           | 0.2              | 760       | 20109            | 0.0              | 890       | 13554            | 0.0              |
| 375       | 12548            | 0.0              | 505       | 244611           | 187.7            | 635       | 403534           | 0.1              | 765       | 18097            | 0.0              | 895       | 11525            | 0.0              |
| 380       | 13932            | 0.0              | 510       | 298987           | 214.7            | 640       | 366414           | 0.1              | 770       | 17366            | 0.0              | 900       | 14656            | 0.0              |
| 385       | 13265            | 0.0              | 515       | 348170           | 227.5            | 645       | 331272           | 0.0              | 775       | 16226            | 0.0              | 905       | 11999            | 0.0              |
| 390       | 11808            | 0.0              | 520       | 390427           | 227.3            | 650       | 297360           | 0.0              | 780       | 14803            | 0.0              | 910       | 12965            | 0.0              |
| 395       | 10395            | 0.1              | 525       | 421211           | 213.6            | 655       | 263291           | 0.0              | 785       | 15199            | 0.0              | 915       | 15939            | 0.0              |
| 400       | 9348             | 0.1              | 530       | 446063           | 192.8            | 660       | 232931           | 0.0              | 790       | 12989            | 0.0              | 920       | 16238            | 0.0              |
| 405       | 9479             | 0.2              | 535       | 465110           | 167.4            | 665       | 204719           | 0.0              | 795       | 12106            | 0.0              | 925       | 14419            | 0.0              |
| 410       | 12414            | 0.5              | 540       | 479189           | 140.2            | 670       | 177096           | 0.0              | 800       | 12942            | 0.0              | 930       | 14788            | 0.0              |
| 415       | 21574            | 1.4              | 545       | 495864           | 115.2            | 675       | 153254           | 0.0              | 805       | 13253            | 0.0              | 935       | 18619            | 0.0              |
| 420       | 41448            | 4.7              | 550       | 516625           | 92.7             | 680       | 132874           | 0.0              | 810       | 12808            | 0.0              | 940       | 13995            | 0.0              |
| 425       | 79385            | 12.4             | 555       | 538555           | 72.6             | 685       | 115378           | 0.0              | 815       | 12903            | 0.0              | 945       | 18047            | 0.0              |
| 430       | 141845           | 30.0             | 560       | 562412           | 55.5             | 690       | 100157           | 0.0              | 820       | 12621            | 0.0              | 950       | 21418            | 0.0              |
| 435       | 231290           | 61.7             | 565       | 585835           | 41.1             | 695       | 85561            | 0.0              | 825       | 13903            | 0.0              | 955       | 23138            | 0.0              |
| 440       | 374482           | 125.1            | 570       | 608681           | 29.7             | 700       | 75396            | 0.0              | 830       | 11870            | 0.0              | 960       | 13665            | 0.0              |
| 445       | 596715           | 235.4            | 575       | 629563           | 21.0             | 705       | 65658            | 0.0              | 835       | 11069            | 0.0              | 965       | 14793            | 0.0              |
| 450       | 719656           | 331.6            | 580       | 646820           | 14.5             | 710       | 58172            | 0.0              | 840       | 15291            | 0.0              | 970       | 14396            | 0.0              |
| 455       | 530438           | 277.9            | 585       | 659231           | 9.8              | 715       | 52563            | 0.0              | 845       | 15125            | 0.0              | 975       | 11155            | 0.0              |
| 460       | 330446           | 194.7            | 590       | 665630           | 6.5              | 720       | 47085            | 0.0              | 850       | 15336            | 0.0              | 980       | 17987            | 0.0              |
| 465       | 241999           | 158.1            | 595       | 656228           | 4.2              | 725       | 41741            | 0.0              | 855       | 15791            | 0.0              | 985       | 16185            | 0.0              |
| 470       | 167096           | 119.6            | 600       | 646946           | 2.7              | 730       | 37415            | 0.0              | 860       | 14660            | 0.0              | 990       | 22120            | 0.0              |
| 475       | 113791           | 86.9             | 605       | 628643           | 1.7              | 735       | 32125            | 0.0              | 865       | 12528            | 0.0              | 995       | 11943            | 0.0              |
| 480       | 96126            | 77.2             | 610       | 599057           | 1.1              | 740       | 29322            | 0.0              | 870       | 14089            | 0.0              | 1000      | 16020            | 0.0              |
| 485       | 94467            | 77.9             | 615       | 565669           | 0.7              | 745       | 26862            | 0.0              | 875       | 11732            | 0.0              |           |                  |                  |

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TM-30-18

### Summary

$R_f = 76.5$   
 $R_g = 95.6$   
 CIE  $R_a = 75.1$   
 $R_g = -19.0$



### Color Vector Graphics



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

|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 66 | CES51 = 90 | CES76 = 56 |
| CES02 = 61 | CES27 = 89 | CES52 = 89 | CES77 = 73 |
| CES03 = 31 | CES28 = 83 | CES53 = 81 | CES78 = 58 |
| CES04 = 70 | CES29 = 69 | CES54 = 87 | CES79 = 84 |
| CES05 = 48 | CES30 = 84 | CES55 = 86 | CES80 = 81 |
| CES06 = 51 | CES31 = 72 | CES56 = 77 | CES81 = 79 |
| CES07 = 40 | CES32 = 64 | CES57 = 77 | CES82 = 92 |
| CES08 = 39 | CES33 = 79 | CES58 = 77 | CES83 = 90 |
| CES09 = 29 | CES34 = 73 | CES59 = 87 | CES84 = 87 |
| CES10 = 74 | CES35 = 85 | CES60 = 90 | CES85 = 78 |
| CES11 = 57 | CES36 = 91 | CES61 = 84 | CES86 = 73 |
| CES12 = 63 | CES37 = 81 | CES62 = 87 | CES87 = 79 |
| CES13 = 42 | CES38 = 94 | CES63 = 75 | CES88 = 83 |
| CES14 = 74 | CES39 = 96 | CES64 = 69 | CES89 = 73 |
| CES15 = 71 | CES40 = 91 | CES65 = 66 | CES90 = 83 |
| CES16 = 47 | CES41 = 94 | CES66 = 63 | CES91 = 76 |
| CES17 = 49 | CES42 = 82 | CES67 = 60 | CES92 = 62 |
| CES18 = 56 | CES43 = 78 | CES68 = 68 | CES93 = 77 |
| CES19 = 72 | CES44 = 99 | CES69 = 76 | CES94 = 57 |
| CES20 = 65 | CES45 = 86 | CES70 = 60 | CES95 = 69 |
| CES21 = 86 | CES46 = 84 | CES71 = 54 | CES96 = 79 |
| CES22 = 78 | CES47 = 87 | CES72 = 85 | CES97 = 86 |
| CES23 = 92 | CES48 = 80 | CES73 = 52 | CES98 = 79 |
| CES24 = 91 | CES49 = 82 | CES74 = 94 | CES99 = 69 |
| CES25 = 72 | CES50 = 90 | CES75 = 56 |            |



Color Rendition by Hue-Angle Bin



**Measure Comparisons**



(END OF REPORT)