

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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Peachtree City, GA 30269

Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P1457685

Luminaire Tested: GLAN-SB6C-750-U-T2LG-HSS

Issue Date: 05/20/2026

Test Information

Test Method: LM-79-2024
Report Number: P1457685
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GLAN-SB6C-750-U-T2LG-HSS
Description: GALLEON II AREA AND ROADWAY HIGH DENSITY LUMINAIRE 615mA 6xLight Square
PACKAGE 70CRI 5000K FIXTURE w/ TYPE II LOW GLARE WITH HOUSE SIDE SHIELD
Light Source: (156) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

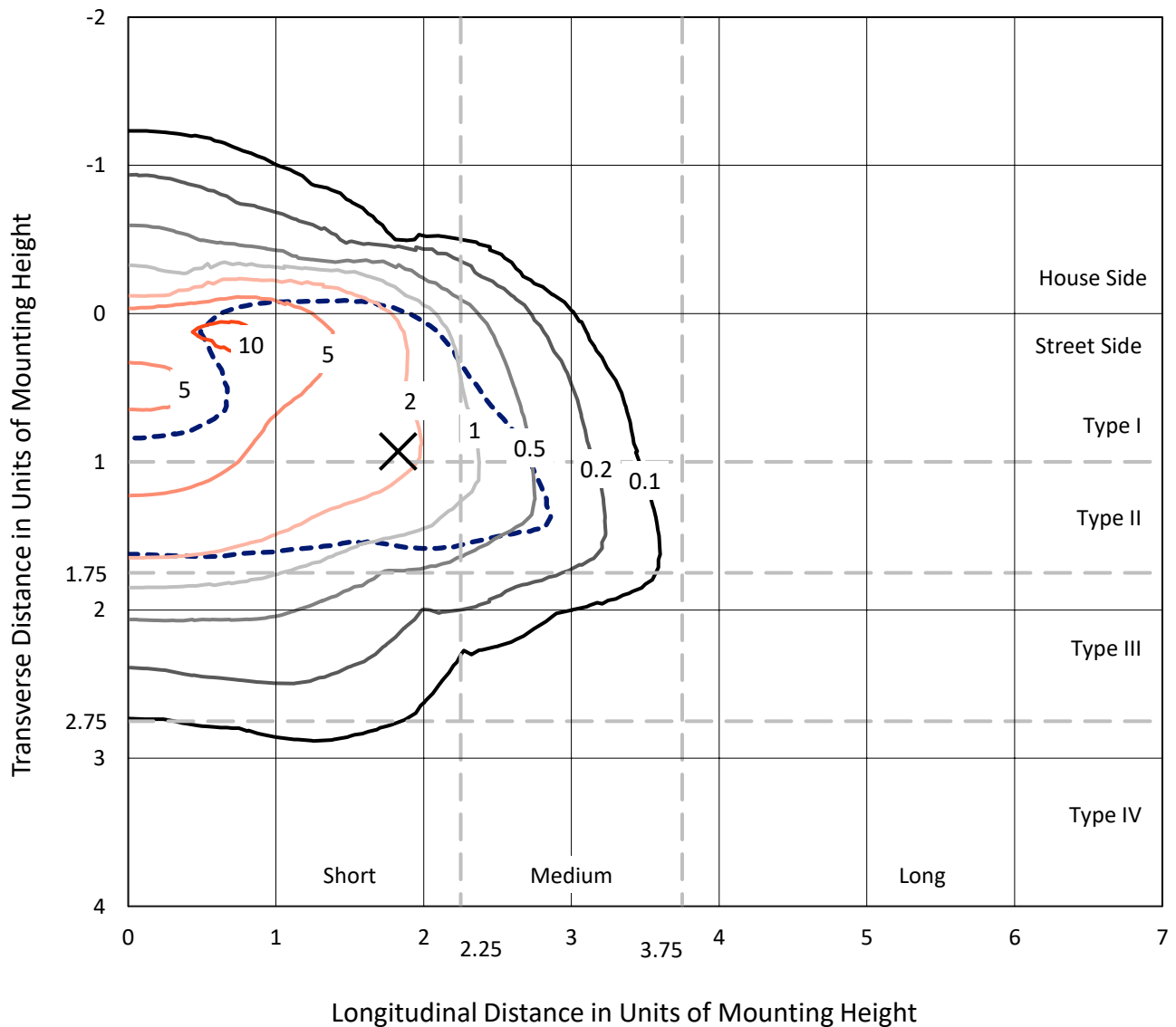
Lumens per Lamp: N/A
Luminaire Lumens: 34802.9 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 300.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

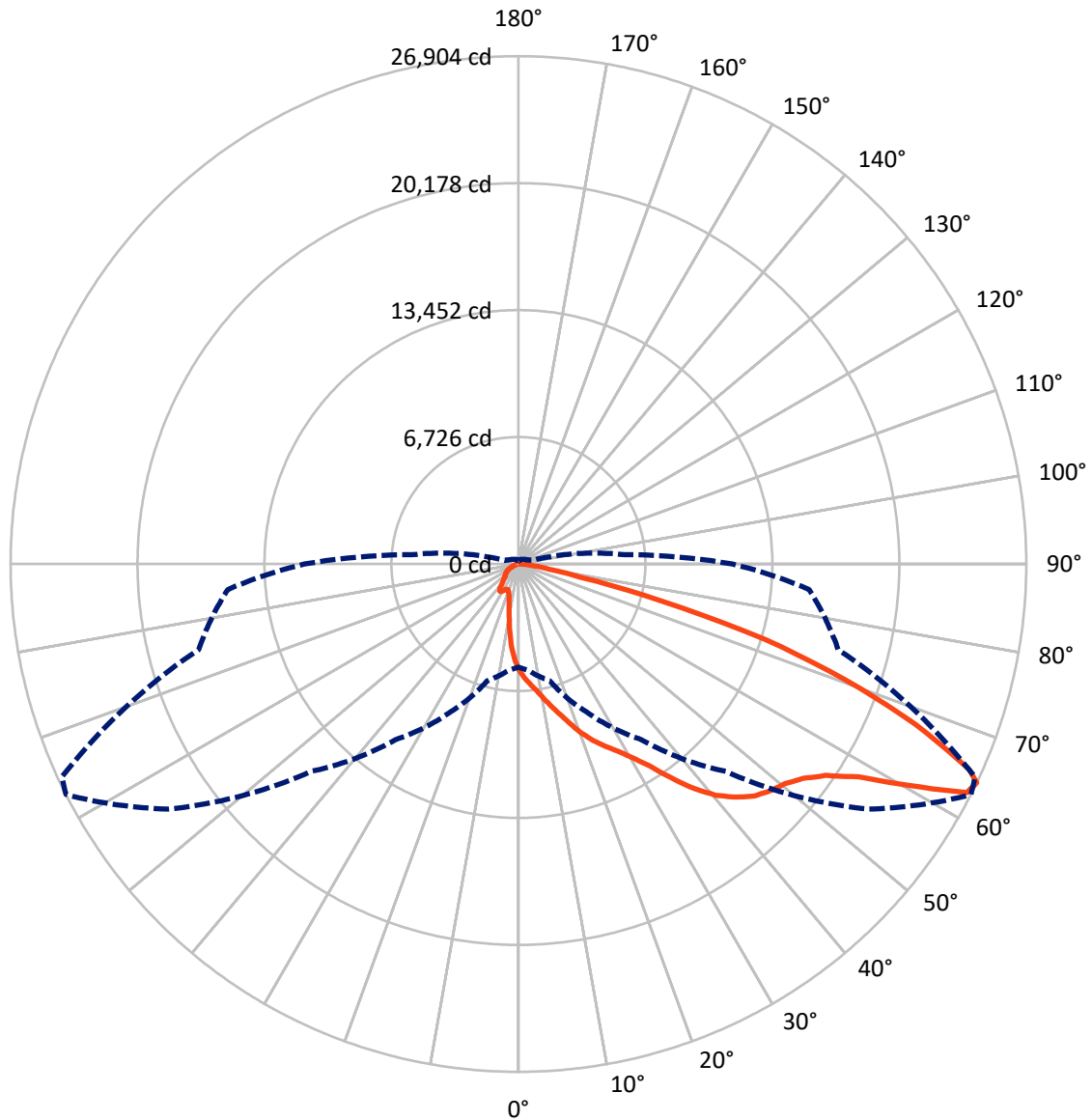
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Short - N/A

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CATALOG NUMBER: GLAN-SB6C-750-U-T2LG-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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CATALOG NUMBER: GLAN-SB6C-750-U-T2LG-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4130.0 | 0.0 | 4130.0 |
| | % Fixture | 11.9 | 0.0 | 11.9 |
| Street Side | Lumens | 30672.9 | 0.0 | 30672.9 |
| | % Fixture | 88.1 | 0.0 | 88.1 |
| Total | Lumens | 34802.9 | 0.0 | 34802.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 473.9 | 1.4 |
| 10°-20° | 1331.6 | 3.8 |
| 20°-30° | 2371.7 | 6.8 |
| 30°-40° | 4529.9 | 13.0 |
| 40°-50° | 7508.5 | 21.6 |
| 50°-60° | 9359.4 | 26.9 |
| 60°-70° | 6979.0 | 20.1 |
| 70°-80° | 2001.6 | 5.8 |
| 80°-90° | 247.5 | 0.7 |
| 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° | 34802.9 | 100.0 |
| 0°-180° | 34802.9 | 100.0 |



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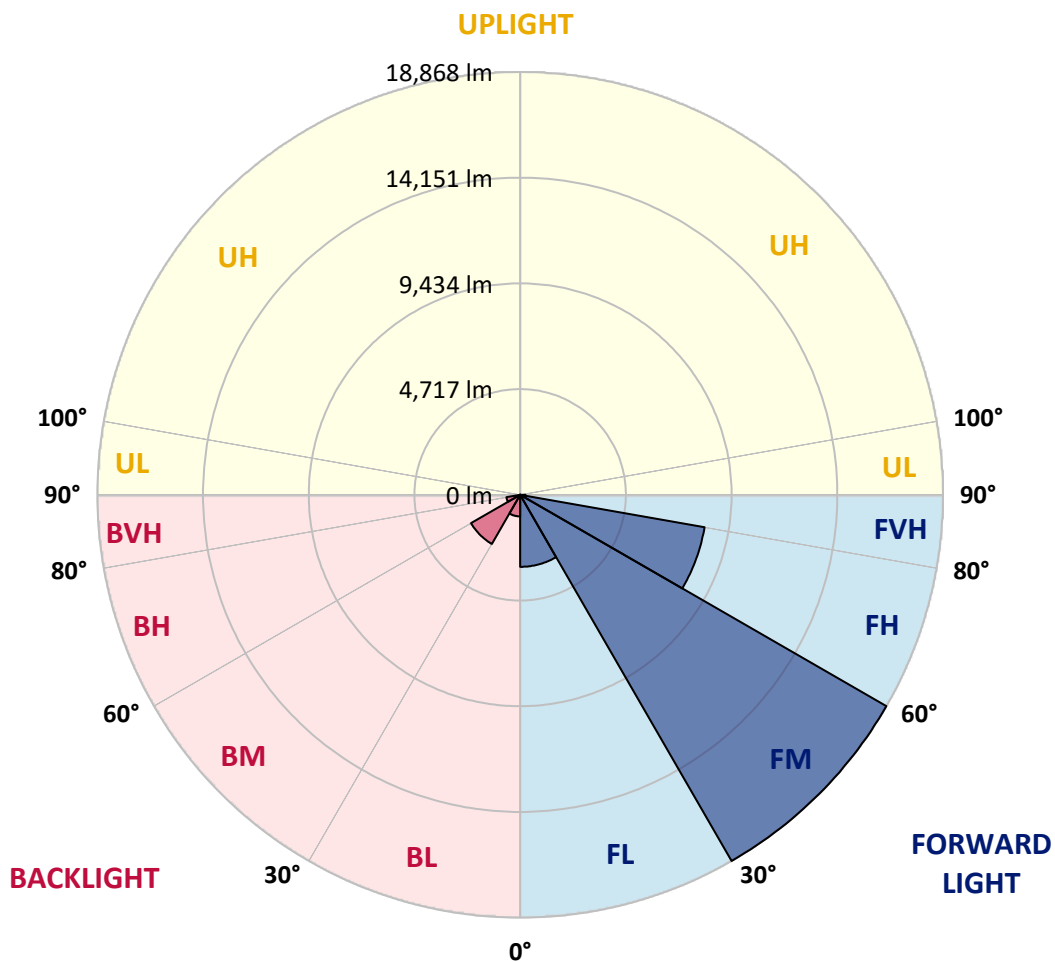
CATALOG NUMBER: GLAN-SB6C-750-U-T2LG-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 3213.6 | 9.2 | | | |
| FM | (30°-60°) | 18868.1 | 54.2 | | | |
| FH | (60°-80°) | 8355.9 | 24.0 | | | G4/12000 |
| FVH | (80°-90°) | 235.3 | 0.7 | | | G3/500 |
| BL | (0°-30°) | 963.5 | 2.8 | B2/1000 | | |
| BM | (30°-60°) | 2529.6 | 7.3 | B3/5000 | | |
| BH | (60°-80°) | 624.6 | 1.8 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 12.2 | 0.0 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 63° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5627.2 | 5627.2 | 5627.2 | 5627.2 | 5627.2 | 5627.2 | 5627.2 | 5627.2 | 5627.2 | 5627.2 | 5627.2 |
| 2.5° | 6305.8 | 6284.9 | 6264.1 | 6232.7 | 6191.0 | 6149.2 | 6097.0 | 6023.9 | 5992.6 | 5888.2 | 5762.9 |
| 5° | 6629.5 | 6629.5 | 6619.0 | 6598.1 | 6577.3 | 6535.5 | 6472.9 | 6378.9 | 6337.1 | 6191.0 | 5971.7 |
| 7.5° | 6713.0 | 6723.4 | 6754.7 | 6796.5 | 6859.2 | 6848.7 | 6848.7 | 6744.3 | 6723.4 | 6566.8 | 6274.5 |
| 10° | 6566.8 | 6577.3 | 6660.8 | 6775.6 | 6963.6 | 7141.0 | 7266.3 | 7203.7 | 7172.4 | 7015.8 | 6650.3 |
| 12.5° | 6358.0 | 6358.0 | 6493.7 | 6671.2 | 6963.6 | 7297.6 | 7663.0 | 7725.7 | 7736.1 | 7558.6 | 7120.2 |
| 15° | 5815.1 | 5836.0 | 6055.3 | 6410.2 | 6890.5 | 7412.5 | 8028.4 | 8268.6 | 8331.2 | 8216.4 | 7694.4 |
| 17.5° | 5094.8 | 5115.7 | 5334.9 | 5815.1 | 6535.5 | 7412.5 | 8341.6 | 8895.0 | 8978.5 | 8999.4 | 8425.2 |
| 20° | 4792.0 | 4792.0 | 4917.3 | 5282.7 | 6034.4 | 7214.1 | 8529.6 | 9563.1 | 9751.1 | 9980.7 | 9229.1 |
| 22.5° | 4833.8 | 4833.8 | 4906.9 | 5115.7 | 5721.2 | 6942.7 | 8644.4 | 10158.2 | 10544.5 | 11129.2 | 10262.6 |
| 25° | 5063.5 | 5063.5 | 5126.1 | 5261.8 | 5752.5 | 6900.9 | 8863.7 | 10690.7 | 11306.6 | 12413.3 | 11442.4 |
| 27.5° | 5428.9 | 5418.4 | 5470.6 | 5606.3 | 6055.3 | 7099.3 | 9229.1 | 11223.1 | 11912.2 | 13854.0 | 12799.6 |
| 30° | 5961.3 | 5930.0 | 5950.9 | 6107.5 | 6545.9 | 7558.6 | 9761.5 | 11901.7 | 12601.2 | 15430.5 | 14302.9 |
| 32.5° | 7193.2 | 7182.8 | 6880.0 | 6796.5 | 7266.3 | 8299.9 | 10492.3 | 12747.4 | 13530.4 | 17100.9 | 15848.1 |
| 35° | 9417.0 | 9563.1 | 9135.1 | 8038.9 | 8132.8 | 9291.7 | 11536.3 | 13895.8 | 14616.2 | 18875.7 | 17528.9 |
| 37.5° | 11672.0 | 11672.0 | 11494.6 | 10200.0 | 9542.3 | 10387.9 | 12663.9 | 15075.5 | 15827.2 | 20306.0 | 19147.2 |
| 40° | 13457.3 | 13551.3 | 13342.5 | 12371.5 | 11515.4 | 11640.7 | 13791.4 | 16109.1 | 16798.1 | 21183.0 | 20295.6 |
| 42.5° | 14783.2 | 14762.3 | 14678.8 | 14041.9 | 13561.7 | 13279.8 | 14814.5 | 16881.7 | 17539.4 | 21631.9 | 21015.9 |
| 45° | 16213.5 | 16213.5 | 16098.6 | 15576.6 | 15179.9 | 14939.8 | 15576.6 | 17528.9 | 18218.0 | 21903.3 | 21464.9 |
| 47.5° | 17706.4 | 17685.5 | 17570.7 | 16996.5 | 16568.5 | 16213.5 | 16349.2 | 17946.5 | 18635.6 | 21725.9 | 21537.9 |
| 50° | 18071.8 | 18050.9 | 18311.9 | 18332.8 | 17946.5 | 17267.9 | 16965.2 | 18301.5 | 18907.0 | 21736.3 | 21767.6 |
| 52.5° | 17643.8 | 17769.1 | 18155.3 | 18625.2 | 19063.6 | 18353.7 | 17622.9 | 18865.3 | 19491.7 | 22028.6 | 22341.8 |
| 55° | 16578.9 | 16631.1 | 17372.3 | 18124.0 | 19147.2 | 19397.7 | 18677.4 | 19763.1 | 20316.5 | 22310.5 | 22853.4 |
| 57.5° | 14595.3 | 14793.6 | 15587.1 | 16892.1 | 18447.7 | 19491.7 | 20514.8 | 21266.5 | 21684.1 | 22425.4 | 22571.5 |
| 60° | 11014.3 | 11118.7 | 12841.3 | 14532.6 | 16996.5 | 18740.0 | 22227.0 | 23813.9 | 23761.7 | 21130.8 | 20598.3 |
| 62.5° | 6702.5 | 6796.5 | 8028.4 | 10711.6 | 13812.3 | 17174.0 | 22801.2 | 26664.0 | 26382.2 | 18948.8 | 17341.0 |
| 64° | 5460.2 | 5637.7 | 6399.8 | 8696.6 | 11358.8 | 15534.9 | 22634.2 | 26904.2 | 26684.9 | 17539.4 | 15451.4 |
| 65° | 4666.7 | 4906.9 | 5689.9 | 7548.2 | 9657.1 | 13770.5 | 22174.8 | 26236.0 | 26089.8 | 16683.3 | 13885.3 |
| 67.5° | 2933.7 | 3048.5 | 4207.4 | 5867.3 | 6650.3 | 8811.5 | 19063.6 | 22686.4 | 22947.4 | 14866.7 | 10241.7 |
| 70° | 2182.0 | 2234.2 | 2891.9 | 4541.4 | 5188.7 | 5126.1 | 13091.9 | 18374.6 | 18437.2 | 11891.3 | 6180.5 |
| 72.5° | 1586.9 | 1597.3 | 2025.4 | 3361.7 | 4061.2 | 3497.4 | 6900.9 | 13655.7 | 13206.7 | 6963.6 | 3372.2 |
| 75° | 1054.5 | 1096.2 | 1419.9 | 2369.9 | 3163.4 | 2568.3 | 3142.5 | 7777.9 | 7642.2 | 3403.5 | 1931.4 |
| 77.5° | 772.6 | 783.0 | 960.5 | 1586.9 | 2484.7 | 1889.7 | 1900.1 | 3351.3 | 3455.7 | 2025.4 | 1221.5 |
| 80° | 438.5 | 459.4 | 626.4 | 970.9 | 1618.2 | 1294.6 | 1064.9 | 1618.2 | 1858.3 | 1378.1 | 814.3 |
| 82.5° | 261.0 | 281.9 | 448.9 | 636.8 | 1106.7 | 532.4 | 542.9 | 887.4 | 1106.7 | 991.8 | 438.5 |
| 85° | 156.6 | 167.0 | 281.9 | 344.5 | 657.7 | 355.0 | 198.4 | 438.5 | 574.2 | 584.6 | 240.1 |
| 87.5° | 104.4 | 104.4 | 156.6 | 146.2 | 187.9 | 167.0 | 83.5 | 114.8 | 146.2 | 198.4 | 94.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P1457685

CATALOG NUMBER: GLAN-SB6C-750-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5627.2 | 5627.2 | 5627.2 | 5627.2 | 5627.2 | 5627.2 | 5627.2 | 5627.2 | 5627.2 | 5627.2 | 5627.2 |
| 2.5° | 5658.5 | 5595.9 | 5408.0 | 5157.4 | 4927.7 | 4750.2 | 4531.0 | 4384.8 | 4249.1 | 4249.1 | 4134.3 |
| 5° | 5794.3 | 5627.2 | 5167.9 | 4593.6 | 3977.7 | 3393.0 | 3017.2 | 2599.6 | 2463.9 | 2349.0 | 2369.9 |
| 7.5° | 6023.9 | 5721.2 | 4906.9 | 3873.3 | 2891.9 | 2265.5 | 1847.9 | 1660.0 | 1576.5 | 1524.3 | 1534.7 |
| 10° | 6305.8 | 5888.2 | 4593.6 | 3142.5 | 2129.8 | 1660.0 | 1461.6 | 1388.5 | 1357.2 | 1346.8 | 1346.8 |
| 12.5° | 6692.1 | 6086.6 | 4280.4 | 2526.5 | 1680.9 | 1430.3 | 1325.9 | 1284.1 | 1252.8 | 1231.9 | 1231.9 |
| 15° | 7151.5 | 6337.1 | 3915.0 | 2077.6 | 1472.1 | 1315.5 | 1231.9 | 1190.2 | 1148.4 | 1138.0 | 1138.0 |
| 17.5° | 7736.1 | 6598.1 | 3591.4 | 1785.3 | 1367.7 | 1231.9 | 1148.4 | 1096.2 | 1064.9 | 1054.5 | 1054.5 |
| 20° | 8383.4 | 6921.8 | 3267.8 | 1618.2 | 1294.6 | 1148.4 | 1064.9 | 1023.1 | 991.8 | 970.9 | 981.4 |
| 22.5° | 9208.2 | 7329.0 | 3059.0 | 1534.7 | 1231.9 | 1075.3 | 991.8 | 950.0 | 918.7 | 897.8 | 908.3 |
| 25° | 10116.5 | 7840.5 | 2944.1 | 1534.7 | 1190.2 | 1023.1 | 929.2 | 887.4 | 856.1 | 835.2 | 835.2 |
| 27.5° | 11223.1 | 8414.7 | 2954.6 | 1597.3 | 1179.7 | 981.4 | 877.0 | 835.2 | 803.9 | 772.6 | 772.6 |
| 30° | 12444.6 | 9093.3 | 3069.4 | 1712.2 | 1200.6 | 939.6 | 835.2 | 772.6 | 751.7 | 720.4 | 720.4 |
| 32.5° | 13739.2 | 9876.3 | 3361.7 | 1858.3 | 1179.7 | 887.4 | 772.6 | 720.4 | 689.0 | 668.2 | 668.2 |
| 35° | 15106.8 | 10763.8 | 3727.1 | 1921.0 | 1075.3 | 814.3 | 720.4 | 668.2 | 647.3 | 636.8 | 626.4 |
| 37.5° | 16411.8 | 11536.3 | 3925.5 | 1795.7 | 939.6 | 751.7 | 657.7 | 605.5 | 595.1 | 574.2 | 574.2 |
| 40° | 17424.5 | 12173.2 | 3810.6 | 1534.7 | 866.5 | 689.0 | 605.5 | 553.3 | 532.4 | 511.6 | 511.6 |
| 42.5° | 18019.6 | 12402.8 | 3393.0 | 1305.0 | 814.3 | 626.4 | 553.3 | 501.1 | 480.2 | 469.8 | 469.8 |
| 45° | 18364.1 | 12371.5 | 2902.4 | 1169.3 | 762.1 | 574.2 | 501.1 | 469.8 | 438.5 | 428.0 | 417.6 |
| 47.5° | 18353.7 | 12047.9 | 2547.4 | 1054.5 | 709.9 | 532.4 | 469.8 | 438.5 | 407.2 | 396.7 | 396.7 |
| 50° | 18280.6 | 11567.6 | 2150.7 | 970.9 | 668.2 | 501.1 | 438.5 | 417.6 | 386.3 | 375.8 | 365.4 |
| 52.5° | 18458.1 | 11296.2 | 1795.7 | 918.7 | 616.0 | 480.2 | 428.0 | 396.7 | 355.0 | 344.5 | 344.5 |
| 55° | 18677.4 | 11139.6 | 1440.7 | 866.5 | 574.2 | 469.8 | 407.2 | 375.8 | 334.1 | 323.6 | 323.6 |
| 57.5° | 18040.5 | 10544.5 | 1190.2 | 783.0 | 522.0 | 448.9 | 386.3 | 365.4 | 323.6 | 292.3 | 292.3 |
| 60° | 16036.0 | 8717.5 | 981.4 | 689.0 | 480.2 | 417.6 | 365.4 | 334.1 | 292.3 | 250.6 | 250.6 |
| 62.5° | 13039.7 | 6650.3 | 814.3 | 584.6 | 448.9 | 386.3 | 334.1 | 302.8 | 250.6 | 198.4 | 198.4 |
| 64° | 11327.5 | 5648.1 | 730.8 | 511.6 | 428.0 | 355.0 | 302.8 | 271.4 | 219.2 | 167.0 | 156.6 |
| 65° | 10158.2 | 4990.4 | 678.6 | 480.2 | 417.6 | 334.1 | 292.3 | 261.0 | 198.4 | 156.6 | 146.2 |
| 67.5° | 7151.5 | 3351.3 | 542.9 | 396.7 | 365.4 | 281.9 | 250.6 | 219.2 | 177.5 | 135.7 | 125.3 |
| 70° | 4165.6 | 1900.1 | 428.0 | 334.1 | 281.9 | 219.2 | 208.8 | 198.4 | 156.6 | 104.4 | 104.4 |
| 72.5° | 2265.5 | 950.0 | 323.6 | 271.4 | 219.2 | 156.6 | 177.5 | 156.6 | 125.3 | 83.5 | 73.1 |
| 75° | 1388.5 | 584.6 | 240.1 | 198.4 | 146.2 | 114.8 | 135.7 | 114.8 | 73.1 | 52.2 | 41.8 |
| 77.5° | 929.2 | 375.8 | 177.5 | 135.7 | 94.0 | 73.1 | 94.0 | 62.6 | 31.3 | 10.4 | 10.4 |
| 80° | 574.2 | 261.0 | 114.8 | 83.5 | 52.2 | 31.3 | 20.9 | 10.4 | 10.4 | 0.0 | 0.0 |
| 82.5° | 250.6 | 167.0 | 62.6 | 41.8 | 20.9 | 10.4 | 10.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 135.7 | 52.2 | 20.9 | 10.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 41.8 | 20.9 | 10.4 | 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 |

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

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-6

Test Date: 10/10/2024

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

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

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-6
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 10/15/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGraw-Edison
 Catalog Number: **GSS-SB1A-750-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI 5000K CCT 26 LEDS

Spectral Parameters

CCT (K): 4896
 CIE u': 0.2101
 CIE v': 0.4901
 Duv: 0.0035
 CIE x: 0.3489
 CIE y: 0.3618
 CIE z: 0.2893
 Peak Wavelength (nm): 443
 Dominant Wavelength (nm): 570
 Purity: 13.25435
 Rf: 70.7
 Rg: 96.8

| | | | |
|-----------|------|------|-------|
| CRI (Ra): | 70.2 | | |
| R1: | 68.1 | R9: | -35.1 |
| R2: | 73.9 | R10: | 39.3 |
| R3: | 79.4 | R11: | 71.1 |
| R4: | 72.1 | R12: | 43.8 |
| R5: | 69.2 | R13: | 68.1 |
| R6: | 65.7 | R14: | 88.4 |
| R7: | 78.1 | R15: | 59.7 |
| R8: | 55.3 | | |



Test Conditions

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

REPORT NUMBER: SP1-2407-184-6

| Measurement and Test Equipment | | | |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 | 2/8/2024 | 2/8/2025 |
| AC Power Source | IN0063 | 10/24/2023 | 10/24/2024 |
| DC Power Source | IN0208 | 10/24/2023 | 10/24/2024 |
| Sphere Thermometer | IN0085 | 10/24/2023 | 10/24/2024 |
| Room Thermometer | IN0046 | 10/24/2023 | 10/24/2024 |

REPORT NUMBER: SP1-2407-184-6

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2407-184-6

Photopic Flux vs. Wavelength



Photopic Lumens: NR

| λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) |
|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|
| 360 | 0 | NR | 490 | 118 | NR | 620 | 401 | NR | 750 | 12 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 168 | NR | 625 | 365 | NR | 755 | 10 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 230 | NR | 630 | 331 | NR | 760 | 9 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 299 | NR | 635 | 298 | NR | 765 | 8 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 362 | NR | 640 | 266 | NR | 770 | 6 | NR | 900 | 0 | NR |
| 385 | 2 | NR | 515 | 418 | NR | 645 | 236 | NR | 775 | 6 | NR | 905 | 0 | NR |
| 390 | 4 | NR | 520 | 461 | NR | 650 | 209 | NR | 780 | 5 | NR | 910 | 0 | NR |
| 395 | 6 | NR | 525 | 491 | NR | 655 | 184 | NR | 785 | 4 | NR | 915 | 0 | NR |
| 400 | 9 | NR | 530 | 514 | NR | 660 | 160 | NR | 790 | 4 | NR | 920 | 0 | NR |
| 405 | 14 | NR | 535 | 530 | NR | 665 | 140 | NR | 795 | 3 | NR | 925 | 0 | NR |
| 410 | 27 | NR | 540 | 539 | NR | 670 | 122 | NR | 800 | 3 | NR | 930 | 0 | NR |
| 415 | 55 | NR | 545 | 549 | NR | 675 | 106 | NR | 805 | 2 | NR | 935 | 0 | NR |
| 420 | 115 | NR | 550 | 557 | NR | 680 | 92 | NR | 810 | 2 | NR | 940 | 0 | NR |
| 425 | 226 | NR | 555 | 565 | NR | 685 | 79 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 395 | NR | 560 | 572 | NR | 690 | 68 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 648 | NR | 565 | 580 | NR | 695 | 59 | NR | 825 | 1 | NR | 955 | 0 | NR |
| 440 | 937 | NR | 570 | 586 | NR | 700 | 51 | NR | 830 | 1 | NR | 960 | 0 | NR |
| 445 | 953 | NR | 575 | 588 | NR | 705 | 44 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 591 | NR | 580 | 588 | NR | 710 | 38 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 334 | NR | 585 | 580 | NR | 715 | 32 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 221 | NR | 590 | 568 | NR | 720 | 28 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 140 | NR | 595 | 550 | NR | 725 | 24 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 93 | NR | 600 | 527 | NR | 730 | 21 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 79 | NR | 605 | 499 | NR | 735 | 18 | NR | 865 | 0 | NR | 995 | 0 | NR |
| 480 | 76 | NR | 610 | 469 | NR | 740 | 15 | NR | 870 | 0 | NR | 1000 | 0 | NR |
| 485 | 87 | NR | 615 | 435 | NR | 745 | 13 | NR | 875 | 0 | NR | | | |

REPORT NUMBER: SP1-2407-184-6

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.7

| λ (nm) | Power $\text{W}^{\wedge}/\text{nm}$ | Lumens (ϕ/nm) | λ (nm) | Power $\text{W}^{\wedge}/\text{nm}$ | Lumens (ϕ/nm) | λ (nm) | Power $\text{W}^{\wedge}/\text{nm}$ | Lumens (ϕ/nm) | λ (nm) | Power $\text{W}^{\wedge}/\text{nm}$ | Lumens (ϕ/nm) | λ (nm) | Power $\text{W}^{\wedge}/\text{nm}$ | Lumens (ϕ/nm) |
|-------------------|--|------------------------------|-------------------|--|------------------------------|-------------------|--|------------------------------|-------------------|--|------------------------------|-------------------|--|------------------------------|
| 360 | 0 | NR | 490 | 118 | NR | 620 | 401 | NR | 750 | 12 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 168 | NR | 625 | 365 | NR | 755 | 10 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 230 | NR | 630 | 331 | NR | 760 | 9 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 299 | NR | 635 | 298 | NR | 765 | 8 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 362 | NR | 640 | 266 | NR | 770 | 6 | NR | 900 | 0 | NR |
| 385 | 2 | NR | 515 | 418 | NR | 645 | 236 | NR | 775 | 6 | NR | 905 | 0 | NR |
| 390 | 4 | NR | 520 | 461 | NR | 650 | 209 | NR | 780 | 5 | NR | 910 | 0 | NR |
| 395 | 6 | NR | 525 | 491 | NR | 655 | 184 | NR | 785 | 4 | NR | 915 | 0 | NR |
| 400 | 9 | NR | 530 | 514 | NR | 660 | 160 | NR | 790 | 4 | NR | 920 | 0 | NR |
| 405 | 14 | NR | 535 | 530 | NR | 665 | 140 | NR | 795 | 3 | NR | 925 | 0 | NR |
| 410 | 27 | NR | 540 | 539 | NR | 670 | 122 | NR | 800 | 3 | NR | 930 | 0 | NR |
| 415 | 55 | NR | 545 | 549 | NR | 675 | 106 | NR | 805 | 2 | NR | 935 | 0 | NR |
| 420 | 115 | NR | 550 | 557 | NR | 680 | 92 | NR | 810 | 2 | NR | 940 | 0 | NR |
| 425 | 226 | NR | 555 | 565 | NR | 685 | 79 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 395 | NR | 560 | 572 | NR | 690 | 68 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 648 | NR | 565 | 580 | NR | 695 | 59 | NR | 825 | 1 | NR | 955 | 0 | NR |
| 440 | 937 | NR | 570 | 586 | NR | 700 | 51 | NR | 830 | 1 | NR | 960 | 0 | NR |
| 445 | 953 | NR | 575 | 588 | NR | 705 | 44 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 591 | NR | 580 | 588 | NR | 710 | 38 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 334 | NR | 585 | 580 | NR | 715 | 32 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 221 | NR | 590 | 568 | NR | 720 | 28 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 140 | NR | 595 | 550 | NR | 725 | 24 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 93 | NR | 600 | 527 | NR | 730 | 21 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 79 | NR | 605 | 499 | NR | 735 | 18 | NR | 865 | 0 | NR | 995 | 0 | NR |
| 480 | 76 | NR | 610 | 469 | NR | 740 | 15 | NR | 870 | 0 | NR | 1000 | 0 | NR |
| 485 | 87 | NR | 615 | 435 | NR | 745 | 13 | NR | 875 | 0 | NR | | | |

REPORT NUMBER: SP1-2407-184-6

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 3.37

| λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) | λ (nm) | Power W [^] /nm | Lumens (φ/nm) |
|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|--------|--------------------------|---------------|
| 360 | 0 | NR | 490 | 118 | NR | 620 | 401 | NR | 750 | 12 | NR | 880 | 0 | NR |
| 365 | 0 | NR | 495 | 168 | NR | 625 | 365 | NR | 755 | 10 | NR | 885 | 0 | NR |
| 370 | 0 | NR | 500 | 230 | NR | 630 | 331 | NR | 760 | 9 | NR | 890 | 0 | NR |
| 375 | 0 | NR | 505 | 299 | NR | 635 | 298 | NR | 765 | 8 | NR | 895 | 0 | NR |
| 380 | 0 | NR | 510 | 362 | NR | 640 | 266 | NR | 770 | 6 | NR | 900 | 0 | NR |
| 385 | 2 | NR | 515 | 418 | NR | 645 | 236 | NR | 775 | 6 | NR | 905 | 0 | NR |
| 390 | 4 | NR | 520 | 461 | NR | 650 | 209 | NR | 780 | 5 | NR | 910 | 0 | NR |
| 395 | 6 | NR | 525 | 491 | NR | 655 | 184 | NR | 785 | 4 | NR | 915 | 0 | NR |
| 400 | 9 | NR | 530 | 514 | NR | 660 | 160 | NR | 790 | 4 | NR | 920 | 0 | NR |
| 405 | 14 | NR | 535 | 530 | NR | 665 | 140 | NR | 795 | 3 | NR | 925 | 0 | NR |
| 410 | 27 | NR | 540 | 539 | NR | 670 | 122 | NR | 800 | 3 | NR | 930 | 0 | NR |
| 415 | 55 | NR | 545 | 549 | NR | 675 | 106 | NR | 805 | 2 | NR | 935 | 0 | NR |
| 420 | 115 | NR | 550 | 557 | NR | 680 | 92 | NR | 810 | 2 | NR | 940 | 0 | NR |
| 425 | 226 | NR | 555 | 565 | NR | 685 | 79 | NR | 815 | 2 | NR | 945 | 0 | NR |
| 430 | 395 | NR | 560 | 572 | NR | 690 | 68 | NR | 820 | 2 | NR | 950 | 0 | NR |
| 435 | 648 | NR | 565 | 580 | NR | 695 | 59 | NR | 825 | 1 | NR | 955 | 0 | NR |
| 440 | 937 | NR | 570 | 586 | NR | 700 | 51 | NR | 830 | 1 | NR | 960 | 0 | NR |
| 445 | 953 | NR | 575 | 588 | NR | 705 | 44 | NR | 835 | 1 | NR | 965 | 0 | NR |
| 450 | 591 | NR | 580 | 588 | NR | 710 | 38 | NR | 840 | 1 | NR | 970 | 0 | NR |
| 455 | 334 | NR | 585 | 580 | NR | 715 | 32 | NR | 845 | 1 | NR | 975 | 0 | NR |
| 460 | 221 | NR | 590 | 568 | NR | 720 | 28 | NR | 850 | 1 | NR | 980 | 0 | NR |
| 465 | 140 | NR | 595 | 550 | NR | 725 | 24 | NR | 855 | 1 | NR | 985 | 0 | NR |
| 470 | 93 | NR | 600 | 527 | NR | 730 | 21 | NR | 860 | 1 | NR | 990 | 0 | NR |
| 475 | 79 | NR | 605 | 499 | NR | 735 | 18 | NR | 865 | 0 | NR | 995 | 0 | NR |
| 480 | 76 | NR | 610 | 469 | NR | 740 | 15 | NR | 870 | 0 | NR | 1000 | 0 | NR |
| 485 | 87 | NR | 615 | 435 | NR | 745 | 13 | NR | 875 | 0 | NR | | | |

Summary

$R_f = 70.7$
 $R_g = 96.8$
 $CIE R_a = 70.2$
 $R_9 = -35.1$



Color Vector Graphics



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

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



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)