

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: McGRAW-EDISON

Report Number: P324569

Luminaire Tested: **GLEON-SA5C-760-U-SLR-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324569  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA5C-760-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26206 lumens  
Efficiency: N/A  
Efficacy: 93.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G4

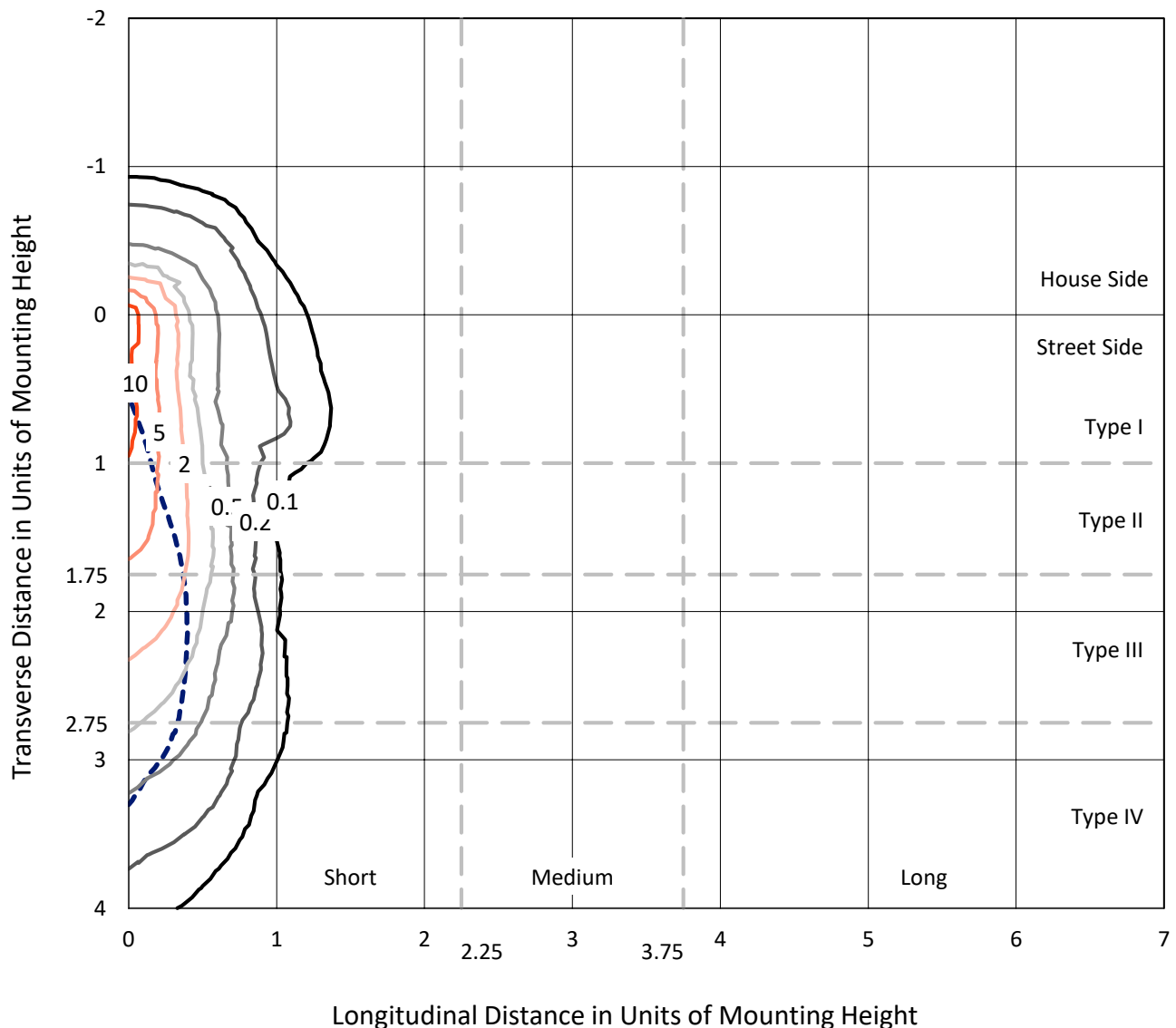
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

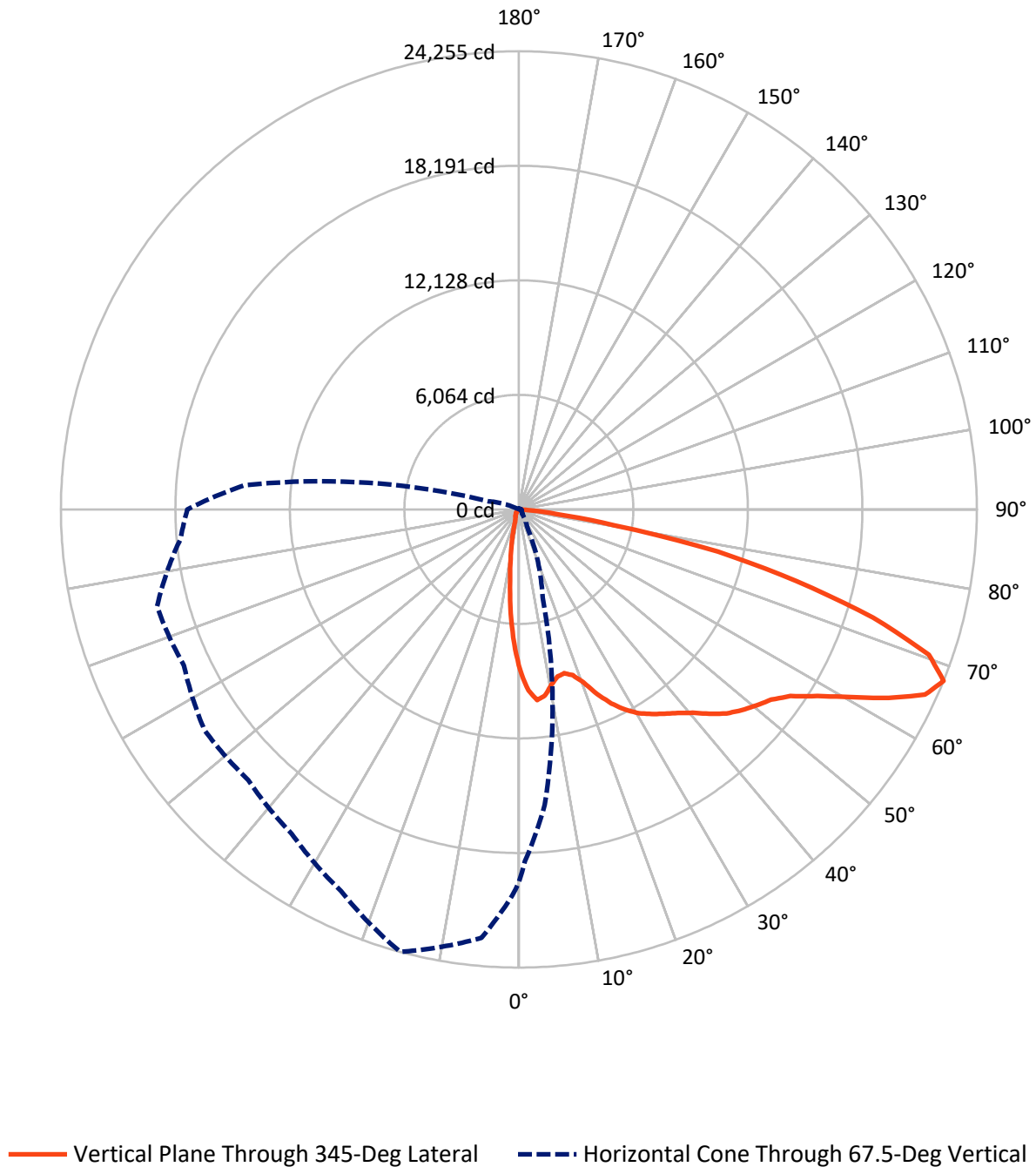
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc  
 Type IV - Medium - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3171.8   | 0.0    | 3171.8  |
|                    | % Fixture | 12.1     | 0.0    | 12.1    |
| <b>Street Side</b> | Lumens    | 23034.2  | 0.0    | 23034.2 |
|                    | % Fixture | 87.9     | 0.0    | 87.9    |
| <b>Total</b>       | Lumens    | 26206.0  | 0.0    | 26206.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 655.2   | 2.5       |
| 10°-20°   | 1304.1  | 5.0       |
| 20°-30°   | 1851.8  | 7.1       |
| 30°-40°   | 2735.3  | 10.4      |
| 40°-50°   | 3944.8  | 15.1      |
| 50°-60°   | 5537.7  | 21.1      |
| 60°-70°   | 6455.4  | 24.6      |
| 70°-80°   | 3300.1  | 12.6      |
| 80°-90°   | 421.5   | 1.6       |
| 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°    | 26206.0 | 100.0     |
| 0°-180°   | 26206.0 | 100.0     |

**Coefficient of Utilization**



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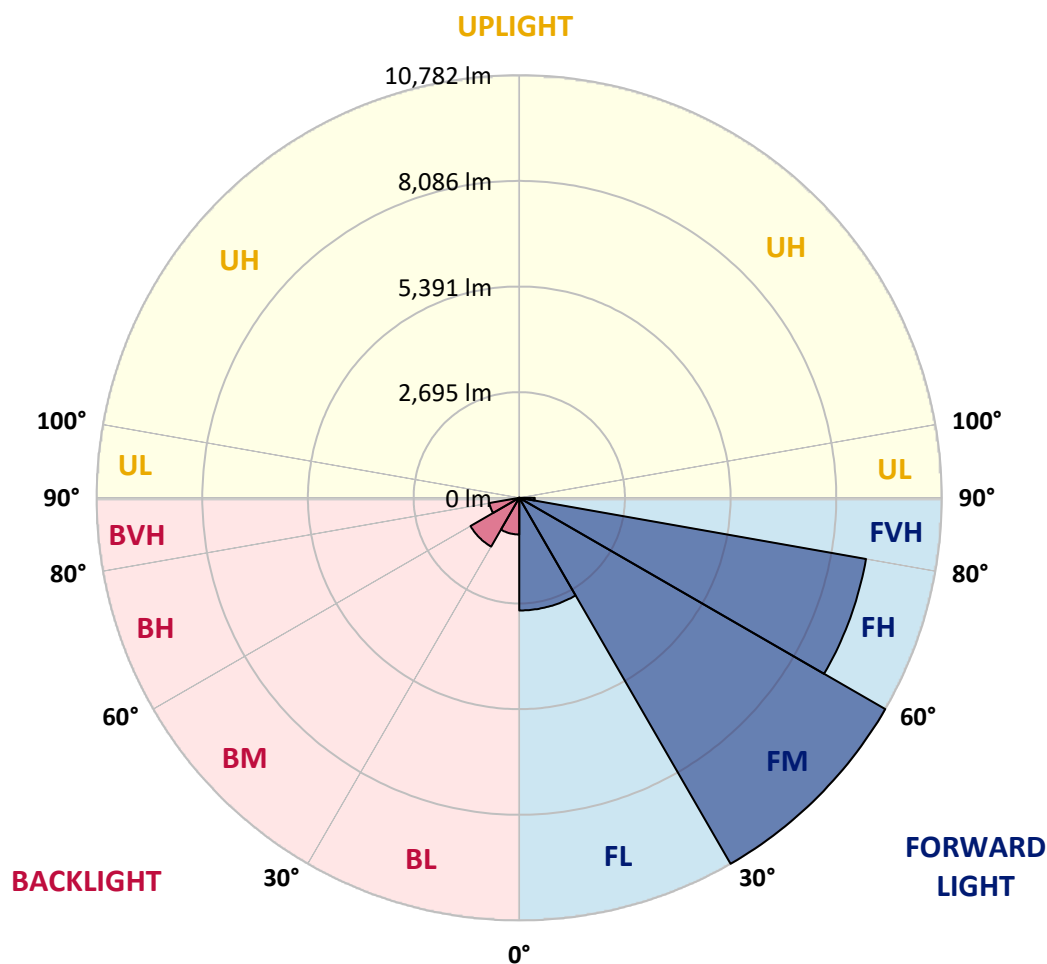
CATALOG NUMBER: GLEON-SA5C-760-U-SLR-HSS

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2874.3  | 11.0      |                         |      |          |
| FM   | (30°-60°)   | 10781.6 | 41.1      |                         |      |          |
| FH   | (60°-80°)   | 8982.5  | 34.3      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 395.9   | 1.5       |                         |      | G3/500   |
| BL   | (0°-30°)    | 936.8   | 3.6       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 1436.3  | 5.5       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 773.1   | 2.9       | B2/1000                 |      | G2/1000  |
| BVH  | (80°-90°)   | 25.6    | 0.1       |                         |      | G1/100   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 8536.6  | 8536.6  | 8536.6  | 8536.6 | 8536.6 | 8536.6 | 8536.6 | 8536.6 | 8536.6 | 8536.6 | 8536.6 |
| 2.5°  | 9347.3  | 9275.2  | 9195.8  | 8936.3 | 8695.5 | 8419.9 | 8195.1 | 8038.7 | 7842.6 | 7588.0 | 7523.5 |
| 5°    | 9280.2  | 9203.2  | 8953.7  | 8376.4 | 7871.1 | 7379.5 | 6905.2 | 6627.1 | 6282.0 | 5931.9 | 5845.0 |
| 7.5°  | 8606.1  | 8525.4  | 8165.3  | 7374.5 | 6694.2 | 5984.0 | 5368.2 | 4987.1 | 4597.3 | 4277.0 | 4106.9 |
| 10°   | 7904.6  | 7816.5  | 7411.8  | 6452.1 | 5614.1 | 4972.2 | 4520.3 | 4156.5 | 3787.8 | 3445.2 | 3172.0 |
| 12.5° | 7421.7  | 7306.2  | 6866.7  | 5779.2 | 5049.2 | 4613.4 | 4191.3 | 3755.5 | 3256.5 | 2889.0 | 2588.5 |
| 15°   | 7219.3  | 7087.7  | 6623.4  | 5519.7 | 4849.3 | 4337.8 | 3787.8 | 3252.7 | 2668.0 | 2247.1 | 1971.5 |
| 17.5° | 7375.8  | 7204.4  | 6706.6  | 5502.3 | 4598.5 | 3902.0 | 3206.8 | 2578.6 | 1944.2 | 1518.4 | 1322.2 |
| 20°   | 7907.1  | 7682.4  | 7050.5  | 5497.4 | 4294.3 | 3384.3 | 2502.9 | 1792.7 | 1281.2 | 1030.4 | 927.4  |
| 22.5° | 8743.9  | 8447.2  | 7544.6  | 5537.1 | 3980.2 | 2840.6 | 1807.6 | 1217.9 | 962.2  | 831.8  | 771.0  |
| 25°   | 9754.5  | 9410.6  | 8256.0  | 5677.4 | 3704.6 | 2311.7 | 1313.5 | 962.2  | 811.9  | 716.3  | 665.4  |
| 27.5° | 10715.4 | 10436.1 | 9154.8  | 5879.7 | 3491.1 | 1884.6 | 1066.4 | 815.7  | 694.0  | 630.7  | 589.7  |
| 30°   | 11675.1 | 11323.7 | 10077.3 | 6120.6 | 3234.1 | 1595.3 | 937.3  | 743.7  | 622.0  | 555.0  | 528.9  |
| 32.5° | 12372.8 | 12081.0 | 10799.8 | 6294.4 | 2959.7 | 1406.6 | 838.0  | 680.3  | 581.0  | 512.7  | 474.3  |
| 35°   | 13193.4 | 12863.2 | 11419.3 | 6332.9 | 2783.4 | 1287.4 | 753.6  | 612.1  | 504.0  | 443.2  | 402.2  |
| 37.5° | 14079.9 | 13668.9 | 12134.4 | 6248.5 | 2645.6 | 1229.1 | 690.3  | 581.0  | 470.5  | 408.5  | 365.0  |
| 40°   | 15060.6 | 14596.3 | 12821.0 | 6126.8 | 2510.3 | 1209.2 | 641.9  | 557.4  | 444.5  | 381.1  | 336.4  |
| 42.5° | 16093.6 | 15546.1 | 13415.7 | 5998.9 | 2424.7 | 1140.9 | 636.9  | 533.8  | 424.6  | 356.3  | 311.6  |
| 45°   | 16961.4 | 16406.4 | 14026.5 | 5956.7 | 2363.8 | 1066.4 | 658.0  | 517.7  | 410.9  | 336.4  | 293.0  |
| 47.5° | 17652.9 | 17127.7 | 14652.2 | 6051.1 | 2329.1 | 998.2  | 599.6  | 538.8  | 403.5  | 319.1  | 276.9  |
| 50°   | 18478.5 | 17883.8 | 15533.7 | 6332.9 | 2278.2 | 929.9  | 542.5  | 617.0  | 403.5  | 307.9  | 263.2  |
| 52.5° | 19513.9 | 18925.4 | 16516.9 | 6769.9 | 2176.3 | 835.5  | 487.9  | 618.3  | 407.2  | 293.0  | 245.8  |
| 55°   | 20816.2 | 20389.2 | 17921.1 | 7249.1 | 2013.7 | 696.5  | 422.1  | 531.4  | 392.3  | 265.7  | 229.7  |
| 57.5° | 22065.2 | 21716.3 | 19201.0 | 7576.9 | 1796.5 | 543.8  | 367.5  | 428.3  | 358.8  | 233.4  | 204.8  |
| 59°   | 22406.6 | 22025.5 | 19670.3 | 7591.8 | 1633.8 | 474.3  | 340.2  | 353.8  | 351.3  | 218.5  | 189.9  |
| 60°   | 22406.6 | 22001.9 | 19805.7 | 7512.3 | 1515.9 | 435.8  | 322.8  | 315.3  | 366.2  | 208.6  | 181.3  |
| 62.5° | 22000.6 | 21432.0 | 19366.2 | 6974.7 | 1236.5 | 371.2  | 281.8  | 260.7  | 329.0  | 187.5  | 160.2  |
| 65°   | 21156.4 | 20328.3 | 17868.9 | 6002.7 | 1102.5 | 340.2  | 243.3  | 213.5  | 228.4  | 165.1  | 140.3  |
| 67.5° | 19748.5 | 18626.2 | 15709.9 | 4849.3 | 1049.1 | 331.5  | 209.8  | 181.3  | 172.6  | 141.5  | 122.9  |
| 70°   | 17269.3 | 16024.0 | 13089.1 | 3812.6 | 1003.1 | 327.8  | 176.3  | 152.7  | 139.0  | 119.2  | 104.3  |
| 72.5° | 12568.9 | 11270.3 | 9292.6  | 2980.8 | 975.8  | 335.2  | 141.5  | 127.9  | 114.2  | 93.1   | 80.7   |
| 75°   | 7189.5  | 6339.1  | 5223.0  | 1969.0 | 831.8  | 320.3  | 109.3  | 106.8  | 81.9   | 67.0   | 55.9   |
| 77.5° | 3714.6  | 3601.6  | 3129.8  | 756.1  | 398.5  | 140.3  | 72.0   | 62.1   | 48.4   | 41.0   | 33.5   |
| 80°   | 1602.8  | 1585.4  | 1371.9  | 218.5  | 105.5  | 78.2   | 41.0   | 26.1   | 22.3   | 17.4   | 13.7   |
| 82.5° | 553.7   | 553.7   | 487.9   | 73.2   | 47.2   | 38.5   | 5.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 111.7   | 125.4   | 88.1    | 0.0    | 16.1   | 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 8536.6 | 8536.6 | 8536.6 | 8536.6 | 8536.6 | 8536.6 | 8536.6 | 8536.6 | 8536.6 | 8536.6 | 8536.6 |
| 2.5°  | 7445.3 | 7295.1 | 7285.1 | 7190.8 | 7072.8 | 7019.4 | 6988.4 | 7043.0 | 7110.1 | 7117.5 | 7218.1 |
| 5°    | 5779.2 | 5621.5 | 5687.3 | 5519.7 | 5553.2 | 5519.7 | 5465.1 | 5475.0 | 5504.8 | 5411.7 | 5527.2 |
| 7.5°  | 4058.5 | 3939.3 | 4015.0 | 3970.3 | 4029.9 | 4053.5 | 4020.0 | 3970.3 | 3823.8 | 3806.4 | 3907.0 |
| 10°   | 3059.1 | 2923.7 | 2843.0 | 2758.6 | 2777.2 | 2815.7 | 2803.3 | 2767.3 | 2674.2 | 2679.2 | 2776.0 |
| 12.5° | 2458.2 | 2306.7 | 2146.6 | 1939.2 | 1888.3 | 1916.9 | 1888.3 | 1867.2 | 1777.8 | 1785.3 | 1870.9 |
| 15°   | 1864.7 | 1740.6 | 1573.0 | 1406.6 | 1316.0 | 1324.7 | 1245.2 | 1189.4 | 1133.5 | 1066.4 | 1118.6 |
| 17.5° | 1258.9 | 1183.1 | 1133.5 | 1083.8 | 975.8  | 951.0  | 850.4  | 742.4  | 700.2  | 669.2  | 691.5  |
| 20°   | 891.4  | 850.4  | 830.6  | 828.1  | 766.0  | 735.0  | 636.9  | 569.8  | 548.7  | 542.5  | 556.2  |
| 22.5° | 744.9  | 715.1  | 686.5  | 670.4  | 639.4  | 603.4  | 528.9  | 495.4  | 480.5  | 473.0  | 482.9  |
| 25°   | 648.1  | 625.7  | 595.9  | 568.6  | 556.2  | 517.7  | 464.3  | 439.5  | 429.6  | 422.1  | 427.1  |
| 27.5° | 576.1  | 556.2  | 521.4  | 504.0  | 494.1  | 460.6  | 414.7  | 394.8  | 386.1  | 383.6  | 382.4  |
| 30°   | 518.9  | 500.3  | 468.0  | 448.2  | 430.8  | 401.0  | 373.7  | 353.8  | 345.1  | 342.7  | 340.2  |
| 32.5° | 461.8  | 446.9  | 425.8  | 406.0  | 387.3  | 360.0  | 336.4  | 320.3  | 306.7  | 304.2  | 302.9  |
| 35°   | 389.8  | 374.9  | 363.8  | 362.5  | 345.1  | 319.1  | 301.7  | 280.6  | 269.4  | 265.7  | 266.9  |
| 37.5° | 346.4  | 326.5  | 301.7  | 310.4  | 305.4  | 286.8  | 263.2  | 242.1  | 230.9  | 228.4  | 228.4  |
| 40°   | 319.1  | 298.0  | 269.4  | 254.5  | 269.4  | 265.7  | 228.4  | 207.3  | 196.2  | 194.9  | 192.4  |
| 42.5° | 293.0  | 271.9  | 239.6  | 214.8  | 222.2  | 233.4  | 197.4  | 177.5  | 166.4  | 163.9  | 160.2  |
| 45°   | 274.4  | 252.0  | 216.0  | 187.5  | 172.6  | 196.2  | 168.8  | 144.0  | 137.8  | 132.8  | 130.4  |
| 47.5° | 257.0  | 235.9  | 194.9  | 162.6  | 137.8  | 141.5  | 135.3  | 117.9  | 110.5  | 105.5  | 104.3  |
| 50°   | 242.1  | 219.7  | 176.3  | 139.0  | 114.2  | 104.3  | 109.3  | 93.1   | 86.9   | 81.9   | 79.5   |
| 52.5° | 224.7  | 203.6  | 156.4  | 120.4  | 95.6   | 81.9   | 83.2   | 73.2   | 67.0   | 63.3   | 62.1   |
| 55°   | 211.1  | 189.9  | 140.3  | 105.5  | 84.4   | 67.0   | 59.6   | 57.1   | 53.4   | 50.9   | 49.7   |
| 57.5° | 192.4  | 172.6  | 124.2  | 89.4   | 72.0   | 54.6   | 45.9   | 45.9   | 44.7   | 42.2   | 41.0   |
| 59°   | 181.3  | 163.9  | 114.2  | 80.7   | 65.8   | 47.2   | 41.0   | 42.2   | 41.0   | 38.5   | 37.2   |
| 60°   | 172.6  | 156.4  | 106.8  | 74.5   | 62.1   | 43.5   | 37.2   | 39.7   | 38.5   | 36.0   | 34.8   |
| 62.5° | 152.7  | 141.5  | 91.9   | 62.1   | 54.6   | 34.8   | 31.0   | 33.5   | 33.5   | 32.3   | 31.0   |
| 65°   | 134.1  | 121.7  | 78.2   | 52.1   | 50.9   | 29.8   | 24.8   | 29.8   | 31.0   | 28.6   | 26.1   |
| 67.5° | 116.7  | 104.3  | 68.3   | 42.2   | 47.2   | 23.6   | 18.6   | 24.8   | 33.5   | 26.1   | 23.6   |
| 70°   | 99.3   | 86.9   | 53.4   | 33.5   | 49.7   | 16.1   | 14.9   | 22.3   | 39.7   | 28.6   | 22.3   |
| 72.5° | 77.0   | 67.0   | 37.2   | 24.8   | 53.4   | 11.2   | 11.2   | 18.6   | 44.7   | 31.0   | 21.1   |
| 75°   | 53.4   | 43.5   | 22.3   | 14.9   | 43.5   | 7.4    | 7.4    | 17.4   | 42.2   | 28.6   | 19.9   |
| 77.5° | 31.0   | 23.6   | 7.4    | 1.2    | 22.3   | 0.0    | 1.2    | 12.4   | 29.8   | 17.4   | 8.7    |
| 80°   | 11.2   | 5.0    | 0.0    | 0.0    | 13.7   | 0.0    | 0.0    | 0.0    | 2.5    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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°    | 8536.6 | 8536.6 | 8536.6 | 8536.6 | 8536.6 | 8536.6 | 8536.6 | 8536.6 | 8536.6  | 8536.6  | 8536.6  |
| 2.5°  | 7244.2 | 7411.8 | 7562.0 | 7789.2 | 8058.6 | 8369.0 | 8635.9 | 8922.7 | 9192.1  | 9303.8  | 9380.8  |
| 5°    | 5550.7 | 5758.1 | 6000.2 | 6334.1 | 6778.6 | 7326.1 | 7838.8 | 8418.6 | 9041.8  | 9353.5  | 9646.5  |
| 7.5°  | 3924.4 | 4135.4 | 4435.9 | 4790.9 | 5328.5 | 5980.3 | 6650.7 | 7451.5 | 8295.7  | 8788.6  | 9274.0  |
| 10°   | 2821.9 | 3081.4 | 3362.0 | 3847.4 | 4393.7 | 5011.9 | 5702.2 | 6596.1 | 7537.1  | 8083.4  | 8668.2  |
| 12.5° | 1920.6 | 2216.1 | 2640.7 | 3184.4 | 3826.3 | 4432.2 | 5031.8 | 5884.7 | 6977.2  | 7518.5  | 8145.5  |
| 15°   | 1152.1 | 1316.0 | 1765.4 | 2394.9 | 3182.0 | 3936.8 | 4593.6 | 5448.9 | 6613.5  | 7276.4  | 7928.2  |
| 17.5° | 710.1  | 785.9  | 1030.4 | 1546.9 | 2373.7 | 3328.5 | 4228.5 | 5301.2 | 6665.6  | 7472.6  | 8170.3  |
| 20°   | 566.1  | 595.9  | 674.1  | 913.7  | 1573.0 | 2658.1 | 3817.6 | 5271.4 | 7091.4  | 8084.6  | 8833.3  |
| 22.5° | 491.6  | 520.2  | 572.3  | 664.2  | 989.5  | 1990.1 | 3427.8 | 5298.7 | 7702.3  | 9002.1  | 9876.1  |
| 25°   | 433.3  | 458.1  | 507.8  | 583.5  | 725.0  | 1401.7 | 3010.6 | 5420.4 | 8498.1  | 10140.6 | 11069.2 |
| 27.5° | 387.3  | 408.5  | 454.4  | 523.9  | 622.0  | 978.3  | 2537.6 | 5568.1 | 9441.6  | 11305.1 | 12221.3 |
| 30°   | 345.1  | 363.8  | 404.7  | 469.3  | 540.1  | 752.3  | 2018.7 | 5668.7 | 10386.4 | 12221.3 | 13044.4 |
| 32.5° | 309.1  | 322.8  | 360.0  | 414.7  | 469.3  | 599.6  | 1534.5 | 5652.6 | 11087.8 | 12983.6 | 13636.6 |
| 35°   | 271.9  | 285.5  | 317.8  | 365.0  | 408.5  | 495.4  | 1206.7 | 5350.9 | 11698.7 | 13774.4 | 14314.5 |
| 37.5° | 230.9  | 248.3  | 279.3  | 321.5  | 351.3  | 435.8  | 975.8  | 4987.1 | 12318.2 | 14678.3 | 15070.6 |
| 40°   | 196.2  | 213.5  | 240.9  | 286.8  | 305.4  | 413.4  | 749.9  | 4543.9 | 13014.6 | 15688.8 | 15899.9 |
| 42.5° | 162.6  | 178.8  | 207.3  | 247.1  | 288.0  | 356.3  | 555.0  | 4037.4 | 13683.8 | 16552.9 | 16656.0 |
| 45°   | 131.6  | 147.7  | 177.5  | 217.3  | 307.9  | 295.5  | 429.6  | 3494.8 | 14223.9 | 17271.8 | 17305.3 |
| 47.5° | 104.3  | 119.2  | 150.2  | 204.8  | 286.8  | 235.9  | 306.7  | 3069.0 | 14677.0 | 17832.9 | 17744.8 |
| 50°   | 80.7   | 93.1   | 125.4  | 234.6  | 250.8  | 194.9  | 232.2  | 2927.5 | 15083.0 | 18180.5 | 17952.1 |
| 52.5° | 63.3   | 74.5   | 103.0  | 219.7  | 194.9  | 161.4  | 194.9  | 3060.3 | 15639.2 | 18468.6 | 18068.8 |
| 55°   | 50.9   | 62.1   | 80.7   | 125.4  | 132.8  | 136.6  | 166.4  | 3184.4 | 16598.9 | 19143.9 | 18757.8 |
| 57.5° | 42.2   | 53.4   | 65.8   | 88.1   | 100.6  | 115.5  | 147.7  | 3198.1 | 17729.9 | 20266.3 | 19901.2 |
| 59°   | 38.5   | 48.4   | 59.6   | 78.2   | 88.1   | 105.5  | 139.0  | 3123.6 | 18128.4 | 20674.7 | 20492.2 |
| 60°   | 36.0   | 45.9   | 55.9   | 72.0   | 81.9   | 99.3   | 134.1  | 3052.8 | 18145.8 | 20659.8 | 20744.2 |
| 62.5° | 31.0   | 41.0   | 49.7   | 60.8   | 69.5   | 84.4   | 120.4  | 2790.9 | 17410.8 | 19983.2 | 20592.8 |
| 65°   | 27.3   | 36.0   | 44.7   | 52.1   | 59.6   | 75.7   | 109.3  | 2312.9 | 16155.6 | 18891.9 | 19556.1 |
| 67.5° | 24.8   | 31.0   | 41.0   | 45.9   | 53.4   | 67.0   | 96.8   | 1648.7 | 14587.6 | 17557.3 | 17988.1 |
| 70°   | 22.3   | 29.8   | 37.2   | 42.2   | 48.4   | 58.4   | 83.2   | 947.3  | 12318.2 | 15603.2 | 15909.8 |
| 72.5° | 21.1   | 28.6   | 33.5   | 39.7   | 43.5   | 52.1   | 75.7   | 445.7  | 9019.5  | 12499.4 | 13300.2 |
| 75°   | 18.6   | 26.1   | 31.0   | 37.2   | 41.0   | 47.2   | 64.6   | 213.5  | 5998.9  | 9045.6  | 9955.6  |
| 77.5° | 11.2   | 21.1   | 28.6   | 33.5   | 36.0   | 41.0   | 53.4   | 122.9  | 3828.8  | 6260.9  | 7374.5  |
| 80°   | 0.0    | 7.4    | 21.1   | 28.6   | 31.0   | 34.8   | 41.0   | 96.8   | 2048.5  | 3576.8  | 4293.1  |
| 82.5° | 0.0    | 0.0    | 14.9   | 22.3   | 21.1   | 23.6   | 31.0   | 60.8   | 923.7   | 2337.7  | 2634.5  |
| 85°   | 0.0    | 0.0    | 5.0    | 17.4   | 14.9   | 11.2   | 21.1   | 21.1   | 202.4   | 1183.1  | 1476.1  |
| 87.5° | 0.0    | 0.0    | 0.0    | 1.2    | 7.4    | 5.0    | 8.7    | 2.5    | 1.2     | 88.1    | 357.6   |
| 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: P324569

CATALOG NUMBER: GLEON-SA5C-760-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 285°    | 295°    | 305°    | 315°    | 325°    | 335°    | 345°    | 355°    | 359°    | 360°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8536.6  | 8536.6  | 8536.6  | 8536.6  | 8536.6  | 8536.6  | 8536.6  | 8536.6  | 8536.6  | 8536.6  |
| 2.5°  | 9650.2  | 9742.1  | 9897.2  | 9970.5  | 9934.5  | 9781.8  | 9599.3  | 9413.1  | 9303.8  | 9347.3  |
| 5°    | 10243.6 | 10716.6 | 10989.8 | 11080.4 | 10928.9 | 10586.3 | 10138.1 | 9547.1  | 9337.3  | 9280.2  |
| 7.5°  | 10243.6 | 11133.8 | 11697.4 | 11796.7 | 11459.0 | 10787.4 | 9946.9  | 9024.5  | 8717.8  | 8606.1  |
| 10°   | 9883.6  | 11095.3 | 11881.2 | 12038.8 | 11567.1 | 10562.7 | 9436.6  | 8383.9  | 8020.1  | 7904.6  |
| 12.5° | 9477.6  | 10782.4 | 11610.5 | 11827.8 | 11440.4 | 10339.2 | 9082.8  | 7950.6  | 7522.3  | 7421.7  |
| 15°   | 9228.1  | 10397.6 | 11082.9 | 11240.5 | 11076.7 | 10208.9 | 8998.4  | 7820.2  | 7316.2  | 7219.3  |
| 17.5° | 9317.5  | 10099.6 | 10346.7 | 10438.5 | 10549.0 | 10162.9 | 9228.1  | 8105.8  | 7467.6  | 7375.8  |
| 20°   | 9653.9  | 9785.5  | 9657.6  | 9773.1  | 10071.1 | 10207.6 | 9775.6  | 8796.0  | 8030.0  | 7907.1  |
| 22.5° | 10225.0 | 9622.9  | 9264.1  | 9310.0  | 9672.5  | 10355.4 | 10612.3 | 9781.8  | 8897.8  | 8743.9  |
| 25°   | 10890.4 | 9754.5  | 9045.6  | 9004.6  | 9377.1  | 10550.3 | 11377.1 | 10854.4 | 9924.6  | 9754.5  |
| 27.5° | 11727.2 | 10049.9 | 9000.9  | 8959.9  | 9274.0  | 10732.8 | 12012.8 | 11914.7 | 11005.9 | 10715.4 |
| 30°   | 12372.8 | 10340.5 | 9133.7  | 9039.4  | 9377.1  | 10859.4 | 12523.0 | 12814.8 | 11867.5 | 11675.1 |
| 32.5° | 12835.9 | 10683.1 | 9349.7  | 9213.2  | 9667.6  | 11077.9 | 12916.6 | 13639.1 | 12664.5 | 12372.8 |
| 35°   | 13188.5 | 11055.6 | 9698.6  | 9473.9  | 10067.3 | 11409.4 | 13285.3 | 14516.9 | 13512.5 | 13193.4 |
| 37.5° | 13518.7 | 11578.2 | 10243.6 | 9975.5  | 10694.3 | 11943.2 | 13675.1 | 15512.5 | 14461.0 | 14079.9 |
| 40°   | 13979.3 | 12170.4 | 11084.1 | 10845.7 | 11748.3 | 12670.8 | 14161.8 | 16550.4 | 15539.9 | 15060.6 |
| 42.5° | 14439.9 | 12806.1 | 11944.5 | 12009.0 | 13063.1 | 13554.7 | 14790.0 | 17647.9 | 16605.1 | 16093.6 |
| 45°   | 14860.8 | 13461.6 | 13169.8 | 13467.8 | 14283.5 | 14524.3 | 15414.5 | 18282.3 | 17455.5 | 16961.4 |
| 47.5° | 15235.7 | 14281.0 | 14387.7 | 15181.1 | 15671.5 | 15402.1 | 15881.3 | 18829.8 | 18088.7 | 17652.9 |
| 50°   | 15671.5 | 15341.2 | 15993.0 | 17115.3 | 17269.3 | 16196.6 | 16305.9 | 19477.9 | 18828.6 | 18478.5 |
| 52.5° | 16148.2 | 16458.6 | 17770.8 | 18760.3 | 18710.7 | 17059.5 | 16732.9 | 20204.2 | 19842.9 | 19513.9 |
| 55°   | 16689.5 | 17361.1 | 19336.4 | 20299.8 | 20257.6 | 18022.9 | 17440.6 | 21101.8 | 21114.2 | 20816.2 |
| 57.5° | 17492.7 | 18138.3 | 20399.1 | 21545.0 | 21615.8 | 19135.2 | 18639.9 | 22107.4 | 22263.8 | 22065.2 |
| 59°   | 18068.8 | 18642.4 | 20820.0 | 22065.2 | 22353.2 | 19995.6 | 19516.4 | 22690.9 | 22587.9 | 22406.6 |
| 60°   | 18495.9 | 18962.7 | 21028.5 | 22337.1 | 22781.5 | 20579.1 | 20163.2 | 23033.6 | 22626.3 | 22406.6 |
| 62.5° | 19552.4 | 19660.4 | 21404.7 | 22645.0 | 23274.4 | 21875.2 | 21983.2 | 23617.1 | 22359.4 | 22000.6 |
| 65°   | 20045.3 | 20101.1 | 21399.7 | 22093.7 | 22797.7 | 22884.6 | 23634.4 | 23634.4 | 21707.6 | 21156.4 |
| 67.5° | 19839.2 | 19569.8 | 20338.3 | 20266.3 | 20968.9 | 22284.9 | 24255.2 | 22767.9 | 20461.2 | 19748.5 |
| 70°   | 18163.1 | 17126.5 | 16785.1 | 16816.1 | 17353.7 | 19383.5 | 23026.1 | 20217.8 | 18102.3 | 17269.3 |
| 72.5° | 15112.8 | 12626.1 | 11783.1 | 12745.2 | 12885.5 | 14896.8 | 19623.2 | 15225.8 | 13349.9 | 12568.9 |
| 75°   | 12155.5 | 8900.3  | 7529.7  | 8545.2  | 8783.6  | 10901.6 | 15179.8 | 9482.6  | 7797.9  | 7189.5  |
| 77.5° | 8732.7  | 6388.8  | 5403.0  | 5332.2  | 5640.1  | 6913.9  | 10771.3 | 4772.3  | 3980.2  | 3714.6  |
| 80°   | 4961.0  | 4205.0  | 4527.8  | 4272.0  | 4427.2  | 4322.9  | 5117.5  | 2093.2  | 1714.5  | 1602.8  |
| 82.5° | 2994.5  | 2485.5  | 2691.6  | 2240.9  | 2835.6  | 2469.3  | 1971.5  | 670.4   | 582.3   | 553.7   |
| 85°   | 1947.9  | 1358.2  | 707.7   | 474.3   | 977.1   | 1577.9  | 440.7   | 182.5   | 140.3   | 111.7   |
| 87.5° | 671.7   | 346.4   | 34.8    | 14.9    | 104.3   | 294.2   | 16.1    | 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     |

LM-79-2008: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGRAW-EDISON

Report Number: SP1-1908-441-9-R4

Test Date: 10/23/2019

Luminaire Tested: SA1C-760-U-5WQ

Data in this report applies to families of products SA1C-760-U-5WQ .

### Test Information

Test Method: LM-79-2008  
 Report Number: SP1-1908-441-9-R4  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry:  $4\pi$   
 Issue Date: 10/28/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: MCGRAW-EDISON  
 Catalog Number: **SA1C-760-U-5WQ**  
 Description: MCGRAW EDISON ROADWAY AND AREA LUMINAIRE

\*\*\*THIS IS A REVISION OF SP1-1908-441-4-R3. TO UPDATE THE CATALOG INFORMATION.\*\*\*TESTED IN SITU. ROADWAY AND AREA LUMINAIRE. (1) 70 CRI, 5000K, 1050MA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS.

### Spectral Parameters

|                           |        |           |      |      |       |
|---------------------------|--------|-----------|------|------|-------|
| CCT (K):                  | 5474   | CRI (Ra): | 71.7 |      |       |
| CIE u':                   | 0.2052 | R1:       | 70.6 | R9:  | -27.1 |
| CIE v':                   | 0.4804 | R2:       | 74.6 | R10: | 40.8  |
| Duv:                      | 0.0025 | R3:       | 78.3 | R11: | 74.6  |
| CIE x:                    | 0.3330 | R4:       | 73.8 | R12: | 50.4  |
| CIE y:                    | 0.3466 | R5:       | 72.4 | R13: | 70.0  |
| CIE z:                    | 0.3204 | R6:       | 67.5 | R14: | 87.8  |
| Peak Wavelength (nm):     | 442    | R7:       | 77.5 |      |       |
| Dominant Wavelength (nm): | 554    | R8:       | 58.9 |      |       |
| Purity:                   | 4.1    |           |      |      |       |
| Rf:                       | 72.1   |           |      |      |       |
| Rg:                       | 97.2   |           |      |      |       |



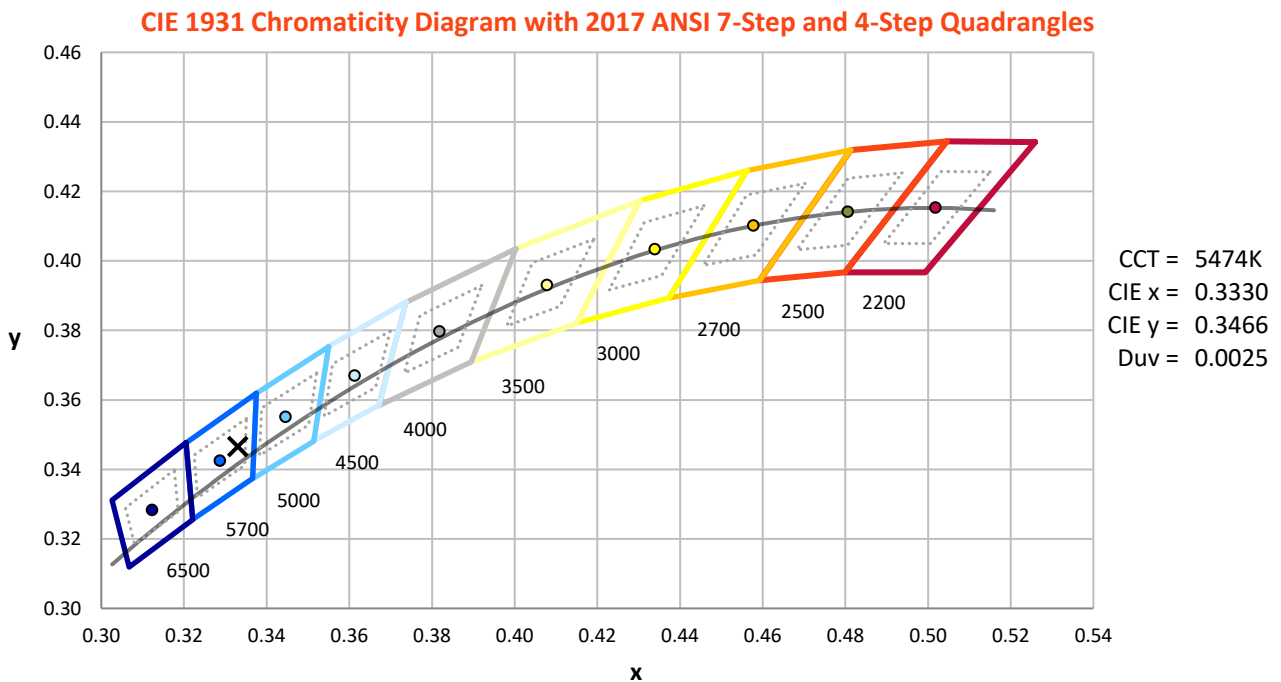
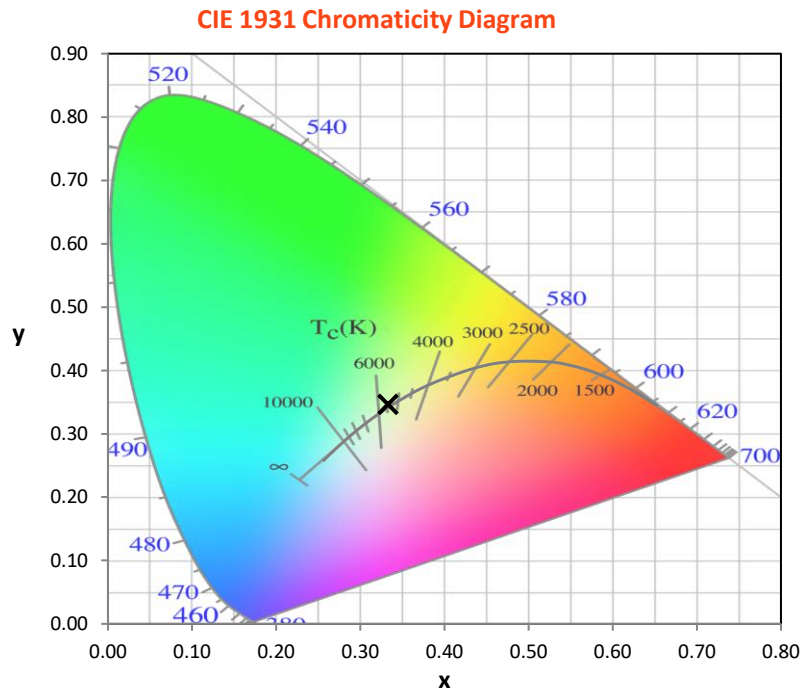
### Test Conditions

Stabilization Time: 240M  
 Operation Time: 12H  
 Room Temperature (°C) / RH%: 24.6/31%  
 Sphere Temperature (°C): 25.9

REPORT NUMBER: SP1-1908-441-9-R4

| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| Photometer                     | IN0058                | 6/28/2019        | 12/28/2019           |
| Power Meter                    | IN0071                | 12/5/2018        | 12/5/2019            |
| AC Power Source                | IN0063                | 12/5/2018        | 12/5/2019            |
| DC Power Source                | IN0208                | 12/5/2018        | 12/5/2019            |
| Sphere Thermometer             | IN0085                | 12/5/2018        | 12/5/2019            |
| Room Thermometer               | IN0046                | 12/5/2018        | 12/5/2019            |

REPORT NUMBER: SP1-1908-441-9-R4



Point lies inside the ANSI 5700K 4-step quadrangle

REPORT NUMBER: SP1-1908-441-9-R4

**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       | 3540             | NR               | 490       | 33363            | NR               | 620       | 80193            | NR               | 750       | 4663             | NR               | 880       | 4678             | NR               |
| 365       | 2862             | NR               | 495       | 44177            | NR               | 625       | 73091            | NR               | 755       | 4147             | NR               | 885       | 4128             | NR               |
| 370       | 2865             | NR               | 500       | 57019            | NR               | 630       | 66269            | NR               | 760       | 4040             | NR               | 890       | 4504             | NR               |
| 375       | 3254             | NR               | 505       | 70030            | NR               | 635       | 60012            | NR               | 765       | 3474             | NR               | 895       | 4371             | NR               |
| 380       | 3076             | NR               | 510       | 81972            | NR               | 640       | 53914            | NR               | 770       | 3469             | NR               | 900       | 4082             | NR               |
| 385       | 2904             | NR               | 515       | 92590            | NR               | 645       | 48385            | NR               | 775       | 3181             | NR               | 905       | 2982             | NR               |
| 390       | 2689             | NR               | 520       | 100305           | NR               | 650       | 43219            | NR               | 780       | 2969             | NR               | 910       | 4351             | NR               |
| 395       | 2619             | NR               | 525       | 107452           | NR               | 655       | 38562            | NR               | 785       | 3132             | NR               | 915       | 3365             | NR               |
| 400       | 2679             | NR               | 530       | 111373           | NR               | 660       | 34110            | NR               | 790       | 2507             | NR               | 920       | 3430             | NR               |
| 405       | 3515             | NR               | 535       | 114505           | NR               | 665       | 30085            | NR               | 795       | 2968             | NR               | 925       | 4264             | NR               |
| 410       | 6934             | NR               | 540       | 116408           | NR               | 670       | 26205            | NR               | 800       | 2758             | NR               | 930       | 4095             | NR               |
| 415       | 14943            | NR               | 545       | 118700           | NR               | 675       | 22906            | NR               | 805       | 2872             | NR               | 935       | 5048             | NR               |
| 420       | 31939            | NR               | 550       | 119209           | NR               | 680       | 20058            | NR               | 810       | 3094             | NR               | 940       | 4074             | NR               |
| 425       | 64701            | NR               | 555       | 120742           | NR               | 685       | 17413            | NR               | 815       | 3222             | NR               | 945       | 4949             | NR               |
| 430       | 110939           | NR               | 560       | 121594           | NR               | 690       | 15447            | NR               | 820       | 3238             | NR               | 950       | 4387             | NR               |
| 435       | 164597           | NR               | 565       | 121913           | NR               | 695       | 13398            | NR               | 825       | 3524             | NR               | 955       | 4978             | NR               |
| 440       | 207696           | NR               | 570       | 122147           | NR               | 700       | 11777            | NR               | 830       | 2921             | NR               | 960       | 4706             | NR               |
| 445       | 201830           | NR               | 575       | 121605           | NR               | 705       | 10412            | NR               | 835       | 3595             | NR               | 965       | 5083             | NR               |
| 450       | 145410           | NR               | 580       | 120248           | NR               | 710       | 9544             | NR               | 840       | 3016             | NR               | 970       | 4522             | NR               |
| 455       | 89594            | NR               | 585       | 117717           | NR               | 715       | 8940             | NR               | 845       | 4032             | NR               | 975       | 4740             | NR               |
| 460       | 58321            | NR               | 590       | 114359           | NR               | 720       | 7897             | NR               | 850       | 3579             | NR               | 980       | 6122             | NR               |
| 465       | 39318            | NR               | 595       | 109974           | NR               | 725       | 7045             | NR               | 855       | 4571             | NR               | 985       | 6450             | NR               |
| 470       | 27693            | NR               | 600       | 105269           | NR               | 730       | 6483             | NR               | 860       | 4485             | NR               | 990       | 4875             | NR               |
| 475       | 23081            | NR               | 605       | 99453            | NR               | 735       | 5838             | NR               | 865       | 3978             | NR               | 995       | 4764             | NR               |
| 480       | 23002            | NR               | 610       | 92921            | NR               | 740       | 5261             | NR               | 870       | 4298             | NR               | 1000      | 3640             | NR               |
| 485       | 26201            | NR               | 615       | 86989            | NR               | 745       | 4760             | NR               | 875       | 4356             | NR               |           |                  |                  |

REPORT NUMBER: SP1-1908-441-9-R4

Scotopic Flux vs. Wavelength



Scotopic Lumens: 13759.3

S/P: 1.85

| 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       | 3540             | NR               | 490       | 33363            | NR               | 620       | 80193            | NR               | 750       | 4663             | NR               | 880       | 4678             | NR               |
| 365       | 2862             | NR               | 495       | 44177            | NR               | 625       | 73091            | NR               | 755       | 4147             | NR               | 885       | 4128             | NR               |
| 370       | 2865             | NR               | 500       | 57019            | NR               | 630       | 66269            | NR               | 760       | 4040             | NR               | 890       | 4504             | NR               |
| 375       | 3254             | NR               | 505       | 70030            | NR               | 635       | 60012            | NR               | 765       | 3474             | NR               | 895       | 4371             | NR               |
| 380       | 3076             | NR               | 510       | 81972            | NR               | 640       | 53914            | NR               | 770       | 3469             | NR               | 900       | 4082             | NR               |
| 385       | 2904             | NR               | 515       | 92590            | NR               | 645       | 48385            | NR               | 775       | 3181             | NR               | 905       | 2982             | NR               |
| 390       | 2689             | NR               | 520       | 100305           | NR               | 650       | 43219            | NR               | 780       | 2969             | NR               | 910       | 4351             | NR               |
| 395       | 2619             | NR               | 525       | 107452           | NR               | 655       | 38562            | NR               | 785       | 3132             | NR               | 915       | 3365             | NR               |
| 400       | 2679             | NR               | 530       | 111373           | NR               | 660       | 34110            | NR               | 790       | 2507             | NR               | 920       | 3430             | NR               |
| 405       | 3515             | NR               | 535       | 114505           | NR               | 665       | 30085            | NR               | 795       | 2968             | NR               | 925       | 4264             | NR               |
| 410       | 6934             | NR               | 540       | 116408           | NR               | 670       | 26205            | NR               | 800       | 2758             | NR               | 930       | 4095             | NR               |
| 415       | 14943            | NR               | 545       | 118700           | NR               | 675       | 22906            | NR               | 805       | 2872             | NR               | 935       | 5048             | NR               |
| 420       | 31939            | NR               | 550       | 119209           | NR               | 680       | 20058            | NR               | 810       | 3094             | NR               | 940       | 4074             | NR               |
| 425       | 64701            | NR               | 555       | 120742           | NR               | 685       | 17413            | NR               | 815       | 3222             | NR               | 945       | 4949             | NR               |
| 430       | 110939           | NR               | 560       | 121594           | NR               | 690       | 15447            | NR               | 820       | 3238             | NR               | 950       | 4387             | NR               |
| 435       | 164597           | NR               | 565       | 121913           | NR               | 695       | 13398            | NR               | 825       | 3524             | NR               | 955       | 4978             | NR               |
| 440       | 207696           | NR               | 570       | 122147           | NR               | 700       | 11777            | NR               | 830       | 2921             | NR               | 960       | 4706             | NR               |
| 445       | 201830           | NR               | 575       | 121605           | NR               | 705       | 10412            | NR               | 835       | 3595             | NR               | 965       | 5083             | NR               |
| 450       | 145410           | NR               | 580       | 120248           | NR               | 710       | 9544             | NR               | 840       | 3016             | NR               | 970       | 4522             | NR               |
| 455       | 89594            | NR               | 585       | 117717           | NR               | 715       | 8940             | NR               | 845       | 4032             | NR               | 975       | 4740             | NR               |
| 460       | 58321            | NR               | 590       | 114359           | NR               | 720       | 7897             | NR               | 850       | 3579             | NR               | 980       | 6122             | NR               |
| 465       | 39318            | NR               | 595       | 109974           | NR               | 725       | 7045             | NR               | 855       | 4571             | NR               | 985       | 6450             | NR               |
| 470       | 27693            | NR               | 600       | 105269           | NR               | 730       | 6483             | NR               | 860       | 4485             | NR               | 990       | 4875             | NR               |
| 475       | 23081            | NR               | 605       | 99453            | NR               | 735       | 5838             | NR               | 865       | 3978             | NR               | 995       | 4764             | NR               |
| 480       | 23002            | NR               | 610       | 92921            | NR               | 740       | 5261             | NR               | 870       | 4298             | NR               | 1000      | 3640             | NR               |
| 485       | 26201            | NR               | 615       | 86989            | NR               | 745       | 4760             | NR               | 875       | 4356             | NR               |           |                  |                  |

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**Melanopic Flux vs. Wavelength**



**Melanopic Lumens: 5527.6 M/P: 0.74**

| 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       | 3540             | NR               | 490       | 33363            | NR               | 620       | 80193            | NR               | 750       | 4663             | NR               | 880       | 4678             | NR               |
| 365       | 2862             | NR               | 495       | 44177            | NR               | 625       | 73091            | NR               | 755       | 4147             | NR               | 885       | 4128             | NR               |
| 370       | 2865             | NR               | 500       | 57019            | NR               | 630       | 66269            | NR               | 760       | 4040             | NR               | 890       | 4504             | NR               |
| 375       | 3254             | NR               | 505       | 70030            | NR               | 635       | 60012            | NR               | 765       | 3474             | NR               | 895       | 4371             | NR               |
| 380       | 3076             | NR               | 510       | 81972            | NR               | 640       | 53914            | NR               | 770       | 3469             | NR               | 900       | 4082             | NR               |
| 385       | 2904             | NR               | 515       | 92590            | NR               | 645       | 48385            | NR               | 775       | 3181             | NR               | 905       | 2982             | NR               |
| 390       | 2689             | NR               | 520       | 100305           | NR               | 650       | 43219            | NR               | 780       | 2969             | NR               | 910       | 4351             | NR               |
| 395       | 2619             | NR               | 525       | 107452           | NR               | 655       | 38562            | NR               | 785       | 3132             | NR               | 915       | 3365             | NR               |
| 400       | 2679             | NR               | 530       | 111373           | NR               | 660       | 34110            | NR               | 790       | 2507             | NR               | 920       | 3430             | NR               |
| 405       | 3515             | NR               | 535       | 114505           | NR               | 665       | 30085            | NR               | 795       | 2968             | NR               | 925       | 4264             | NR               |
| 410       | 6934             | NR               | 540       | 116408           | NR               | 670       | 26205            | NR               | 800       | 2758             | NR               | 930       | 4095             | NR               |
| 415       | 14943            | NR               | 545       | 118700           | NR               | 675       | 22906            | NR               | 805       | 2872             | NR               | 935       | 5048             | NR               |
| 420       | 31939            | NR               | 550       | 119209           | NR               | 680       | 20058            | NR               | 810       | 3094             | NR               | 940       | 4074             | NR               |
| 425       | 64701            | NR               | 555       | 120742           | NR               | 685       | 17413            | NR               | 815       | 3222             | NR               | 945       | 4949             | NR               |
| 430       | 110939           | NR               | 560       | 121594           | NR               | 690       | 15447            | NR               | 820       | 3238             | NR               | 950       | 4387             | NR               |
| 435       | 164597           | NR               | 565       | 121913           | NR               | 695       | 13398            | NR               | 825       | 3524             | NR               | 955       | 4978             | NR               |
| 440       | 207696           | NR               | 570       | 122147           | NR               | 700       | 11777            | NR               | 830       | 2921             | NR               | 960       | 4706             | NR               |
| 445       | 201830           | NR               | 575       | 121605           | NR               | 705       | 10412            | NR               | 835       | 3595             | NR               | 965       | 5083             | NR               |
| 450       | 145410           | NR               | 580       | 120248           | NR               | 710       | 9544             | NR               | 840       | 3016             | NR               | 970       | 4522             | NR               |
| 455       | 89594            | NR               | 585       | 117717           | NR               | 715       | 8940             | NR               | 845       | 4032             | NR               | 975       | 4740             | NR               |
| 460       | 58321            | NR               | 590       | 114359           | NR               | 720       | 7897             | NR               | 850       | 3579             | NR               | 980       | 6122             | NR               |
| 465       | 39318            | NR               | 595       | 109974           | NR               | 725       | 7045             | NR               | 855       | 4571             | NR               | 985       | 6450             | NR               |
| 470       | 27693            | NR               | 600       | 105269           | NR               | 730       | 6483             | NR               | 860       | 4485             | NR               | 990       | 4875             | NR               |
| 475       | 23081            | NR               | 605       | 99453            | NR               | 735       | 5838             | NR               | 865       | 3978             | NR               | 995       | 4764             | NR               |
| 480       | 23002            | NR               | 610       | 92921            | NR               | 740       | 5261             | NR               | 870       | 4298             | NR               | 1000      | 3640             | NR               |
| 485       | 26201            | NR               | 615       | 86989            | NR               | 745       | 4760             | NR               | 875       | 4356             | NR               |           |                  |                  |

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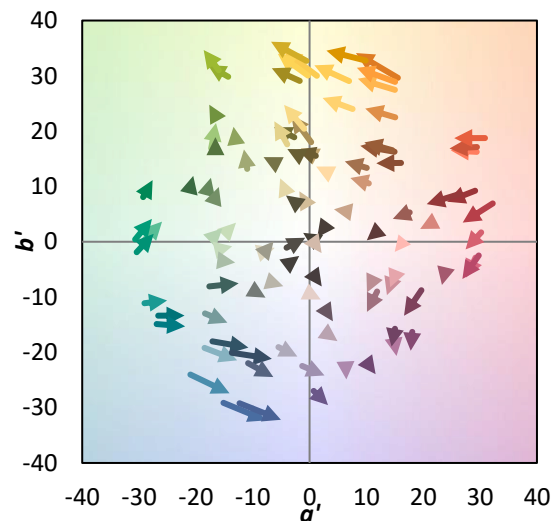
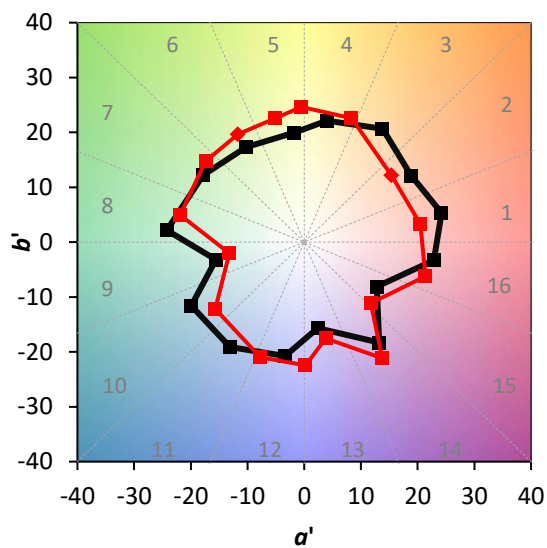
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**Summary**

$R_f = 72.1$   
 $R_g = 97.2$   
 CIE  $R_a = 71.7$   
 $R_g = -27.1$



**Color Vector Graphics**



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

|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 54 | CES51 = 88 | CES76 = 43 |
| CES02 = 59 | CES27 = 79 | CES52 = 90 | CES77 = 64 |
| CES03 = 30 | CES28 = 77 | CES53 = 77 | CES78 = 46 |
| CES04 = 69 | CES29 = 50 | CES54 = 81 | CES79 = 74 |
| CES05 = 46 | CES30 = 59 | CES55 = 80 | CES80 = 70 |
| CES06 = 50 | CES31 = 55 | CES56 = 70 | CES81 = 71 |
| CES07 = 38 | CES32 = 52 | CES57 = 68 | CES82 = 88 |
| CES08 = 38 | CES33 = 63 | CES58 = 70 | CES83 = 82 |
| CES09 = 29 | CES34 = 63 | CES59 = 88 | CES84 = 87 |
| CES10 = 72 | CES35 = 79 | CES60 = 92 | CES85 = 84 |
| CES11 = 55 | CES36 = 90 | CES61 = 88 | CES86 = 76 |
| CES12 = 61 | CES37 = 72 | CES62 = 81 | CES87 = 75 |
| CES13 = 41 | CES38 = 68 | CES63 = 75 | CES88 = 77 |
| CES14 = 74 | CES39 = 91 | CES64 = 72 | CES89 = 76 |
| CES15 = 70 | CES40 = 83 | CES65 = 65 | CES90 = 76 |
| CES16 = 46 | CES41 = 84 | CES66 = 66 | CES91 = 92 |
| CES17 = 48 | CES42 = 70 | CES67 = 64 | CES92 = 70 |
| CES18 = 55 | CES43 = 69 | CES68 = 71 | CES93 = 83 |
| CES19 = 70 | CES44 = 98 | CES69 = 80 | CES94 = 60 |
| CES20 = 64 | CES45 = 79 | CES70 = 58 | CES95 = 73 |
| CES21 = 85 | CES46 = 78 | CES71 = 55 | CES96 = 79 |
| CES22 = 77 | CES47 = 76 | CES72 = 84 | CES97 = 84 |
| CES23 = 91 | CES48 = 68 | CES73 = 47 | CES98 = 73 |
| CES24 = 90 | CES49 = 78 | CES74 = 94 | CES99 = 62 |
| CES25 = 71 | CES50 = 87 | CES75 = 51 |            |



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Color Rendition by Hue-Angle Bin



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**Measure Comparisons**



(END OF REPORT)