

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: P320715

Luminaire Tested: **GLEON-SA1B-760-U-SLR**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P320715  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA1B-760-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5700K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 5259 lumens  
Efficiency: N/A  
Efficacy: 119.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

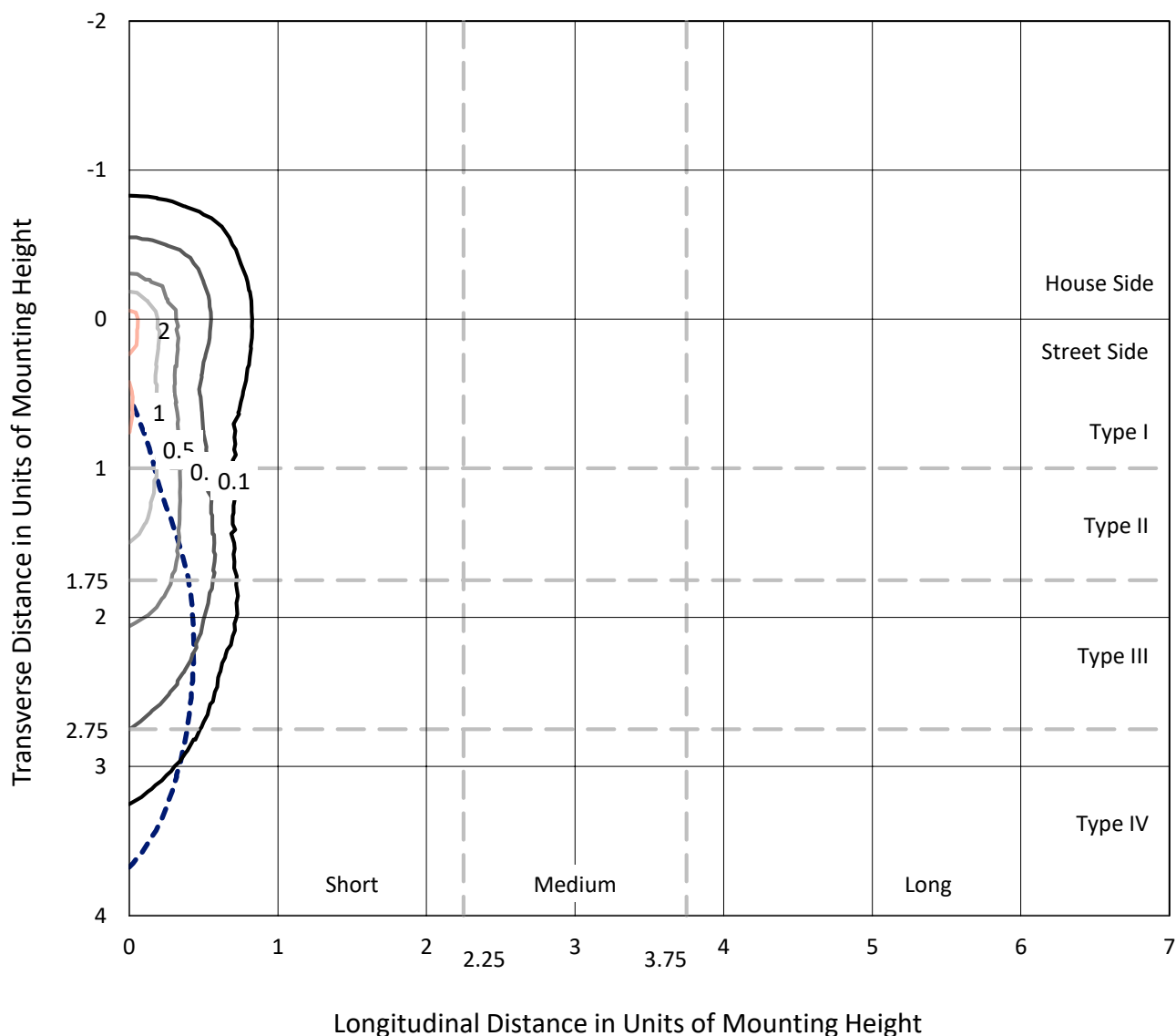
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

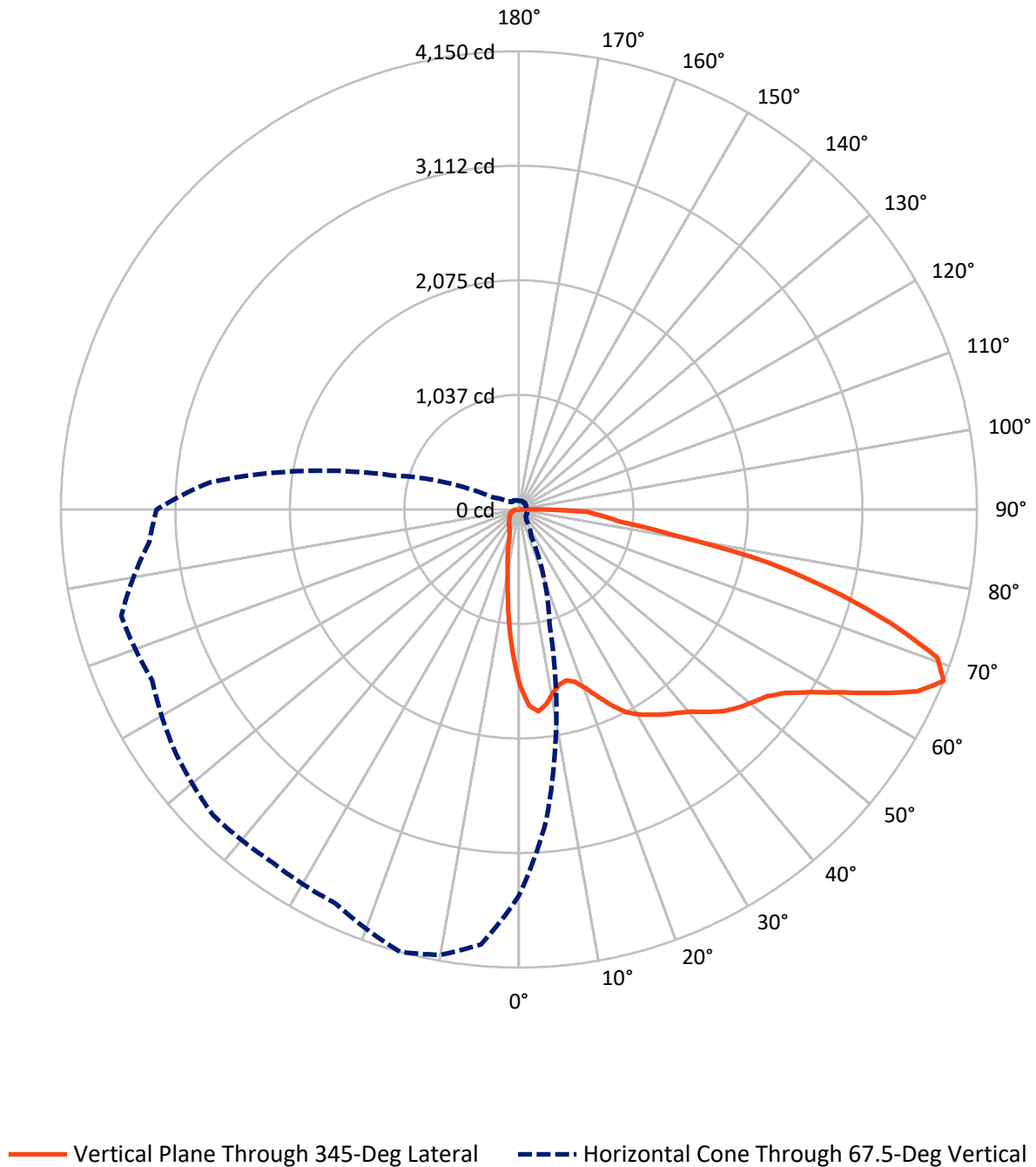
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type IV - Medium - N/A

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## Luminous Intensity Polar Plot



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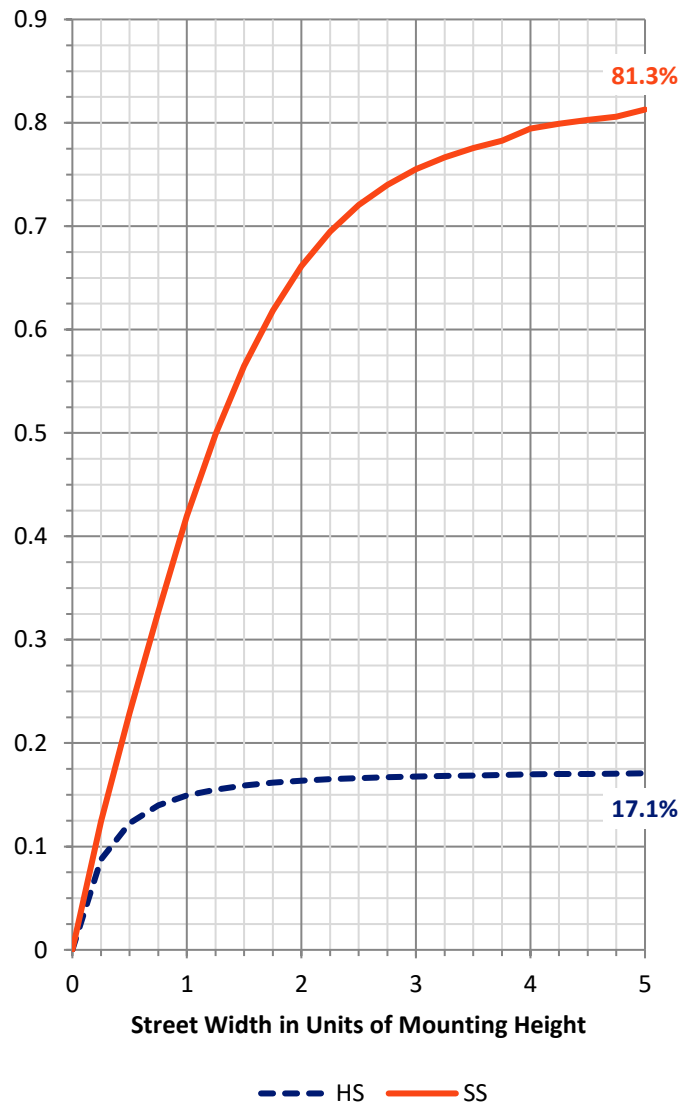
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 909.2    | 0.0    | 909.2  |
|                    | % Fixture | 17.3     | 0.0    | 17.3   |
| <b>Street Side</b> | Lumens    | 4349.8   | 0.0    | 4349.8 |
|                    | % Fixture | 82.7     | 0.0    | 82.7   |
| <b>Total</b>       | Lumens    | 5259.0   | 0.0    | 5259.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 123.7  | 2.4       |
| 10°-20°   | 256.9  | 4.9       |
| 20°-30°   | 365.3  | 6.9       |
| 30°-40°   | 526.4  | 10.0      |
| 40°-50°   | 741.9  | 14.1      |
| 50°-60°   | 1031.4 | 19.6      |
| 60°-70°   | 1247.2 | 23.7      |
| 70°-80°   | 766.7  | 14.6      |
| 80°-90°   | 199.5  | 3.8       |
| 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°    | 5259.0 | 100.0     |
| 0°-180°   | 5259.0 | 100.0     |

**Coefficient of Utilization**



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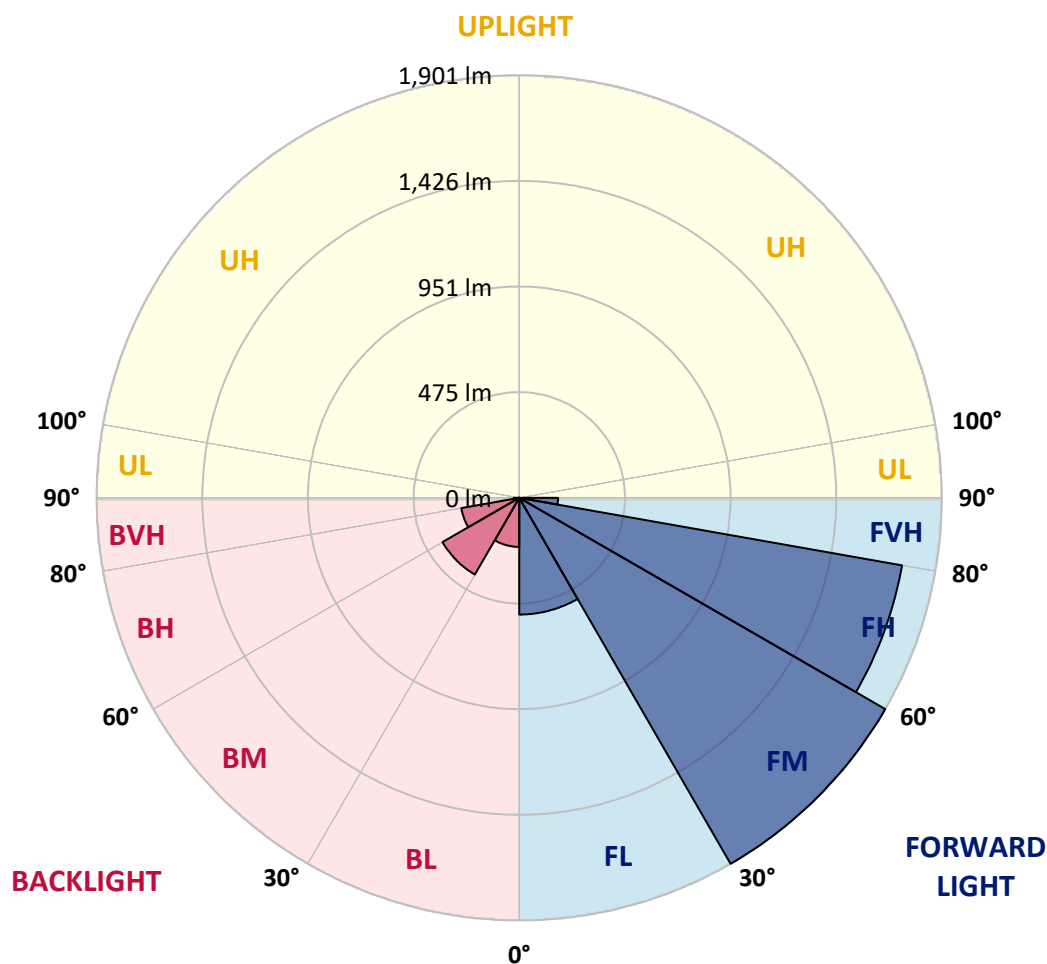
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 525.1  | 10.0      |                         |      |         |
| FM   | (30°-60°)   | 1901.3 | 36.2      |                         |      |         |
| FH   | (60°-80°)   | 1749.0 | 33.3      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 174.5  | 3.3       |                         |      | G2/225  |
| BL   | (0°-30°)    | 220.7  | 4.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 398.5  | 7.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 264.9  | 5.0       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 25.0   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 |
| 2.5°   | 1716.4 | 1701.2 | 1678.3 | 1655.4 | 1638.4 | 1621.1 | 1601.6 | 1582.0 | 1559.7 | 1537.2 | 1524.0 |
| 5°     | 1688.0 | 1645.9 | 1591.3 | 1536.6 | 1500.4 | 1464.3 | 1423.3 | 1382.3 | 1341.7 | 1301.1 | 1279.2 |
| 7.5°   | 1560.1 | 1497.1 | 1426.0 | 1354.9 | 1302.4 | 1249.6 | 1192.8 | 1135.8 | 1085.4 | 1034.7 | 1003.4 |
| 10°    | 1434.4 | 1358.7 | 1277.1 | 1195.3 | 1128.1 | 1060.8 | 1003.8 | 946.6  | 908.5  | 870.5  | 841.7  |
| 12.5°  | 1344.2 | 1260.3 | 1170.5 | 1080.5 | 1013.2 | 946.0  | 909.8  | 873.6  | 842.1  | 810.6  | 777.3  |
| 15°    | 1308.5 | 1213.6 | 1121.7 | 1029.6 | 968.5  | 907.3  | 867.1  | 826.7  | 784.5  | 742.0  | 701.2  |
| 17.5°  | 1340.0 | 1229.0 | 1129.1 | 1029.2 | 949.1  | 869.0  | 812.9  | 756.5  | 700.8  | 645.1  | 597.8  |
| 20°    | 1438.4 | 1296.7 | 1166.1 | 1035.3 | 928.7  | 822.1  | 746.8  | 671.4  | 599.9  | 528.4  | 474.8  |
| 22.5°  | 1576.5 | 1389.0 | 1218.5 | 1047.9 | 910.2  | 772.3  | 677.9  | 583.3  | 498.7  | 414.2  | 361.6  |
| 25°    | 1744.3 | 1511.4 | 1293.9 | 1076.3 | 902.7  | 728.8  | 612.7  | 496.6  | 407.5  | 318.1  | 280.7  |
| 27.5°  | 1921.2 | 1657.3 | 1387.7 | 1118.0 | 903.9  | 689.9  | 557.8  | 425.6  | 345.2  | 264.9  | 239.3  |
| 30°    | 2068.6 | 1824.0 | 1497.1 | 1169.9 | 908.7  | 647.6  | 506.1  | 364.6  | 298.4  | 232.1  | 215.5  |
| 32.5°  | 2203.3 | 1940.3 | 1579.5 | 1218.5 | 914.2  | 609.8  | 466.1  | 322.3  | 268.3  | 214.0  | 200.4  |
| 35°    | 2342.5 | 2043.5 | 1637.1 | 1230.4 | 904.8  | 578.8  | 438.8  | 298.8  | 248.9  | 198.9  | 187.3  |
| 37.5°  | 2495.8 | 2155.2 | 1692.6 | 1229.8 | 888.8  | 547.7  | 417.6  | 287.2  | 236.3  | 185.2  | 176.8  |
| 40°    | 2666.7 | 2278.6 | 1752.7 | 1226.9 | 874.3  | 521.4  | 401.8  | 282.0  | 229.4  | 176.6  | 169.5  |
| 42.5°  | 2833.9 | 2396.3 | 1808.7 | 1221.0 | 862.5  | 503.8  | 386.2  | 268.7  | 223.1  | 177.3  | 167.2  |
| 45°    | 2959.4 | 2499.2 | 1857.2 | 1215.1 | 853.7  | 492.2  | 374.1  | 255.9  | 217.2  | 178.5  | 165.7  |
| 47.5°  | 3054.7 | 2602.4 | 1911.1 | 1219.5 | 852.8  | 486.1  | 365.4  | 244.7  | 206.1  | 167.2  | 161.9  |
| 50°    | 3175.8 | 2726.5 | 1989.5 | 1252.5 | 864.4  | 476.2  | 355.3  | 234.2  | 195.3  | 156.4  | 163.6  |
| 52.5°  | 3326.5 | 2903.5 | 2111.0 | 1318.3 | 888.6  | 458.8  | 339.4  | 219.9  | 182.3  | 144.4  | 155.6  |
| 55°    | 3547.9 | 3130.4 | 2266.4 | 1402.2 | 917.8  | 433.1  | 315.2  | 197.0  | 165.1  | 132.9  | 142.8  |
| 57.5°  | 3746.6 | 3359.6 | 2415.5 | 1471.2 | 936.1  | 400.8  | 284.7  | 168.6  | 145.7  | 122.8  | 128.5  |
| 60°    | 3835.2 | 3477.7 | 2485.3 | 1492.6 | 925.1  | 357.7  | 250.4  | 143.0  | 128.7  | 114.4  | 113.3  |
| 62.5°  | 3800.7 | 3402.7 | 2416.5 | 1430.4 | 871.7  | 313.1  | 220.1  | 127.2  | 116.5  | 105.6  | 103.2  |
| 65°    | 3699.8 | 3166.7 | 2223.9 | 1281.1 | 781.5  | 282.0  | 201.0  | 120.1  | 108.1  | 96.1   | 93.6   |
| 67.5°  | 3500.8 | 2831.0 | 1951.0 | 1071.1 | 666.9  | 262.8  | 190.1  | 117.3  | 102.8  | 88.1   | 85.2   |
| 70°    | 3143.8 | 2426.8 | 1636.7 | 846.3  | 548.8  | 251.1  | 182.9  | 114.8  | 97.1   | 79.3   | 76.5   |
| 72.5°  | 2582.2 | 1945.8 | 1307.0 | 668.0  | 458.8  | 249.6  | 182.1  | 114.6  | 92.5   | 70.4   | 67.9   |
| 75°    | 1848.8 | 1477.9 | 997.7  | 517.2  | 375.7  | 234.2  | 172.8  | 111.4  | 86.2   | 60.8   | 58.5   |
| 77.5°  | 1244.1 | 1022.9 | 693.4  | 363.8  | 278.8  | 193.9  | 145.3  | 96.7   | 73.8   | 50.9   | 48.6   |
| 80°    | 799.0  | 707.9  | 464.7  | 221.4  | 180.8  | 140.2  | 103.9  | 67.5   | 53.8   | 39.9   | 38.1   |
| 82.5°  | 586.2  | 526.9  | 323.0  | 119.0  | 100.5  | 81.8   | 63.5   | 45.2   | 36.8   | 28.4   | 27.5   |
| 85°    | 372.6  | 410.9  | 237.8  | 64.8   | 53.0   | 41.2   | 34.1   | 26.9   | 21.2   | 15.6   | 15.6   |
| 87.5°  | 72.3   | 100.1  | 65.8   | 31.3   | 22.9   | 14.5   | 12.4   | 10.1   | 5.7    | 1.1    | 1.3    |
| 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    |



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**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°    | 95°    | 100°   | 105°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 |
| 2.5°   | 1510.5 | 1496.0 | 1481.5 | 1465.1 | 1448.5 | 1433.1 | 1417.6 | 1400.6 | 1403.7 | 1390.7 | 1377.6 |
| 5°     | 1257.4 | 1234.2 | 1210.9 | 1190.7 | 1170.5 | 1153.1 | 1135.4 | 1119.6 | 1133.3 | 1124.1 | 1114.8 |
| 7.5°   | 971.8  | 943.2  | 914.4  | 890.2  | 866.1  | 847.4  | 828.4  | 815.4  | 828.8  | 827.2  | 825.5  |
| 10°    | 812.9  | 785.1  | 757.2  | 730.4  | 703.7  | 681.0  | 658.1  | 638.8  | 635.4  | 625.7  | 615.9  |
| 12.5°  | 743.9  | 705.8  | 667.6  | 639.6  | 611.6  | 584.5  | 557.4  | 534.7  | 524.4  | 508.4  | 492.2  |
| 15°    | 660.4  | 615.4  | 570.4  | 538.7  | 506.7  | 480.4  | 454.0  | 434.4  | 427.9  | 415.5  | 403.1  |
| 17.5°  | 550.5  | 501.3  | 452.1  | 419.9  | 387.5  | 366.5  | 345.2  | 332.2  | 332.2  | 328.6  | 325.1  |
| 20°    | 421.2  | 377.2  | 333.3  | 308.7  | 284.1  | 272.9  | 261.6  | 256.1  | 257.8  | 258.0  | 258.0  |
| 22.5°  | 308.9  | 282.0  | 255.0  | 245.2  | 235.1  | 231.1  | 227.1  | 224.8  | 225.6  | 225.8  | 226.0  |
| 25°    | 243.3  | 233.0  | 222.5  | 217.4  | 212.2  | 209.6  | 207.1  | 206.3  | 208.2  | 208.4  | 208.4  |
| 27.5°  | 213.6  | 207.3  | 200.8  | 197.6  | 194.3  | 193.2  | 192.2  | 190.7  | 192.6  | 192.6  | 192.4  |
| 30°    | 198.7  | 192.0  | 185.2  | 181.2  | 177.3  | 177.7  | 177.9  | 177.5  | 178.7  | 179.6  | 180.2  |
| 32.5°  | 186.5  | 180.0  | 173.5  | 169.5  | 165.3  | 164.6  | 164.0  | 163.6  | 166.3  | 167.8  | 169.3  |
| 35°    | 175.6  | 168.4  | 161.3  | 157.5  | 153.7  | 152.2  | 150.8  | 149.7  | 152.2  | 154.1  | 156.0  |
| 37.5°  | 168.2  | 160.8  | 153.3  | 149.7  | 145.9  | 144.0  | 142.1  | 140.9  | 141.9  | 142.8  | 143.6  |
| 40°    | 162.3  | 154.8  | 147.0  | 142.8  | 138.6  | 136.7  | 134.8  | 133.7  | 134.4  | 134.6  | 134.8  |
| 42.5°  | 156.9  | 149.5  | 142.1  | 137.5  | 132.7  | 130.4  | 128.0  | 126.8  | 127.2  | 127.6  | 127.8  |
| 45°    | 152.9  | 145.5  | 137.9  | 132.5  | 126.8  | 124.3  | 121.7  | 120.3  | 120.5  | 120.5  | 120.5  |
| 47.5°  | 156.6  | 145.9  | 135.0  | 128.7  | 122.2  | 119.2  | 116.3  | 114.8  | 114.4  | 114.0  | 113.5  |
| 50°    | 170.5  | 152.2  | 133.7  | 125.7  | 117.5  | 114.4  | 111.0  | 109.3  | 108.3  | 107.9  | 107.4  |
| 52.5°  | 166.5  | 150.8  | 134.8  | 124.5  | 114.0  | 110.2  | 106.4  | 103.7  | 102.6  | 102.0  | 101.3  |
| 55°    | 152.4  | 142.6  | 132.5  | 120.1  | 107.7  | 104.3  | 100.7  | 98.8   | 96.9   | 96.5   | 96.1   |
| 57.5°  | 133.9  | 129.9  | 125.9  | 113.3  | 100.7  | 97.6   | 94.2   | 92.9   | 91.3   | 91.3   | 91.0   |
| 60°    | 112.1  | 118.0  | 123.8  | 109.3  | 94.6   | 91.0   | 87.5   | 86.4   | 85.8   | 85.6   | 85.4   |
| 62.5°  | 100.7  | 110.4  | 119.8  | 104.5  | 88.9   | 85.2   | 81.4   | 80.1   | 79.9   | 80.1   | 80.1   |
| 65°    | 91.0   | 94.0   | 96.9   | 89.8   | 82.6   | 78.8   | 74.9   | 73.6   | 74.0   | 74.6   | 75.3   |
| 67.5°  | 82.2   | 81.6   | 81.0   | 78.4   | 75.7   | 72.5   | 69.2   | 67.9   | 68.1   | 69.0   | 69.8   |
| 70°    | 73.8   | 73.0   | 71.9   | 70.0   | 68.1   | 65.4   | 62.7   | 61.8   | 61.6   | 62.7   | 63.5   |
| 72.5°  | 65.4   | 64.3   | 63.1   | 61.6   | 59.9   | 57.6   | 55.3   | 54.7   | 54.9   | 55.5   | 56.1   |
| 75°    | 56.1   | 55.3   | 54.2   | 53.0   | 51.5   | 49.4   | 47.3   | 46.9   | 47.3   | 47.9   | 48.6   |
| 77.5°  | 46.0   | 45.8   | 45.4   | 44.4   | 43.3   | 41.0   | 38.5   | 38.3   | 38.9   | 39.5   | 39.9   |
| 80°    | 36.0   | 36.2   | 36.4   | 35.5   | 34.7   | 32.2   | 29.4   | 29.2   | 29.9   | 30.5   | 31.1   |
| 82.5°  | 26.5   | 27.1   | 27.5   | 26.5   | 25.4   | 22.5   | 19.6   | 19.1   | 21.2   | 21.9   | 22.5   |
| 85°    | 15.3   | 16.2   | 17.0   | 16.2   | 15.3   | 12.4   | 9.5    | 9.3    | 11.1   | 12.2   | 13.2   |
| 87.5°  | 1.3    | 1.7    | 2.1    | 1.9    | 1.7    | 0.8    | 0.0    | 0.0    | 0.2    | 1.1    | 1.9    |
| 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    |



REPORT NUMBER: P320715

CATALOG NUMBER: GLEON-SA1B-760-U-SLR

**CANDELA DISTRIBUTION (continued):**

|        | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| 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  |

REPORT NUMBER: P320715

CATALOG NUMBER: GLEON-SA1B-760-U-SLR

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 |
| 2.5°   | 1369.4 | 1361.2 | 1358.7 | 1356.2 | 1346.9 | 1337.5 | 1347.1 | 1356.6 | 1360.6 | 1364.6 | 1354.3 |
| 5°     | 1113.5 | 1112.1 | 1112.1 | 1111.9 | 1103.5 | 1094.8 | 1101.3 | 1107.7 | 1093.6 | 1079.5 | 1078.0 |
| 7.5°   | 834.5  | 843.6  | 850.9  | 858.1  | 855.3  | 852.6  | 858.7  | 864.8  | 846.9  | 828.8  | 820.0  |
| 10°    | 618.0  | 619.9  | 627.8  | 635.8  | 637.7  | 639.4  | 647.0  | 654.3  | 640.5  | 626.6  | 620.5  |
| 12.5°  | 482.1  | 472.0  | 473.1  | 473.9  | 477.7  | 481.3  | 489.3  | 497.1  | 491.4  | 485.5  | 486.1  |
| 15°    | 390.5  | 377.6  | 372.4  | 366.9  | 371.1  | 375.3  | 381.0  | 386.5  | 386.7  | 386.7  | 392.1  |
| 17.5°  | 318.8  | 312.2  | 307.0  | 301.5  | 307.2  | 312.7  | 313.3  | 313.9  | 314.1  | 314.3  | 313.9  |
| 20°    | 261.1  | 264.3  | 262.6  | 260.9  | 263.0  | 264.9  | 266.6  | 268.1  | 266.2  | 264.1  | 258.8  |
| 22.5°  | 229.0  | 231.7  | 233.8  | 235.7  | 239.3  | 242.6  | 241.0  | 239.1  | 235.3  | 231.3  | 227.3  |
| 25°    | 210.3  | 212.2  | 214.3  | 216.4  | 219.3  | 222.0  | 219.1  | 216.1  | 213.4  | 210.7  | 207.9  |
| 27.5°  | 194.5  | 196.4  | 198.3  | 200.0  | 202.7  | 205.2  | 202.5  | 199.7  | 197.4  | 195.1  | 193.0  |
| 30°    | 181.7  | 182.9  | 184.4  | 185.9  | 188.4  | 190.7  | 188.4  | 185.9  | 184.2  | 182.3  | 180.8  |
| 32.5°  | 170.7  | 172.0  | 172.6  | 173.3  | 175.6  | 177.9  | 176.2  | 174.5  | 173.0  | 171.6  | 170.5  |
| 35°    | 158.7  | 161.3  | 161.7  | 162.1  | 164.4  | 166.7  | 165.7  | 164.4  | 162.7  | 161.1  | 159.2  |
| 37.5°  | 146.6  | 149.5  | 151.2  | 152.6  | 155.0  | 157.3  | 156.2  | 155.2  | 152.9  | 150.5  | 147.2  |
| 40°    | 136.2  | 137.5  | 140.7  | 143.6  | 147.4  | 151.0  | 148.9  | 146.6  | 143.0  | 139.4  | 137.7  |
| 42.5°  | 127.6  | 127.4  | 130.4  | 133.3  | 139.0  | 144.4  | 140.7  | 136.9  | 133.5  | 130.2  | 129.7  |
| 45°    | 120.1  | 119.4  | 120.9  | 122.4  | 128.5  | 134.4  | 130.6  | 126.6  | 124.7  | 122.8  | 122.8  |
| 47.5°  | 113.3  | 112.9  | 114.0  | 114.8  | 118.6  | 122.2  | 120.3  | 118.4  | 117.3  | 116.3  | 116.5  |
| 50°    | 107.2  | 106.8  | 107.9  | 108.7  | 110.2  | 111.4  | 111.9  | 112.1  | 111.4  | 110.8  | 111.2  |
| 52.5°  | 101.6  | 101.6  | 102.0  | 102.2  | 104.1  | 106.0  | 106.0  | 105.8  | 105.8  | 105.8  | 106.2  |
| 55°    | 96.7   | 97.1   | 97.1   | 97.1   | 100.1  | 102.8  | 102.0  | 101.1  | 101.3  | 101.3  | 101.8  |
| 57.5°  | 91.9   | 92.5   | 92.9   | 93.4   | 96.3   | 99.2   | 98.4   | 97.6   | 97.6   | 97.6   | 97.8   |
| 60°    | 86.4   | 87.3   | 88.1   | 88.9   | 91.9   | 94.8   | 94.0   | 92.9   | 93.1   | 93.4   | 93.6   |
| 62.5°  | 81.2   | 82.0   | 82.8   | 83.7   | 86.6   | 89.6   | 88.7   | 87.7   | 88.3   | 88.7   | 88.7   |
| 65°    | 76.1   | 76.7   | 77.6   | 78.4   | 81.2   | 83.9   | 83.1   | 82.2   | 83.1   | 83.7   | 84.1   |
| 67.5°  | 70.4   | 70.9   | 71.7   | 72.5   | 75.3   | 78.0   | 77.2   | 76.1   | 77.2   | 78.0   | 78.8   |
| 70°    | 63.9   | 64.3   | 65.4   | 66.2   | 69.0   | 71.7   | 70.6   | 69.6   | 70.6   | 71.7   | 72.5   |
| 72.5°  | 56.8   | 57.2   | 58.2   | 59.1   | 62.2   | 65.4   | 64.1   | 62.9   | 64.1   | 65.4   | 65.8   |
| 75°    | 49.0   | 49.4   | 50.7   | 51.7   | 54.9   | 58.0   | 57.0   | 55.7   | 56.8   | 57.8   | 58.0   |
| 77.5°  | 40.6   | 41.2   | 42.9   | 44.6   | 47.1   | 49.6   | 49.0   | 48.4   | 49.0   | 49.6   | 49.6   |
| 80°    | 31.7   | 32.4   | 34.5   | 36.4   | 37.8   | 39.3   | 39.5   | 39.7   | 39.9   | 40.2   | 39.9   |
| 82.5°  | 23.5   | 24.4   | 26.3   | 28.2   | 28.2   | 28.2   | 29.9   | 31.3   | 31.3   | 31.1   | 30.9   |
| 85°    | 14.5   | 15.6   | 17.2   | 18.9   | 17.9   | 16.8   | 19.6   | 22.1   | 22.1   | 21.9   | 21.4   |
| 87.5°  | 2.9    | 4.0    | 5.7    | 7.1    | 6.1    | 5.0    | 7.8    | 10.5   | 10.7   | 10.7   | 10.3   |
| 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    |



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 CATALOG NUMBER: GLEON-SA1B-760-U-SLR

**CANDELA DISTRIBUTION (continued):**

|        | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 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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CATALOG NUMBER: GLEON-SA1B-760-U-SLR

**CANDELA DISTRIBUTION (continued):**

|        | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   | 200°   | 205°   | 210°   | 215°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 |
| 2.5°   | 1343.8 | 1360.2 | 1376.4 | 1380.6 | 1386.9 | 1389.6 | 1392.1 | 1412.7 | 1433.1 | 1457.1 | 1481.1 |
| 5°     | 1076.3 | 1088.5 | 1100.7 | 1102.6 | 1109.1 | 1112.5 | 1115.9 | 1140.9 | 1165.7 | 1199.1 | 1232.6 |
| 7.5°   | 811.2  | 814.1  | 817.1  | 816.7  | 822.1  | 829.5  | 836.6  | 863.3  | 889.8  | 925.8  | 961.5  |
| 10°    | 614.4  | 621.1  | 627.6  | 633.7  | 645.7  | 659.6  | 673.3  | 700.6  | 727.9  | 763.5  | 798.8  |
| 12.5°  | 486.8  | 494.5  | 502.1  | 508.8  | 522.7  | 541.2  | 559.5  | 592.3  | 625.1  | 667.6  | 709.8  |
| 15°    | 397.4  | 396.8  | 396.1  | 400.8  | 413.0  | 433.1  | 453.1  | 487.8  | 522.5  | 569.2  | 615.6  |
| 17.5°  | 313.5  | 310.3  | 307.2  | 310.8  | 322.1  | 338.7  | 355.1  | 384.6  | 413.8  | 459.0  | 504.2  |
| 20°    | 253.6  | 251.5  | 249.4  | 252.7  | 259.9  | 266.8  | 273.8  | 295.0  | 316.0  | 352.8  | 389.4  |
| 22.5°  | 223.1  | 222.9  | 222.5  | 224.3  | 227.7  | 231.3  | 234.7  | 245.0  | 255.0  | 278.8  | 302.4  |
| 25°    | 205.2  | 205.0  | 204.8  | 205.6  | 208.4  | 211.1  | 213.8  | 220.6  | 227.3  | 238.6  | 250.0  |
| 27.5°  | 190.9  | 190.5  | 190.1  | 190.3  | 190.9  | 195.1  | 199.1  | 202.3  | 205.2  | 213.0  | 220.6  |
| 30°    | 179.4  | 179.1  | 178.9  | 178.9  | 178.3  | 179.8  | 181.2  | 186.1  | 190.7  | 198.7  | 206.7  |
| 32.5°  | 169.5  | 168.4  | 167.4  | 165.1  | 163.6  | 165.7  | 167.8  | 172.8  | 177.9  | 185.2  | 192.6  |
| 35°    | 157.1  | 154.3  | 151.4  | 150.1  | 150.3  | 152.4  | 154.5  | 159.6  | 164.4  | 172.4  | 180.2  |
| 37.5°  | 143.6  | 142.8  | 141.7  | 141.5  | 142.1  | 144.2  | 146.3  | 150.8  | 155.0  | 163.0  | 170.7  |
| 40°    | 136.0  | 135.6  | 135.2  | 134.8  | 135.2  | 137.3  | 139.4  | 143.6  | 147.6  | 155.4  | 163.0  |
| 42.5°  | 129.3  | 129.1  | 128.9  | 128.9  | 129.1  | 131.4  | 133.7  | 137.9  | 141.9  | 148.9  | 155.8  |
| 45°    | 122.8  | 123.0  | 123.0  | 123.4  | 124.1  | 126.4  | 128.5  | 133.1  | 137.7  | 144.4  | 151.2  |
| 47.5°  | 116.7  | 117.3  | 117.7  | 118.8  | 119.4  | 122.0  | 124.3  | 129.3  | 134.4  | 142.8  | 151.0  |
| 50°    | 111.4  | 112.1  | 112.5  | 113.3  | 115.0  | 118.0  | 120.9  | 127.0  | 132.9  | 147.0  | 160.8  |
| 52.5°  | 106.6  | 107.2  | 107.9  | 108.7  | 110.8  | 114.2  | 117.5  | 125.1  | 132.5  | 148.9  | 165.3  |
| 55°    | 102.2  | 102.8  | 103.2  | 104.5  | 106.6  | 109.5  | 112.3  | 121.5  | 130.8  | 142.8  | 154.8  |
| 57.5°  | 98.0   | 98.6   | 99.0   | 99.9   | 100.9  | 104.1  | 107.0  | 116.9  | 126.8  | 135.2  | 143.4  |
| 60°    | 93.6   | 94.0   | 94.2   | 94.2   | 95.0   | 98.6   | 102.2  | 114.8  | 127.2  | 125.7  | 124.1  |
| 62.5°  | 88.7   | 89.2   | 89.4   | 88.7   | 89.8   | 93.6   | 97.4   | 113.8  | 130.2  | 120.1  | 110.0  |
| 65°    | 84.3   | 84.1   | 83.9   | 83.3   | 84.5   | 88.3   | 91.9   | 100.1  | 108.3  | 104.3  | 100.3  |
| 67.5°  | 79.5   | 78.8   | 78.2   | 77.4   | 78.6   | 82.0   | 85.2   | 87.9   | 90.6   | 91.0   | 91.5   |
| 70°    | 73.4   | 72.5   | 71.7   | 71.5   | 72.1   | 74.9   | 77.6   | 79.5   | 81.2   | 82.0   | 82.6   |
| 72.5°  | 66.2   | 65.6   | 65.0   | 64.6   | 64.8   | 67.1   | 69.2   | 70.9   | 72.5   | 73.2   | 73.6   |
| 75°    | 58.2   | 58.2   | 58.0   | 56.8   | 56.8   | 58.7   | 60.3   | 61.8   | 63.3   | 64.1   | 65.0   |
| 77.5°  | 49.6   | 49.8   | 49.8   | 48.1   | 47.9   | 49.8   | 51.5   | 52.8   | 53.8   | 54.7   | 55.3   |
| 80°    | 39.7   | 39.3   | 38.9   | 37.8   | 37.4   | 39.7   | 41.8   | 42.9   | 43.7   | 43.9   | 43.9   |
| 82.5°  | 30.5   | 29.6   | 28.6   | 26.3   | 26.5   | 29.0   | 31.3   | 32.2   | 33.0   | 33.0   | 33.0   |
| 85°    | 20.8   | 19.1   | 17.2   | 15.3   | 15.6   | 18.3   | 20.8   | 21.7   | 22.5   | 22.9   | 23.1   |
| 87.5°  | 9.9    | 8.2    | 6.3    | 4.8    | 4.8    | 7.1    | 9.3    | 9.7    | 10.1   | 10.9   | 11.8   |
| 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    |



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**CANDELA DISTRIBUTION (continued):**

|        | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 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):**

|        | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   | 250°   | 255°   | 260°   | 265°   | 270°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 |
| 2.5°   | 1499.4 | 1517.5 | 1536.2 | 1554.9 | 1576.3 | 1597.8 | 1622.8 | 1647.6 | 1668.8 | 1690.1 | 1707.7 |
| 5°     | 1261.4 | 1290.2 | 1324.0 | 1357.9 | 1401.0 | 1444.1 | 1496.8 | 1549.4 | 1596.3 | 1643.2 | 1697.6 |
| 7.5°   | 999.2  | 1036.6 | 1080.7 | 1124.9 | 1180.6 | 1236.3 | 1304.7 | 1373.0 | 1439.2 | 1505.3 | 1588.9 |
| 10°    | 838.1  | 877.4  | 920.9  | 964.3  | 1021.0 | 1077.6 | 1149.9 | 1222.0 | 1296.5 | 1370.7 | 1465.3 |
| 12.5°  | 753.6  | 797.1  | 835.4  | 873.6  | 919.7  | 965.5  | 1035.5 | 1105.6 | 1193.0 | 1280.3 | 1371.3 |
| 15°    | 663.4  | 710.9  | 756.7  | 802.6  | 852.8  | 902.9  | 971.0  | 1039.1 | 1134.8 | 1230.4 | 1335.2 |
| 17.5°  | 554.2  | 604.3  | 660.2  | 715.9  | 781.5  | 846.9  | 934.2  | 1021.4 | 1134.8 | 1247.9 | 1371.3 |
| 20°    | 440.5  | 491.6  | 558.5  | 625.3  | 706.9  | 788.3  | 901.4  | 1014.5 | 1167.2 | 1319.6 | 1477.1 |
| 22.5°  | 347.6  | 392.6  | 465.5  | 538.3  | 632.5  | 726.7  | 871.7  | 1016.6 | 1216.2 | 1415.5 | 1628.1 |
| 25°    | 281.8  | 313.5  | 385.2  | 456.7  | 565.4  | 674.1  | 853.7  | 1033.0 | 1287.4 | 1541.6 | 1805.3 |
| 27.5°  | 241.4  | 262.2  | 329.1  | 395.7  | 514.5  | 633.1  | 846.3  | 1059.3 | 1377.8 | 1696.4 | 1998.1 |
| 30°    | 221.2  | 235.7  | 292.3  | 348.6  | 469.3  | 590.0  | 837.5  | 1084.9 | 1464.9 | 1844.6 | 2148.9 |
| 32.5°  | 204.4  | 215.9  | 264.3  | 312.4  | 430.2  | 547.9  | 820.4  | 1092.7 | 1525.7 | 1958.6 | 2276.5 |
| 35°    | 190.1  | 199.7  | 241.8  | 283.9  | 399.5  | 515.1  | 791.8  | 1068.5 | 1563.7 | 2058.9 | 2409.4 |
| 37.5°  | 178.5  | 186.1  | 225.0  | 263.9  | 373.0  | 482.1  | 759.3  | 1036.4 | 1597.6 | 2158.8 | 2558.9 |
| 40°    | 169.5  | 176.0  | 212.4  | 248.7  | 347.8  | 446.8  | 731.3  | 1015.6 | 1644.2 | 2272.9 | 2716.8 |
| 42.5°  | 164.4  | 172.8  | 201.4  | 229.8  | 323.8  | 417.8  | 708.8  | 999.8  | 1687.6 | 2375.1 | 2854.9 |
| 45°    | 163.2  | 175.1  | 195.8  | 216.4  | 305.9  | 395.5  | 688.8  | 981.9  | 1715.5 | 2449.1 | 2959.0 |
| 47.5°  | 161.1  | 170.9  | 191.3  | 211.7  | 297.1  | 382.3  | 678.1  | 973.7  | 1743.5 | 2513.0 | 3045.4 |
| 50°    | 162.3  | 163.6  | 187.8  | 211.7  | 295.8  | 379.9  | 690.3  | 1000.6 | 1804.0 | 2607.2 | 3144.2 |
| 52.5°  | 160.0  | 154.5  | 181.0  | 207.5  | 295.6  | 383.7  | 725.4  | 1067.1 | 1916.5 | 2765.8 | 3251.3 |
| 55°    | 147.8  | 140.7  | 168.4  | 196.2  | 291.2  | 386.0  | 767.2  | 1148.2 | 2067.5 | 2986.6 | 3443.7 |
| 57.5°  | 137.1  | 130.6  | 154.1  | 177.5  | 277.8  | 378.0  | 810.3  | 1242.4 | 2227.1 | 3211.5 | 3660.4 |
| 60°    | 122.8  | 121.3  | 138.1  | 155.0  | 256.9  | 358.7  | 845.9  | 1332.8 | 2334.3 | 3335.6 | 3743.9 |
| 62.5°  | 111.0  | 111.9  | 124.3  | 136.7  | 230.9  | 324.9  | 857.7  | 1390.2 | 2331.4 | 3272.5 | 3659.8 |
| 65°    | 102.0  | 103.4  | 115.6  | 127.8  | 208.6  | 289.3  | 819.0  | 1348.4 | 2213.4 | 3078.2 | 3493.5 |
| 67.5°  | 93.1   | 94.8   | 109.3  | 123.6  | 188.8  | 253.8  | 722.2  | 1190.5 | 2001.3 | 2811.8 | 3282.0 |
| 70°    | 84.7   | 86.8   | 102.6  | 118.4  | 174.5  | 230.4  | 597.6  | 964.7  | 1735.7 | 2506.5 | 3037.0 |
| 72.5°  | 75.7   | 77.8   | 94.6   | 111.4  | 165.5  | 219.3  | 487.2  | 754.8  | 1408.5 | 2062.0 | 2597.8 |
| 75°    | 66.4   | 67.9   | 86.2   | 104.3  | 153.1  | 201.9  | 382.3  | 562.4  | 1078.0 | 1593.6 | 1962.2 |
| 77.5°  | 57.2   | 59.1   | 74.4   | 89.6   | 129.9  | 170.1  | 288.1  | 406.0  | 791.0  | 1175.8 | 1364.6 |
| 80°    | 45.6   | 47.3   | 58.2   | 69.0   | 100.3  | 131.4  | 198.1  | 264.7  | 544.4  | 824.0  | 930.4  |
| 82.5°  | 34.9   | 36.8   | 44.2   | 51.3   | 71.5   | 91.7   | 120.1  | 148.4  | 361.6  | 574.6  | 583.5  |
| 85°    | 24.0   | 24.6   | 29.9   | 34.9   | 44.2   | 53.4   | 68.8   | 84.1   | 239.3  | 394.5  | 328.6  |
| 87.5°  | 12.0   | 12.0   | 15.6   | 19.1   | 23.8   | 28.4   | 36.4   | 44.2   | 76.5   | 108.9  | 62.7   |
| 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    |



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**CANDELA DISTRIBUTION (continued):**

|        | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 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  |



REPORT NUMBER: P320715

CATALOG NUMBER: GLEON-SA1B-760-U-SLR

**CANDELA DISTRIBUTION (continued):**

|        | 275°   | 280°   | 285°   | 290°   | 295°   | 300°   | 305°   | 310°   | 315°   | 320°   | 325°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 |
| 2.5°   | 1730.2 | 1745.6 | 1761.1 | 1772.9 | 1784.9 | 1802.1 | 1819.4 | 1822.5 | 1825.9 | 1819.2 | 1812.5 |
| 5°     | 1752.5 | 1799.0 | 1845.7 | 1888.8 | 1931.9 | 1957.7 | 1983.6 | 1988.9 | 1994.1 | 1977.9 | 1961.5 |
| 7.5°   | 1669.9 | 1750.8 | 1831.8 | 1906.0 | 1980.2 | 2025.2 | 2070.4 | 2080.5 | 2090.8 | 2064.3 | 2037.9 |
| 10°    | 1559.5 | 1659.0 | 1758.4 | 1856.2 | 1954.0 | 2019.3 | 2084.7 | 2097.8 | 2110.8 | 2077.8 | 2044.8 |
| 12.5°  | 1474.1 | 1580.3 | 1686.5 | 1789.5 | 1892.8 | 1960.5 | 2028.2 | 2044.4 | 2060.6 | 2036.6 | 2012.4 |
| 15°    | 1447.9 | 1547.7 | 1647.6 | 1737.4 | 1827.4 | 1882.7 | 1938.2 | 1944.7 | 1951.4 | 1947.7 | 1943.9 |
| 17.5°  | 1495.6 | 1585.8 | 1676.2 | 1725.0 | 1774.0 | 1796.1 | 1818.3 | 1825.5 | 1832.8 | 1842.3 | 1852.0 |
| 20°    | 1611.2 | 1674.7 | 1738.4 | 1736.3 | 1734.0 | 1723.3 | 1712.4 | 1710.5 | 1708.6 | 1735.7 | 1763.0 |
| 22.5°  | 1783.9 | 1809.1 | 1834.5 | 1775.4 | 1716.4 | 1680.4 | 1644.2 | 1637.1 | 1629.7 | 1658.5 | 1687.6 |
| 25°    | 1971.2 | 1966.6 | 1961.7 | 1849.2 | 1736.5 | 1668.0 | 1599.5 | 1591.5 | 1583.5 | 1608.1 | 1632.9 |
| 27.5°  | 2156.6 | 2126.4 | 2096.1 | 1943.2 | 1790.4 | 1690.9 | 1591.5 | 1583.5 | 1575.5 | 1597.4 | 1619.2 |
| 30°    | 2292.7 | 2244.1 | 2195.5 | 2022.5 | 1849.5 | 1731.3 | 1613.1 | 1600.1 | 1586.8 | 1613.8 | 1640.7 |
| 32.5°  | 2398.9 | 2333.7 | 2268.5 | 2086.8 | 1905.2 | 1777.3 | 1649.5 | 1629.1 | 1608.7 | 1644.7 | 1680.6 |
| 35°    | 2504.8 | 2413.2 | 2321.3 | 2144.2 | 1967.0 | 1831.8 | 1696.4 | 1671.4 | 1646.3 | 1695.8 | 1745.2 |
| 37.5°  | 2638.1 | 2506.5 | 2374.7 | 2208.8 | 2042.9 | 1913.4 | 1783.6 | 1758.0 | 1732.3 | 1795.2 | 1858.3 |
| 40°    | 2782.8 | 2607.2 | 2431.7 | 2279.4 | 2127.2 | 2026.3 | 1925.2 | 1900.8 | 1876.2 | 1952.7 | 2029.2 |
| 42.5°  | 2903.1 | 2701.0 | 2499.0 | 2364.6 | 2230.0 | 2159.0 | 2087.7 | 2087.5 | 2087.1 | 2164.6 | 2242.2 |
| 45°    | 3000.8 | 2779.2 | 2557.4 | 2447.7 | 2337.7 | 2300.7 | 2263.7 | 2293.3 | 2323.0 | 2393.0 | 2463.2 |
| 47.5°  | 3073.8 | 2844.8 | 2615.7 | 2542.7 | 2469.7 | 2475.2 | 2480.7 | 2541.0 | 2601.4 | 2646.3 | 2691.6 |
| 50°    | 3121.3 | 2904.3 | 2687.1 | 2664.6 | 2642.1 | 2691.1 | 2740.3 | 2809.5 | 2878.9 | 2909.6 | 2940.3 |
| 52.5°  | 3190.5 | 2985.1 | 2779.4 | 2804.7 | 2829.9 | 2930.0 | 3030.1 | 3100.1 | 3170.1 | 3181.5 | 3193.0 |
| 55°    | 3350.5 | 3133.5 | 2916.3 | 2964.7 | 3013.3 | 3160.0 | 3307.0 | 3361.7 | 3416.3 | 3420.5 | 3424.7 |
| 57.5°  | 3577.8 | 3341.5 | 3105.1 | 3157.3 | 3209.4 | 3378.9 | 3548.6 | 3607.5 | 3666.5 | 3658.3 | 3649.9 |
| 60°    | 3747.9 | 3538.9 | 3329.7 | 3382.3 | 3434.8 | 3600.1 | 3765.4 | 3833.1 | 3901.0 | 3882.9 | 3864.8 |
| 62.5°  | 3758.4 | 3646.8 | 3534.9 | 3582.4 | 3630.2 | 3792.1 | 3954.0 | 4023.6 | 4093.2 | 4061.6 | 4030.1 |
| 65°    | 3591.3 | 3641.3 | 3691.3 | 3707.1 | 3722.9 | 3873.9 | 4025.0 | 4078.2 | 4131.6 | 4115.7 | 4099.7 |
| 67.5°  | 3361.0 | 3545.4 | 3730.0 | 3698.3 | 3666.5 | 3737.4 | 3808.3 | 3863.1 | 3918.0 | 3909.0 | 3899.7 |
| 70°    | 3131.2 | 3377.4 | 3623.6 | 3467.6 | 3311.4 | 3282.2 | 3253.0 | 3312.0 | 3371.3 | 3334.7 | 3297.9 |
| 72.5°  | 2739.9 | 3002.3 | 3264.9 | 2977.5 | 2690.1 | 2590.2 | 2490.3 | 2565.4 | 2640.5 | 2582.2 | 2523.8 |
| 75°    | 2150.8 | 2440.7 | 2730.9 | 2387.9 | 2045.0 | 1911.7 | 1778.4 | 1842.9 | 1907.5 | 1867.5 | 1827.4 |
| 77.5°  | 1601.1 | 1886.9 | 2172.6 | 1824.0 | 1475.2 | 1376.2 | 1276.9 | 1296.1 | 1315.4 | 1308.7 | 1301.7 |
| 80°    | 1086.0 | 1285.1 | 1484.4 | 1252.3 | 1020.2 | 1027.8 | 1035.5 | 1026.5 | 1017.2 | 1030.7 | 1044.2 |
| 82.5°  | 693.0  | 846.7  | 1000.6 | 877.4  | 754.2  | 824.9  | 895.5  | 860.8  | 825.9  | 838.7  | 851.8  |
| 85°    | 395.5  | 545.8  | 696.4  | 649.1  | 601.6  | 642.8  | 684.2  | 630.4  | 576.5  | 600.1  | 623.8  |
| 87.5°  | 104.3  | 301.9  | 499.8  | 453.7  | 407.7  | 354.3  | 300.9  | 229.6  | 158.3  | 231.3  | 304.2  |
| 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    |



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 CATALOG NUMBER: GLEON-SA1B-760-U-SLR

**CANDELA DISTRIBUTION (continued):**

|        | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 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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CATALOG NUMBER: GLEON-SA1B-760-U-SLR

**CANDELA DISTRIBUTION (continued):**

|        | 330°   | 335°   | 340°   | 345°   | 350°   | 355°   | 360°   |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 | 1602.2 |
| 2.5°   | 1808.9 | 1805.3 | 1792.5 | 1779.4 | 1760.1 | 1744.1 | 1716.4 |
| 5°     | 1938.8 | 1916.1 | 1877.0 | 1837.7 | 1793.9 | 1743.7 | 1688.0 |
| 7.5°   | 1984.9 | 1931.7 | 1856.6 | 1781.3 | 1713.6 | 1634.2 | 1560.1 |
| 10°    | 1965.3 | 1885.6 | 1788.1 | 1690.3 | 1608.1 | 1516.6 | 1434.4 |
| 12.5°  | 1927.9 | 1843.2 | 1735.7 | 1628.1 | 1534.5 | 1436.3 | 1344.2 |
| 15°    | 1876.4 | 1808.7 | 1708.0 | 1607.2 | 1513.0 | 1417.6 | 1308.5 |
| 17.5°  | 1820.0 | 1787.9 | 1715.1 | 1642.1 | 1560.6 | 1468.0 | 1340.0 |
| 20°    | 1774.6 | 1786.4 | 1757.4 | 1728.3 | 1663.0 | 1582.2 | 1438.4 |
| 22.5°  | 1743.9 | 1800.5 | 1822.8 | 1845.3 | 1805.9 | 1742.9 | 1576.5 |
| 25°    | 1726.7 | 1820.4 | 1895.1 | 1969.9 | 1952.5 | 1903.9 | 1744.3 |
| 27.5°  | 1734.2 | 1849.2 | 1965.1 | 2081.2 | 2097.4 | 2083.9 | 1921.2 |
| 30°    | 1756.9 | 1873.4 | 2014.5 | 2155.8 | 2220.4 | 2238.4 | 2068.6 |
| 32.5°  | 1794.8 | 1909.0 | 2062.7 | 2216.6 | 2314.1 | 2371.7 | 2203.3 |
| 35°    | 1852.0 | 1958.8 | 2119.0 | 2279.2 | 2405.4 | 2510.5 | 2342.5 |
| 37.5°  | 1950.2 | 2042.1 | 2189.9 | 2337.9 | 2501.5 | 2659.4 | 2495.8 |
| 40°    | 2094.0 | 2159.0 | 2283.9 | 2409.0 | 2614.8 | 2828.0 | 2666.7 |
| 42.5°  | 2275.4 | 2308.9 | 2407.9 | 2506.9 | 2733.2 | 2981.1 | 2833.9 |
| 45°    | 2472.0 | 2480.9 | 2543.1 | 2605.6 | 2827.0 | 3085.4 | 2959.4 |
| 47.5°  | 2661.3 | 2631.0 | 2655.8 | 2680.6 | 2898.9 | 3159.8 | 3054.7 |
| 50°    | 2856.0 | 2771.7 | 2758.6 | 2745.6 | 2970.8 | 3247.5 | 3175.8 |
| 52.5°  | 3054.0 | 2915.1 | 2863.5 | 2811.8 | 3056.6 | 3363.8 | 3326.5 |
| 55°    | 3247.9 | 3071.1 | 3001.7 | 2932.3 | 3187.8 | 3505.7 | 3547.9 |
| 57.5°  | 3449.5 | 3249.2 | 3184.8 | 3120.5 | 3380.6 | 3685.5 | 3746.6 |
| 60°    | 3666.5 | 3468.0 | 3416.5 | 3364.8 | 3620.3 | 3879.7 | 3835.2 |
| 62.5°  | 3872.4 | 3714.7 | 3687.6 | 3660.2 | 3862.7 | 4029.0 | 3800.7 |
| 65°    | 4009.9 | 3919.9 | 3945.1 | 3970.6 | 4046.1 | 4066.2 | 3699.8 |
| 67.5°  | 3918.0 | 3936.3 | 4042.9 | 4149.7 | 4097.8 | 3955.6 | 3500.8 |
| 70°    | 3407.5 | 3517.3 | 3769.8 | 4022.5 | 3907.3 | 3659.4 | 3143.8 |
| 72.5°  | 2647.0 | 2770.4 | 3145.3 | 3520.4 | 3414.2 | 3110.6 | 2582.2 |
| 75°    | 1966.6 | 2106.0 | 2519.8 | 2933.6 | 2786.2 | 2326.8 | 1848.8 |
| 77.5°  | 1395.1 | 1488.4 | 1897.0 | 2305.7 | 2065.4 | 1548.8 | 1244.1 |
| 80°    | 1015.6 | 987.0  | 1214.7 | 1442.4 | 1402.4 | 1024.4 | 799.0  |
| 82.5°  | 782.0  | 712.2  | 819.4  | 926.6  | 920.7  | 710.9  | 586.2  |
| 85°    | 595.9  | 567.9  | 662.7  | 757.6  | 676.4  | 481.5  | 372.6  |
| 87.5°  | 347.4  | 390.7  | 502.3  | 614.2  | 460.9  | 146.1  | 72.3   |
| 90°    | 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    |
| 95°    | 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    |
| 100°   | 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    |
| 105°   | 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    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P320715  
 CATALOG NUMBER: GLEON-SA1B-760-U-SLR

**CANDELA DISTRIBUTION (continued):**

|        | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|--------|------|------|------|------|------|------|------|
| 112.5° | 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  |
| 117.5° | 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  |
| 122.5° | 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  |
| 127.5° | 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  |
| 132.5° | 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  |
| 137.5° | 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  |
| 142.5° | 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  |
| 147.5° | 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  |
| 152.5° | 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  |
| 157.5° | 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  |
| 162.5° | 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  |
| 167.5° | 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  |
| 172.5° | 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  |
| 177.5° | 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  |

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 .

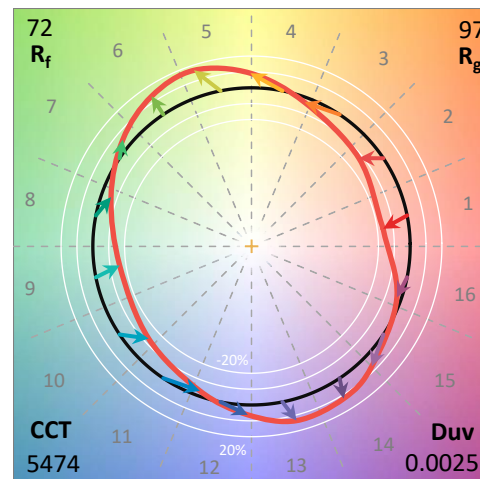
### Test Information

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

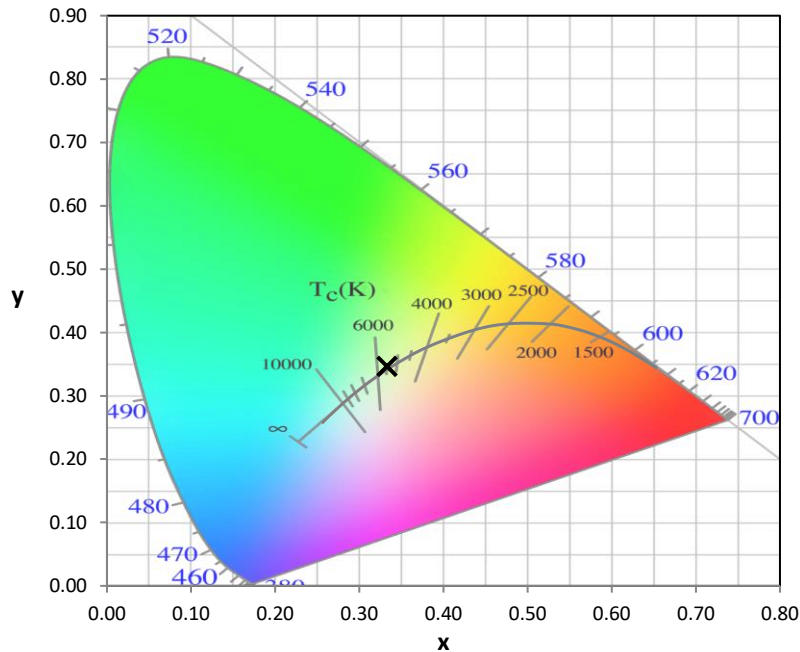
Stabilization Time: 240M  
 Operation Time: 12H  
 Room Temperature (°C) / RH%: 24.6/31%  
 Sphere Temperature (°C): 25.9

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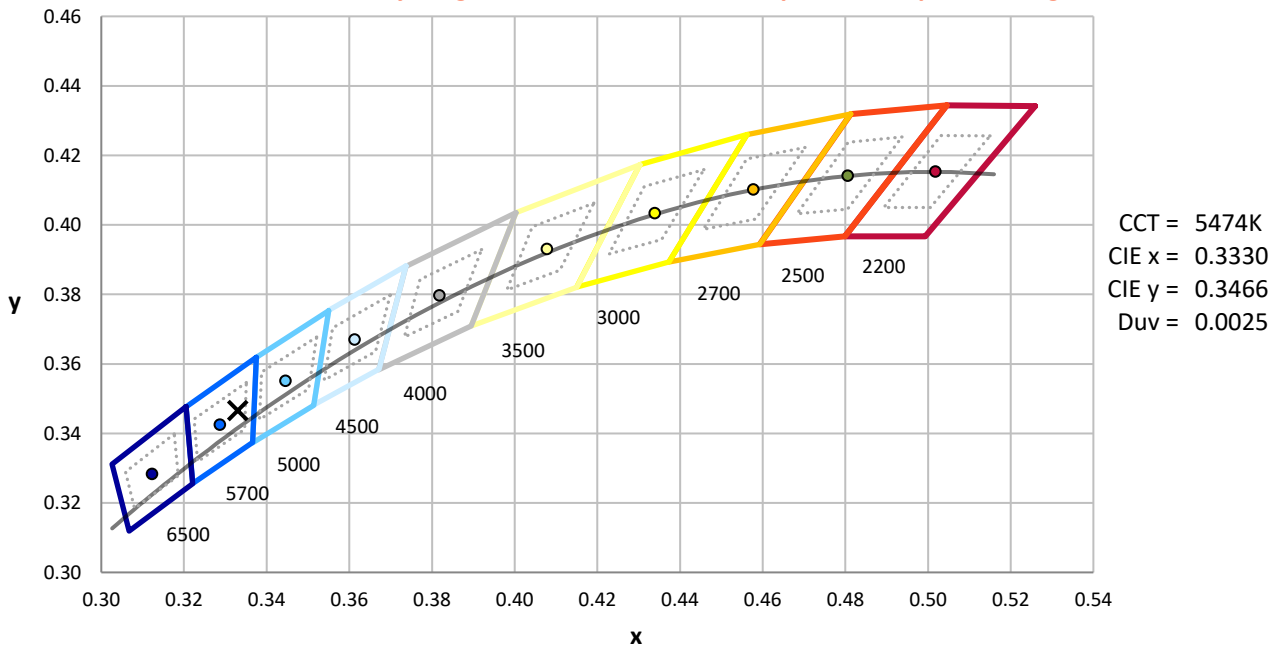
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date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

CIE 1931 Chromaticity Diagram



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

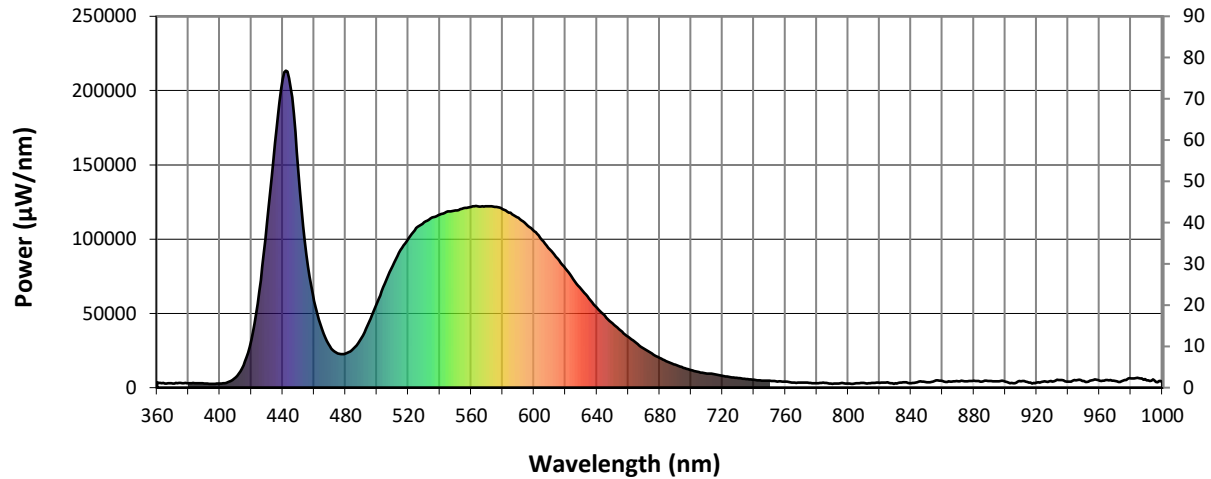


Point lies inside the ANSI 5700K 4-step quadrangle



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

**Photopic Flux vs. Wavelength**

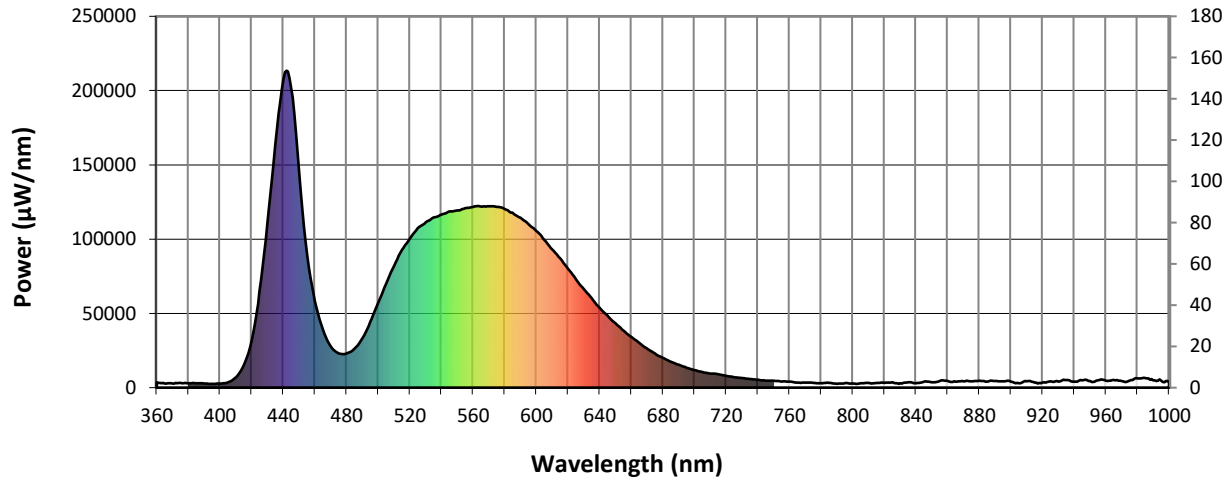


#####

| 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



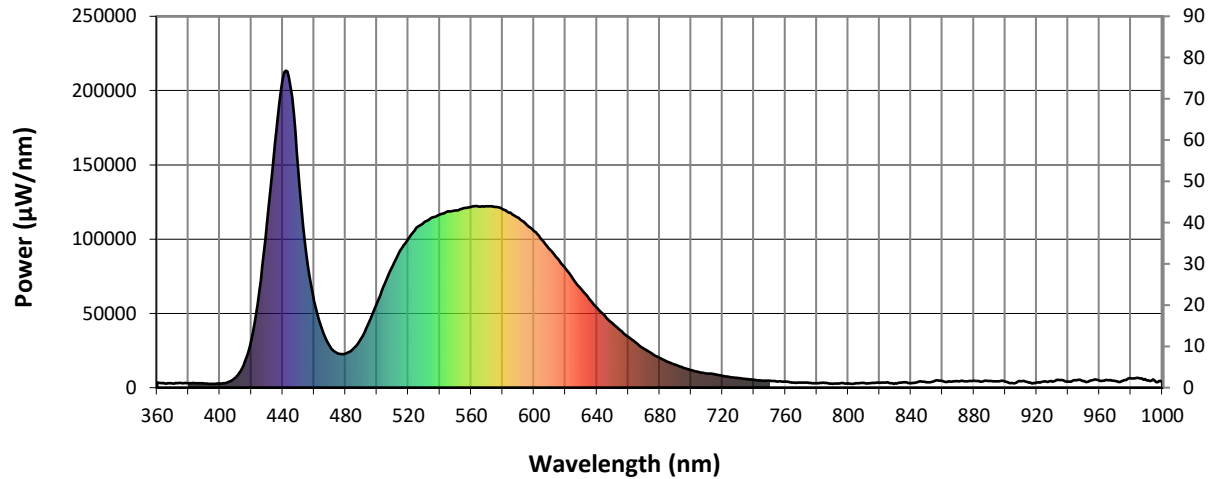
Scotopic Lumens: 13759.3

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               |           |                  |                  |

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

**Melanopic Flux vs. Wavelength**



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

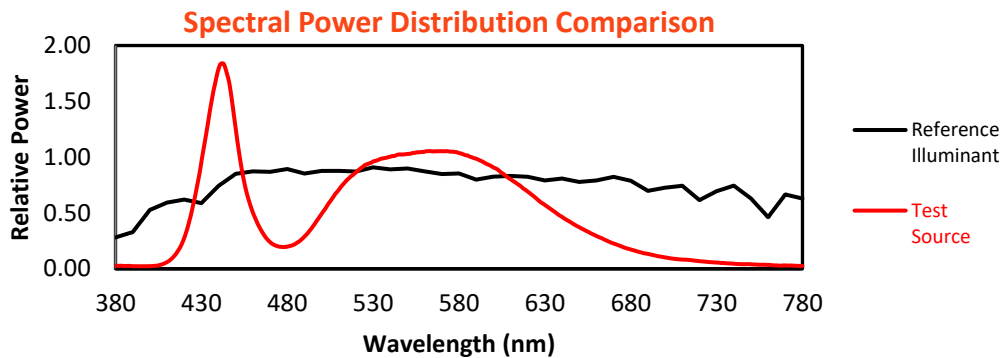
| λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(φ/nm) |
|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|
| 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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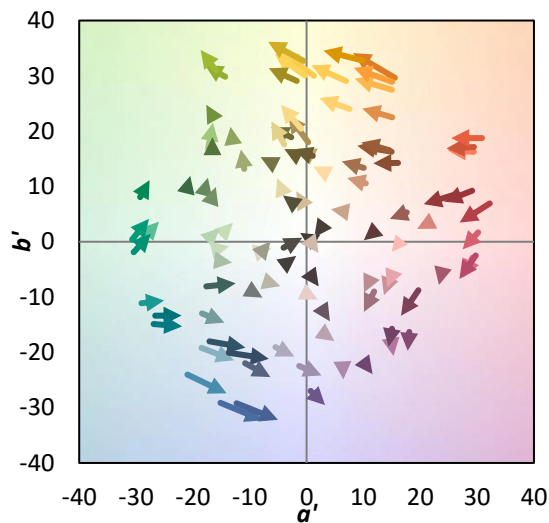
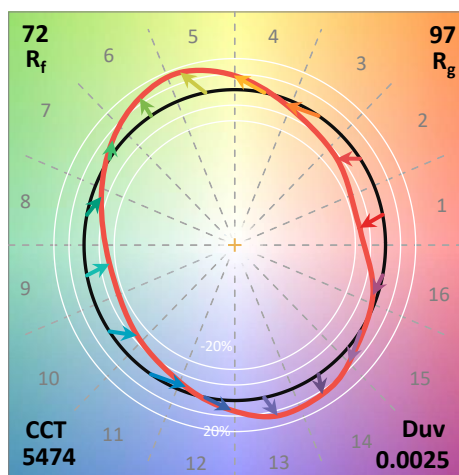
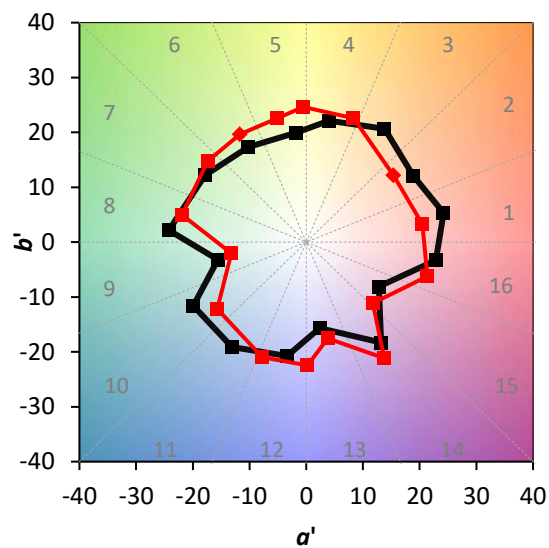
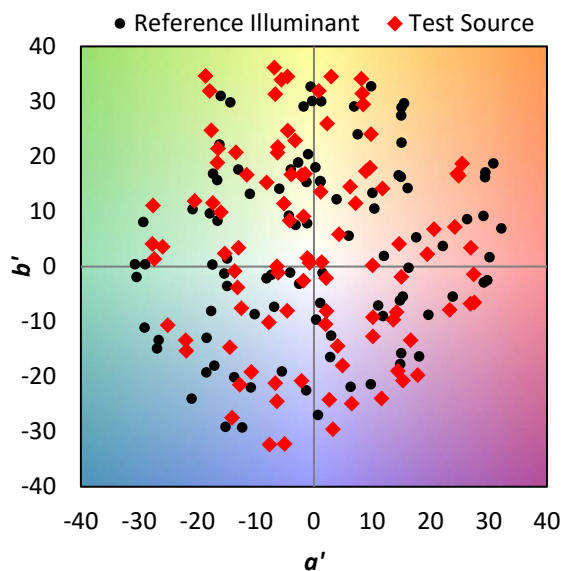
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**Summary**

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



**Color Vector Graphics**

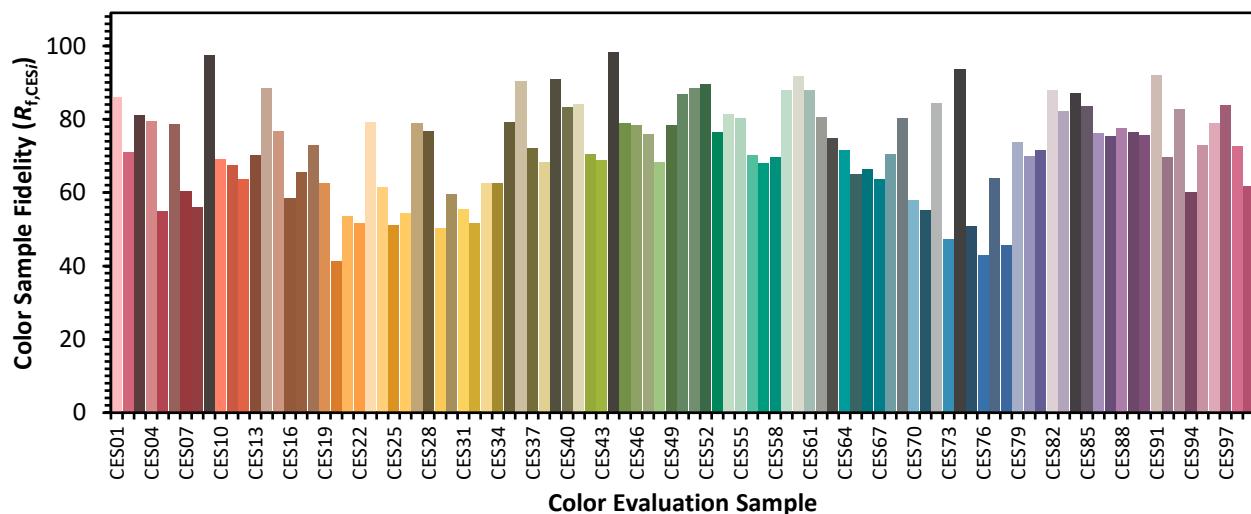


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**Individual Sample Fidelity Index ( $R_{f,i}$ )**

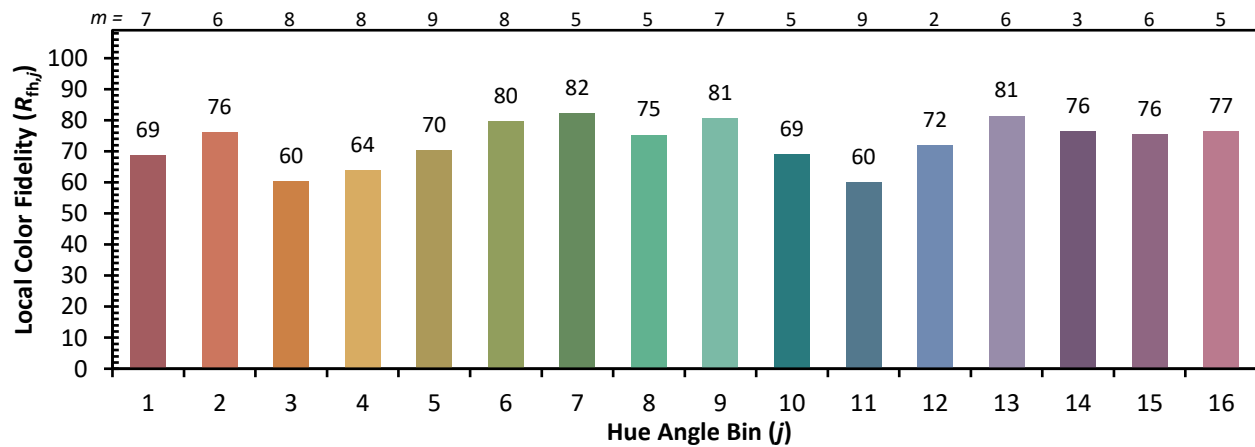
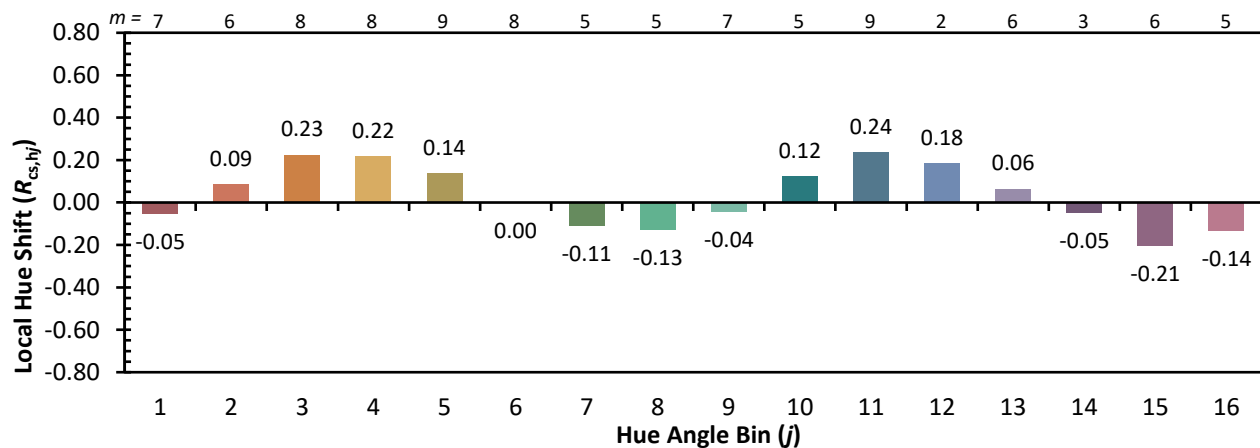
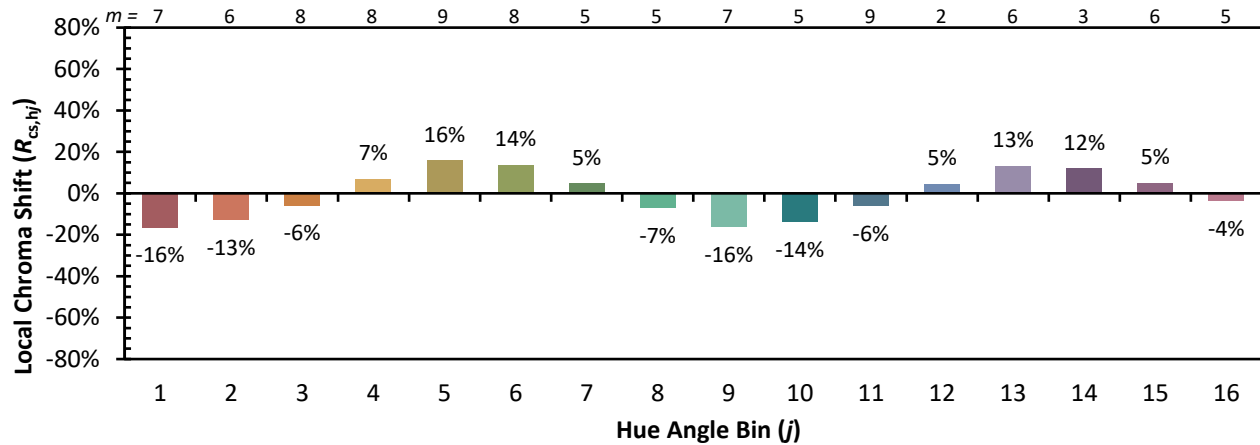
|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 85 | CES26 = 54 | CES51 = 88 | CES76 = 43 |
| CES02 = 59 | CES27 = 79 | CES52 = 90 | CES77 = 64 |
| CES03 = 30 | CES28 = 77 | CES53 = 77 | CES78 = 46 |
| CES04 = 69 | CES29 = 50 | CES54 = 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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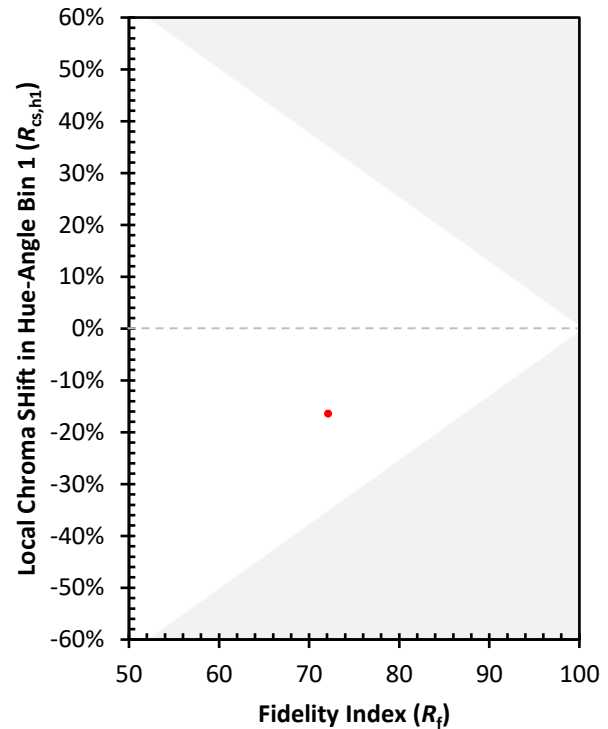
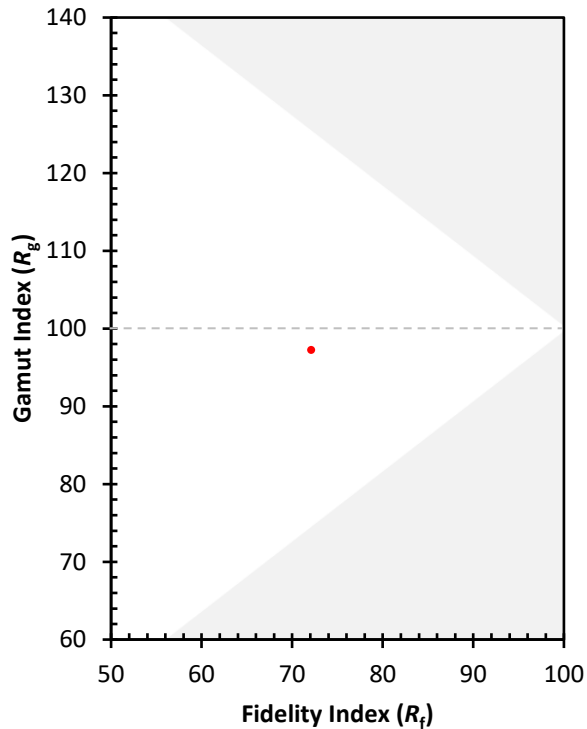
Color Rendition by Hue-Angle Bin



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**Measure Comparisons**



(END OF REPORT)