

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: P320592

Luminaire Tested: **GLEON-SA8A-730-U-SLR**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320592  
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-SA8A-730-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29891 lumens  
Efficiency: N/A  
Efficacy: 116.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

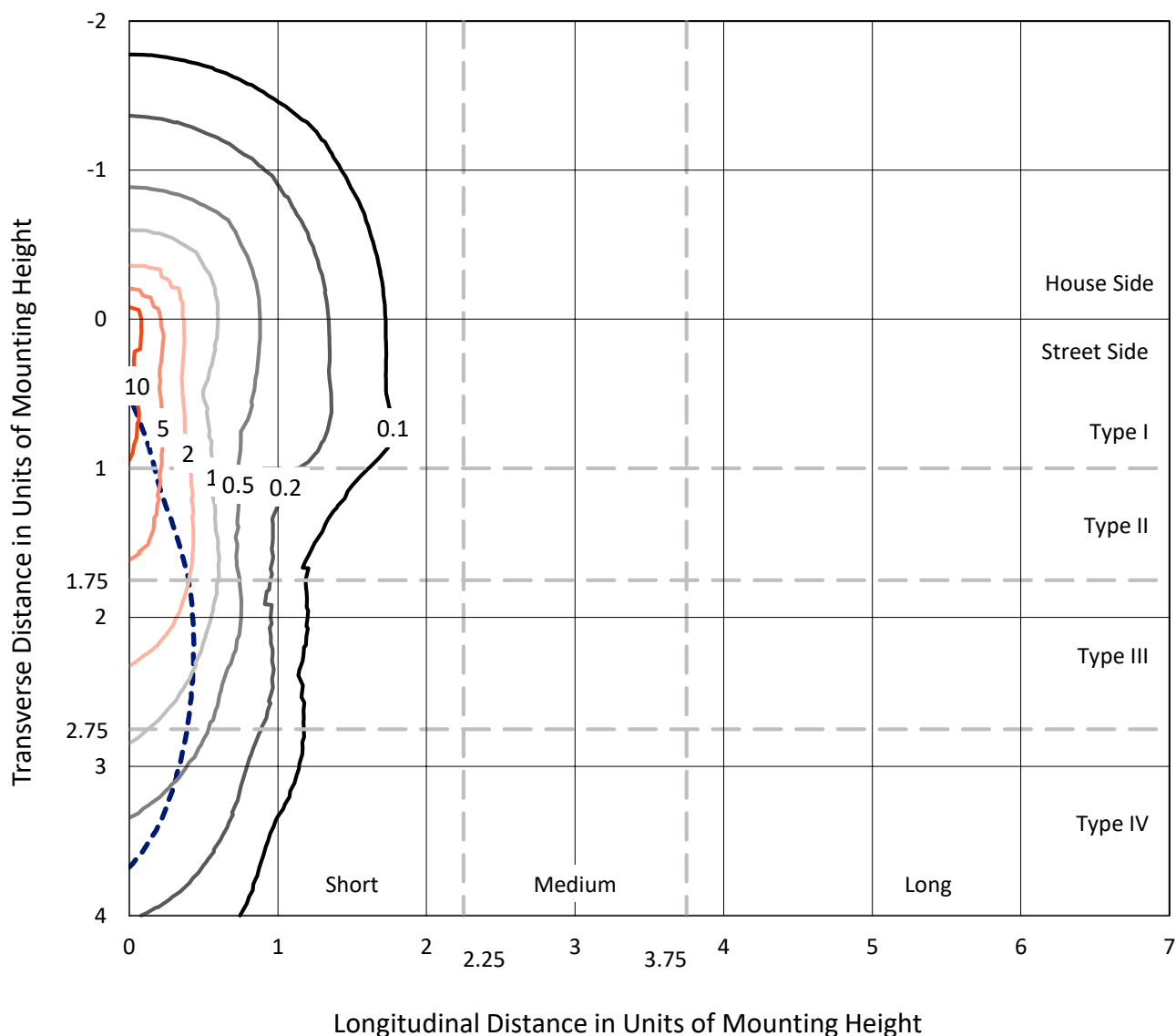
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

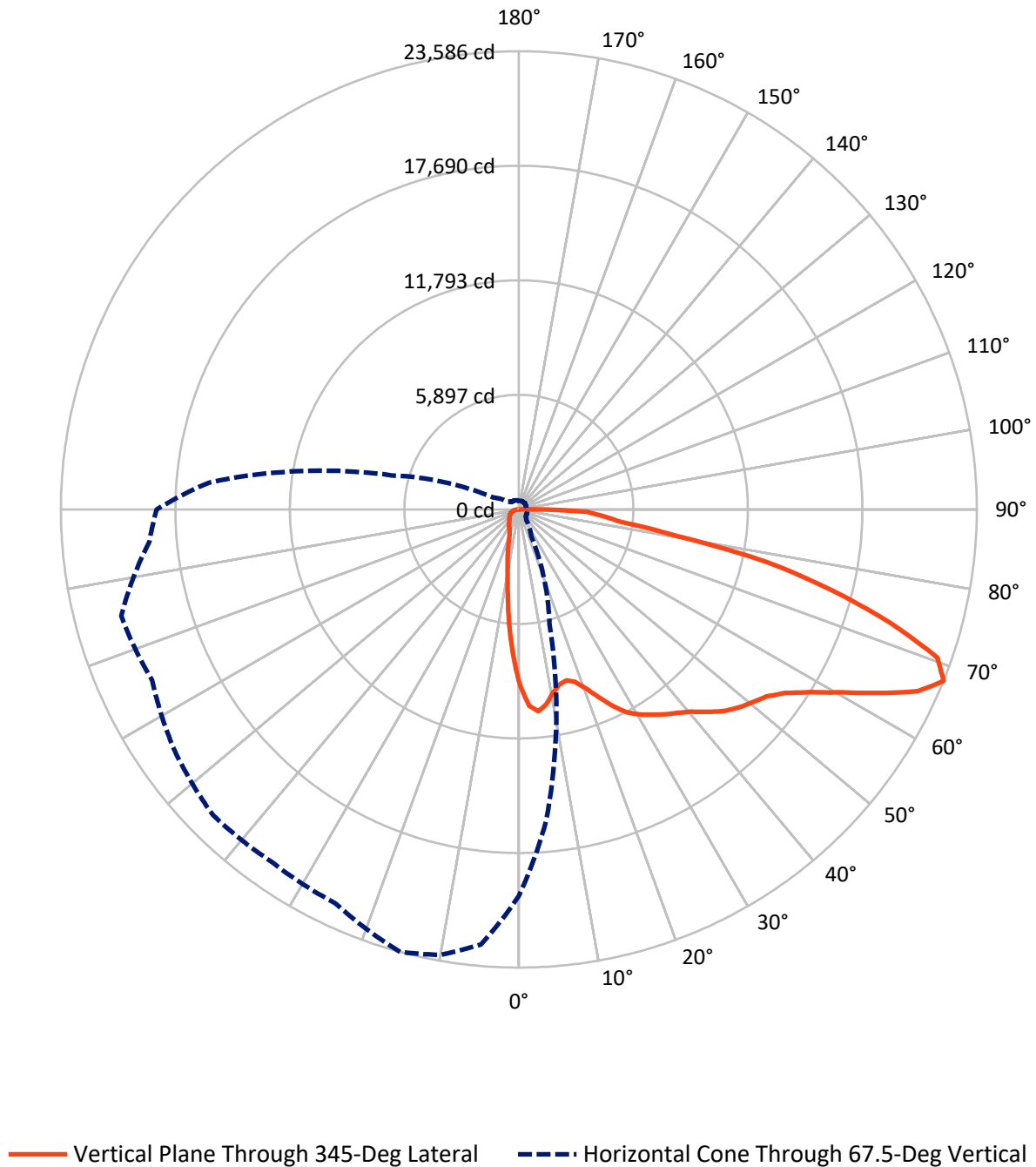
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 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    | 5167.5   | 0.0    | 5167.5  |
|                    | % Fixture | 17.3     | 0.0    | 17.3    |
| <b>Street Side</b> | Lumens    | 24723.5  | 0.0    | 24723.5 |
|                    | % Fixture | 82.7     | 0.0    | 82.7    |
| <b>Total</b>       | Lumens    | 29891.0  | 0.0    | 29891.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 702.8   | 2.4       |
| 10°-20°   | 1460.0  | 4.9       |
| 20°-30°   | 2076.5  | 6.9       |
| 30°-40°   | 2992.2  | 10.0      |
| 40°-50°   | 4216.9  | 14.1      |
| 50°-60°   | 5862.2  | 19.6      |
| 60°-70°   | 7089.1  | 23.7      |
| 70°-80°   | 4357.5  | 14.6      |
| 80°-90°   | 1133.9  | 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°    | 29891.0 | 100.0     |
| 0°-180°   | 29891.0 | 100.0     |

**Coefficient of Utilization**



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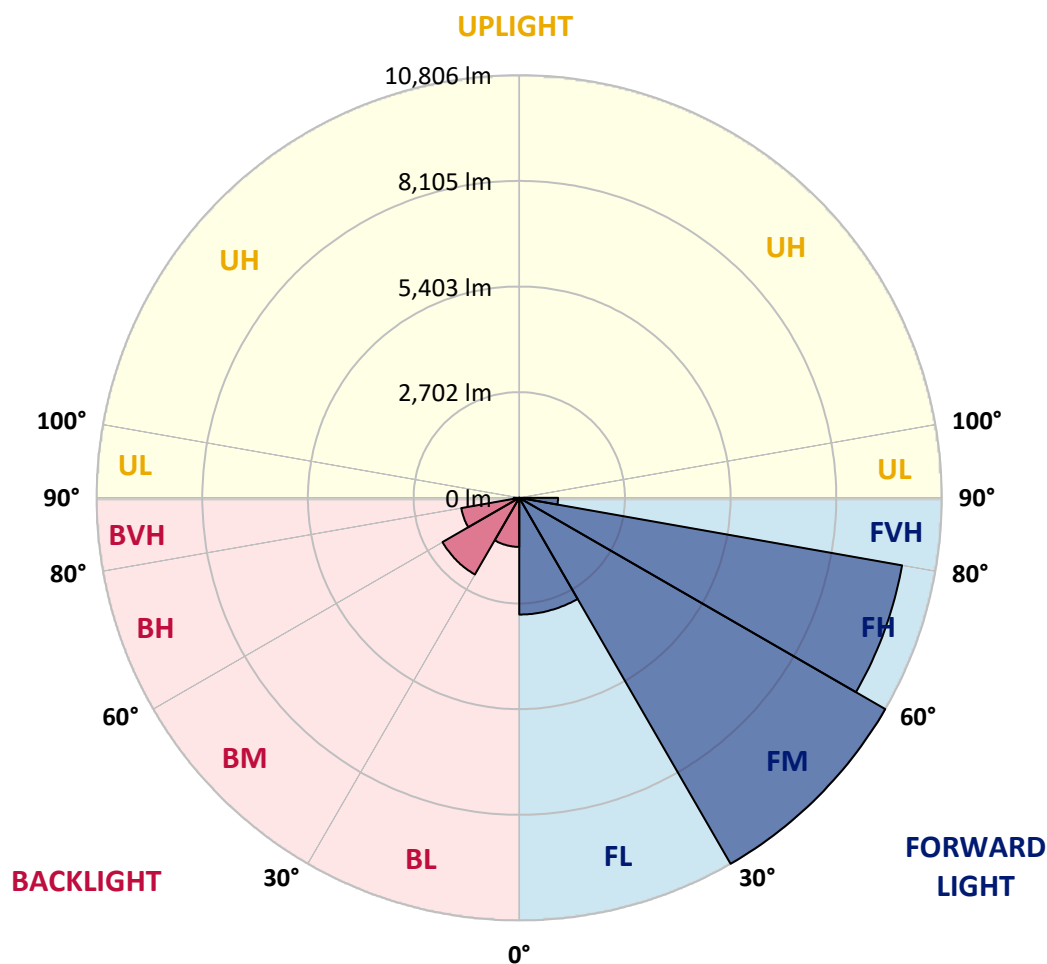
CATALOG NUMBER: GLEON-SA8A-730-U-SLR

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2984.7  | 10.0      |                         |      |          |
| FM   | (30°-60°)   | 10806.3 | 36.2      |                         |      |          |
| FH   | (60°-80°)   | 9940.7  | 33.3      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 991.7   | 3.3       |                         |      | G5       |
| BL   | (0°-30°)    | 1254.6  | 4.2       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2264.8  | 7.6       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1505.9  | 5.0       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 142.1   | 0.5       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G5**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°      | 5°      | 10°     | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 9106.5  | 9106.5  | 9106.5  | 9106.5 | 9106.5 | 9106.5 | 9106.5 | 9106.5 | 9106.5 | 9106.5 | 9106.5 |
| 2.5°   | 9755.4  | 9669.4  | 9539.1  | 9408.9 | 9312.1 | 9214.1 | 9102.9 | 8991.8 | 8865.1 | 8737.2 | 8661.9 |
| 5°     | 9594.1  | 9355.1  | 9044.4  | 8733.6 | 8528.1 | 8322.5 | 8089.5 | 7856.4 | 7625.8 | 7395.1 | 7270.9 |
| 7.5°   | 8867.5  | 8509.0  | 8105.0  | 7701.1 | 7402.3 | 7102.4 | 6779.7 | 6455.8 | 6169.0 | 5881.0 | 5702.9 |
| 10°    | 8152.8  | 7722.6  | 7258.9  | 6794.0 | 6411.6 | 6029.2 | 5705.3 | 5380.2 | 5163.9 | 4947.6 | 4783.9 |
| 12.5°  | 7640.1  | 7163.3  | 6653.0  | 6141.5 | 5759.1 | 5376.7 | 5171.1 | 4965.6 | 4786.3 | 4607.0 | 4418.2 |
| 15°    | 7437.0  | 6898.0  | 6375.7  | 5852.3 | 5504.5 | 5156.8 | 4928.5 | 4699.0 | 4458.8 | 4217.4 | 3985.6 |
| 17.5°  | 7616.2  | 6985.2  | 6417.6  | 5849.9 | 5394.6 | 4939.3 | 4620.2 | 4299.9 | 3983.2 | 3666.5 | 3397.6 |
| 20°    | 8175.5  | 7370.1  | 6627.9  | 5884.6 | 5278.7 | 4672.8 | 4244.9 | 3815.9 | 3409.6 | 3003.2 | 2698.5 |
| 22.5°  | 8960.7  | 7894.7  | 6925.5  | 5956.3 | 5173.5 | 4389.5 | 3852.9 | 3315.1 | 2834.7 | 2354.3 | 2055.5 |
| 25°    | 9914.4  | 8590.2  | 7354.5  | 6117.6 | 5130.5 | 4142.1 | 3482.5 | 2822.8 | 2316.1 | 1808.2 | 1595.4 |
| 27.5°  | 10919.4 | 9419.6  | 7887.5  | 6354.2 | 5137.6 | 3921.1 | 3170.5 | 2418.8 | 1962.3 | 1505.8 | 1360.0 |
| 30°    | 11757.2 | 10367.3 | 8509.0  | 6649.4 | 5165.1 | 3680.8 | 2876.6 | 2072.3 | 1695.8 | 1319.4 | 1225.0 |
| 32.5°  | 12523.2 | 11028.2 | 8977.4  | 6925.5 | 5196.2 | 3465.7 | 2649.5 | 1832.1 | 1524.9 | 1216.6 | 1138.9 |
| 35°    | 13314.4 | 11615.0 | 9304.9  | 6993.6 | 5142.4 | 3290.1 | 2494.1 | 1698.2 | 1415.0 | 1130.5 | 1064.8 |
| 37.5°  | 14185.6 | 12249.6 | 9620.4  | 6990.0 | 5051.6 | 3113.2 | 2373.4 | 1632.5 | 1343.3 | 1052.9 | 1005.1 |
| 40°    | 15157.2 | 12951.1 | 9962.2  | 6973.3 | 4969.1 | 2963.8 | 2283.8 | 1602.6 | 1303.8 | 1003.9 | 963.2  |
| 42.5°  | 16107.3 | 13620.3 | 10280.1 | 6939.8 | 4902.2 | 2863.4 | 2195.4 | 1527.3 | 1268.0 | 1007.5 | 950.1  |
| 45°    | 16820.7 | 14204.7 | 10556.1 | 6906.4 | 4852.0 | 2797.7 | 2126.0 | 1454.4 | 1234.5 | 1014.6 | 941.7  |
| 47.5°  | 17362.1 | 14791.5 | 10862.1 | 6931.5 | 4847.2 | 2763.0 | 2077.0 | 1391.1 | 1171.2 | 950.1  | 920.2  |
| 50°    | 18050.5 | 15496.6 | 11307.8 | 7119.1 | 4913.0 | 2706.9 | 2019.7 | 1331.3 | 1110.2 | 889.1  | 929.8  |
| 52.5°  | 18907.3 | 16502.8 | 11998.6 | 7493.1 | 5050.4 | 2607.7 | 1928.9 | 1250.1 | 1036.1 | 821.0  | 884.4  |
| 55°    | 20165.8 | 17792.3 | 12881.8 | 7970.0 | 5216.5 | 2461.9 | 1791.4 | 1119.8 | 938.1  | 755.3  | 811.5  |
| 57.5°  | 21295.1 | 19095.0 | 13729.1 | 8362.0 | 5320.5 | 2277.8 | 1618.1 | 958.5  | 828.2  | 697.9  | 730.2  |
| 60°    | 21798.2 | 19766.6 | 14125.8 | 8483.9 | 5258.3 | 2032.8 | 1423.3 | 812.7  | 731.4  | 650.1  | 644.1  |
| 62.5°  | 21602.2 | 19340.0 | 13735.0 | 8130.1 | 4954.8 | 1779.5 | 1251.2 | 723.0  | 662.1  | 599.9  | 586.8  |
| 65°    | 21028.6 | 17999.1 | 12640.3 | 7281.6 | 4442.1 | 1602.6 | 1142.5 | 682.4  | 614.3  | 546.2  | 531.8  |
| 67.5°  | 19898.1 | 16090.5 | 11089.1 | 6087.7 | 3790.8 | 1493.8 | 1080.4 | 666.9  | 584.4  | 500.7  | 484.0  |
| 70°    | 17868.8 | 13793.6 | 9302.5  | 4810.2 | 3119.2 | 1426.9 | 1039.7 | 652.5  | 552.1  | 450.5  | 435.0  |
| 72.5°  | 14676.8 | 11059.3 | 7428.6  | 3796.8 | 2607.7 | 1418.6 | 1034.9 | 651.3  | 525.8  | 400.4  | 386.0  |
| 75°    | 10508.3 | 8400.2  | 5670.6  | 2939.9 | 2135.6 | 1331.3 | 982.4  | 633.4  | 490.0  | 345.4  | 332.2  |
| 77.5°  | 7071.3  | 5814.1  | 3941.4  | 2067.5 | 1584.7 | 1101.9 | 825.8  | 549.7  | 419.5  | 289.2  | 276.1  |
| 80°    | 4541.3  | 4023.8  | 2641.1  | 1258.4 | 1027.8 | 797.1  | 590.4  | 383.6  | 305.9  | 227.1  | 216.3  |
| 82.5°  | 3331.9  | 2994.9  | 1835.6  | 676.4  | 571.2  | 464.9  | 360.9  | 256.9  | 209.1  | 161.3  | 156.6  |
| 85°    | 2117.7  | 2335.2  | 1351.6  | 368.1  | 301.2  | 234.2  | 193.6  | 153.0  | 120.7  | 88.4   | 88.4   |
| 87.5°  | 411.1   | 568.9   | 374.1   | 178.1  | 130.3  | 82.5   | 70.5   | 57.4   | 32.3   | 6.0    | 7.2    |
| 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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**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°     | 9106.5 | 9106.5 | 9106.5 | 9106.5 | 9106.5 | 9106.5 | 9106.5 | 9106.5 | 9106.5 | 9106.5 | 9106.5 |
| 2.5°   | 8585.4 | 8503.0 | 8420.5 | 8327.3 | 8232.9 | 8145.7 | 8057.2 | 7960.4 | 7978.3 | 7904.3 | 7830.2 |
| 5°     | 7146.6 | 7015.1 | 6882.5 | 6767.7 | 6653.0 | 6553.8 | 6453.4 | 6363.8 | 6441.5 | 6388.9 | 6336.3 |
| 7.5°   | 5523.7 | 5361.1 | 5197.4 | 5060.0 | 4922.5 | 4816.2 | 4708.6 | 4634.5 | 4711.0 | 4701.4 | 4691.9 |
| 10°    | 4620.2 | 4462.4 | 4303.5 | 4151.7 | 3999.9 | 3870.9 | 3740.6 | 3630.6 | 3611.5 | 3556.6 | 3500.4 |
| 12.5°  | 4228.2 | 4011.9 | 3794.4 | 3635.4 | 3476.5 | 3322.3 | 3168.2 | 3039.1 | 2980.5 | 2889.7 | 2797.7 |
| 15°    | 3753.7 | 3498.0 | 3242.2 | 3061.8 | 2880.1 | 2730.8 | 2580.2 | 2469.0 | 2432.0 | 2361.5 | 2291.0 |
| 17.5°  | 3128.7 | 2849.1 | 2569.4 | 2386.6 | 2202.5 | 2083.0 | 1962.3 | 1888.2 | 1888.2 | 1867.9 | 1847.6 |
| 20°    | 2393.7 | 2144.0 | 1894.2 | 1754.4 | 1614.6 | 1551.2 | 1486.7 | 1455.6 | 1465.2 | 1466.4 | 1466.4 |
| 22.5°  | 1755.6 | 1602.6 | 1449.6 | 1393.5 | 1336.1 | 1313.4 | 1290.7 | 1277.5 | 1282.3 | 1283.5 | 1284.7 |
| 25°    | 1382.7 | 1324.1 | 1264.4 | 1235.7 | 1205.8 | 1191.5 | 1177.2 | 1172.4 | 1183.1 | 1184.3 | 1184.3 |
| 27.5°  | 1214.2 | 1178.3 | 1141.3 | 1123.4 | 1104.3 | 1098.3 | 1092.3 | 1083.9 | 1094.7 | 1094.7 | 1093.5 |
| 30°    | 1129.3 | 1091.1 | 1052.9 | 1030.2 | 1007.5 | 1009.8 | 1011.0 | 1008.6 | 1015.8 | 1020.6 | 1024.2 |
| 32.5°  | 1060.0 | 1023.0 | 985.9  | 963.2  | 939.3  | 935.7  | 932.2  | 929.8  | 945.3  | 953.7  | 962.0  |
| 35°    | 997.9  | 957.3  | 916.6  | 895.1  | 873.6  | 865.2  | 856.9  | 850.9  | 865.2  | 876.0  | 886.7  |
| 37.5°  | 956.1  | 914.2  | 871.2  | 850.9  | 829.4  | 818.6  | 807.9  | 800.7  | 806.7  | 811.5  | 816.2  |
| 40°    | 922.6  | 879.6  | 835.4  | 811.5  | 787.6  | 776.8  | 766.0  | 760.1  | 763.7  | 764.9  | 766.0  |
| 42.5°  | 891.5  | 849.7  | 807.9  | 781.6  | 754.1  | 740.9  | 727.8  | 720.6  | 723.0  | 725.4  | 726.6  |
| 45°    | 868.8  | 827.0  | 784.0  | 752.9  | 720.6  | 706.3  | 692.0  | 683.6  | 684.8  | 684.8  | 684.8  |
| 47.5°  | 890.3  | 829.4  | 767.2  | 731.4  | 694.3  | 677.6  | 660.9  | 652.5  | 650.1  | 647.7  | 645.3  |
| 50°    | 969.2  | 865.2  | 760.1  | 714.7  | 668.0  | 650.1  | 631.0  | 621.4  | 615.5  | 613.1  | 610.7  |
| 52.5°  | 946.5  | 856.9  | 766.0  | 707.5  | 647.7  | 626.2  | 604.7  | 589.2  | 583.2  | 579.6  | 576.0  |
| 55°    | 866.4  | 810.3  | 752.9  | 682.4  | 611.9  | 592.8  | 572.4  | 561.7  | 550.9  | 548.5  | 546.2  |
| 57.5°  | 761.3  | 738.6  | 715.9  | 644.1  | 572.4  | 554.5  | 535.4  | 528.2  | 518.7  | 518.7  | 517.5  |
| 60°    | 637.0  | 670.4  | 703.9  | 621.4  | 537.8  | 517.5  | 497.2  | 491.2  | 487.6  | 486.4  | 485.2  |
| 62.5°  | 572.4  | 627.4  | 681.2  | 594.0  | 505.5  | 484.0  | 462.5  | 455.3  | 454.1  | 455.3  | 455.3  |
| 65°    | 517.5  | 534.2  | 550.9  | 510.3  | 469.7  | 448.2  | 425.4  | 418.3  | 420.7  | 424.3  | 427.8  |
| 67.5°  | 467.3  | 463.7  | 460.1  | 445.8  | 430.2  | 412.3  | 393.2  | 386.0  | 387.2  | 392.0  | 396.8  |
| 70°    | 419.5  | 414.7  | 408.7  | 398.0  | 387.2  | 371.7  | 356.1  | 351.4  | 350.2  | 356.1  | 360.9  |
| 72.5°  | 371.7  | 365.7  | 358.5  | 350.2  | 340.6  | 327.5  | 314.3  | 310.7  | 311.9  | 315.5  | 319.1  |
| 75°    | 319.1  | 314.3  | 308.3  | 301.2  | 292.8  | 280.8  | 268.9  | 266.5  | 268.9  | 272.5  | 276.1  |
| 77.5°  | 261.7  | 260.5  | 258.1  | 252.2  | 246.2  | 233.0  | 218.7  | 217.5  | 221.1  | 224.7  | 227.1  |
| 80°    | 204.4  | 205.6  | 206.7  | 202.0  | 197.2  | 182.8  | 167.3  | 166.1  | 169.7  | 173.3  | 176.9  |
| 82.5°  | 150.6  | 154.2  | 156.6  | 150.6  | 144.6  | 127.9  | 111.1  | 108.8  | 120.7  | 124.3  | 127.9  |
| 85°    | 87.2   | 92.0   | 96.8   | 92.0   | 87.2   | 70.5   | 53.8   | 52.6   | 63.3   | 69.3   | 75.3   |
| 87.5°  | 7.2    | 9.6    | 12.0   | 10.8   | 9.6    | 4.8    | 0.0    | 0.0    | 1.2    | 6.0    | 10.8   |
| 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    |



REPORT NUMBER: P320592  
 CATALOG NUMBER: GLEON-SA8A-730-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: P320592

CATALOG NUMBER: GLEON-SA8A-730-U-SLR

**CANDELA DISTRIBUTION (continued):**

|        | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 9106.5 | 9106.5 | 9106.5 | 9106.5 | 9106.5 | 9106.5 | 9106.5 | 9106.5 | 9106.5 | 9106.5 | 9106.5 |
| 2.5°   | 7783.5 | 7736.9 | 7722.6 | 7708.3 | 7655.7 | 7601.9 | 7656.9 | 7710.6 | 7733.4 | 7756.1 | 7697.5 |
| 5°     | 6329.1 | 6320.8 | 6320.8 | 6319.6 | 6271.8 | 6222.8 | 6259.8 | 6295.7 | 6215.6 | 6135.5 | 6127.2 |
| 7.5°   | 4743.3 | 4794.7 | 4836.5 | 4877.1 | 4861.6 | 4846.0 | 4880.7 | 4915.4 | 4813.8 | 4711.0 | 4660.8 |
| 10°    | 3512.3 | 3523.1 | 3568.5 | 3613.9 | 3624.7 | 3634.2 | 3677.3 | 3719.1 | 3640.2 | 3561.3 | 3526.7 |
| 12.5°  | 2740.3 | 2683.0 | 2688.9 | 2693.7 | 2715.2 | 2735.5 | 2780.9 | 2825.2 | 2792.9 | 2759.4 | 2763.0 |
| 15°    | 2219.3 | 2146.4 | 2116.5 | 2085.4 | 2109.3 | 2133.2 | 2165.5 | 2196.6 | 2197.7 | 2197.7 | 2228.8 |
| 17.5°  | 1811.7 | 1774.7 | 1744.8 | 1713.7 | 1746.0 | 1777.1 | 1780.7 | 1784.3 | 1785.4 | 1786.6 | 1784.3 |
| 20°    | 1484.3 | 1502.2 | 1492.7 | 1483.1 | 1495.0 | 1505.8 | 1515.4 | 1523.7 | 1513.0 | 1501.0 | 1471.1 |
| 22.5°  | 1301.4 | 1317.0 | 1328.9 | 1339.7 | 1360.0 | 1379.1 | 1369.6 | 1358.8 | 1337.3 | 1314.6 | 1291.9 |
| 25°    | 1195.1 | 1205.8 | 1217.8 | 1229.7 | 1246.5 | 1262.0 | 1245.3 | 1228.5 | 1213.0 | 1197.5 | 1181.9 |
| 27.5°  | 1105.4 | 1116.2 | 1127.0 | 1136.5 | 1152.1 | 1166.4 | 1150.9 | 1135.3 | 1122.2 | 1109.0 | 1097.1 |
| 30°    | 1032.5 | 1039.7 | 1048.1 | 1056.4 | 1070.8 | 1083.9 | 1070.8 | 1056.4 | 1046.9 | 1036.1 | 1027.8 |
| 32.5°  | 970.4  | 977.6  | 981.2  | 984.7  | 997.9  | 1011.0 | 1001.5 | 991.9  | 983.5  | 975.2  | 969.2  |
| 35°    | 902.3  | 916.6  | 919.0  | 921.4  | 934.6  | 947.7  | 941.7  | 934.6  | 925.0  | 915.4  | 904.7  |
| 37.5°  | 833.0  | 849.7  | 859.3  | 867.6  | 880.8  | 893.9  | 887.9  | 882.0  | 868.8  | 855.7  | 836.6  |
| 40°    | 774.4  | 781.6  | 799.5  | 816.2  | 837.8  | 858.1  | 846.1  | 833.0  | 812.7  | 792.3  | 782.8  |
| 42.5°  | 725.4  | 724.2  | 740.9  | 757.7  | 789.9  | 821.0  | 799.5  | 778.0  | 758.9  | 739.8  | 737.4  |
| 45°    | 682.4  | 678.8  | 687.2  | 695.5  | 730.2  | 763.7  | 742.1  | 719.4  | 708.7  | 697.9  | 697.9  |
| 47.5°  | 644.1  | 641.8  | 647.7  | 652.5  | 674.0  | 694.3  | 683.6  | 672.8  | 666.9  | 660.9  | 662.1  |
| 50°    | 609.5  | 607.1  | 613.1  | 617.9  | 626.2  | 633.4  | 635.8  | 637.0  | 633.4  | 629.8  | 632.2  |
| 52.5°  | 577.2  | 577.2  | 579.6  | 580.8  | 591.6  | 602.3  | 602.3  | 601.1  | 601.1  | 601.1  | 603.5  |
| 55°    | 549.7  | 552.1  | 552.1  | 552.1  | 568.9  | 584.4  | 579.6  | 574.8  | 576.0  | 576.0  | 578.4  |
| 57.5°  | 522.2  | 525.8  | 528.2  | 530.6  | 547.3  | 564.1  | 559.3  | 554.5  | 554.5  | 554.5  | 555.7  |
| 60°    | 491.2  | 496.0  | 500.7  | 505.5  | 522.2  | 539.0  | 534.2  | 528.2  | 529.4  | 530.6  | 531.8  |
| 62.5°  | 461.3  | 466.1  | 470.9  | 475.6  | 492.4  | 509.1  | 504.3  | 498.3  | 501.9  | 504.3  | 504.3  |
| 65°    | 432.6  | 436.2  | 441.0  | 445.8  | 461.3  | 476.8  | 472.1  | 467.3  | 472.1  | 475.6  | 478.0  |
| 67.5°  | 400.4  | 402.7  | 407.5  | 412.3  | 427.8  | 443.4  | 438.6  | 432.6  | 438.6  | 443.4  | 448.2  |
| 70°    | 363.3  | 365.7  | 371.7  | 376.4  | 392.0  | 407.5  | 401.5  | 395.6  | 401.5  | 407.5  | 412.3  |
| 72.5°  | 322.7  | 325.1  | 331.0  | 335.8  | 353.7  | 371.7  | 364.5  | 357.3  | 364.5  | 371.7  | 374.1  |
| 75°    | 278.5  | 280.8  | 288.0  | 294.0  | 311.9  | 329.8  | 323.9  | 316.7  | 322.7  | 328.6  | 329.8  |
| 77.5°  | 230.7  | 234.2  | 243.8  | 253.4  | 267.7  | 282.0  | 278.5  | 274.9  | 278.5  | 282.0  | 282.0  |
| 80°    | 180.5  | 184.0  | 196.0  | 206.7  | 215.1  | 223.5  | 224.7  | 225.9  | 227.1  | 228.3  | 227.1  |
| 82.5°  | 133.8  | 138.6  | 149.4  | 160.1  | 160.1  | 160.1  | 169.7  | 178.1  | 178.1  | 176.9  | 175.7  |
| 85°    | 82.5   | 88.4   | 98.0   | 107.6  | 101.6  | 95.6   | 111.1  | 125.5  | 125.5  | 124.3  | 121.9  |
| 87.5°  | 16.7   | 22.7   | 32.3   | 40.6   | 34.7   | 28.7   | 44.2   | 59.8   | 60.9   | 60.9   | 58.6   |
| 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: P320592  
 CATALOG NUMBER: GLEON-SA8A-730-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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**CANDELA DISTRIBUTION (continued):**

|        | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   | 200°   | 205°   | 210°   | 215°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 9106.5 | 9106.5 | 9106.5 | 9106.5 | 9106.5 | 9106.5 | 9106.5 | 9106.5 | 9106.5 | 9106.5 | 9106.5 |
| 2.5°   | 7637.7 | 7731.0 | 7823.0 | 7846.9 | 7882.7 | 7898.3 | 7912.6 | 8029.7 | 8145.7 | 8281.9 | 8418.1 |
| 5°     | 6117.6 | 6186.9 | 6256.2 | 6267.0 | 6304.0 | 6323.2 | 6342.3 | 6484.5 | 6625.5 | 6815.5 | 7005.6 |
| 7.5°   | 4610.6 | 4627.3 | 4644.1 | 4641.7 | 4672.8 | 4714.6 | 4755.2 | 4907.0 | 5057.6 | 5261.9 | 5465.1 |
| 10°    | 3492.0 | 3530.3 | 3567.3 | 3602.0 | 3670.1 | 3749.0 | 3826.6 | 3982.0 | 4137.4 | 4339.3 | 4540.1 |
| 12.5°  | 2766.6 | 2810.8 | 2853.8 | 2892.1 | 2971.0 | 3076.1 | 3180.1 | 3366.5 | 3553.0 | 3794.4 | 4034.6 |
| 15°    | 2258.7 | 2255.1 | 2251.5 | 2277.8 | 2347.1 | 2461.9 | 2575.4 | 2772.6 | 2969.8 | 3235.1 | 3499.2 |
| 17.5°  | 1781.9 | 1763.9 | 1746.0 | 1766.3 | 1830.9 | 1925.3 | 2018.5 | 2185.8 | 2351.9 | 2608.9 | 2865.8 |
| 20°    | 1441.3 | 1429.3 | 1417.4 | 1436.5 | 1477.1 | 1516.6 | 1556.0 | 1676.7 | 1796.2 | 2005.3 | 2213.3 |
| 22.5°  | 1268.0 | 1266.8 | 1264.4 | 1275.1 | 1294.3 | 1314.6 | 1333.7 | 1392.3 | 1449.6 | 1584.7 | 1718.5 |
| 25°    | 1166.4 | 1165.2 | 1164.0 | 1168.8 | 1184.3 | 1199.9 | 1215.4 | 1253.6 | 1291.9 | 1356.4 | 1420.9 |
| 27.5°  | 1085.1 | 1082.7 | 1080.4 | 1081.5 | 1085.1 | 1109.0 | 1131.7 | 1149.7 | 1166.4 | 1210.6 | 1253.6 |
| 30°    | 1019.4 | 1018.2 | 1017.0 | 1017.0 | 1013.4 | 1021.8 | 1030.2 | 1057.6 | 1083.9 | 1129.3 | 1174.8 |
| 32.5°  | 963.2  | 957.3  | 951.3  | 938.1  | 929.8  | 941.7  | 953.7  | 982.4  | 1011.0 | 1052.9 | 1094.7 |
| 35°    | 892.7  | 877.2  | 860.5  | 853.3  | 854.5  | 866.4  | 878.4  | 907.1  | 934.6  | 980.0  | 1024.2 |
| 37.5°  | 816.2  | 811.5  | 805.5  | 804.3  | 807.9  | 819.8  | 831.8  | 856.9  | 880.8  | 926.2  | 970.4  |
| 40°    | 773.2  | 770.8  | 768.4  | 766.0  | 768.4  | 780.4  | 792.3  | 816.2  | 838.9  | 883.2  | 926.2  |
| 42.5°  | 735.0  | 733.8  | 732.6  | 732.6  | 733.8  | 746.9  | 760.1  | 784.0  | 806.7  | 846.1  | 885.6  |
| 45°    | 697.9  | 699.1  | 699.1  | 701.5  | 705.1  | 718.2  | 730.2  | 756.5  | 782.8  | 821.0  | 859.3  |
| 47.5°  | 663.3  | 666.9  | 669.2  | 675.2  | 678.8  | 693.1  | 706.3  | 735.0  | 763.7  | 811.5  | 858.1  |
| 50°    | 633.4  | 637.0  | 639.4  | 644.1  | 653.7  | 670.4  | 687.2  | 721.8  | 755.3  | 835.4  | 914.2  |
| 52.5°  | 605.9  | 609.5  | 613.1  | 617.9  | 629.8  | 648.9  | 668.0  | 711.1  | 752.9  | 846.1  | 939.3  |
| 55°    | 580.8  | 584.4  | 586.8  | 594.0  | 605.9  | 622.6  | 638.2  | 690.8  | 743.3  | 811.5  | 879.6  |
| 57.5°  | 556.9  | 560.5  | 562.9  | 567.7  | 573.6  | 591.6  | 608.3  | 664.5  | 720.6  | 768.4  | 815.0  |
| 60°    | 531.8  | 534.2  | 535.4  | 535.4  | 540.2  | 560.5  | 580.8  | 652.5  | 723.0  | 714.7  | 705.1  |
| 62.5°  | 504.3  | 506.7  | 507.9  | 504.3  | 510.3  | 531.8  | 553.3  | 646.5  | 739.8  | 682.4  | 625.0  |
| 65°    | 479.2  | 478.0  | 476.8  | 473.3  | 480.4  | 501.9  | 522.2  | 568.9  | 615.5  | 592.8  | 570.1  |
| 67.5°  | 451.7  | 448.2  | 444.6  | 439.8  | 447.0  | 466.1  | 484.0  | 499.5  | 515.1  | 517.5  | 519.9  |
| 70°    | 417.1  | 412.3  | 407.5  | 406.3  | 409.9  | 425.4  | 441.0  | 451.7  | 461.3  | 466.1  | 469.7  |
| 72.5°  | 376.4  | 372.9  | 369.3  | 366.9  | 368.1  | 381.2  | 393.2  | 402.7  | 412.3  | 415.9  | 418.3  |
| 75°    | 331.0  | 331.0  | 329.8  | 322.7  | 322.7  | 333.4  | 343.0  | 351.4  | 359.7  | 364.5  | 369.3  |
| 77.5°  | 282.0  | 283.2  | 283.2  | 273.7  | 272.5  | 283.2  | 292.8  | 300.0  | 305.9  | 310.7  | 314.3  |
| 80°    | 225.9  | 223.5  | 221.1  | 215.1  | 212.7  | 225.9  | 237.8  | 243.8  | 248.6  | 249.8  | 249.8  |
| 82.5°  | 173.3  | 168.5  | 162.5  | 149.4  | 150.6  | 164.9  | 178.1  | 182.8  | 187.6  | 187.6  | 187.6  |
| 85°    | 118.3  | 108.8  | 98.0   | 87.2   | 88.4   | 104.0  | 118.3  | 123.1  | 127.9  | 130.3  | 131.5  |
| 87.5°  | 56.2   | 46.6   | 35.9   | 27.5   | 27.5   | 40.6   | 52.6   | 55.0   | 57.4   | 62.1   | 66.9   |
| 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    |



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 CATALOG NUMBER: GLEON-SA8A-730-U-SLR

**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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CATALOG NUMBER: GLEON-SA8A-730-U-SLR

**CANDELA DISTRIBUTION (continued):**

|        | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   | 250°   | 255°   | 260°    | 265°    | 270°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°     | 9106.5 | 9106.5 | 9106.5 | 9106.5 | 9106.5 | 9106.5 | 9106.5 | 9106.5 | 9106.5  | 9106.5  | 9106.5  |
| 2.5°   | 8522.1 | 8624.9 | 8731.2 | 8837.6 | 8959.5 | 9081.4 | 9223.6 | 9364.6 | 9485.3  | 9606.0  | 9706.4  |
| 5°     | 7169.3 | 7333.0 | 7525.4 | 7717.8 | 7962.8 | 8207.8 | 8507.8 | 8806.5 | 9073.0  | 9339.5  | 9649.1  |
| 7.5°   | 5679.0 | 5891.7 | 6142.7 | 6393.7 | 6710.4 | 7027.1 | 7415.5 | 7803.9 | 8180.3  | 8555.6  | 9031.2  |
| 10°    | 4763.6 | 4987.1 | 5234.4 | 5480.6 | 5803.3 | 6124.8 | 6535.9 | 6945.8 | 7368.9  | 7790.7  | 8328.5  |
| 12.5°  | 4283.2 | 4530.5 | 4748.0 | 4965.6 | 5227.3 | 5487.8 | 5885.8 | 6283.7 | 6780.9  | 7276.8  | 7794.3  |
| 15°    | 3770.5 | 4040.6 | 4301.1 | 4561.6 | 4847.2 | 5131.7 | 5518.9 | 5906.1 | 6449.8  | 6993.6  | 7588.8  |
| 17.5°  | 3150.2 | 3434.7 | 3752.5 | 4069.2 | 4442.1 | 4813.8 | 5309.7 | 5805.7 | 6449.8  | 7092.8  | 7794.3  |
| 20°    | 2503.7 | 2794.1 | 3174.1 | 3554.2 | 4017.9 | 4480.4 | 5123.3 | 5766.3 | 6633.9  | 7500.3  | 8395.4  |
| 22.5°  | 1975.5 | 2231.2 | 2645.9 | 3059.4 | 3594.8 | 4130.2 | 4954.8 | 5778.2 | 6912.3  | 8045.3  | 9253.5  |
| 25°    | 1601.4 | 1781.9 | 2189.4 | 2595.7 | 3213.6 | 3831.4 | 4852.0 | 5871.4 | 7317.5  | 8762.3  | 10260.9 |
| 27.5°  | 1372.0 | 1490.3 | 1870.3 | 2249.1 | 2924.4 | 3598.4 | 4810.2 | 6020.8 | 7831.4  | 9641.9  | 11356.8 |
| 30°    | 1257.2 | 1339.7 | 1661.2 | 1981.4 | 2667.4 | 3353.4 | 4760.0 | 6166.6 | 8326.1  | 10484.4 | 12213.7 |
| 32.5°  | 1161.6 | 1227.3 | 1502.2 | 1775.9 | 2445.1 | 3114.4 | 4663.2 | 6210.8 | 8671.5  | 11132.2 | 12939.1 |
| 35°    | 1080.4 | 1135.3 | 1374.3 | 1613.4 | 2270.6 | 2927.9 | 4500.7 | 6073.4 | 8887.8  | 11702.2 | 13694.4 |
| 37.5°  | 1014.6 | 1057.6 | 1278.7 | 1499.8 | 2120.1 | 2740.3 | 4315.4 | 5890.5 | 9080.2  | 12269.9 | 14544.1 |
| 40°    | 963.2  | 1000.3 | 1207.0 | 1413.8 | 1976.7 | 2539.5 | 4156.5 | 5772.2 | 9345.5  | 12918.8 | 15441.6 |
| 42.5°  | 934.6  | 982.4  | 1144.9 | 1306.2 | 1840.4 | 2374.6 | 4028.6 | 5682.6 | 9591.7  | 13499.6 | 16226.8 |
| 45°    | 927.4  | 995.5  | 1112.6 | 1229.7 | 1738.8 | 2247.9 | 3915.1 | 5581.0 | 9750.6  | 13920.3 | 16818.3 |
| 47.5°  | 915.4  | 971.6  | 1087.5 | 1203.4 | 1688.6 | 2172.7 | 3854.1 | 5534.4 | 9909.6  | 14283.6 | 17309.5 |
| 50°    | 922.6  | 929.8  | 1067.2 | 1203.4 | 1681.5 | 2159.5 | 3923.4 | 5687.4 | 10253.8 | 14819.0 | 17871.2 |
| 52.5°  | 909.5  | 878.4  | 1029.0 | 1179.5 | 1680.3 | 2181.0 | 4123.0 | 6065.0 | 10893.1 | 15720.1 | 18479.5 |
| 55°    | 840.1  | 799.5  | 957.3  | 1115.0 | 1655.2 | 2194.2 | 4360.8 | 6526.3 | 11751.2 | 16974.9 | 19573.0 |
| 57.5°  | 779.2  | 742.1  | 876.0  | 1008.6 | 1578.7 | 2148.8 | 4605.8 | 7061.7 | 12658.3 | 18253.6 | 20805.1 |
| 60°    | 697.9  | 689.6  | 785.2  | 880.8  | 1460.4 | 2038.8 | 4807.8 | 7575.6 | 13267.8 | 18958.7 | 21279.6 |
| 62.5°  | 631.0  | 635.8  | 706.3  | 776.8  | 1312.2 | 1846.4 | 4874.7 | 7901.9 | 13251.0 | 18600.2 | 20801.5 |
| 65°    | 579.6  | 588.0  | 657.3  | 726.6  | 1185.5 | 1644.4 | 4654.8 | 7664.0 | 12580.6 | 17496.0 | 19856.2 |
| 67.5°  | 529.4  | 539.0  | 621.4  | 702.7  | 1073.2 | 1442.5 | 4105.1 | 6766.5 | 11374.8 | 15981.8 | 18654.0 |
| 70°    | 481.6  | 493.6  | 583.2  | 672.8  | 991.9  | 1309.8 | 3396.4 | 5483.0 | 9865.4  | 14246.5 | 17261.7 |
| 72.5°  | 430.2  | 442.2  | 537.8  | 633.4  | 940.5  | 1246.5 | 2769.0 | 4290.3 | 8005.8  | 11720.1 | 14765.2 |
| 75°    | 377.6  | 386.0  | 490.0  | 592.8  | 870.0  | 1147.3 | 2172.7 | 3196.8 | 6127.2  | 9057.5  | 11152.5 |
| 77.5°  | 325.1  | 335.8  | 423.1  | 509.1  | 738.6  | 966.8  | 1637.3 | 2307.7 | 4495.9  | 6682.9  | 7756.1  |
| 80°    | 259.3  | 268.9  | 331.0  | 392.0  | 570.1  | 746.9  | 1125.8 | 1504.6 | 3094.1  | 4683.5  | 5288.2  |
| 82.5°  | 198.4  | 209.1  | 251.0  | 291.6  | 406.3  | 521.1  | 682.4  | 843.7  | 2055.5  | 3266.2  | 3316.3  |
| 85°    | 136.2  | 139.8  | 169.7  | 198.4  | 251.0  | 303.6  | 390.8  | 478.0  | 1360.0  | 2242.0  | 1867.9  |
| 87.5°  | 68.1   | 68.1   | 88.4   | 108.8  | 135.0  | 161.3  | 206.7  | 251.0  | 435.0   | 619.1   | 356.1   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     |



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 CATALOG NUMBER: GLEON-SA8A-730-U-SLR

**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  |

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CATALOG NUMBER: GLEON-SA8A-730-U-SLR

**CANDELA DISTRIBUTION (continued):**

|        | 275°    | 280°    | 285°    | 290°    | 295°    | 300°    | 305°    | 310°    | 315°    | 320°    | 325°    |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°     | 9106.5  | 9106.5  | 9106.5  | 9106.5  | 9106.5  | 9106.5  | 9106.5  | 9106.5  | 9106.5  | 9106.5  | 9106.5  |
| 2.5°   | 9834.3  | 9921.5  | 10010.0 | 10076.9 | 10145.0 | 10243.0 | 10341.0 | 10358.9 | 10378.1 | 10339.8 | 10301.6 |
| 5°     | 9961.0  | 10225.1 | 10490.4 | 10735.4 | 10980.4 | 11127.4 | 11274.4 | 11304.3 | 11334.1 | 11242.1 | 11148.9 |
| 7.5°   | 9491.3  | 9951.4  | 10411.5 | 10833.4 | 11255.3 | 11511.0 | 11767.9 | 11825.3 | 11883.9 | 11733.3 | 11582.7 |
| 10°    | 8863.9  | 9429.2  | 9994.4  | 10550.2 | 11105.9 | 11477.5 | 11849.2 | 11923.3 | 11997.4 | 11809.8 | 11622.1 |
| 12.5°  | 8378.7  | 8982.2  | 9585.7  | 10171.3 | 10758.1 | 11142.9 | 11527.7 | 11619.8 | 11711.8 | 11575.5 | 11438.1 |
| 15°    | 8229.3  | 8797.0  | 9364.6  | 9874.9  | 10386.4 | 10700.7 | 11016.2 | 11053.3 | 11091.5 | 11070.0 | 11048.5 |
| 17.5°  | 8500.6  | 9013.3  | 9527.2  | 9804.4  | 10082.9 | 10208.4 | 10335.0 | 10375.7 | 10417.5 | 10471.3 | 10526.3 |
| 20°    | 9157.9  | 9518.8  | 9880.9  | 9869.0  | 9855.8  | 9794.9  | 9732.7  | 9722.0  | 9711.2  | 9865.4  | 10020.7 |
| 22.5°  | 10139.0 | 10282.5 | 10427.1 | 10091.2 | 9755.4  | 9551.1  | 9345.5  | 9304.9  | 9263.1  | 9426.8  | 9591.7  |
| 25°    | 11203.9 | 11177.6 | 11150.1 | 10510.7 | 9870.2  | 9480.6  | 9091.0  | 9045.6  | 9000.1  | 9140.0  | 9281.0  |
| 27.5°  | 12257.9 | 12085.8 | 11913.7 | 11044.9 | 10176.1 | 9610.8  | 9045.6  | 9000.1  | 8954.7  | 9079.0  | 9203.3  |
| 30°    | 13031.1 | 12755.1 | 12479.0 | 11495.5 | 10511.9 | 9840.3  | 9168.6  | 9094.5  | 9019.3  | 9172.2  | 9325.2  |
| 32.5°  | 13634.7 | 13264.2 | 12893.7 | 11861.2 | 10828.6 | 10102.0 | 9375.4  | 9259.5  | 9143.5  | 9347.9  | 9552.3  |
| 35°    | 14237.0 | 13715.9 | 13193.7 | 12187.4 | 11180.0 | 10411.5 | 9641.9  | 9499.7  | 9357.5  | 9638.3  | 9919.2  |
| 37.5°  | 14994.7 | 14246.5 | 13497.2 | 12554.3 | 11611.4 | 10875.2 | 10137.9 | 9992.1  | 9846.3  | 10203.6 | 10562.1 |
| 40°    | 15816.9 | 14819.0 | 13821.1 | 12955.8 | 12090.6 | 11517.0 | 10942.1 | 10803.5 | 10663.7 | 11098.7 | 11533.7 |
| 42.5°  | 16500.5 | 15352.0 | 14203.5 | 13439.9 | 12675.0 | 12271.1 | 11865.9 | 11864.7 | 11862.4 | 12303.3 | 12744.3 |
| 45°    | 17056.2 | 15796.6 | 14535.7 | 13911.9 | 13286.9 | 13076.6 | 12866.2 | 13034.7 | 13203.2 | 13601.2 | 14000.3 |
| 47.5°  | 17470.9 | 16169.4 | 14866.8 | 14452.1 | 14037.4 | 14068.5 | 14099.5 | 14442.5 | 14785.5 | 15041.3 | 15298.2 |
| 50°    | 17740.9 | 16507.6 | 15273.1 | 15145.2 | 15017.4 | 15295.8 | 15575.5 | 15968.6 | 16363.0 | 16537.5 | 16712.0 |
| 52.5°  | 18134.1 | 16966.5 | 15797.7 | 15941.2 | 16084.6 | 16653.4 | 17222.3 | 17620.2 | 18018.2 | 18082.7 | 18148.5 |
| 55°    | 19043.6 | 17810.3 | 16575.7 | 16850.6 | 17126.7 | 17960.8 | 18796.2 | 19106.9 | 19417.6 | 19441.5 | 19465.4 |
| 57.5°  | 20335.5 | 18992.2 | 17648.9 | 17945.3 | 18241.7 | 19204.9 | 20169.3 | 20504.0 | 20839.8 | 20793.2 | 20745.4 |
| 60°    | 21302.3 | 20114.4 | 18925.3 | 19224.0 | 19522.8 | 20462.1 | 21401.5 | 21786.3 | 22172.3 | 22069.5 | 21966.7 |
| 62.5°  | 21362.0 | 20727.4 | 20091.7 | 20361.8 | 20633.0 | 21553.2 | 22473.5 | 22869.0 | 23264.6 | 23085.3 | 22906.1 |
| 65°    | 20411.9 | 20696.4 | 20980.8 | 21070.4 | 21160.1 | 22018.1 | 22877.4 | 23179.7 | 23483.3 | 23392.5 | 23301.6 |
| 67.5°  | 19103.3 | 20151.4 | 21200.7 | 21020.2 | 20839.8 | 21242.5 | 21645.3 | 21957.2 | 22269.1 | 22217.7 | 22165.1 |
| 70°    | 17797.1 | 19196.6 | 20596.0 | 19709.2 | 18821.3 | 18655.2 | 18489.1 | 18824.9 | 19161.9 | 18953.9 | 18744.8 |
| 72.5°  | 15573.1 | 17064.5 | 18557.2 | 16923.5 | 15289.8 | 14722.2 | 14154.5 | 14581.2 | 15007.8 | 14676.8 | 14344.5 |
| 75°    | 12224.5 | 13872.5 | 15521.7 | 13572.5 | 11623.3 | 10865.7 | 10108.0 | 10474.9 | 10841.8 | 10614.7 | 10386.4 |
| 77.5°  | 9100.5  | 10724.6 | 12348.7 | 10367.3 | 8384.7  | 7821.8  | 7257.7  | 7366.5  | 7476.4  | 7438.2  | 7398.7  |
| 80°    | 6172.6  | 7304.3  | 8437.3  | 7117.9  | 5798.5  | 5841.5  | 5885.8  | 5834.4  | 5781.8  | 5858.3  | 5934.8  |
| 82.5°  | 3939.0  | 4812.6  | 5687.4  | 4987.1  | 4286.7  | 4688.3  | 5089.8  | 4892.7  | 4694.3  | 4767.2  | 4841.3  |
| 85°    | 2247.9  | 3102.4  | 3958.1  | 3689.2  | 3419.1  | 3653.4  | 3888.8  | 3582.8  | 3276.9  | 3410.8  | 3545.8  |
| 87.5°  | 592.8   | 1716.1  | 2840.7  | 2579.0  | 2317.3  | 2013.7  | 1710.2  | 1305.0  | 899.9   | 1314.6  | 1729.3  |
| 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):**

|        | 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-SA8A-730-U-SLR

**CANDELA DISTRIBUTION (continued):**

|        | 330°    | 335°    | 340°    | 345°    | 350°    | 355°    | 360°    |
|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°     | 9106.5  | 9106.5  | 9106.5  | 9106.5  | 9106.5  | 9106.5  | 9106.5  |
| 2.5°   | 10281.3 | 10260.9 | 10188.0 | 10114.0 | 10004.0 | 9913.2  | 9755.4  |
| 5°     | 11019.8 | 10890.8 | 10668.5 | 10445.0 | 10196.4 | 9910.8  | 9594.1  |
| 7.5°   | 11281.5 | 10979.2 | 10552.5 | 10124.7 | 9739.9  | 9288.2  | 8867.5  |
| 10°    | 11170.4 | 10717.5 | 10162.9 | 9607.2  | 9140.0  | 8620.1  | 8152.8  |
| 12.5°  | 10957.7 | 10476.1 | 9865.4  | 9253.5  | 8721.7  | 8163.6  | 7640.1  |
| 15°    | 10664.9 | 10280.1 | 9707.6  | 9135.2  | 8599.8  | 8057.2  | 7437.0  |
| 17.5°  | 10344.6 | 10161.8 | 9748.3  | 9333.6  | 8869.9  | 8344.0  | 7616.2  |
| 20°    | 10086.5 | 10153.4 | 9988.5  | 9823.5  | 9451.9  | 8993.0  | 8175.5  |
| 22.5°  | 9912.0  | 10233.5 | 10360.1 | 10488.0 | 10264.5 | 9906.0  | 8960.7  |
| 25°    | 9814.0  | 10347.0 | 10771.2 | 11196.7 | 11097.5 | 10821.4 | 9914.4  |
| 27.5°  | 9857.0  | 10510.7 | 11169.2 | 11828.9 | 11920.9 | 11844.4 | 10919.4 |
| 30°    | 9986.1  | 10648.2 | 11450.0 | 12253.1 | 12620.0 | 12722.8 | 11757.2 |
| 32.5°  | 10201.2 | 10850.1 | 11723.7 | 12598.5 | 13153.0 | 13480.5 | 12523.2 |
| 35°    | 10526.3 | 11133.4 | 12044.0 | 12954.7 | 13671.7 | 14269.2 | 13314.4 |
| 37.5°  | 11084.4 | 11606.6 | 12446.7 | 13288.1 | 14217.9 | 15115.4 | 14185.6 |
| 40°    | 11901.8 | 12271.1 | 12980.9 | 13692.0 | 14862.0 | 16073.8 | 15157.2 |
| 42.5°  | 12933.1 | 13123.2 | 13686.0 | 14248.9 | 15534.8 | 16943.8 | 16107.3 |
| 45°    | 14050.5 | 14100.7 | 14454.5 | 14809.4 | 16067.8 | 17536.6 | 16820.7 |
| 47.5°  | 15126.1 | 14954.0 | 15095.0 | 15236.1 | 16476.6 | 17959.6 | 17362.1 |
| 50°    | 16232.8 | 15753.5 | 15679.4 | 15605.3 | 16885.3 | 18458.0 | 18050.5 |
| 52.5°  | 17358.5 | 16568.6 | 16275.8 | 15981.8 | 17372.9 | 19118.9 | 18907.3 |
| 55°    | 18460.4 | 17455.3 | 17060.9 | 16666.6 | 18118.6 | 19925.5 | 20165.8 |
| 57.5°  | 19606.5 | 18467.6 | 18101.9 | 17736.2 | 19214.5 | 20947.3 | 21295.1 |
| 60°    | 20839.8 | 19711.6 | 19418.8 | 19124.8 | 20576.9 | 22051.6 | 21798.2 |
| 62.5°  | 22009.8 | 21113.5 | 20959.3 | 20803.9 | 21954.8 | 22900.1 | 21602.2 |
| 65°    | 22791.3 | 22279.9 | 22423.3 | 22567.9 | 22996.9 | 23111.6 | 21028.6 |
| 67.5°  | 22269.1 | 22373.1 | 22979.0 | 23586.1 | 23290.9 | 22483.0 | 19898.1 |
| 70°    | 19367.4 | 19991.3 | 21426.6 | 22863.1 | 22208.1 | 20799.2 | 17868.8 |
| 72.5°  | 15044.8 | 15746.4 | 17877.2 | 20009.2 | 19405.7 | 17680.0 | 14676.8 |
| 75°    | 11177.6 | 11969.9 | 14321.8 | 16673.7 | 15836.0 | 13224.7 | 10508.3 |
| 77.5°  | 7929.3  | 8460.0  | 10782.0 | 13105.2 | 11739.3 | 8803.0  | 7071.3  |
| 80°    | 5772.2  | 5609.7  | 6904.0  | 8198.2  | 7971.2  | 5822.4  | 4541.3  |
| 82.5°  | 4444.5  | 4047.7  | 4657.2  | 5266.7  | 5233.2  | 4040.6  | 3331.9  |
| 85°    | 3386.9  | 3227.9  | 3766.9  | 4305.9  | 3844.6  | 2736.7  | 2117.7  |
| 87.5°  | 1974.3  | 2220.5  | 2855.0  | 3490.8  | 2619.6  | 830.6   | 411.1   |
| 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: P320592  
 CATALOG NUMBER: GLEON-SA8A-730-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: SP1-1908-441-2-R4

Test Date: 10/03/2019

Luminaire Tested: SA1C-730-U-5WQ

Data in this report applies to families of products SA1C-730-U-5WQ .

### Test Information

Test Method: LM-79-2008  
 Report Number: SP1-1908-441-2-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-730-U-5WQ**  
 Description: MCGRAW EDISON ROADWAY AND AREA LUMINAIRE

\*\*\*THIS IS A REVISION OF SP1-1908-441-2-R3. TO UPDATE THE CATALOG INFORMATION.\*\*\*TESTED IN SITU. (1) 70 CRI, 3000K, 1050MA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS.

### Spectral Parameters

|                           |        |           |      |      |       |
|---------------------------|--------|-----------|------|------|-------|
| CCT (K):                  | 2993   | CRI (Ra): | 71.8 |      |       |
| CIE u':                   | 0.2508 | R1:       | 67.5 | R9:  | -38.3 |
| CIE v':                   | 0.5215 | R2:       | 82.9 | R10: | 62.5  |
| Duv:                      | 0.0000 | R3:       | 94.7 | R11: | 63.7  |
| CIE x:                    | 0.4374 | R4:       | 67.7 | R12: | 57.8  |
| CIE y:                    | 0.4043 | R5:       | 67.9 | R13: | 70.4  |
| CIE z:                    | 0.1583 | R6:       | 77.6 | R14: | 97.3  |
| Peak Wavelength (nm):     | 593    | R7:       | 76.0 |      |       |
| Dominant Wavelength (nm): | 582    | R8:       | 40.5 |      |       |
| Purity:                   | 53     |           |      |      |       |
| Rf:                       | 75.7   |           |      |      |       |
| Rg:                       | 93.9   |           |      |      |       |



### Test Conditions

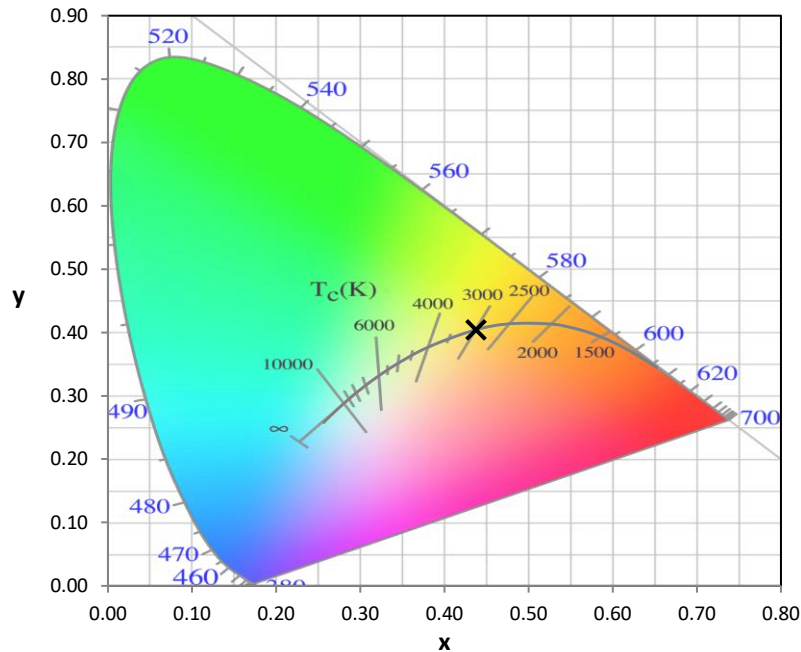
Stabilization Time: 53M  
 Operation Time: 12H  
 Room Temperature (°C) / RH%: 25.0./44%  
 Sphere Temperature (°C): 25.7

REPORT NUMBER: SP1-1908-441-2-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: SP1-1908-441-2-R4

**CIE 1931 Chromaticity Diagram**



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



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-1908-441-2-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       | 2397             | NR               | 490       | 24908            | NR               | 620       | 118784           | NR               | 750       | 5037             | NR               | 880       | 2677             | NR               |
| 365       | 2084             | NR               | 495       | 30998            | NR               | 625       | 108951           | NR               | 755       | 4413             | NR               | 885       | 2940             | NR               |
| 370       | 2143             | NR               | 500       | 37103            | NR               | 630       | 99573            | NR               | 760       | 4189             | NR               | 890       | 3116             | NR               |
| 375       | 2413             | NR               | 505       | 42987            | NR               | 635       | 90444            | NR               | 765       | 3677             | NR               | 895       | 3345             | NR               |
| 380       | 2172             | NR               | 510       | 48702            | NR               | 640       | 80749            | NR               | 770       | 3366             | NR               | 900       | 2312             | NR               |
| 385       | 1997             | NR               | 515       | 53741            | NR               | 645       | 71664            | NR               | 775       | 3211             | NR               | 905       | 2829             | NR               |
| 390       | 1830             | NR               | 520       | 57283            | NR               | 650       | 63936            | NR               | 780       | 2682             | NR               | 910       | 2783             | NR               |
| 395       | 1861             | NR               | 525       | 61876            | NR               | 655       | 56611            | NR               | 785       | 2804             | NR               | 915       | 2662             | NR               |
| 400       | 1717             | NR               | 530       | 65398            | NR               | 660       | 49763            | NR               | 790       | 2581             | NR               | 920       | 3047             | NR               |
| 405       | 1761             | NR               | 535       | 69597            | NR               | 665       | 42891            | NR               | 795       | 2711             | NR               | 925       | 2256             | NR               |
| 410       | 2680             | NR               | 540       | 74214            | NR               | 670       | 36939            | NR               | 800       | 2609             | NR               | 930       | 2976             | NR               |
| 415       | 4374             | NR               | 545       | 79911            | NR               | 675       | 31946            | NR               | 805       | 2581             | NR               | 935       | 3503             | NR               |
| 420       | 8071             | NR               | 550       | 86153            | NR               | 680       | 27385            | NR               | 810       | 2404             | NR               | 940       | 4226             | NR               |
| 425       | 15169            | NR               | 555       | 93952            | NR               | 685       | 23504            | NR               | 815       | 2556             | NR               | 945       | 2930             | NR               |
| 430       | 26038            | NR               | 560       | 102904           | NR               | 690       | 20210            | NR               | 820       | 2742             | NR               | 950       | 2115             | NR               |
| 435       | 41316            | NR               | 565       | 112009           | NR               | 695       | 17459            | NR               | 825       | 2014             | NR               | 955       | 2634             | NR               |
| 440       | 59674            | NR               | 570       | 121662           | NR               | 700       | 15207            | NR               | 830       | 2488             | NR               | 960       | 4200             | NR               |
| 445       | 72751            | NR               | 575       | 130476           | NR               | 705       | 13322            | NR               | 835       | 2625             | NR               | 965       | 1982             | NR               |
| 450       | 65091            | NR               | 580       | 137926           | NR               | 710       | 11676            | NR               | 840       | 2754             | NR               | 970       | 3613             | NR               |
| 455       | 44894            | NR               | 585       | 143406           | NR               | 715       | 10626            | NR               | 845       | 2708             | NR               | 975       | 4034             | NR               |
| 460       | 32712            | NR               | 590       | 147039           | NR               | 720       | 9416             | NR               | 850       | 2608             | NR               | 980       | 3922             | NR               |
| 465       | 25296            | NR               | 595       | 147365           | NR               | 725       | 8333             | NR               | 855       | 2605             | NR               | 985       | 1909             | NR               |
| 470       | 19318            | NR               | 600       | 145800           | NR               | 730       | 7134             | NR               | 860       | 1765             | NR               | 990       | 3617             | NR               |
| 475       | 17265            | NR               | 605       | 141363           | NR               | 735       | 6437             | NR               | 865       | 2581             | NR               | 995       | 4767             | NR               |
| 480       | 18260            | NR               | 610       | 134199           | NR               | 740       | 5834             | NR               | 870       | 3016             | NR               | 1000      | 2528             | NR               |
| 485       | 20845            | NR               | 615       | 127683           | NR               | 745       | 5500             | NR               | 875       | 3952             | NR               |           |                  |                  |

REPORT NUMBER: SP1-1908-441-2-R4

**Scotopic Flux vs. Wavelength**



**Scotopic Lumens: 8494.8**

**S/P: 1.23**

| 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       | 2397             | NR               | 490       | 24908            | NR               | 620       | 118784           | NR               | 750       | 5037             | NR               | 880       | 2677             | NR               |
| 365       | 2084             | NR               | 495       | 30998            | NR               | 625       | 108951           | NR               | 755       | 4413             | NR               | 885       | 2940             | NR               |
| 370       | 2143             | NR               | 500       | 37103            | NR               | 630       | 99573            | NR               | 760       | 4189             | NR               | 890       | 3116             | NR               |
| 375       | 2413             | NR               | 505       | 42987            | NR               | 635       | 90444            | NR               | 765       | 3677             | NR               | 895       | 3345             | NR               |
| 380       | 2172             | NR               | 510       | 48702            | NR               | 640       | 80749            | NR               | 770       | 3366             | NR               | 900       | 2312             | NR               |
| 385       | 1997             | NR               | 515       | 53741            | NR               | 645       | 71664            | NR               | 775       | 3211             | NR               | 905       | 2829             | NR               |
| 390       | 1830             | NR               | 520       | 57283            | NR               | 650       | 63936            | NR               | 780       | 2682             | NR               | 910       | 2783             | NR               |
| 395       | 1861             | NR               | 525       | 61876            | NR               | 655       | 56611            | NR               | 785       | 2804             | NR               | 915       | 2662             | NR               |
| 400       | 1717             | NR               | 530       | 65398            | NR               | 660       | 49763            | NR               | 790       | 2581             | NR               | 920       | 3047             | NR               |
| 405       | 1761             | NR               | 535       | 69597            | NR               | 665       | 42891            | NR               | 795       | 2711             | NR               | 925       | 2256             | NR               |
| 410       | 2680             | NR               | 540       | 74214            | NR               | 670       | 36939            | NR               | 800       | 2609             | NR               | 930       | 2976             | NR               |
| 415       | 4374             | NR               | 545       | 79911            | NR               | 675       | 31946            | NR               | 805       | 2581             | NR               | 935       | 3503             | NR               |
| 420       | 8071             | NR               | 550       | 86153            | NR               | 680       | 27385            | NR               | 810       | 2404             | NR               | 940       | 4226             | NR               |
| 425       | 15169            | NR               | 555       | 93952            | NR               | 685       | 23504            | NR               | 815       | 2556             | NR               | 945       | 2930             | NR               |
| 430       | 26038            | NR               | 560       | 102904           | NR               | 690       | 20210            | NR               | 820       | 2742             | NR               | 950       | 2115             | NR               |
| 435       | 41316            | NR               | 565       | 112009           | NR               | 695       | 17459            | NR               | 825       | 2014             | NR               | 955       | 2634             | NR               |
| 440       | 59674            | NR               | 570       | 121662           | NR               | 700       | 15207            | NR               | 830       | 2488             | NR               | 960       | 4200             | NR               |
| 445       | 72751            | NR               | 575       | 130476           | NR               | 705       | 13322            | NR               | 835       | 2625             | NR               | 965       | 1982             | NR               |
| 450       | 65091            | NR               | 580       | 137926           | NR               | 710       | 11676            | NR               | 840       | 2754             | NR               | 970       | 3613             | NR               |
| 455       | 44894            | NR               | 585       | 143406           | NR               | 715       | 10626            | NR               | 845       | 2708             | NR               | 975       | 4034             | NR               |
| 460       | 32712            | NR               | 590       | 147039           | NR               | 720       | 9416             | NR               | 850       | 2608             | NR               | 980       | 3922             | NR               |
| 465       | 25296            | NR               | 595       | 147365           | NR               | 725       | 8333             | NR               | 855       | 2605             | NR               | 985       | 1909             | NR               |
| 470       | 19318            | NR               | 600       | 145800           | NR               | 730       | 7134             | NR               | 860       | 1765             | NR               | 990       | 3617             | NR               |
| 475       | 17265            | NR               | 605       | 141363           | NR               | 735       | 6437             | NR               | 865       | 2581             | NR               | 995       | 4767             | NR               |
| 480       | 18260            | NR               | 610       | 134199           | NR               | 740       | 5834             | NR               | 870       | 3016             | NR               | 1000      | 2528             | NR               |
| 485       | 20845            | NR               | 615       | 127683           | NR               | 745       | 5500             | NR               | 875       | 3952             | NR               |           |                  |                  |

REPORT NUMBER: SP1-1908-441-2-R4

**Melanopic Flux vs. Wavelength**



**Melanopic Lumens: 3101.5**

**M/P: 0.45**

| 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       | 2397             | NR               | 490       | 24908            | NR               | 620       | 118784           | NR               | 750       | 5037             | NR               | 880       | 2677             | NR               |
| 365       | 2084             | NR               | 495       | 30998            | NR               | 625       | 108951           | NR               | 755       | 4413             | NR               | 885       | 2940             | NR               |
| 370       | 2143             | NR               | 500       | 37103            | NR               | 630       | 99573            | NR               | 760       | 4189             | NR               | 890       | 3116             | NR               |
| 375       | 2413             | NR               | 505       | 42987            | NR               | 635       | 90444            | NR               | 765       | 3677             | NR               | 895       | 3345             | NR               |
| 380       | 2172             | NR               | 510       | 48702            | NR               | 640       | 80749            | NR               | 770       | 3366             | NR               | 900       | 2312             | NR               |
| 385       | 1997             | NR               | 515       | 53741            | NR               | 645       | 71664            | NR               | 775       | 3211             | NR               | 905       | 2829             | NR               |
| 390       | 1830             | NR               | 520       | 57283            | NR               | 650       | 63936            | NR               | 780       | 2682             | NR               | 910       | 2783             | NR               |
| 395       | 1861             | NR               | 525       | 61876            | NR               | 655       | 56611            | NR               | 785       | 2804             | NR               | 915       | 2662             | NR               |
| 400       | 1717             | NR               | 530       | 65398            | NR               | 660       | 49763            | NR               | 790       | 2581             | NR               | 920       | 3047             | NR               |
| 405       | 1761             | NR               | 535       | 69597            | NR               | 665       | 42891            | NR               | 795       | 2711             | NR               | 925       | 2256             | NR               |
| 410       | 2680             | NR               | 540       | 74214            | NR               | 670       | 36939            | NR               | 800       | 2609             | NR               | 930       | 2976             | NR               |
| 415       | 4374             | NR               | 545       | 79911            | NR               | 675       | 31946            | NR               | 805       | 2581             | NR               | 935       | 3503             | NR               |
| 420       | 8071             | NR               | 550       | 86153            | NR               | 680       | 27385            | NR               | 810       | 2404             | NR               | 940       | 4226             | NR               |
| 425       | 15169            | NR               | 555       | 93952            | NR               | 685       | 23504            | NR               | 815       | 2556             | NR               | 945       | 2930             | NR               |
| 430       | 26038            | NR               | 560       | 102904           | NR               | 690       | 20210            | NR               | 820       | 2742             | NR               | 950       | 2115             | NR               |
| 435       | 41316            | NR               | 565       | 112009           | NR               | 695       | 17459            | NR               | 825       | 2014             | NR               | 955       | 2634             | NR               |
| 440       | 59674            | NR               | 570       | 121662           | NR               | 700       | 15207            | NR               | 830       | 2488             | NR               | 960       | 4200             | NR               |
| 445       | 72751            | NR               | 575       | 130476           | NR               | 705       | 13322            | NR               | 835       | 2625             | NR               | 965       | 1982             | NR               |
| 450       | 65091            | NR               | 580       | 137926           | NR               | 710       | 11676            | NR               | 840       | 2754             | NR               | 970       | 3613             | NR               |
| 455       | 44894            | NR               | 585       | 143406           | NR               | 715       | 10626            | NR               | 845       | 2708             | NR               | 975       | 4034             | NR               |
| 460       | 32712            | NR               | 590       | 147039           | NR               | 720       | 9416             | NR               | 850       | 2608             | NR               | 980       | 3922             | NR               |
| 465       | 25296            | NR               | 595       | 147365           | NR               | 725       | 8333             | NR               | 855       | 2605             | NR               | 985       | 1909             | NR               |
| 470       | 19318            | NR               | 600       | 145800           | NR               | 730       | 7134             | NR               | 860       | 1765             | NR               | 990       | 3617             | NR               |
| 475       | 17265            | NR               | 605       | 141363           | NR               | 735       | 6437             | NR               | 865       | 2581             | NR               | 995       | 4767             | NR               |
| 480       | 18260            | NR               | 610       | 134199           | NR               | 740       | 5834             | NR               | 870       | 3016             | NR               | 1000      | 2528             | NR               |
| 485       | 20845            | NR               | 615       | 127683           | NR               | 745       | 5500             | NR               | 875       | 3952             | NR               |           |                  |                  |

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### Summary

$R_f = 75.7$   
 $R_g = 93.9$   
 CIE  $R_a = 71.8$   
 $R_g = -38.3$



### Color Vector Graphics

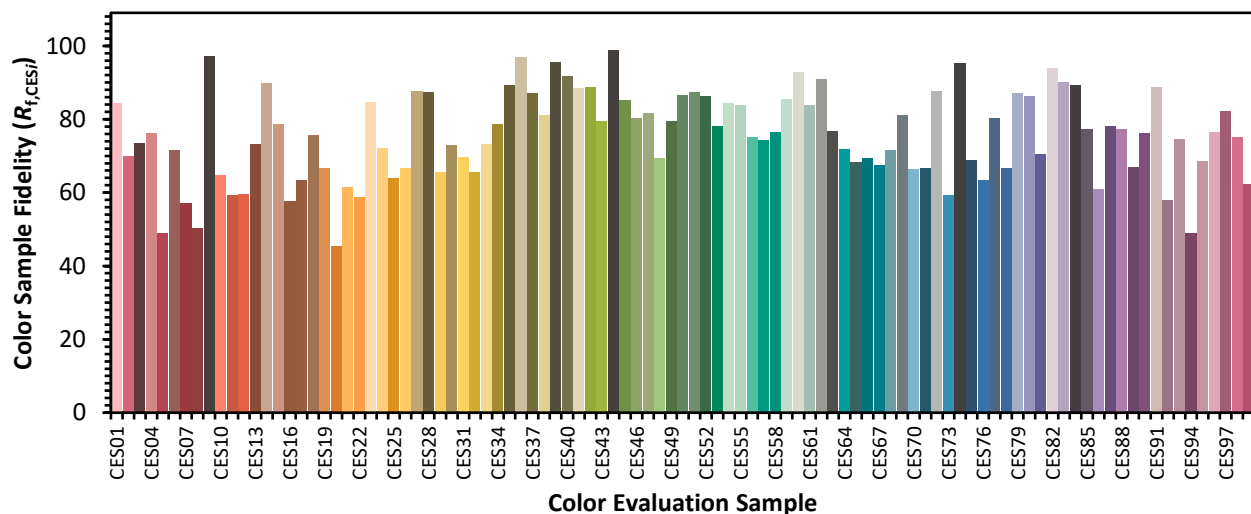


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**Individual Sample Fidelity Index ( $R_{f,i}$ )**

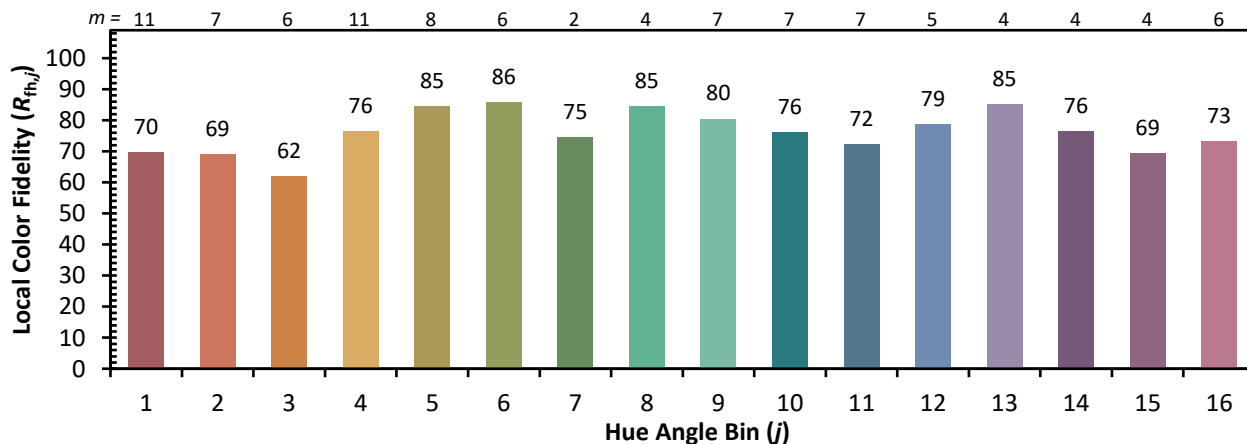
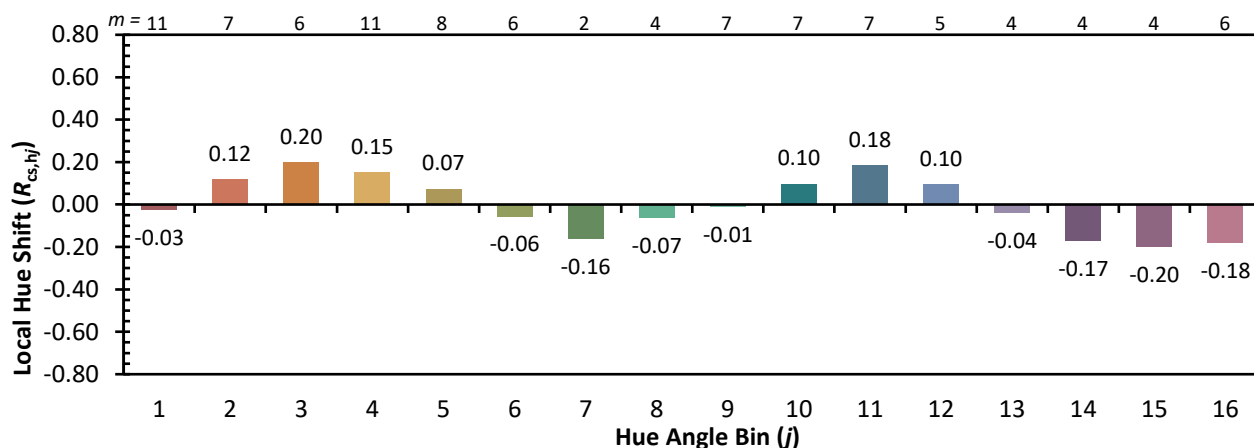
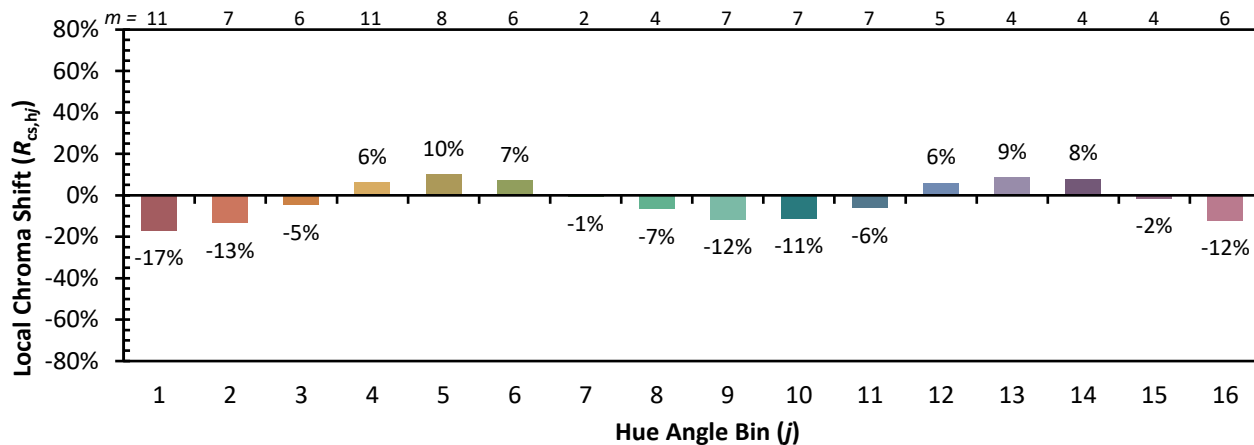
|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 67 | CES51 = 87 | CES76 = 63 |
| CES02 = 63 | CES27 = 88 | CES52 = 86 | CES77 = 80 |
| CES03 = 31 | CES28 = 87 | CES53 = 78 | CES78 = 67 |
| CES04 = 71 | CES29 = 66 | CES54 = 84 | CES79 = 87 |
| CES05 = 49 | CES30 = 73 | CES55 = 84 | CES80 = 86 |
| CES06 = 51 | CES31 = 70 | CES56 = 75 | CES81 = 71 |
| CES07 = 41 | CES32 = 65 | CES57 = 74 | CES82 = 94 |
| CES08 = 40 | CES33 = 73 | CES58 = 76 | CES83 = 90 |
| CES09 = 29 | CES34 = 79 | CES59 = 85 | CES84 = 89 |
| CES10 = 76 | CES35 = 89 | CES60 = 93 | CES85 = 77 |
| CES11 = 59 | CES36 = 97 | CES61 = 84 | CES86 = 61 |
| CES12 = 65 | CES37 = 87 | CES62 = 91 | CES87 = 78 |
| CES13 = 43 | CES38 = 81 | CES63 = 77 | CES88 = 77 |
| CES14 = 74 | CES39 = 95 | CES64 = 72 | CES89 = 67 |
| CES15 = 71 | CES40 = 92 | CES65 = 68 | CES90 = 76 |
| CES16 = 47 | CES41 = 88 | CES66 = 69 | CES91 = 89 |
| CES17 = 50 | CES42 = 89 | CES67 = 67 | CES92 = 58 |
| CES18 = 56 | CES43 = 79 | CES68 = 72 | CES93 = 74 |
| CES19 = 73 | CES44 = 99 | CES69 = 81 | CES94 = 49 |
| CES20 = 66 | CES45 = 85 | CES70 = 66 | CES95 = 68 |
| CES21 = 87 | CES46 = 80 | CES71 = 67 | CES96 = 76 |
| CES22 = 79 | CES47 = 82 | CES72 = 88 | CES97 = 82 |
| CES23 = 92 | CES48 = 69 | CES73 = 59 | CES98 = 75 |
| CES24 = 91 | CES49 = 80 | CES74 = 95 | CES99 = 62 |
| CES25 = 73 | CES50 = 87 | CES75 = 69 |            |



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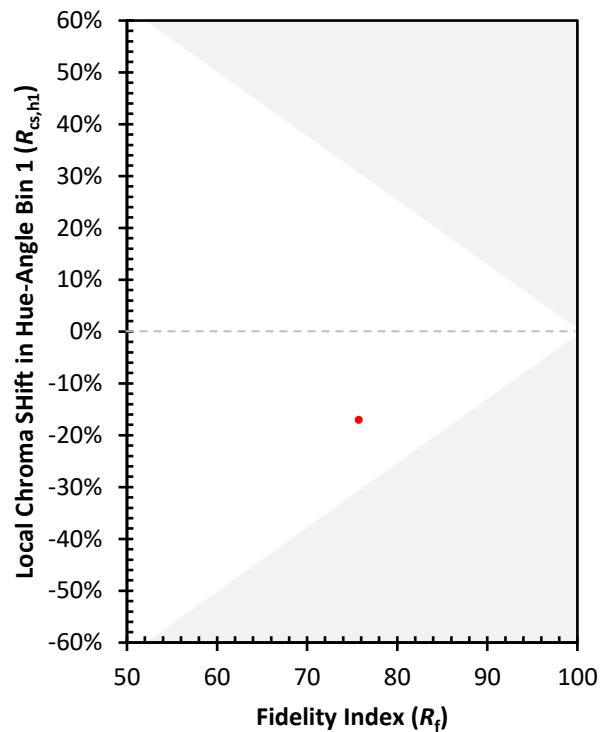
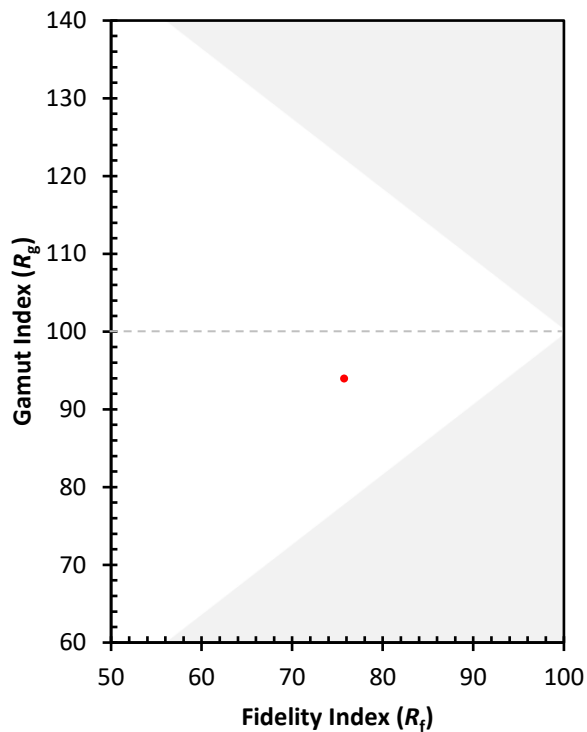
Color Rendition by Hue-Angle Bin



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**Measure Comparisons**



(END OF REPORT)