

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



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

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P320753

Luminaire Tested: **GLEON-SA9A-827-U-SLR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320753
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-SA9A-827-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 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: 26915 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

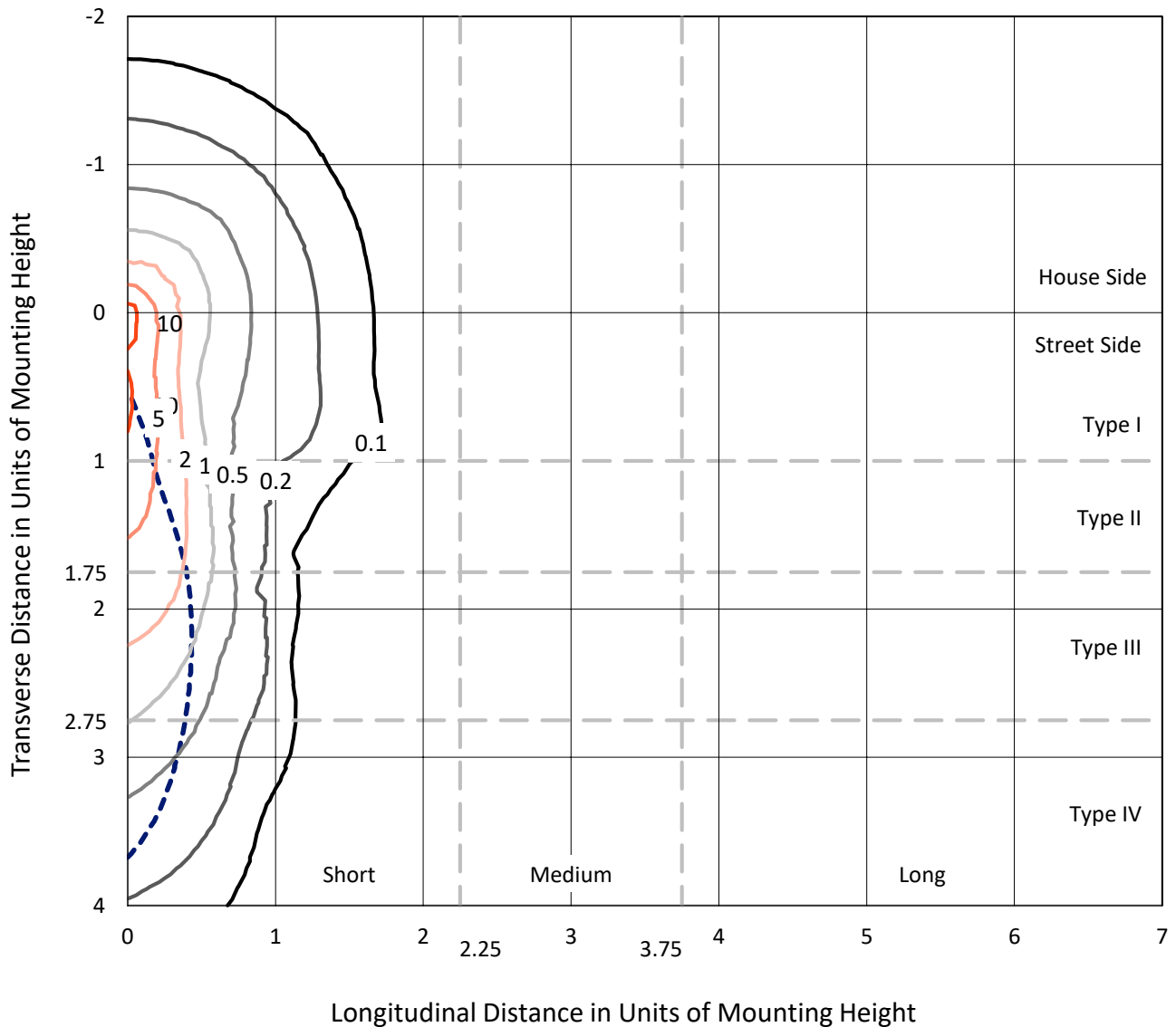
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

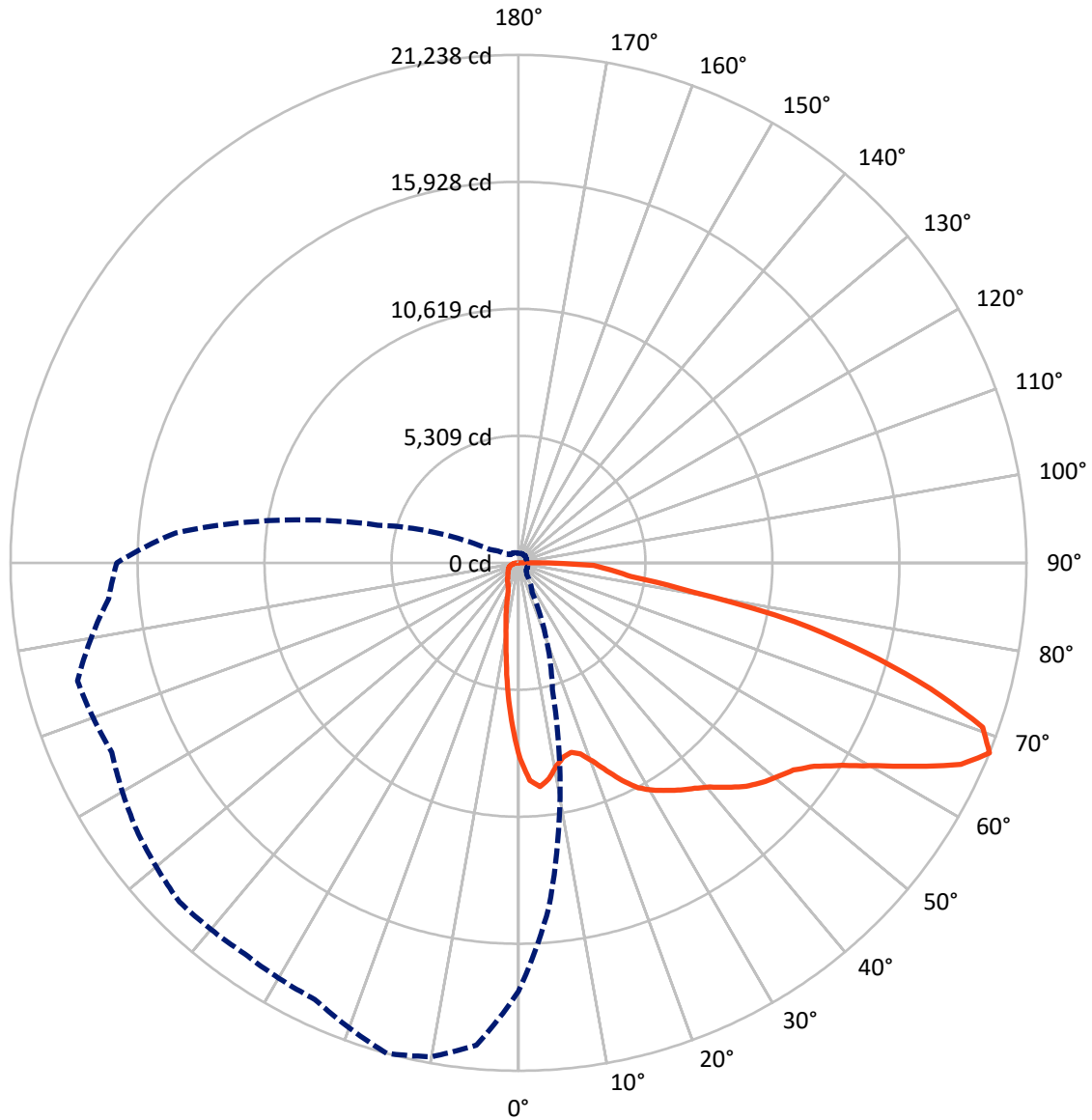
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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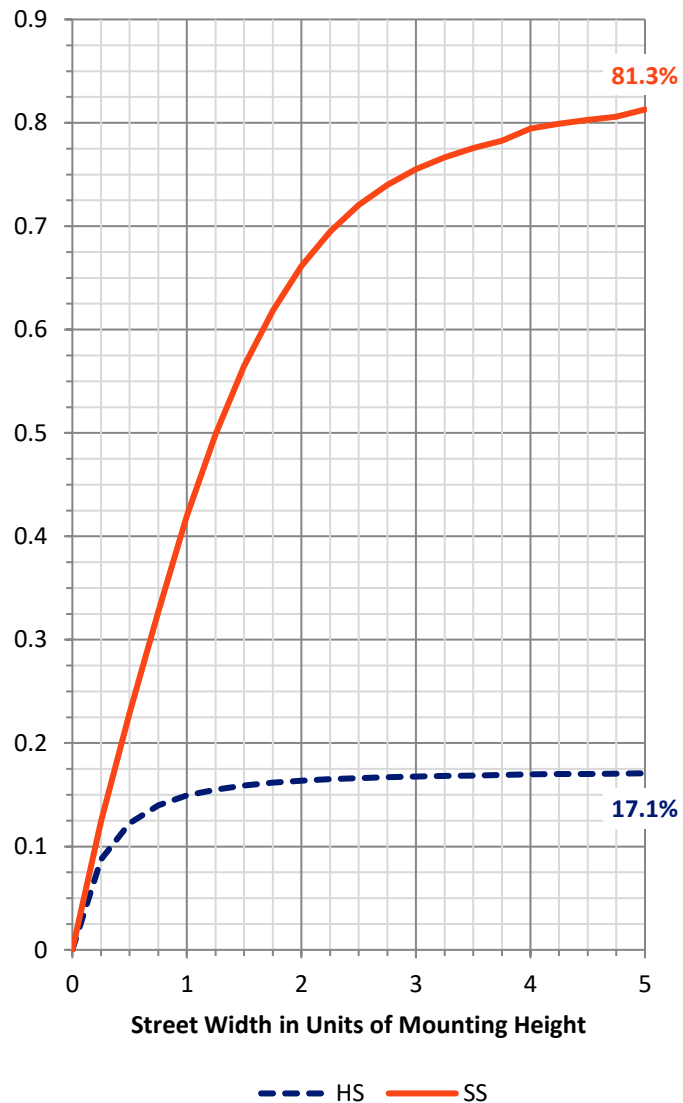
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4653.0 | 0.0 | 4653.0 |
| | % Fixture | 17.3 | 0.0 | 17.3 |
| Street Side | Lumens | 22262.0 | 0.0 | 22262.0 |
| | % Fixture | 82.7 | 0.0 | 82.7 |
| Total | Lumens | 26915.0 | 0.0 | 26915.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 632.8 | 2.4 |
| 10°-20° | 1314.7 | 4.9 |
| 20°-30° | 1869.7 | 6.9 |
| 30°-40° | 2694.3 | 10.0 |
| 40°-50° | 3797.0 | 14.1 |
| 50°-60° | 5278.5 | 19.6 |
| 60°-70° | 6383.3 | 23.7 |
| 70°-80° | 3923.7 | 14.6 |
| 80°-90° | 1021.0 | 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° | 26915.0 | 100.0 |
| 0°-180° | 26915.0 | 100.0 |

Coefficient of Utilization

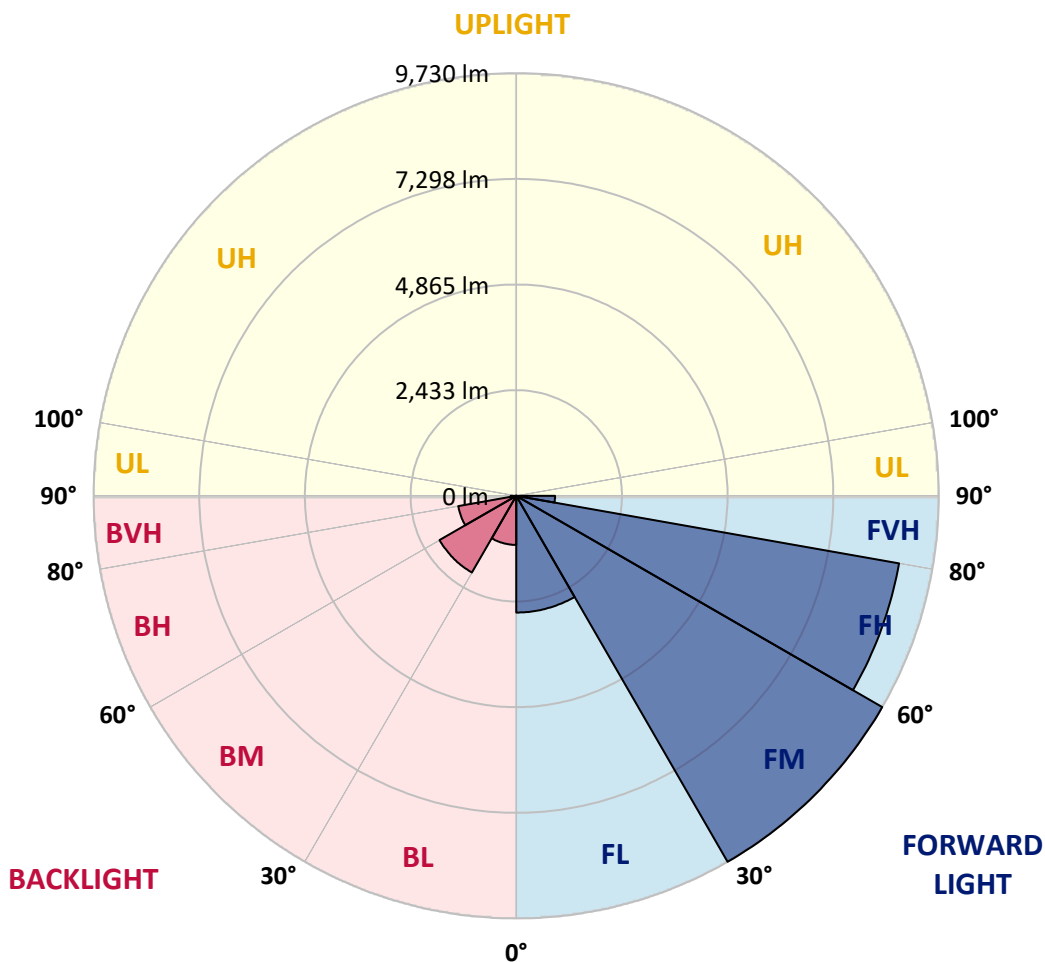


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2687.5 | 10.0 | | | |
| FM (30°-60°) | 9730.4 | 36.2 | | | |
| FH (60°-80°) | 8951.0 | 33.3 | | | G4/12000 |
| FVH (80°-90°) | 893.0 | 3.3 | | | G5 |
| BL (0°-30°) | 1129.7 | 4.2 | B3/2500 | | |
| BM (30°-60°) | 2039.4 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 1356.0 | 5.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 128.0 | 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





REPORT NUMBER: P320753

CATALOG NUMBER: GLEON-SA9A-827-U-SLR

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 |
| 2.5° | 8784.2 | 8706.7 | 8589.4 | 8472.1 | 8384.9 | 8296.7 | 8196.6 | 8096.5 | 7982.5 | 7867.3 | 7799.5 |
| 5° | 8638.9 | 8423.7 | 8143.9 | 7864.1 | 7679.0 | 7493.9 | 7284.1 | 7074.2 | 6866.6 | 6658.9 | 6547.0 |
| 7.5° | 7984.6 | 7661.8 | 7298.1 | 6934.4 | 6665.3 | 6395.2 | 6104.7 | 5813.1 | 5554.8 | 5295.5 | 5135.1 |
| 10° | 7341.1 | 6953.7 | 6536.2 | 6117.6 | 5773.2 | 5428.9 | 5137.3 | 4844.6 | 4649.8 | 4455.0 | 4307.6 |
| 12.5° | 6879.5 | 6450.1 | 5990.6 | 5530.1 | 5185.7 | 4841.3 | 4656.3 | 4471.2 | 4309.8 | 4148.3 | 3978.3 |
| 15° | 6696.5 | 6211.2 | 5741.0 | 5269.6 | 4956.5 | 4643.3 | 4437.8 | 4231.2 | 4014.9 | 3797.5 | 3588.8 |
| 17.5° | 6858.0 | 6289.8 | 5778.6 | 5267.5 | 4857.5 | 4447.5 | 4160.2 | 3871.8 | 3586.6 | 3301.5 | 3059.3 |
| 20° | 7361.6 | 6636.3 | 5968.0 | 5298.7 | 4753.1 | 4207.5 | 3822.3 | 3436.0 | 3070.1 | 2704.2 | 2429.8 |
| 22.5° | 8068.6 | 7108.7 | 6236.0 | 5363.3 | 4658.4 | 3952.5 | 3469.3 | 2985.1 | 2552.5 | 2119.9 | 1850.9 |
| 25° | 8927.3 | 7735.0 | 6622.3 | 5508.5 | 4619.7 | 3729.7 | 3135.7 | 2541.7 | 2085.5 | 1628.1 | 1436.6 |
| 27.5° | 9832.3 | 8481.8 | 7102.2 | 5721.6 | 4626.1 | 3530.7 | 2854.9 | 2178.0 | 1766.9 | 1355.9 | 1224.6 |
| 30° | 10586.6 | 9335.1 | 7661.8 | 5987.4 | 4650.9 | 3314.4 | 2590.2 | 1865.9 | 1527.0 | 1188.0 | 1103.0 |
| 32.5° | 11276.4 | 9930.2 | 8083.6 | 6236.0 | 4678.9 | 3120.7 | 2385.7 | 1649.7 | 1373.1 | 1095.5 | 1025.5 |
| 35° | 11988.8 | 10458.6 | 8378.5 | 6297.3 | 4630.4 | 2962.5 | 2245.8 | 1529.1 | 1274.1 | 1018.0 | 958.8 |
| 37.5° | 12773.2 | 11030.0 | 8662.6 | 6294.1 | 4548.7 | 2803.2 | 2137.1 | 1469.9 | 1209.5 | 948.0 | 905.0 |
| 40° | 13648.1 | 11661.6 | 8970.3 | 6279.0 | 4474.4 | 2668.7 | 2056.4 | 1443.0 | 1174.0 | 903.9 | 867.3 |
| 42.5° | 14503.6 | 12264.3 | 9256.6 | 6248.9 | 4414.1 | 2578.3 | 1976.8 | 1375.2 | 1141.7 | 907.1 | 855.5 |
| 45° | 15146.0 | 12790.5 | 9505.1 | 6218.8 | 4368.9 | 2519.1 | 1914.4 | 1309.6 | 1111.6 | 913.6 | 848.0 |
| 47.5° | 15633.5 | 13318.8 | 9780.6 | 6241.3 | 4364.6 | 2487.9 | 1870.3 | 1252.6 | 1054.6 | 855.5 | 828.6 |
| 50° | 16253.3 | 13953.7 | 10182.0 | 6410.3 | 4423.8 | 2437.4 | 1818.6 | 1198.8 | 999.7 | 800.6 | 837.2 |
| 52.5° | 17024.9 | 14859.8 | 10804.0 | 6747.1 | 4547.6 | 2348.0 | 1736.8 | 1125.6 | 933.0 | 739.3 | 796.3 |
| 55° | 18158.0 | 16020.9 | 11599.2 | 7176.5 | 4697.2 | 2216.8 | 1613.1 | 1008.3 | 844.7 | 680.1 | 730.7 |
| 57.5° | 19174.9 | 17193.8 | 12362.2 | 7529.4 | 4790.8 | 2051.0 | 1457.0 | 863.0 | 745.7 | 628.4 | 657.5 |
| 60° | 19628.0 | 17798.6 | 12719.4 | 7639.2 | 4734.8 | 1830.4 | 1281.6 | 731.7 | 658.6 | 585.4 | 580.0 |
| 62.5° | 19451.5 | 17414.4 | 12367.6 | 7320.7 | 4461.5 | 1602.3 | 1126.7 | 651.0 | 596.2 | 540.2 | 528.4 |
| 65° | 18935.0 | 16207.1 | 11381.9 | 6556.6 | 3999.8 | 1443.0 | 1028.7 | 614.5 | 553.1 | 491.8 | 478.9 |
| 67.5° | 17917.0 | 14488.5 | 9985.1 | 5481.6 | 3413.4 | 1345.1 | 972.8 | 600.5 | 526.2 | 450.9 | 435.8 |
| 70° | 16089.8 | 12420.3 | 8376.3 | 4331.3 | 2808.6 | 1284.9 | 936.2 | 587.5 | 497.2 | 405.7 | 391.7 |
| 72.5° | 13215.5 | 9958.2 | 6689.0 | 3418.8 | 2348.0 | 1277.3 | 931.9 | 586.5 | 473.5 | 360.5 | 347.6 |
| 75° | 9462.1 | 7563.9 | 5106.1 | 2647.2 | 1923.0 | 1198.8 | 884.5 | 570.3 | 441.2 | 311.0 | 299.2 |
| 77.5° | 6367.3 | 5235.2 | 3549.0 | 1861.6 | 1426.9 | 992.2 | 743.6 | 495.0 | 377.7 | 260.4 | 248.6 |
| 80° | 4089.2 | 3623.2 | 2378.2 | 1133.1 | 925.4 | 717.8 | 531.6 | 345.4 | 275.5 | 204.5 | 194.8 |
| 82.5° | 3000.2 | 2696.7 | 1652.9 | 609.1 | 514.4 | 418.6 | 325.0 | 231.4 | 188.3 | 145.3 | 141.0 |
| 85° | 1906.8 | 2102.7 | 1217.1 | 331.4 | 271.2 | 210.9 | 174.3 | 137.7 | 108.7 | 79.6 | 79.6 |
| 87.5° | 370.2 | 512.2 | 336.8 | 160.3 | 117.3 | 74.3 | 63.5 | 51.7 | 29.1 | 5.4 | 6.5 |
| 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-SA9A-827-U-SLR

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° | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 |
| 2.5° | 7730.7 | 7656.4 | 7582.2 | 7498.2 | 7413.2 | 7334.7 | 7255.0 | 7167.9 | 7184.0 | 7117.3 | 7050.6 |
| 5° | 6435.0 | 6316.7 | 6197.2 | 6093.9 | 5990.6 | 5901.3 | 5810.9 | 5730.2 | 5800.2 | 5752.8 | 5705.5 |
| 7.5° | 4973.7 | 4827.4 | 4679.9 | 4556.2 | 4432.4 | 4336.7 | 4239.8 | 4173.1 | 4242.0 | 4233.4 | 4224.7 |
| 10° | 4160.2 | 4018.1 | 3875.0 | 3738.4 | 3601.7 | 3485.5 | 3368.2 | 3269.2 | 3252.0 | 3202.5 | 3151.9 |
| 12.5° | 3807.2 | 3612.4 | 3416.6 | 3273.5 | 3130.4 | 2991.5 | 2852.7 | 2736.5 | 2683.8 | 2602.0 | 2519.1 |
| 15° | 3380.0 | 3149.7 | 2919.4 | 2757.0 | 2593.4 | 2458.9 | 2323.3 | 2223.2 | 2189.9 | 2126.4 | 2062.9 |
| 17.5° | 2817.2 | 2565.4 | 2313.6 | 2149.0 | 1983.2 | 1875.6 | 1766.9 | 1700.2 | 1700.2 | 1681.9 | 1663.6 |
| 20° | 2155.4 | 1930.5 | 1705.6 | 1579.7 | 1453.8 | 1396.8 | 1338.7 | 1310.7 | 1319.3 | 1320.4 | 1320.4 |
| 22.5° | 1580.8 | 1443.0 | 1305.3 | 1254.7 | 1203.1 | 1182.6 | 1162.2 | 1150.3 | 1154.6 | 1155.7 | 1156.8 |
| 25° | 1245.0 | 1192.3 | 1138.5 | 1112.7 | 1085.8 | 1072.9 | 1060.0 | 1055.6 | 1065.3 | 1066.4 | 1066.4 |
| 27.5° | 1093.3 | 1061.0 | 1027.7 | 1011.5 | 994.3 | 988.9 | 983.6 | 976.0 | 985.7 | 985.7 | 984.6 |
| 30° | 1016.9 | 982.5 | 948.0 | 927.6 | 907.1 | 909.3 | 910.4 | 908.2 | 914.7 | 919.0 | 922.2 |
| 32.5° | 954.5 | 921.1 | 887.8 | 867.3 | 845.8 | 842.6 | 839.4 | 837.2 | 851.2 | 858.7 | 866.3 |
| 35° | 898.5 | 862.0 | 825.4 | 806.0 | 786.6 | 779.1 | 771.6 | 766.2 | 779.1 | 788.8 | 798.5 |
| 37.5° | 860.9 | 823.2 | 784.5 | 766.2 | 746.8 | 737.1 | 727.4 | 721.0 | 726.4 | 730.7 | 735.0 |
| 40° | 830.7 | 792.0 | 752.2 | 730.7 | 709.1 | 699.5 | 689.8 | 684.4 | 687.6 | 688.7 | 689.8 |
| 42.5° | 802.8 | 765.1 | 727.4 | 703.8 | 679.0 | 667.2 | 655.3 | 648.9 | 651.0 | 653.2 | 654.3 |
| 45° | 782.3 | 744.7 | 705.9 | 677.9 | 648.9 | 636.0 | 623.1 | 615.5 | 616.6 | 616.6 | 616.6 |
| 47.5° | 801.7 | 746.8 | 690.9 | 658.6 | 625.2 | 610.1 | 595.1 | 587.5 | 585.4 | 583.2 | 581.1 |
| 50° | 872.7 | 779.1 | 684.4 | 643.5 | 601.5 | 585.4 | 568.2 | 559.6 | 554.2 | 552.0 | 549.9 |
| 52.5° | 852.3 | 771.6 | 689.8 | 637.0 | 583.2 | 563.9 | 544.5 | 530.5 | 525.1 | 521.9 | 518.7 |
| 55° | 780.2 | 729.6 | 677.9 | 614.5 | 551.0 | 533.7 | 515.4 | 505.8 | 496.1 | 493.9 | 491.8 |
| 57.5° | 685.5 | 665.0 | 644.6 | 580.0 | 515.4 | 499.3 | 482.1 | 475.6 | 467.0 | 467.0 | 465.9 |
| 60° | 573.6 | 603.7 | 633.8 | 559.6 | 484.2 | 465.9 | 447.7 | 442.3 | 439.0 | 438.0 | 436.9 |
| 62.5° | 515.4 | 564.9 | 613.4 | 534.8 | 455.2 | 435.8 | 416.4 | 410.0 | 408.9 | 410.0 | 410.0 |
| 65° | 465.9 | 481.0 | 496.1 | 459.5 | 422.9 | 403.5 | 383.1 | 376.6 | 378.8 | 382.0 | 385.2 |
| 67.5° | 420.8 | 417.5 | 414.3 | 401.4 | 387.4 | 371.3 | 354.0 | 347.6 | 348.7 | 353.0 | 357.3 |
| 70° | 377.7 | 373.4 | 368.0 | 358.3 | 348.7 | 334.7 | 320.7 | 316.4 | 315.3 | 320.7 | 325.0 |
| 72.5° | 334.7 | 329.3 | 322.8 | 315.3 | 306.7 | 294.8 | 283.0 | 279.8 | 280.9 | 284.1 | 287.3 |
| 75° | 287.3 | 283.0 | 277.6 | 271.2 | 263.6 | 252.9 | 242.1 | 240.0 | 242.1 | 245.3 | 248.6 |
| 77.5° | 235.7 | 234.6 | 232.4 | 227.1 | 221.7 | 209.8 | 196.9 | 195.8 | 199.1 | 202.3 | 204.5 |
| 80° | 184.0 | 185.1 | 186.2 | 181.9 | 177.6 | 164.6 | 150.7 | 149.6 | 152.8 | 156.0 | 159.3 |
| 82.5° | 135.6 | 138.8 | 141.0 | 135.6 | 130.2 | 115.1 | 100.1 | 97.9 | 108.7 | 111.9 | 115.1 |
| 85° | 78.6 | 82.9 | 87.2 | 82.9 | 78.6 | 63.5 | 48.4 | 47.3 | 57.0 | 62.4 | 67.8 |
| 87.5° | 6.5 | 8.6 | 10.8 | 9.7 | 8.6 | 4.3 | 0.0 | 0.0 | 1.1 | 5.4 | 9.7 |
| 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 |



REPORT NUMBER: P320753
 CATALOG NUMBER: GLEON-SA9A-827-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: P320753
 CATALOG NUMBER: GLEON-SA9A-827-U-SLR

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 |
| 2.5° | 7008.6 | 6966.6 | 6953.7 | 6940.8 | 6893.5 | 6845.0 | 6894.5 | 6943.0 | 6963.4 | 6983.9 | 6931.1 |
| 5° | 5699.0 | 5691.5 | 5691.5 | 5690.4 | 5647.3 | 5603.2 | 5636.6 | 5668.9 | 5596.8 | 5524.7 | 5517.1 |
| 7.5° | 4271.0 | 4317.3 | 4355.0 | 4391.5 | 4377.6 | 4363.6 | 4394.8 | 4426.0 | 4334.5 | 4242.0 | 4196.8 |
| 10° | 3162.6 | 3172.3 | 3213.2 | 3254.1 | 3263.8 | 3272.4 | 3311.1 | 3348.8 | 3277.8 | 3206.8 | 3175.6 |
| 12.5° | 2467.5 | 2415.8 | 2421.2 | 2425.5 | 2444.9 | 2463.2 | 2504.1 | 2543.9 | 2514.8 | 2484.7 | 2487.9 |
| 15° | 1998.3 | 1932.7 | 1905.8 | 1877.8 | 1899.3 | 1920.8 | 1949.9 | 1977.9 | 1978.9 | 1978.9 | 2006.9 |
| 17.5° | 1631.4 | 1598.0 | 1571.1 | 1543.1 | 1572.2 | 1600.2 | 1603.4 | 1606.6 | 1607.7 | 1608.8 | 1606.6 |
| 20° | 1336.5 | 1352.7 | 1344.0 | 1335.4 | 1346.2 | 1355.9 | 1364.5 | 1372.0 | 1362.3 | 1351.6 | 1324.7 |
| 22.5° | 1171.9 | 1185.9 | 1196.6 | 1206.3 | 1224.6 | 1241.8 | 1233.2 | 1223.5 | 1204.1 | 1183.7 | 1163.3 |
| 25° | 1076.1 | 1085.8 | 1096.5 | 1107.3 | 1122.4 | 1136.4 | 1121.3 | 1106.2 | 1092.2 | 1078.2 | 1064.3 |
| 27.5° | 995.4 | 1005.1 | 1014.8 | 1023.4 | 1037.4 | 1050.3 | 1036.3 | 1022.3 | 1010.5 | 998.6 | 987.9 |
| 30° | 929.7 | 936.2 | 943.7 | 951.3 | 964.2 | 976.0 | 964.2 | 951.3 | 942.7 | 933.0 | 925.4 |
| 32.5° | 873.8 | 880.2 | 883.5 | 886.7 | 898.5 | 910.4 | 901.8 | 893.2 | 885.6 | 878.1 | 872.7 |
| 35° | 812.5 | 825.4 | 827.5 | 829.7 | 841.5 | 853.3 | 848.0 | 841.5 | 832.9 | 824.3 | 814.6 |
| 37.5° | 750.0 | 765.1 | 773.7 | 781.2 | 793.1 | 804.9 | 799.5 | 794.2 | 782.3 | 770.5 | 753.3 |
| 40° | 697.3 | 703.8 | 719.9 | 735.0 | 754.3 | 772.6 | 761.9 | 750.0 | 731.7 | 713.5 | 704.8 |
| 42.5° | 653.2 | 652.1 | 667.2 | 682.2 | 711.3 | 739.3 | 719.9 | 700.5 | 683.3 | 666.1 | 664.0 |
| 45° | 614.5 | 611.2 | 618.8 | 626.3 | 657.5 | 687.6 | 668.3 | 647.8 | 638.1 | 628.4 | 628.4 |
| 47.5° | 580.0 | 577.9 | 583.2 | 587.5 | 606.9 | 625.2 | 615.5 | 605.8 | 600.5 | 595.1 | 596.2 |
| 50° | 548.8 | 546.7 | 552.0 | 556.3 | 563.9 | 570.3 | 572.5 | 573.6 | 570.3 | 567.1 | 569.3 |
| 52.5° | 519.8 | 519.8 | 521.9 | 523.0 | 532.7 | 542.4 | 542.4 | 541.3 | 541.3 | 541.3 | 543.4 |
| 55° | 495.0 | 497.2 | 497.2 | 497.2 | 512.2 | 526.2 | 521.9 | 517.6 | 518.7 | 518.7 | 520.8 |
| 57.5° | 470.3 | 473.5 | 475.6 | 477.8 | 492.9 | 507.9 | 503.6 | 499.3 | 499.3 | 499.3 | 500.4 |
| 60° | 442.3 | 446.6 | 450.9 | 455.2 | 470.3 | 485.3 | 481.0 | 475.6 | 476.7 | 477.8 | 478.9 |
| 62.5° | 415.4 | 419.7 | 424.0 | 428.3 | 443.4 | 458.4 | 454.1 | 448.7 | 452.0 | 454.1 | 454.1 |
| 65° | 389.5 | 392.8 | 397.1 | 401.4 | 415.4 | 429.4 | 425.1 | 420.8 | 425.1 | 428.3 | 430.4 |
| 67.5° | 360.5 | 362.6 | 366.9 | 371.3 | 385.2 | 399.2 | 394.9 | 389.5 | 394.9 | 399.2 | 403.5 |
| 70° | 327.1 | 329.3 | 334.7 | 339.0 | 353.0 | 366.9 | 361.6 | 356.2 | 361.6 | 366.9 | 371.3 |
| 72.5° | 290.5 | 292.7 | 298.1 | 302.4 | 318.5 | 334.7 | 328.2 | 321.8 | 328.2 | 334.7 | 336.8 |
| 75° | 250.7 | 252.9 | 259.3 | 264.7 | 280.9 | 297.0 | 291.6 | 285.2 | 290.5 | 295.9 | 297.0 |
| 77.5° | 207.7 | 210.9 | 219.5 | 228.1 | 241.0 | 254.0 | 250.7 | 247.5 | 250.7 | 254.0 | 254.0 |
| 80° | 162.5 | 165.7 | 176.5 | 186.2 | 193.7 | 201.2 | 202.3 | 203.4 | 204.5 | 205.5 | 204.5 |
| 82.5° | 120.5 | 124.8 | 134.5 | 144.2 | 144.2 | 144.2 | 152.8 | 160.3 | 160.3 | 159.3 | 158.2 |
| 85° | 74.3 | 79.6 | 88.2 | 96.8 | 91.5 | 86.1 | 100.1 | 113.0 | 113.0 | 111.9 | 109.8 |
| 87.5° | 15.1 | 20.4 | 29.1 | 36.6 | 31.2 | 25.8 | 39.8 | 53.8 | 54.9 | 54.9 | 52.7 |
| 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 |



REPORT NUMBER: P320753
 CATALOG NUMBER: GLEON-SA9A-827-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 |



REPORT NUMBER: P320753
 CATALOG NUMBER: GLEON-SA9A-827-U-SLR

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 |
| 2.5° | 6877.3 | 6961.3 | 7044.1 | 7065.6 | 7097.9 | 7111.9 | 7124.8 | 7230.3 | 7334.7 | 7457.3 | 7580.0 |
| 5° | 5508.5 | 5570.9 | 5633.4 | 5643.0 | 5676.4 | 5693.6 | 5710.8 | 5838.9 | 5965.9 | 6137.0 | 6308.1 |
| 7.5° | 4151.6 | 4166.6 | 4181.7 | 4179.6 | 4207.5 | 4245.2 | 4281.8 | 4418.4 | 4554.0 | 4738.0 | 4921.0 |
| 10° | 3144.3 | 3178.8 | 3212.1 | 3243.3 | 3304.7 | 3375.7 | 3445.7 | 3585.5 | 3725.4 | 3907.3 | 4088.1 |
| 12.5° | 2491.2 | 2531.0 | 2569.7 | 2604.1 | 2675.2 | 2769.9 | 2863.5 | 3031.4 | 3199.2 | 3416.6 | 3632.9 |
| 15° | 2033.8 | 2030.6 | 2027.4 | 2051.0 | 2113.4 | 2216.8 | 2319.0 | 2496.5 | 2674.1 | 2913.0 | 3150.8 |
| 17.5° | 1604.5 | 1588.3 | 1572.2 | 1590.5 | 1648.6 | 1733.6 | 1817.5 | 1968.2 | 2117.8 | 2349.1 | 2580.5 |
| 20° | 1297.8 | 1287.0 | 1276.2 | 1293.5 | 1330.1 | 1365.6 | 1401.1 | 1509.8 | 1617.4 | 1805.7 | 1992.9 |
| 22.5° | 1141.7 | 1140.7 | 1138.5 | 1148.2 | 1165.4 | 1183.7 | 1200.9 | 1253.7 | 1305.3 | 1426.9 | 1547.4 |
| 25° | 1050.3 | 1049.2 | 1048.1 | 1052.4 | 1066.4 | 1080.4 | 1094.4 | 1128.8 | 1163.3 | 1221.4 | 1279.5 |
| 27.5° | 977.1 | 974.9 | 972.8 | 973.9 | 977.1 | 998.6 | 1019.1 | 1035.2 | 1050.3 | 1090.1 | 1128.8 |
| 30° | 917.9 | 916.8 | 915.8 | 915.8 | 912.5 | 920.1 | 927.6 | 952.3 | 976.0 | 1016.9 | 1057.8 |
| 32.5° | 867.3 | 862.0 | 856.6 | 844.7 | 837.2 | 848.0 | 858.7 | 884.5 | 910.4 | 948.0 | 985.7 |
| 35° | 803.8 | 789.9 | 774.8 | 768.3 | 769.4 | 780.2 | 790.9 | 816.8 | 841.5 | 882.4 | 922.2 |
| 37.5° | 735.0 | 730.7 | 725.3 | 724.2 | 727.4 | 738.2 | 749.0 | 771.6 | 793.1 | 834.0 | 873.8 |
| 40° | 696.2 | 694.1 | 691.9 | 689.8 | 691.9 | 702.7 | 713.5 | 735.0 | 755.4 | 795.2 | 834.0 |
| 42.5° | 661.8 | 660.7 | 659.6 | 659.6 | 660.7 | 672.6 | 684.4 | 705.9 | 726.4 | 761.9 | 797.4 |
| 45° | 628.4 | 629.5 | 629.5 | 631.7 | 634.9 | 646.7 | 657.5 | 681.2 | 704.8 | 739.3 | 773.7 |
| 47.5° | 597.2 | 600.5 | 602.6 | 608.0 | 611.2 | 624.1 | 636.0 | 661.8 | 687.6 | 730.7 | 772.6 |
| 50° | 570.3 | 573.6 | 575.7 | 580.0 | 588.6 | 603.7 | 618.8 | 650.0 | 680.1 | 752.2 | 823.2 |
| 52.5° | 545.6 | 548.8 | 552.0 | 556.3 | 567.1 | 584.3 | 601.5 | 640.3 | 677.9 | 761.9 | 845.8 |
| 55° | 523.0 | 526.2 | 528.4 | 534.8 | 545.6 | 560.6 | 574.6 | 622.0 | 669.3 | 730.7 | 792.0 |
| 57.5° | 501.5 | 504.7 | 506.8 | 511.1 | 516.5 | 532.7 | 547.7 | 598.3 | 648.9 | 691.9 | 733.9 |
| 60° | 478.9 | 481.0 | 482.1 | 482.1 | 486.4 | 504.7 | 523.0 | 587.5 | 651.0 | 643.5 | 634.9 |
| 62.5° | 454.1 | 456.3 | 457.3 | 454.1 | 459.5 | 478.9 | 498.2 | 582.2 | 666.1 | 614.5 | 562.8 |
| 65° | 431.5 | 430.4 | 429.4 | 426.1 | 432.6 | 452.0 | 470.3 | 512.2 | 554.2 | 533.7 | 513.3 |
| 67.5° | 406.8 | 403.5 | 400.3 | 396.0 | 402.5 | 419.7 | 435.8 | 449.8 | 463.8 | 465.9 | 468.1 |
| 70° | 375.6 | 371.3 | 366.9 | 365.9 | 369.1 | 383.1 | 397.1 | 406.8 | 415.4 | 419.7 | 422.9 |
| 72.5° | 339.0 | 335.7 | 332.5 | 330.4 | 331.4 | 343.3 | 354.0 | 362.6 | 371.3 | 374.5 | 376.6 |
| 75° | 298.1 | 298.1 | 297.0 | 290.5 | 290.5 | 300.2 | 308.8 | 316.4 | 323.9 | 328.2 | 332.5 |
| 77.5° | 254.0 | 255.0 | 255.0 | 246.4 | 245.3 | 255.0 | 263.6 | 270.1 | 275.5 | 279.8 | 283.0 |
| 80° | 203.4 | 201.2 | 199.1 | 193.7 | 191.5 | 203.4 | 214.1 | 219.5 | 223.8 | 224.9 | 224.9 |
| 82.5° | 156.0 | 151.7 | 146.3 | 134.5 | 135.6 | 148.5 | 160.3 | 164.6 | 168.9 | 168.9 | 168.9 |
| 85° | 106.5 | 97.9 | 88.2 | 78.6 | 79.6 | 93.6 | 106.5 | 110.8 | 115.1 | 117.3 | 118.4 |
| 87.5° | 50.6 | 42.0 | 32.3 | 24.8 | 24.8 | 36.6 | 47.3 | 49.5 | 51.7 | 56.0 | 60.3 |
| 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 |



REPORT NUMBER: P320753
 CATALOG NUMBER: GLEON-SA9A-827-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 |



REPORT NUMBER: P320753
 CATALOG NUMBER: GLEON-SA9A-827-U-SLR

CANDELA DISTRIBUTION (continued):

| | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 |
| 2.5° | 7673.6 | 7766.2 | 7861.9 | 7957.7 | 8067.5 | 8177.2 | 8305.3 | 8432.3 | 8541.0 | 8649.6 | 8740.0 |
| 5° | 6455.5 | 6602.9 | 6776.2 | 6949.4 | 7170.0 | 7390.6 | 7660.7 | 7929.7 | 8169.7 | 8409.7 | 8688.4 |
| 7.5° | 5113.6 | 5305.1 | 5531.1 | 5757.1 | 6042.3 | 6327.4 | 6677.2 | 7026.9 | 7365.9 | 7703.8 | 8132.0 |
| 10° | 4289.3 | 4490.5 | 4713.3 | 4935.0 | 5225.5 | 5515.0 | 5885.2 | 6254.3 | 6635.2 | 7015.1 | 7499.3 |
| 12.5° | 3856.7 | 4079.5 | 4275.3 | 4471.2 | 4706.8 | 4941.4 | 5299.8 | 5658.1 | 6105.8 | 6552.3 | 7018.3 |
| 15° | 3395.1 | 3638.3 | 3872.9 | 4107.5 | 4364.6 | 4620.8 | 4969.4 | 5318.1 | 5807.7 | 6297.3 | 6833.2 |
| 17.5° | 2836.6 | 3092.7 | 3378.9 | 3664.1 | 3999.8 | 4334.5 | 4781.1 | 5227.7 | 5807.7 | 6386.6 | 7018.3 |
| 20° | 2254.4 | 2515.9 | 2858.1 | 3200.3 | 3617.8 | 4034.3 | 4613.2 | 5192.2 | 5973.4 | 6753.6 | 7559.6 |
| 22.5° | 1778.8 | 2009.1 | 2382.5 | 2754.8 | 3236.9 | 3719.0 | 4461.5 | 5202.9 | 6224.1 | 7244.3 | 8332.2 |
| 25° | 1442.0 | 1604.5 | 1971.4 | 2337.3 | 2893.6 | 3450.0 | 4368.9 | 5286.9 | 6588.9 | 7889.9 | 9239.3 |
| 27.5° | 1235.4 | 1341.9 | 1684.1 | 2025.2 | 2633.2 | 3240.1 | 4331.3 | 5421.4 | 7051.6 | 8681.9 | 10226.1 |
| 30° | 1132.1 | 1206.3 | 1495.8 | 1784.2 | 2401.8 | 3019.5 | 4286.1 | 5552.6 | 7497.2 | 9440.6 | 10997.7 |
| 32.5° | 1046.0 | 1105.1 | 1352.7 | 1599.1 | 2201.7 | 2804.3 | 4198.9 | 5592.5 | 7808.1 | 10023.8 | 11650.9 |
| 35° | 972.8 | 1022.3 | 1237.5 | 1452.7 | 2044.6 | 2636.4 | 4052.6 | 5468.7 | 8002.9 | 10537.1 | 12331.0 |
| 37.5° | 913.6 | 952.3 | 1151.4 | 1350.5 | 1909.0 | 2467.5 | 3885.8 | 5304.1 | 8176.2 | 11048.3 | 13096.1 |
| 40° | 867.3 | 900.7 | 1086.9 | 1273.0 | 1779.9 | 2286.7 | 3742.7 | 5197.5 | 8415.1 | 11632.6 | 13904.2 |
| 42.5° | 841.5 | 884.5 | 1030.9 | 1176.2 | 1657.2 | 2138.2 | 3627.5 | 5116.8 | 8636.7 | 12155.6 | 14611.2 |
| 45° | 835.0 | 896.4 | 1001.8 | 1107.3 | 1565.7 | 2024.1 | 3525.3 | 5025.4 | 8779.9 | 12534.4 | 15143.9 |
| 47.5° | 824.3 | 874.9 | 979.2 | 1083.6 | 1520.5 | 1956.3 | 3470.4 | 4983.4 | 8923.0 | 12861.5 | 15586.2 |
| 50° | 830.7 | 837.2 | 961.0 | 1083.6 | 1514.1 | 1944.5 | 3532.8 | 5121.1 | 9232.9 | 13343.6 | 16091.9 |
| 52.5° | 818.9 | 790.9 | 926.5 | 1062.1 | 1513.0 | 1963.9 | 3712.5 | 5461.2 | 9808.6 | 14154.9 | 16639.7 |
| 55° | 756.5 | 719.9 | 862.0 | 1004.0 | 1490.4 | 1975.7 | 3926.7 | 5876.6 | 10581.2 | 15284.8 | 17624.3 |
| 57.5° | 701.6 | 668.3 | 788.8 | 908.2 | 1421.5 | 1934.8 | 4147.3 | 6358.6 | 11398.0 | 16436.3 | 18733.7 |
| 60° | 628.4 | 620.9 | 707.0 | 793.1 | 1315.0 | 1835.8 | 4329.1 | 6821.4 | 11946.8 | 17071.2 | 19160.9 |
| 62.5° | 568.2 | 572.5 | 636.0 | 699.5 | 1181.6 | 1662.6 | 4389.4 | 7115.1 | 11931.7 | 16748.3 | 18730.5 |
| 65° | 521.9 | 529.4 | 591.9 | 654.3 | 1067.5 | 1480.7 | 4191.4 | 6901.0 | 11328.0 | 15754.0 | 17879.3 |
| 67.5° | 476.7 | 485.3 | 559.6 | 632.7 | 966.3 | 1298.8 | 3696.4 | 6092.8 | 10242.3 | 14390.6 | 16796.8 |
| 70° | 433.7 | 444.4 | 525.1 | 605.8 | 893.2 | 1179.4 | 3058.3 | 4937.1 | 8883.2 | 12828.1 | 15543.1 |
| 72.5° | 387.4 | 398.2 | 484.2 | 570.3 | 846.9 | 1122.4 | 2493.3 | 3863.2 | 7208.8 | 10553.3 | 13295.1 |
| 75° | 340.0 | 347.6 | 441.2 | 533.7 | 783.4 | 1033.1 | 1956.3 | 2878.6 | 5517.1 | 8155.7 | 10042.1 |
| 77.5° | 292.7 | 302.4 | 380.9 | 458.4 | 665.0 | 870.6 | 1474.2 | 2077.9 | 4048.3 | 6017.5 | 6983.9 |
| 80° | 233.5 | 242.1 | 298.1 | 353.0 | 513.3 | 672.6 | 1013.7 | 1354.8 | 2786.0 | 4217.2 | 4761.7 |
| 82.5° | 178.6 | 188.3 | 226.0 | 262.6 | 365.9 | 469.2 | 614.5 | 759.7 | 1850.9 | 2941.0 | 2986.2 |
| 85° | 122.7 | 125.9 | 152.8 | 178.6 | 226.0 | 273.3 | 351.9 | 430.4 | 1224.6 | 2018.8 | 1681.9 |
| 87.5° | 61.3 | 61.3 | 79.6 | 97.9 | 121.6 | 145.3 | 186.2 | 226.0 | 391.7 | 557.4 | 320.7 |
| 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 |



REPORT NUMBER: P320753
 CATALOG NUMBER: GLEON-SA9A-827-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 |



REPORT NUMBER: P320753

CATALOG NUMBER: GLEON-SA9A-827-U-SLR

CANDELA DISTRIBUTION (continued):

| | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 |
| 2.5° | 8855.2 | 8933.7 | 9013.4 | 9073.6 | 9135.0 | 9223.2 | 9311.4 | 9327.6 | 9344.8 | 9310.4 | 9275.9 |
| 5° | 8969.2 | 9207.1 | 9446.0 | 9666.6 | 9887.2 | 10019.5 | 10151.9 | 10178.8 | 10205.7 | 10122.8 | 10038.9 |
| 7.5° | 8546.3 | 8960.6 | 9374.9 | 9754.8 | 10134.7 | 10364.9 | 10596.3 | 10648.0 | 10700.7 | 10565.1 | 10429.5 |
| 10° | 7981.4 | 8490.4 | 8999.4 | 9499.8 | 10000.1 | 10334.8 | 10669.5 | 10736.2 | 10802.9 | 10634.0 | 10465.0 |
| 12.5° | 7544.5 | 8087.9 | 8631.4 | 9158.6 | 9687.0 | 10033.5 | 10380.0 | 10462.9 | 10545.7 | 10423.1 | 10299.3 |
| 15° | 7410.0 | 7921.1 | 8432.3 | 8891.8 | 9352.3 | 9635.4 | 9919.4 | 9952.8 | 9987.2 | 9967.9 | 9948.5 |
| 17.5° | 7654.3 | 8115.9 | 8578.6 | 8828.3 | 9079.0 | 9192.0 | 9306.1 | 9342.7 | 9380.3 | 9428.7 | 9478.2 |
| 20° | 8246.1 | 8571.1 | 8897.2 | 8886.4 | 8874.6 | 8819.7 | 8763.7 | 8754.0 | 8744.3 | 8883.2 | 9023.1 |
| 22.5° | 9129.6 | 9258.7 | 9388.9 | 9086.5 | 8784.2 | 8600.1 | 8415.1 | 8378.5 | 8340.8 | 8488.2 | 8636.7 |
| 25° | 10088.4 | 10064.7 | 10040.0 | 9464.3 | 8887.5 | 8536.7 | 8185.9 | 8145.0 | 8104.1 | 8230.0 | 8357.0 |
| 27.5° | 11037.5 | 10882.5 | 10727.6 | 9945.3 | 9162.9 | 8654.0 | 8145.0 | 8104.1 | 8063.2 | 8175.1 | 8287.0 |
| 30° | 11733.7 | 11485.2 | 11236.6 | 10351.0 | 9465.3 | 8860.6 | 8255.8 | 8189.1 | 8121.3 | 8259.0 | 8396.8 |
| 32.5° | 12277.2 | 11943.6 | 11610.0 | 10680.2 | 9750.5 | 9096.2 | 8442.0 | 8337.6 | 8233.2 | 8417.2 | 8601.2 |
| 35° | 12819.5 | 12350.3 | 11880.1 | 10974.0 | 10066.9 | 9374.9 | 8681.9 | 8553.9 | 8425.8 | 8678.7 | 8931.6 |
| 37.5° | 13501.8 | 12828.1 | 12153.4 | 11304.4 | 10455.3 | 9792.5 | 9128.5 | 8997.2 | 8865.9 | 9187.7 | 9510.5 |
| 40° | 14242.1 | 13343.6 | 12445.0 | 11665.9 | 10886.8 | 10370.3 | 9852.7 | 9727.9 | 9602.0 | 9993.7 | 10385.4 |
| 42.5° | 14857.6 | 13823.5 | 12789.4 | 12101.8 | 11413.1 | 11049.3 | 10684.5 | 10683.5 | 10681.3 | 11078.4 | 11475.5 |
| 45° | 15358.0 | 14223.8 | 13088.5 | 12526.8 | 11964.0 | 11774.6 | 11585.2 | 11737.0 | 11888.7 | 12247.0 | 12606.4 |
| 47.5° | 15731.4 | 14559.6 | 13386.6 | 13013.2 | 12639.8 | 12667.8 | 12695.8 | 13004.6 | 13313.4 | 13543.7 | 13775.1 |
| 50° | 15974.6 | 14864.1 | 13752.5 | 13637.3 | 13522.2 | 13772.9 | 14024.7 | 14378.8 | 14733.9 | 14891.0 | 15048.1 |
| 52.5° | 16328.7 | 15277.3 | 14224.9 | 14354.0 | 14483.2 | 14995.4 | 15507.6 | 15865.9 | 16224.3 | 16282.4 | 16341.6 |
| 55° | 17147.6 | 16037.0 | 14925.4 | 15172.9 | 15421.5 | 16172.6 | 16924.8 | 17204.6 | 17484.4 | 17505.9 | 17527.4 |
| 57.5° | 18310.8 | 17101.3 | 15891.8 | 16158.6 | 16425.5 | 17292.8 | 18161.2 | 18462.6 | 18764.9 | 18723.0 | 18679.9 |
| 60° | 19181.4 | 18111.7 | 17041.0 | 17310.1 | 17579.1 | 18424.9 | 19270.7 | 19617.2 | 19964.8 | 19872.2 | 19779.7 |
| 62.5° | 19235.2 | 18663.8 | 18091.3 | 18334.5 | 18578.8 | 19407.4 | 20236.0 | 20592.1 | 20948.3 | 20786.9 | 20625.5 |
| 65° | 18379.7 | 18635.8 | 18891.9 | 18972.6 | 19053.3 | 19826.0 | 20599.7 | 20871.9 | 21145.3 | 21063.5 | 20981.7 |
| 67.5° | 17201.4 | 18145.1 | 19089.9 | 18927.4 | 18764.9 | 19127.6 | 19490.2 | 19771.1 | 20051.9 | 20005.7 | 19958.3 |
| 70° | 16025.2 | 17285.3 | 18545.4 | 17747.0 | 16947.4 | 16797.8 | 16648.3 | 16950.6 | 17254.1 | 17066.9 | 16878.5 |
| 72.5° | 14022.6 | 15365.6 | 16709.6 | 15238.6 | 13767.6 | 13256.4 | 12745.3 | 13129.4 | 13513.6 | 13215.5 | 12916.4 |
| 75° | 11007.4 | 12491.3 | 13976.3 | 12221.2 | 10466.1 | 9783.9 | 9101.6 | 9432.0 | 9762.3 | 9557.9 | 9352.3 |
| 77.5° | 8194.5 | 9656.9 | 11119.3 | 9335.1 | 7549.9 | 7043.0 | 6535.1 | 6633.0 | 6732.0 | 6697.6 | 6662.1 |
| 80° | 5558.0 | 6577.1 | 7597.2 | 6409.2 | 5221.2 | 5260.0 | 5299.8 | 5253.5 | 5206.1 | 5275.0 | 5343.9 |
| 82.5° | 3546.8 | 4333.4 | 5121.1 | 4490.5 | 3860.0 | 4221.5 | 4583.1 | 4405.5 | 4226.9 | 4292.5 | 4359.3 |
| 85° | 2024.1 | 2793.5 | 3564.0 | 3321.9 | 3078.7 | 3289.6 | 3501.6 | 3226.1 | 2950.7 | 3071.2 | 3192.8 |
| 87.5° | 533.7 | 1545.3 | 2557.9 | 2322.2 | 2086.5 | 1813.2 | 1539.9 | 1175.1 | 810.3 | 1183.7 | 1557.1 |
| 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 |



REPORT NUMBER: P320753
 CATALOG NUMBER: GLEON-SA9A-827-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 |



REPORT NUMBER: P320753

CATALOG NUMBER: GLEON-SA9A-827-U-SLR

CANDELA DISTRIBUTION (continued):

| | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 | 8199.8 |
| 2.5° | 9257.6 | 9239.3 | 9173.7 | 9107.0 | 9008.0 | 8926.2 | 8784.2 |
| 5° | 9922.7 | 9806.5 | 9606.3 | 9405.1 | 9181.2 | 8924.1 | 8638.9 |
| 7.5° | 10158.3 | 9886.1 | 9501.9 | 9116.7 | 8770.2 | 8363.4 | 7984.6 |
| 10° | 10058.3 | 9650.4 | 9151.1 | 8650.7 | 8230.0 | 7761.9 | 7341.1 |
| 12.5° | 9866.7 | 9433.0 | 8883.2 | 8332.2 | 7853.3 | 7350.8 | 6879.5 |
| 15° | 9603.1 | 9256.6 | 8741.1 | 8225.7 | 7743.6 | 7255.0 | 6696.5 |
| 17.5° | 9314.7 | 9150.0 | 8777.7 | 8404.3 | 7986.8 | 7513.3 | 6858.0 |
| 20° | 9082.2 | 9142.5 | 8994.0 | 8845.5 | 8510.8 | 8097.6 | 7361.6 |
| 22.5° | 8925.1 | 9214.6 | 9328.7 | 9443.8 | 9242.6 | 8919.7 | 8068.6 |
| 25° | 8836.9 | 9316.8 | 9698.8 | 10081.9 | 9992.6 | 9744.0 | 8927.3 |
| 27.5° | 8875.6 | 9464.3 | 10057.2 | 10651.2 | 10734.0 | 10665.2 | 9832.3 |
| 30° | 8991.8 | 9588.0 | 10310.1 | 11033.2 | 11363.6 | 11456.1 | 10586.6 |
| 32.5° | 9185.5 | 9769.9 | 10556.5 | 11344.2 | 11843.5 | 12138.3 | 11276.4 |
| 35° | 9478.2 | 10024.9 | 10844.9 | 11664.9 | 12310.5 | 12848.6 | 11988.8 |
| 37.5° | 9980.8 | 10451.0 | 11207.5 | 11965.1 | 12802.3 | 13610.4 | 12773.2 |
| 40° | 10716.8 | 11049.3 | 11688.5 | 12328.8 | 13382.3 | 14473.5 | 13648.1 |
| 42.5° | 11645.5 | 11816.6 | 12323.4 | 12830.3 | 13988.2 | 15256.9 | 14503.6 |
| 45° | 12651.6 | 12696.8 | 13015.4 | 13335.0 | 14468.1 | 15790.6 | 15146.0 |
| 47.5° | 13620.1 | 13465.2 | 13592.2 | 13719.1 | 14836.1 | 16171.6 | 15633.5 |
| 50° | 14616.6 | 14185.1 | 14118.4 | 14051.6 | 15204.1 | 16620.3 | 16253.3 |
| 52.5° | 15630.3 | 14919.0 | 14655.3 | 14390.6 | 15643.2 | 17215.4 | 17024.9 |
| 55° | 16622.4 | 15717.4 | 15362.3 | 15007.2 | 16314.7 | 17941.7 | 18158.0 |
| 57.5° | 17654.4 | 16628.9 | 16299.6 | 15970.3 | 17301.4 | 18861.8 | 19174.9 |
| 60° | 18764.9 | 17749.1 | 17485.5 | 17220.7 | 18528.2 | 19856.1 | 19628.0 |
| 62.5° | 19818.4 | 19011.4 | 18872.5 | 18732.7 | 19768.9 | 20620.1 | 19451.5 |
| 65° | 20522.2 | 20061.6 | 20190.8 | 20321.0 | 20707.3 | 20810.6 | 18935.0 |
| 67.5° | 20051.9 | 20145.6 | 20691.1 | 21237.8 | 20972.0 | 20244.6 | 17917.0 |
| 70° | 17439.2 | 18000.9 | 19293.3 | 20586.8 | 19997.1 | 18728.4 | 16089.8 |
| 72.5° | 13547.0 | 14178.6 | 16097.3 | 18017.1 | 17473.6 | 15919.7 | 13215.5 |
| 75° | 10064.7 | 10778.2 | 12895.9 | 15013.7 | 14259.3 | 11908.1 | 9462.1 |
| 77.5° | 7139.9 | 7617.7 | 9708.5 | 11800.5 | 10570.5 | 7926.5 | 6367.3 |
| 80° | 5197.5 | 5051.2 | 6216.6 | 7382.0 | 7177.6 | 5242.7 | 4089.2 |
| 82.5° | 4002.0 | 3644.7 | 4193.5 | 4742.3 | 4712.2 | 3638.3 | 3000.2 |
| 85° | 3049.7 | 2906.5 | 3391.9 | 3877.2 | 3461.8 | 2464.3 | 1906.8 |
| 87.5° | 1777.7 | 1999.4 | 2570.8 | 3143.3 | 2358.8 | 747.9 | 370.2 |
| 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: P320753
 CATALOG NUMBER: GLEON-SA9A-827-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 |

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



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

Report Prepared for

Cooper Lighting Solutions

Invue

Report Number: SP1-2407-157-9

Test Date: 10/03/2024

Luminaire Tested: EMM2-HTN-SA1A-827-U-5WQ

Data applicable to all product families utilizing light square engine

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-157-9
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 10/03/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Invue
 Catalog Number: **EMM2-HTN-SA1A-827-U-5WQ**
 Description: Epic Modern Light Square 40W 5WQ Optic

Spectral Parameters

CCT (K): 2764
 CIE u': 0.2591
 CIE v': 0.5290
 Duv: 0.0020
 CIE x: 0.4581
 CIE y: 0.4156
 CIE z: 0.1263
 Peak Wavelength (nm): 603
 Dominant Wavelength (nm): 583
 Purity: 62.2537
 Rf: 84.7
 Rg: 94.6

| | | | |
|-----------|------|------|------|
| CRI (Ra): | 80.9 | | |
| R1: | 78.8 | R9: | -1.5 |
| R2: | 89.9 | R10: | 77.9 |
| R3: | 96.2 | R11: | 78.9 |
| R4: | 79.1 | R12: | 71.6 |
| R5: | 79.1 | R13: | 81.2 |
| R6: | 88.8 | R14: | 98.5 |
| R7: | 81.3 | R15: | 69.9 |
| R8: | 54.3 | | |



Test Conditions

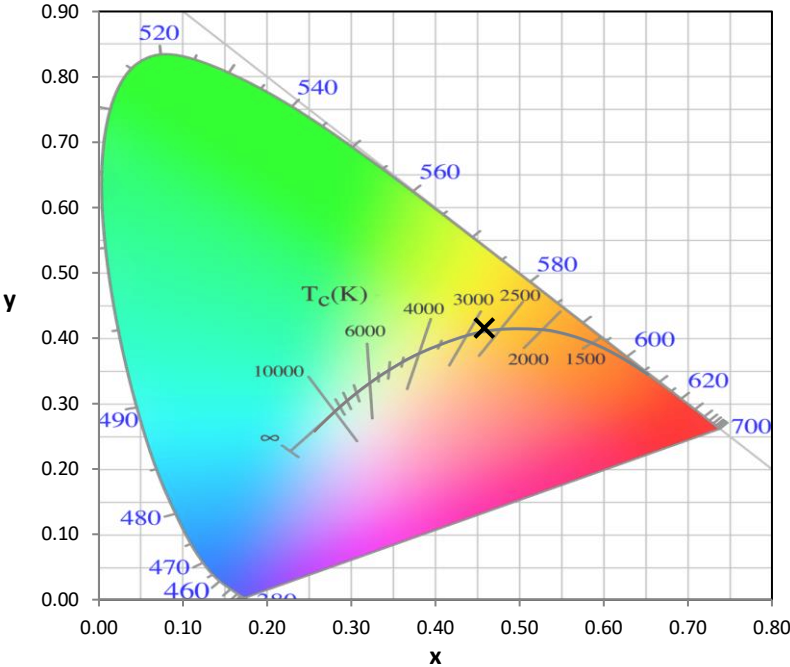
Stabilization Time: 81M
 Operation Time: 2H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-157-9

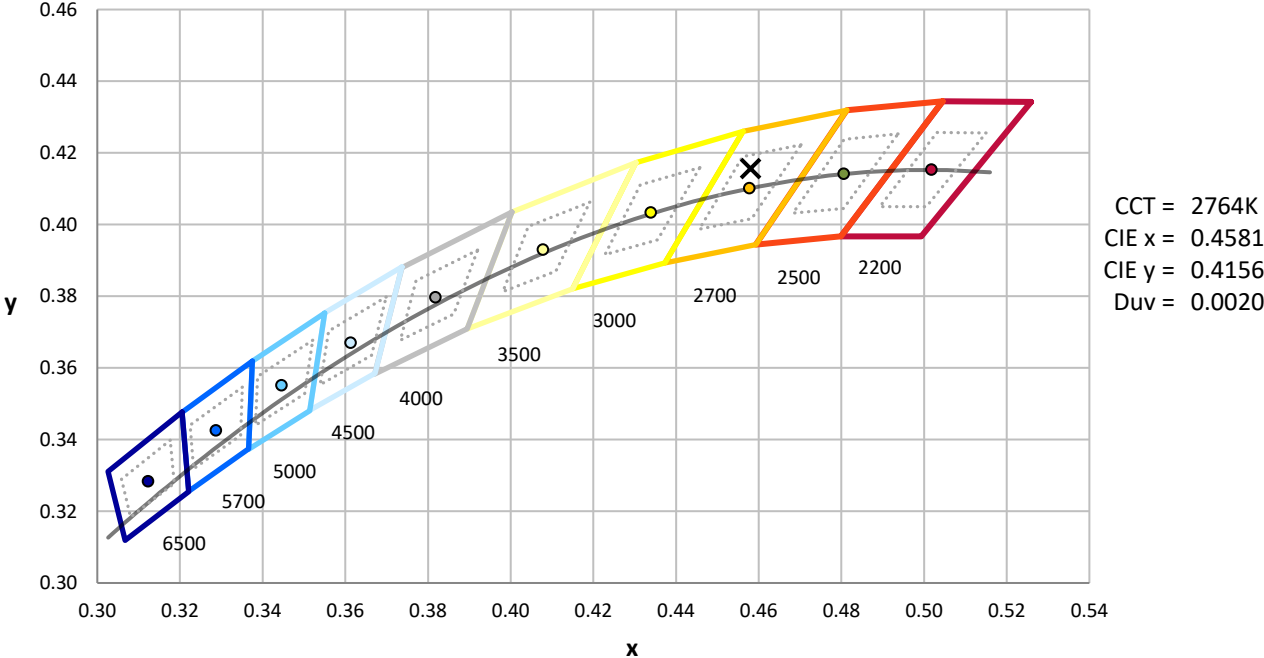
| Measurement and Test Equipment | | | |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/18/2024 | 12/18/2024 |
| Power Meter | INXT2011004 |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

REPORT NUMBER: SP1-2407-157-9

CIE 1931 Chromaticity Diagram



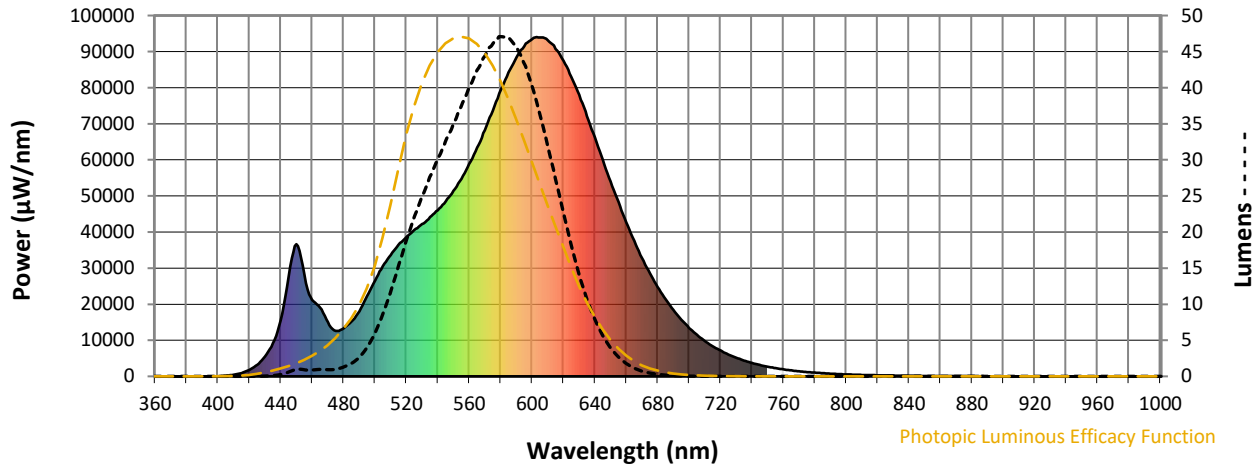
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

REPORT NUMBER: SP1-2407-157-9

Photopic Flux vs. Wavelength

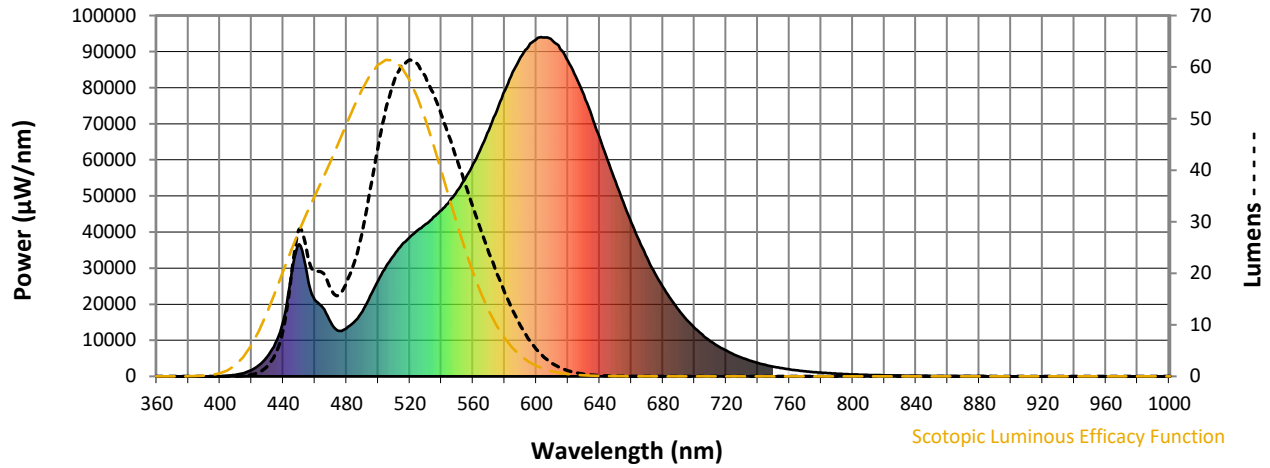


Photopic Lumens: 4337.9

| λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) | λ (nm) | Power ($\mu\text{W}/\text{nm}$) | Lumens (ϕ/nm) |
|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|-------------------|--------------------------------------|--------------------------------|
| 360 | 0 | 0.0 | 490 | 18018 | 2.6 | 620 | 87426 | 22.8 | 750 | 2680 | 0.0 | 880 | 58 | 0.0 |
| 365 | 0 | 0.0 | 495 | 22295 | 3.9 | 625 | 83013 | 18.2 | 755 | 2287 | 0.0 | 885 | 46 | 0.0 |
| 370 | 0 | 0.0 | 500 | 26478 | 5.8 | 630 | 78077 | 14.1 | 760 | 1944 | 0.0 | 890 | 45 | 0.0 |
| 375 | 0 | 0.0 | 505 | 30524 | 8.5 | 635 | 72080 | 10.7 | 765 | 1653 | 0.0 | 895 | 41 | 0.0 |
| 380 | 0 | 0.0 | 510 | 33611 | 11.5 | 640 | 66249 | 7.9 | 770 | 1413 | 0.0 | 900 | 38 | 0.0 |
| 385 | 0 | 0.0 | 515 | 36490 | 15.2 | 645 | 59973 | 5.7 | 775 | 1198 | 0.0 | 905 | 33 | 0.0 |
| 390 | 0 | 0.0 | 520 | 38610 | 18.7 | 650 | 53972 | 3.9 | 780 | 1025 | 0.0 | 910 | 30 | 0.0 |
| 395 | 0 | 0.0 | 525 | 40511 | 21.9 | 655 | 48369 | 2.7 | 785 | 874 | 0.0 | 915 | 23 | 0.0 |
| 400 | 48 | 0.0 | 530 | 42223 | 24.9 | 660 | 42641 | 1.8 | 790 | 747 | 0.0 | 920 | 24 | 0.0 |
| 405 | 201 | 0.0 | 535 | 44137 | 27.6 | 665 | 37602 | 1.1 | 795 | 639 | 0.0 | 925 | 22 | 0.0 |
| 410 | 457 | 0.0 | 540 | 46032 | 30.0 | 670 | 32798 | 0.7 | 800 | 547 | 0.0 | 930 | 22 | 0.0 |
| 415 | 925 | 0.0 | 545 | 48553 | 32.5 | 675 | 28558 | 0.5 | 805 | 473 | 0.0 | 935 | 17 | 0.0 |
| 420 | 1816 | 0.0 | 550 | 51408 | 34.9 | 680 | 24782 | 0.3 | 810 | 401 | 0.0 | 940 | 13 | 0.0 |
| 425 | 3217 | 0.0 | 555 | 54711 | 37.4 | 685 | 21386 | 0.2 | 815 | 351 | 0.0 | 945 | 6 | 0.0 |
| 430 | 5520 | 0.0 | 560 | 58847 | 40.0 | 690 | 18413 | 0.1 | 820 | 307 | 0.0 | 950 | 10 | 0.0 |
| 435 | 9225 | 0.1 | 565 | 63386 | 42.4 | 695 | 15721 | 0.1 | 825 | 261 | 0.0 | 955 | 11 | 0.0 |
| 440 | 15522 | 0.2 | 570 | 68196 | 44.3 | 700 | 13432 | 0.0 | 830 | 228 | 0.0 | 960 | 8 | 0.0 |
| 445 | 27642 | 0.6 | 575 | 73613 | 46.0 | 705 | 11513 | 0.0 | 835 | 193 | 0.0 | 965 | 12 | 0.0 |
| 450 | 36602 | 0.9 | 580 | 79207 | 47.1 | 710 | 9780 | 0.0 | 840 | 174 | 0.0 | 970 | 3 | 0.0 |
| 455 | 28292 | 0.9 | 585 | 84248 | 47.0 | 715 | 8356 | 0.0 | 845 | 151 | 0.0 | 975 | 8 | 0.0 |
| 460 | 21166 | 0.9 | 590 | 88397 | 45.7 | 720 | 7161 | 0.0 | 850 | 123 | 0.0 | 980 | 2 | 0.0 |
| 465 | 19092 | 1.0 | 595 | 91428 | 43.4 | 725 | 6067 | 0.0 | 855 | 106 | 0.0 | 985 | 13 | 0.0 |
| 470 | 14951 | 0.9 | 600 | 93452 | 40.3 | 730 | 5164 | 0.0 | 860 | 95 | 0.0 | 990 | 16 | 0.0 |
| 475 | 12606 | 1.0 | 605 | 93959 | 36.4 | 735 | 4393 | 0.0 | 865 | 82 | 0.0 | 995 | 20 | 0.0 |
| 480 | 13323 | 1.3 | 610 | 93079 | 32.0 | 740 | 3694 | 0.0 | 870 | 77 | 0.0 | 1000 | 0 | 0.0 |
| 485 | 15164 | 1.8 | 615 | 90707 | 27.3 | 745 | 3157 | 0.0 | 875 | 65 | 0.0 | | | |

REPORT NUMBER: SP1-2407-157-9

Scotopic Flux vs. Wavelength



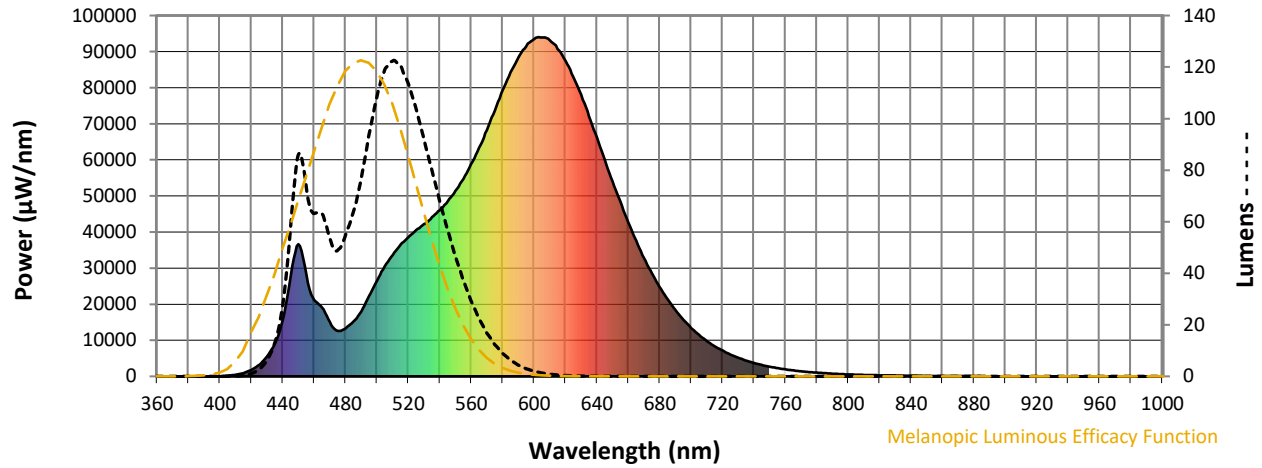
Scotopic Lumens: 5286.7

S/P: 1.22

| λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) |
|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|
| 360 | 0 | 0.0 | 490 | 18018 | 75.9 | 620 | 87426 | 0.4 | 750 | 2680 | 0.0 | 880 | 58 | 0.0 |
| 365 | 0 | 0.0 | 495 | 22295 | 93.2 | 625 | 83013 | 0.2 | 755 | 2287 | 0.0 | 885 | 46 | 0.0 |
| 370 | 0 | 0.0 | 500 | 26478 | 107.8 | 630 | 78077 | 0.1 | 760 | 1944 | 0.0 | 890 | 45 | 0.0 |
| 375 | 0 | 0.0 | 505 | 30524 | 118.7 | 635 | 72080 | 0.1 | 765 | 1653 | 0.0 | 895 | 41 | 0.0 |
| 380 | 0 | 0.0 | 510 | 33611 | 122.2 | 640 | 66249 | 0.1 | 770 | 1413 | 0.0 | 900 | 38 | 0.0 |
| 385 | 0 | 0.0 | 515 | 36490 | 120.8 | 645 | 59973 | 0.0 | 775 | 1198 | 0.0 | 905 | 33 | 0.0 |
| 390 | 0 | 0.0 | 520 | 38610 | 113.9 | 650 | 53972 | 0.0 | 780 | 1025 | 0.0 | 910 | 30 | 0.0 |
| 395 | 0 | 0.0 | 525 | 40511 | 104.1 | 655 | 48369 | 0.0 | 785 | 874 | 0.0 | 915 | 23 | 0.0 |
| 400 | 48 | 0.0 | 530 | 42223 | 92.4 | 660 | 42641 | 0.0 | 790 | 747 | 0.0 | 920 | 24 | 0.0 |
| 405 | 201 | 0.0 | 535 | 44137 | 80.5 | 665 | 37602 | 0.0 | 795 | 639 | 0.0 | 925 | 22 | 0.0 |
| 410 | 457 | 0.1 | 540 | 46032 | 68.2 | 670 | 32798 | 0.0 | 800 | 547 | 0.0 | 930 | 22 | 0.0 |
| 415 | 925 | 0.3 | 545 | 48553 | 57.1 | 675 | 28558 | 0.0 | 805 | 473 | 0.0 | 935 | 17 | 0.0 |
| 420 | 1816 | 1.1 | 550 | 51408 | 46.7 | 680 | 24782 | 0.0 | 810 | 401 | 0.0 | 940 | 13 | 0.0 |
| 425 | 3217 | 2.5 | 555 | 54711 | 37.4 | 685 | 21386 | 0.0 | 815 | 351 | 0.0 | 945 | 6 | 0.0 |
| 430 | 5520 | 5.9 | 560 | 58847 | 29.4 | 690 | 18413 | 0.0 | 820 | 307 | 0.0 | 950 | 10 | 0.0 |
| 435 | 9225 | 12.5 | 565 | 63386 | 22.5 | 695 | 15721 | 0.0 | 825 | 261 | 0.0 | 955 | 11 | 0.0 |
| 440 | 15522 | 26.3 | 570 | 68196 | 16.9 | 700 | 13432 | 0.0 | 830 | 228 | 0.0 | 960 | 8 | 0.0 |
| 445 | 27642 | 55.2 | 575 | 73613 | 12.4 | 705 | 11513 | 0.0 | 835 | 193 | 0.0 | 965 | 12 | 0.0 |
| 450 | 36602 | 85.4 | 580 | 79207 | 9.0 | 710 | 9780 | 0.0 | 840 | 174 | 0.0 | 970 | 3 | 0.0 |
| 455 | 28292 | 75.1 | 585 | 84248 | 6.3 | 715 | 8356 | 0.0 | 845 | 151 | 0.0 | 975 | 8 | 0.0 |
| 460 | 21166 | 63.2 | 590 | 88397 | 4.4 | 720 | 7161 | 0.0 | 850 | 123 | 0.0 | 980 | 2 | 0.0 |
| 465 | 19092 | 63.2 | 595 | 91428 | 3.0 | 725 | 6067 | 0.0 | 855 | 106 | 0.0 | 985 | 13 | 0.0 |
| 470 | 14951 | 54.2 | 600 | 93452 | 2.0 | 730 | 5164 | 0.0 | 860 | 95 | 0.0 | 990 | 16 | 0.0 |
| 475 | 12606 | 48.8 | 605 | 93959 | 1.3 | 735 | 4393 | 0.0 | 865 | 82 | 0.0 | 995 | 20 | 0.0 |
| 480 | 13323 | 54.2 | 610 | 93079 | 0.9 | 740 | 3694 | 0.0 | 870 | 77 | 0.0 | 1000 | 0 | 0.0 |
| 485 | 15164 | 63.3 | 615 | 90707 | 0.5 | 745 | 3157 | 0.0 | 875 | 65 | 0.0 | | | |

REPORT NUMBER: SP1-2407-157-9

Melanopic Flux vs. Wavelength



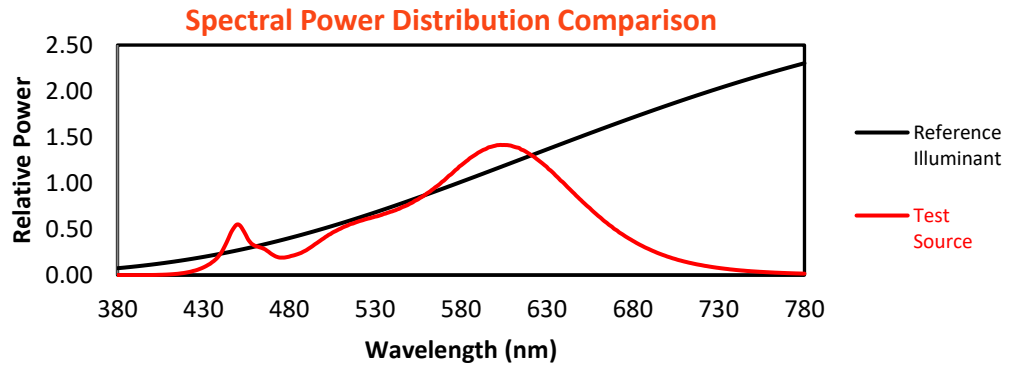
Melanopic Lumens: 9797

M/P: 2.26

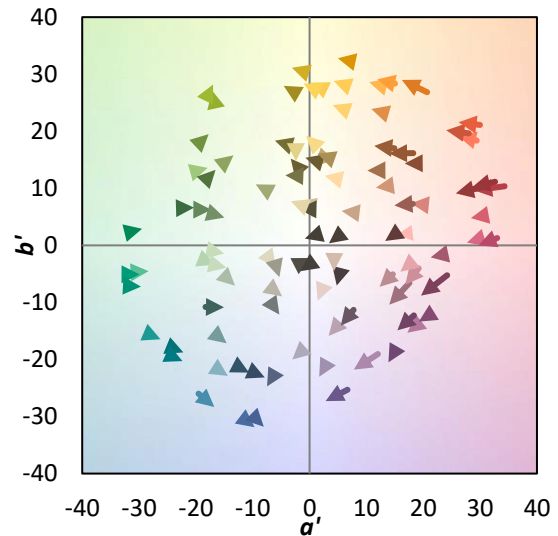
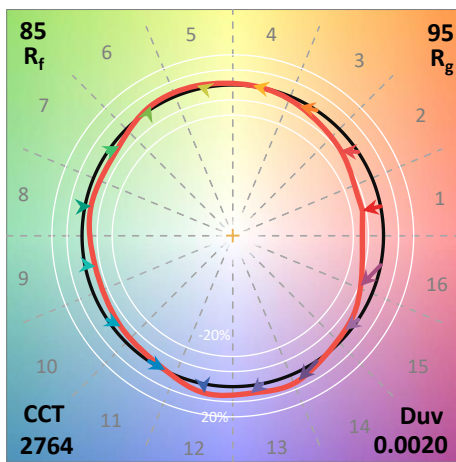
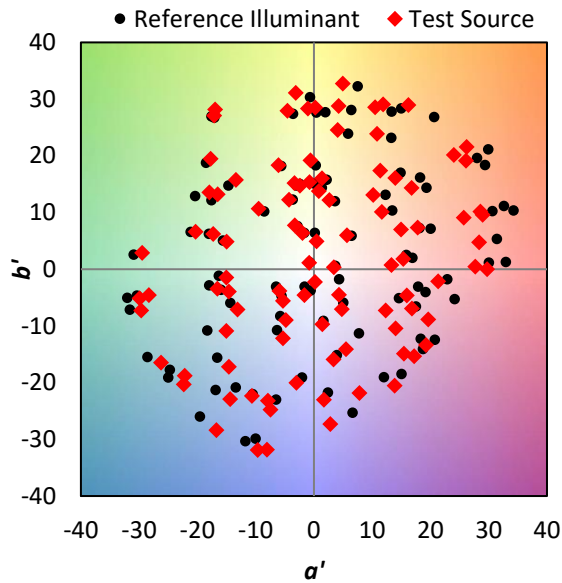
| λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) | λ (nm) | Power (µW/nm) | Lumens (φ/nm) |
|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|--------|---------------|---------------|
| 360 | 0 | 0.0 | 490 | 18018 | 27.7 | 620 | 87426 | 1.1 | 750 | 2680 | 0.0 | 880 | 58 | 0.0 |
| 365 | 0 | 0.0 | 495 | 22295 | 36.0 | 625 | 83013 | 0.7 | 755 | 2287 | 0.0 | 885 | 46 | 0.0 |
| 370 | 0 | 0.0 | 500 | 26478 | 44.2 | 630 | 78077 | 0.4 | 760 | 1944 | 0.0 | 890 | 45 | 0.0 |
| 375 | 0 | 0.0 | 505 | 30524 | 51.8 | 635 | 72080 | 0.3 | 765 | 1653 | 0.0 | 895 | 41 | 0.0 |
| 380 | 0 | 0.0 | 510 | 33611 | 57.0 | 640 | 66249 | 0.2 | 770 | 1413 | 0.0 | 900 | 38 | 0.0 |
| 385 | 0 | 0.0 | 515 | 36490 | 60.5 | 645 | 59973 | 0.1 | 775 | 1198 | 0.0 | 905 | 33 | 0.0 |
| 390 | 0 | 0.0 | 520 | 38610 | 61.4 | 650 | 53972 | 0.1 | 780 | 1025 | 0.0 | 910 | 30 | 0.0 |
| 395 | 0 | 0.0 | 525 | 40511 | 60.6 | 655 | 48369 | 0.0 | 785 | 874 | 0.0 | 915 | 23 | 0.0 |
| 400 | 48 | 0.0 | 530 | 42223 | 58.2 | 660 | 42641 | 0.0 | 790 | 747 | 0.0 | 920 | 24 | 0.0 |
| 405 | 201 | 0.0 | 535 | 44137 | 55.0 | 665 | 37602 | 0.0 | 795 | 639 | 0.0 | 925 | 22 | 0.0 |
| 410 | 457 | 0.0 | 540 | 46032 | 50.9 | 670 | 32798 | 0.0 | 800 | 547 | 0.0 | 930 | 22 | 0.0 |
| 415 | 925 | 0.1 | 545 | 48553 | 46.6 | 675 | 28558 | 0.0 | 805 | 473 | 0.0 | 935 | 17 | 0.0 |
| 420 | 1816 | 0.3 | 550 | 51408 | 42.0 | 680 | 24782 | 0.0 | 810 | 401 | 0.0 | 940 | 13 | 0.0 |
| 425 | 3217 | 0.8 | 555 | 54711 | 37.4 | 685 | 21386 | 0.0 | 815 | 351 | 0.0 | 945 | 6 | 0.0 |
| 430 | 5520 | 1.9 | 560 | 58847 | 32.9 | 690 | 18413 | 0.0 | 820 | 307 | 0.0 | 950 | 10 | 0.0 |
| 435 | 9225 | 4.1 | 565 | 63386 | 28.4 | 695 | 15721 | 0.0 | 825 | 261 | 0.0 | 955 | 11 | 0.0 |
| 440 | 15522 | 8.7 | 570 | 68196 | 24.1 | 700 | 13432 | 0.0 | 830 | 228 | 0.0 | 960 | 8 | 0.0 |
| 445 | 27642 | 18.5 | 575 | 73613 | 20.0 | 705 | 11513 | 0.0 | 835 | 193 | 0.0 | 965 | 12 | 0.0 |
| 450 | 36602 | 28.3 | 580 | 79207 | 16.3 | 710 | 9780 | 0.0 | 840 | 174 | 0.0 | 970 | 3 | 0.0 |
| 455 | 28292 | 24.7 | 585 | 84248 | 12.9 | 715 | 8356 | 0.0 | 845 | 151 | 0.0 | 975 | 8 | 0.0 |
| 460 | 21166 | 20.4 | 590 | 88397 | 9.8 | 720 | 7161 | 0.0 | 850 | 123 | 0.0 | 980 | 2 | 0.0 |
| 465 | 19092 | 20.1 | 595 | 91428 | 7.3 | 725 | 6067 | 0.0 | 855 | 106 | 0.0 | 985 | 13 | 0.0 |
| 470 | 14951 | 17.2 | 600 | 93452 | 5.3 | 730 | 5164 | 0.0 | 860 | 95 | 0.0 | 990 | 16 | 0.0 |
| 475 | 12606 | 15.7 | 605 | 93959 | 3.7 | 735 | 4393 | 0.0 | 865 | 82 | 0.0 | 995 | 20 | 0.0 |
| 480 | 13323 | 18.0 | 610 | 93079 | 2.5 | 740 | 3694 | 0.0 | 870 | 77 | 0.0 | 1000 | 0 | 0.0 |
| 485 | 15164 | 21.9 | 615 | 90707 | 1.7 | 745 | 3157 | 0.0 | 875 | 65 | 0.0 | | | |

Summary

$R_f = 84.7$
 $R_g = 94.6$
 CIE $R_a = 80.9$
 $R_9 = -1.5$

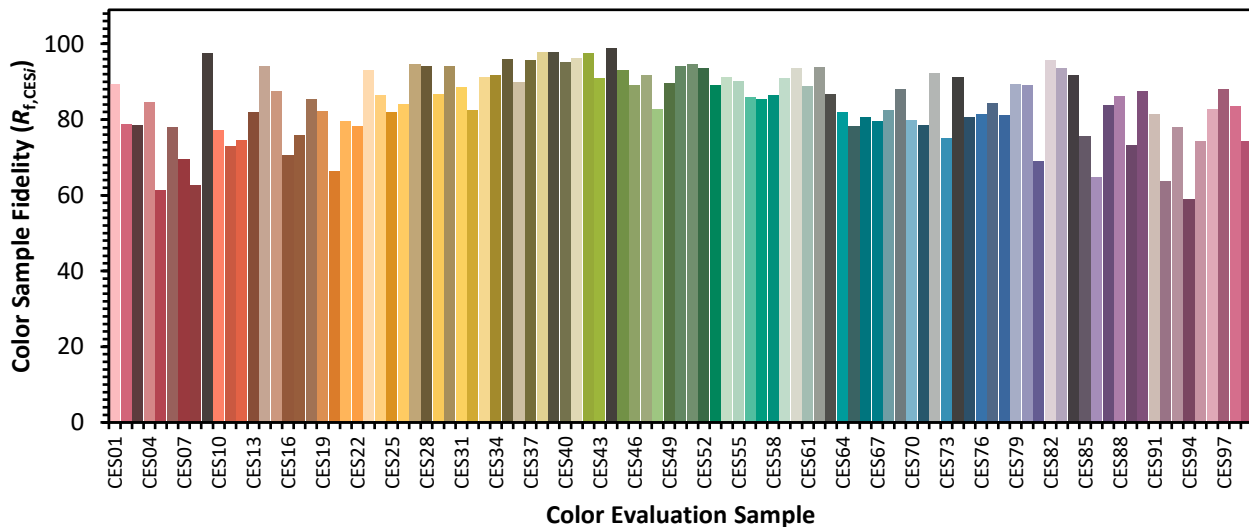


Color Vector Graphics

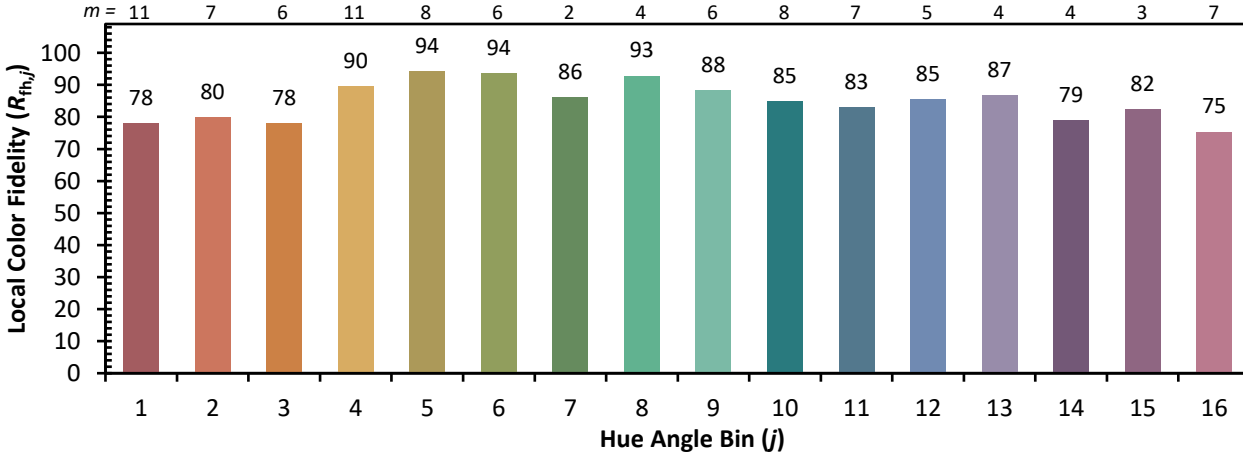
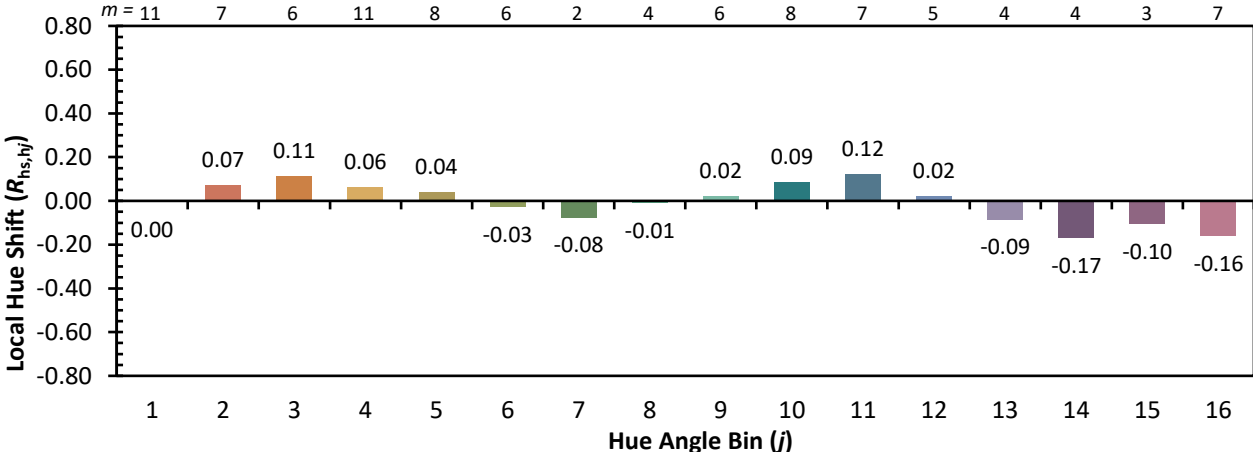
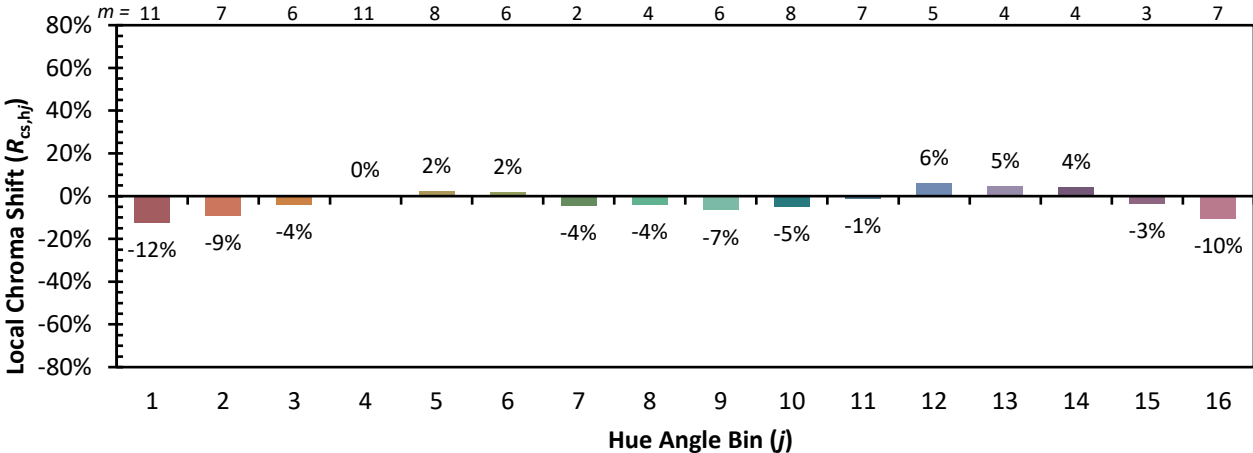


Individual Sample Fidelity Index ($R_{f,i}$)

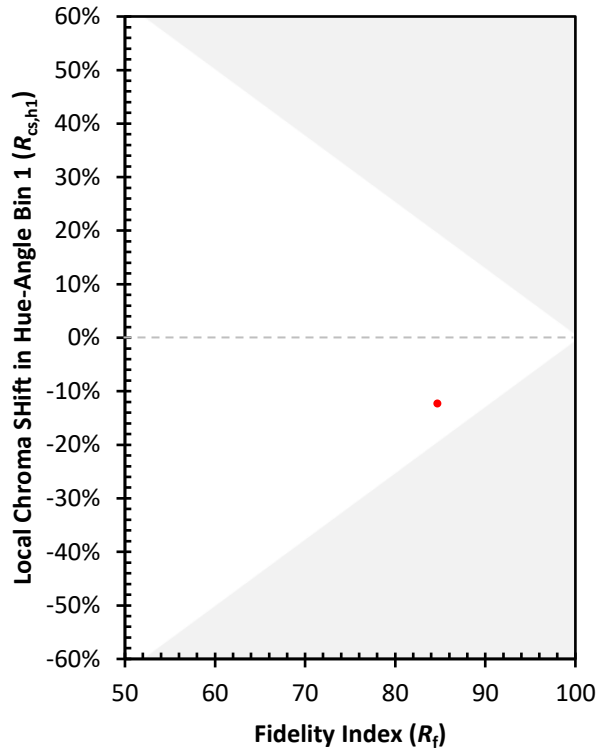
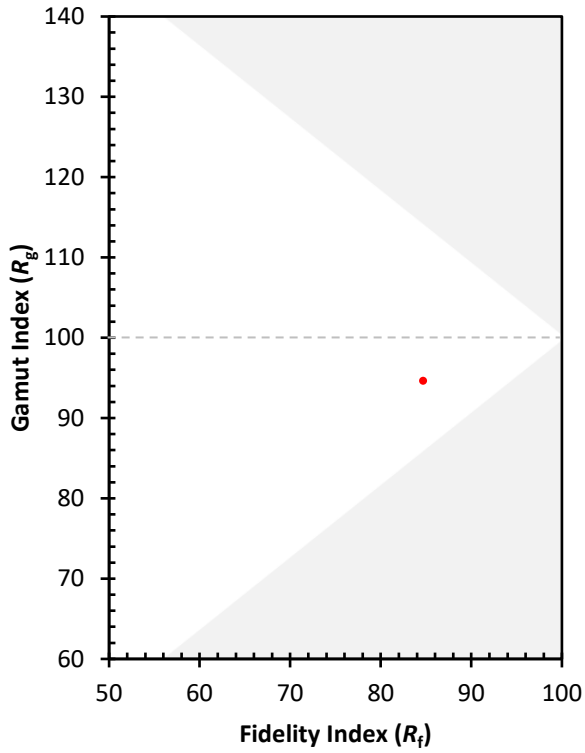
| | | | |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 84 | CES51 = 95 | CES76 = 81 |
| CES02 = 63 | CES27 = 95 | CES52 = 94 | CES77 = 84 |
| CES03 = 31 | CES28 = 94 | CES53 = 89 | CES78 = 81 |
| CES04 = 71 | CES29 = 87 | CES54 = 91 | CES79 = 89 |
| CES05 = 50 | CES30 = 94 | CES55 = 90 | CES80 = 89 |
| CES06 = 52 | CES31 = 89 | CES56 = 86 | CES81 = 69 |
| CES07 = 43 | CES32 = 82 | CES57 = 85 | CES82 = 96 |
| CES08 = 41 | CES33 = 91 | CES58 = 86 | CES83 = 93 |
| CES09 = 29 | CES34 = 92 | CES59 = 91 | CES84 = 92 |
| CES10 = 77 | CES35 = 96 | CES60 = 94 | CES85 = 76 |
| CES11 = 60 | CES36 = 90 | CES61 = 89 | CES86 = 65 |
| CES12 = 66 | CES37 = 96 | CES62 = 94 | CES87 = 84 |
| CES13 = 44 | CES38 = 98 | CES63 = 87 | CES88 = 86 |
| CES14 = 74 | CES39 = 98 | CES64 = 82 | CES89 = 73 |
| CES15 = 72 | CES40 = 95 | CES65 = 78 | CES90 = 88 |
| CES16 = 48 | CES41 = 96 | CES66 = 81 | CES91 = 82 |
| CES17 = 50 | CES42 = 97 | CES67 = 80 | CES92 = 64 |
| CES18 = 57 | CES43 = 91 | CES68 = 83 | CES93 = 78 |
| CES19 = 73 | CES44 = 99 | CES69 = 88 | CES94 = 59 |
| CES20 = 67 | CES45 = 93 | CES70 = 80 | CES95 = 74 |
| CES21 = 87 | CES46 = 89 | CES71 = 79 | CES96 = 83 |
| CES22 = 79 | CES47 = 92 | CES72 = 92 | CES97 = 88 |
| CES23 = 92 | CES48 = 83 | CES73 = 75 | CES98 = 83 |
| CES24 = 91 | CES49 = 90 | CES74 = 91 | CES99 = 74 |
| CES25 = 72 | CES50 = 94 | CES75 = 81 | |



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)