

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: P320262

Luminaire Tested: **GLEON-SA8D-727-U-SLL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320262
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-SA8D-727-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45701 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

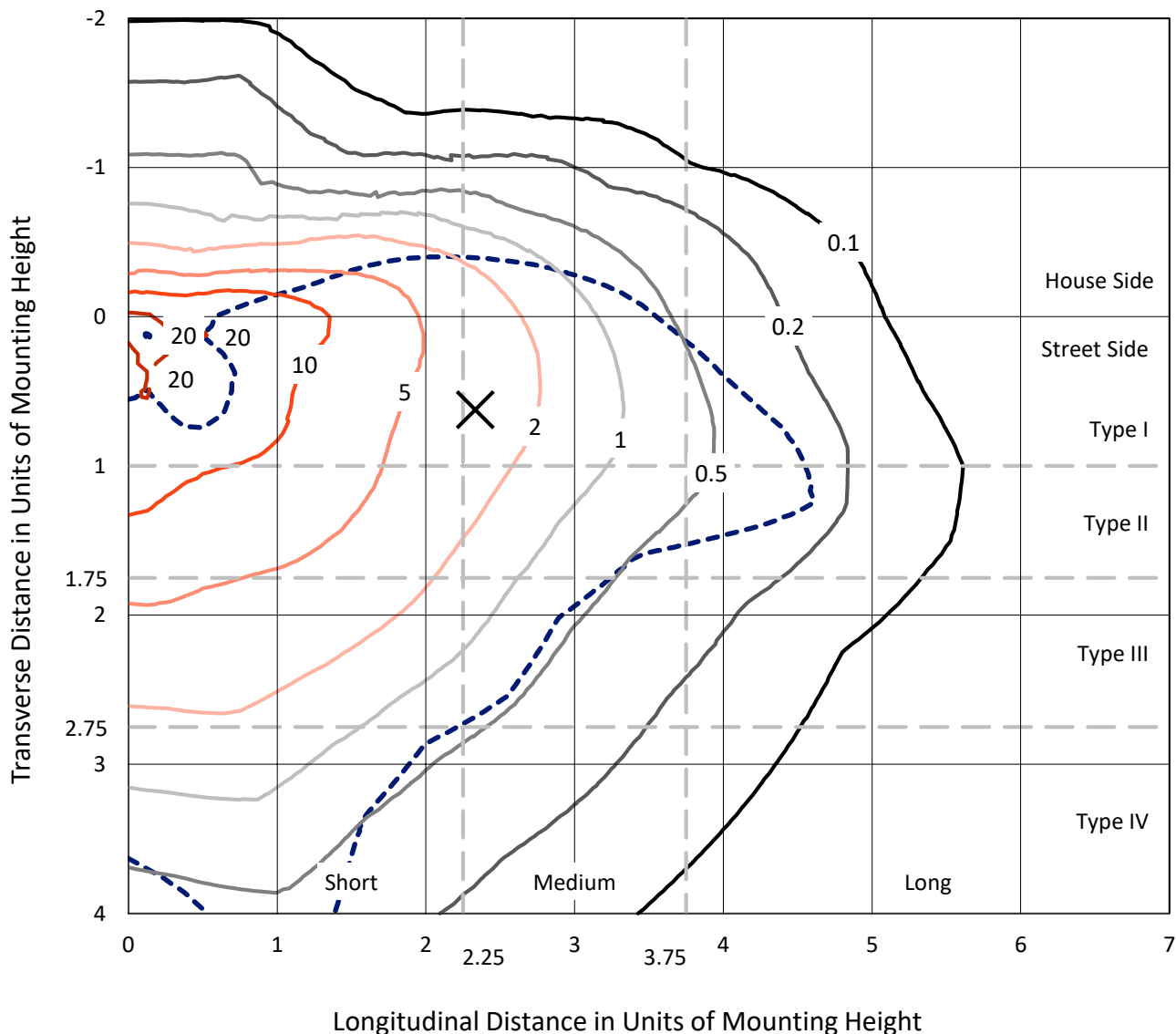
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P320262
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Iso-Footcandle Lines of Horizontal Illumination

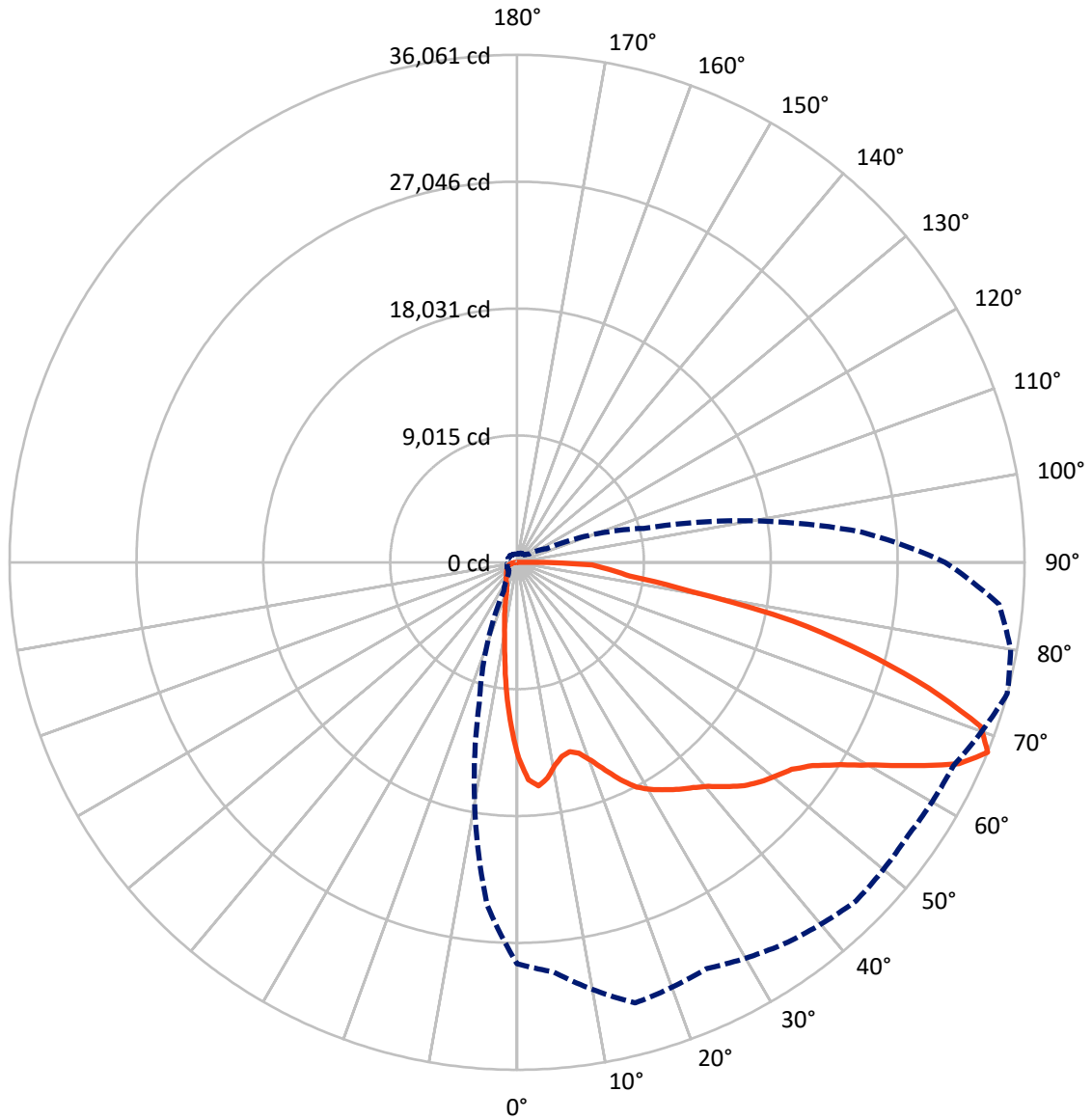
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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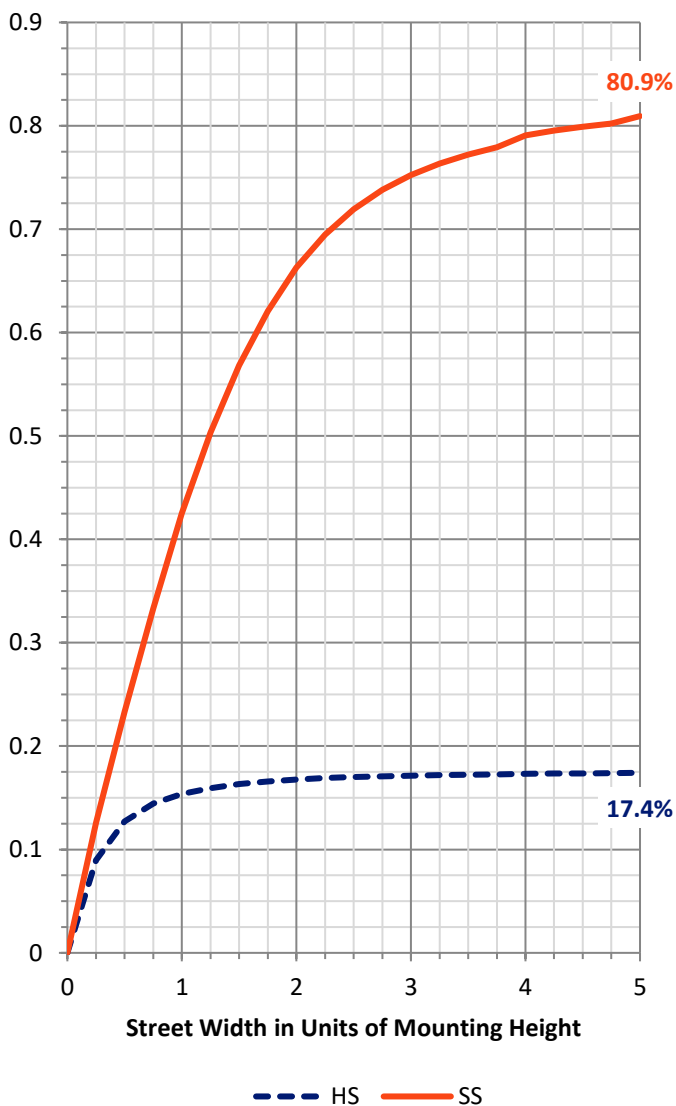
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8049.1 | 0.0 | 8049.1 |
| | % Fixture | 17.6 | 0.0 | 17.6 |
| Street Side | Lumens | 37651.9 | 0.0 | 37651.9 |
| | % Fixture | 82.4 | 0.0 | 82.4 |
| Total | Lumens | 45701.0 | 0.0 | 45701.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1074.5 | 2.4 |
| 10°-20° | 2232.3 | 4.9 |
| 20°-30° | 3174.8 | 6.9 |
| 30°-40° | 4574.8 | 10.0 |
| 40°-50° | 6447.2 | 14.1 |
| 50°-60° | 8962.7 | 19.6 |
| 60°-70° | 10838.6 | 23.7 |
| 70°-80° | 6662.4 | 14.6 |
| 80°-90° | 1733.7 | 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° | 45701.0 | 100.0 |
| 0°-180° | 45701.0 | 100.0 |

Coefficient of Utilization

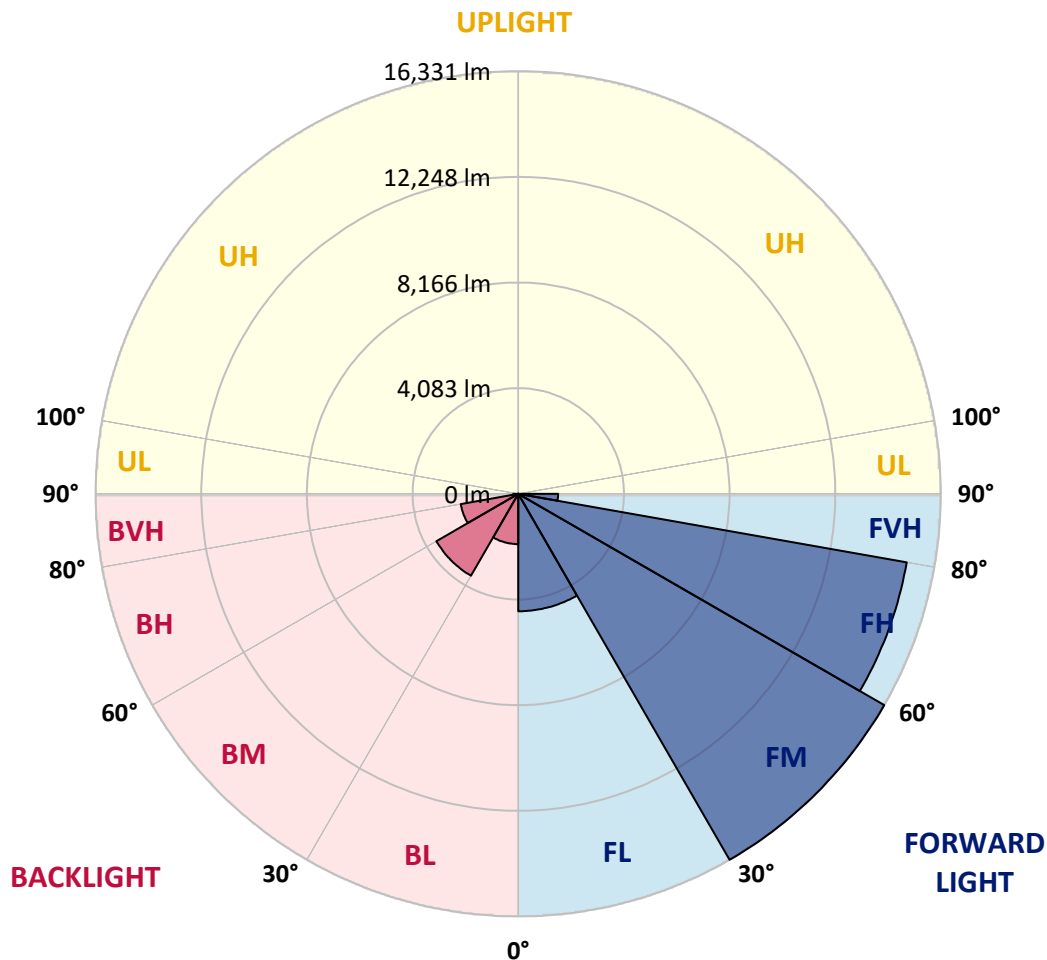


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 CATALOG NUMBER: GLEON-SA8D-727-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4537.6 | 9.9 | | | |
| FM (30°-60°) | 16331.1 | 35.7 | | | |
| FH (60°-80°) | 15244.3 | 33.4 | | | G5 |
| FVH (80°-90°) | 1538.9 | 3.4 | | | G5 |
| BL (0°-30°) | 1943.9 | 4.3 | B3/2500 | | |
| BM (30°-60°) | 3653.7 | 8.0 | B3/5000 | | |
| BH (60°-80°) | 2256.7 | 4.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 194.8 | 0.4 | | | 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 III Medium





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CATALOG NUMBER: GLEON-SA8D-727-U-SLL

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 |
| 2.5° | 14840.3 | 15035.8 | 15171.0 | 15304.4 | 15408.5 | 15510.8 | 15660.7 | 15810.5 | 15839.7 | 15867.1 | 15808.7 |
| 5° | 14752.6 | 15229.4 | 15635.1 | 16038.9 | 16413.5 | 16788.0 | 17012.8 | 17237.5 | 17283.2 | 17328.9 | 17188.2 |
| 7.5° | 13807.9 | 14511.4 | 15214.8 | 15918.3 | 16563.3 | 17208.3 | 17601.1 | 17992.1 | 18081.7 | 18169.4 | 17939.1 |
| 10° | 12733.5 | 13552.1 | 14416.4 | 15280.6 | 16130.2 | 16979.9 | 17548.1 | 18116.4 | 18229.7 | 18342.9 | 18056.1 |
| 12.5° | 11916.8 | 12810.3 | 13733.0 | 14655.7 | 15552.9 | 16448.2 | 17036.5 | 17624.9 | 17765.6 | 17906.3 | 17698.0 |
| 15° | 11602.5 | 12581.9 | 13449.8 | 14317.7 | 15099.7 | 15879.9 | 16362.3 | 16842.8 | 16901.3 | 16958.0 | 16925.1 |
| 17.5° | 11916.8 | 12996.6 | 13782.3 | 14566.2 | 14991.9 | 15415.8 | 15609.5 | 15801.4 | 15865.3 | 15927.4 | 16011.5 |
| 20° | 12835.9 | 14001.6 | 14555.2 | 15107.0 | 15088.8 | 15068.7 | 14975.5 | 14880.5 | 14864.0 | 14847.6 | 15085.1 |
| 22.5° | 14147.8 | 15501.7 | 15722.8 | 15942.0 | 15428.6 | 14915.2 | 14602.7 | 14288.5 | 14226.3 | 14162.4 | 14414.5 |
| 25° | 15688.1 | 17129.7 | 17089.5 | 17047.5 | 16069.9 | 15090.6 | 14494.9 | 13899.3 | 13829.8 | 13760.4 | 13976.0 |
| 27.5° | 17363.6 | 18741.3 | 18478.2 | 18215.0 | 16886.7 | 15558.3 | 14694.1 | 13829.8 | 13760.4 | 13691.0 | 13881.0 |
| 30° | 18673.7 | 19923.4 | 19501.4 | 19079.3 | 17575.5 | 16071.8 | 15044.9 | 14018.0 | 13904.8 | 13789.6 | 14023.5 |
| 32.5° | 19782.8 | 20846.2 | 20279.7 | 19713.3 | 18134.6 | 16556.0 | 15445.1 | 14334.1 | 14156.9 | 13979.7 | 14292.1 |
| 35° | 20937.5 | 21767.1 | 20970.4 | 20171.9 | 18633.5 | 17093.2 | 15918.3 | 14741.6 | 14524.2 | 14306.7 | 14736.1 |
| 37.5° | 22236.6 | 22925.5 | 21781.7 | 20636.0 | 19194.4 | 17752.8 | 16627.2 | 15499.9 | 15277.0 | 15054.0 | 15602.2 |
| 40° | 23608.8 | 24182.6 | 22656.9 | 21131.2 | 19808.3 | 18485.5 | 17608.4 | 16729.6 | 16517.6 | 16303.8 | 16968.9 |
| 42.5° | 24809.3 | 25227.7 | 23471.8 | 21715.9 | 20548.3 | 19378.9 | 18761.4 | 18142.0 | 18140.1 | 18136.5 | 18810.7 |
| 45° | 25713.7 | 26077.3 | 24151.5 | 22223.9 | 21270.1 | 20314.5 | 19992.9 | 19671.3 | 19928.9 | 20186.6 | 20796.8 |
| 47.5° | 26464.7 | 26711.4 | 24721.6 | 22730.0 | 22095.9 | 21461.9 | 21509.4 | 21556.9 | 22081.3 | 22605.7 | 22998.6 |
| 50° | 27323.5 | 27124.3 | 25238.7 | 23351.2 | 23155.7 | 22960.2 | 23387.8 | 23813.5 | 24416.5 | 25017.6 | 25284.4 |
| 52.5° | 28253.5 | 27725.5 | 25940.3 | 24153.3 | 24372.6 | 24591.9 | 25461.6 | 26331.3 | 26939.8 | 27548.2 | 27648.7 |
| 55° | 29925.4 | 29115.9 | 27230.3 | 25342.8 | 25764.9 | 26185.2 | 27462.3 | 28737.7 | 29212.8 | 29687.8 | 29724.4 |
| 57.5° | 31809.2 | 31091.1 | 29037.4 | 26983.6 | 27436.8 | 27889.9 | 29364.4 | 30837.1 | 31350.6 | 31862.2 | 31790.9 |
| 60° | 32534.6 | 32569.3 | 30753.1 | 28935.0 | 29391.8 | 29848.6 | 31284.8 | 32720.9 | 33311.1 | 33899.5 | 33742.3 |
| 62.5° | 31803.7 | 32660.6 | 31690.4 | 30718.4 | 31133.1 | 31546.1 | 32953.0 | 34359.9 | 34964.7 | 35569.5 | 35295.4 |
| 65° | 30358.4 | 31208.0 | 31642.9 | 32077.8 | 32214.8 | 32351.8 | 33665.6 | 34977.5 | 35441.6 | 35903.9 | 35765.0 |
| 67.5° | 28520.3 | 29207.3 | 30811.5 | 32414.0 | 32138.1 | 31862.2 | 32477.9 | 33093.7 | 33570.6 | 34047.5 | 33968.9 |
| 70° | 26391.6 | 27210.2 | 29349.8 | 31489.4 | 30133.7 | 28776.1 | 28522.1 | 28268.1 | 28783.4 | 29296.8 | 28978.9 |
| 72.5° | 22574.7 | 23809.8 | 26092.0 | 28372.3 | 25874.5 | 23376.8 | 22508.9 | 21641.0 | 22293.3 | 22945.6 | 22439.5 |
| 75° | 17051.1 | 18690.1 | 21211.6 | 23731.3 | 20751.2 | 17771.0 | 16612.6 | 15454.2 | 16015.1 | 16576.1 | 16228.9 |
| 77.5° | 11858.3 | 13913.9 | 16397.0 | 18880.1 | 15850.7 | 12819.4 | 11958.8 | 11096.4 | 11264.5 | 11430.8 | 11372.3 |
| 80° | 8085.2 | 9437.3 | 11169.5 | 12899.8 | 10882.6 | 8865.4 | 8933.0 | 8998.8 | 8920.2 | 8839.8 | 8956.8 |
| 82.5° | 5070.4 | 6022.3 | 7359.8 | 8695.5 | 7624.8 | 6554.1 | 7168.0 | 7781.9 | 7480.4 | 7177.1 | 7290.4 |
| 85° | 2855.9 | 3436.9 | 4745.2 | 6051.6 | 5640.5 | 5227.5 | 5587.5 | 5945.6 | 5477.9 | 5010.1 | 5216.6 |
| 87.5° | 544.5 | 906.3 | 2625.6 | 4343.2 | 3943.0 | 3542.9 | 3078.8 | 2614.7 | 1995.3 | 1375.9 | 2009.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P320262
 CATALOG NUMBER: GLEON-SA8D-727-U-SLL

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 |



REPORT NUMBER: P320262

CATALOG NUMBER: GLEON-SA8D-727-U-SLL

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 |
| 2.5° | 15750.2 | 15719.1 | 15688.1 | 15576.6 | 15463.3 | 15295.2 | 15156.4 | 14915.2 | 14783.6 | 14584.5 | 14385.3 |
| 5° | 17045.7 | 16848.3 | 16651.0 | 16311.1 | 15969.5 | 15589.4 | 15152.7 | 14668.5 | 14303.1 | 13828.0 | 13352.9 |
| 7.5° | 17708.9 | 17248.5 | 16786.2 | 16133.9 | 15479.8 | 14891.4 | 14200.8 | 13557.6 | 13009.4 | 12391.9 | 11774.3 |
| 10° | 17769.2 | 17078.5 | 16386.0 | 15538.2 | 14688.6 | 13974.2 | 13179.4 | 12464.9 | 11807.2 | 11098.2 | 10387.5 |
| 12.5° | 17487.8 | 16753.3 | 16017.0 | 15083.3 | 14147.8 | 13336.5 | 12481.4 | 11681.1 | 10952.0 | 10171.8 | 9389.8 |
| 15° | 16892.2 | 16305.7 | 15717.3 | 14842.1 | 13966.9 | 13148.3 | 12318.8 | 11370.5 | 10546.4 | 9747.9 | 8947.6 |
| 17.5° | 16093.7 | 15816.0 | 15536.4 | 14904.2 | 14270.2 | 13561.2 | 12757.3 | 11644.5 | 10679.8 | 9811.9 | 8944.0 |
| 20° | 15320.8 | 15423.1 | 15523.6 | 15271.5 | 15019.3 | 14451.1 | 13749.4 | 12499.7 | 11268.1 | 10133.5 | 8997.0 |
| 22.5° | 14664.9 | 15156.4 | 15646.0 | 15841.6 | 16035.2 | 15693.6 | 15145.4 | 13700.1 | 12070.3 | 10588.4 | 9106.6 |
| 25° | 14189.8 | 15004.7 | 15819.6 | 16470.1 | 17118.7 | 16967.1 | 16545.0 | 15158.2 | 13133.7 | 11244.4 | 9353.3 |
| 27.5° | 14071.0 | 15070.5 | 16069.9 | 17078.5 | 18085.3 | 18226.0 | 18109.1 | 16694.8 | 14401.7 | 12059.3 | 9715.1 |
| 30° | 14257.4 | 15269.6 | 16280.1 | 17507.9 | 18734.0 | 19294.9 | 19452.0 | 17975.7 | 15850.7 | 13009.4 | 10166.4 |
| 32.5° | 14604.6 | 15596.7 | 16588.9 | 17926.3 | 19262.0 | 20109.8 | 20610.5 | 19146.9 | 16861.1 | 13725.7 | 10588.4 |
| 35° | 15165.5 | 16093.7 | 17021.9 | 18414.2 | 19806.5 | 20902.8 | 21816.4 | 20356.5 | 17758.3 | 14226.3 | 10692.6 |
| 37.5° | 16148.5 | 16947.0 | 17745.5 | 19031.8 | 20316.3 | 21737.8 | 23110.0 | 21688.5 | 18728.5 | 14708.7 | 10687.1 |
| 40° | 17634.0 | 18198.6 | 18761.4 | 19848.5 | 20933.9 | 22722.7 | 24575.4 | 23174.0 | 19801.0 | 15231.3 | 10661.5 |
| 42.5° | 19484.9 | 19775.4 | 20064.1 | 20924.7 | 21785.3 | 23751.4 | 25905.6 | 24626.6 | 20824.2 | 15717.3 | 10610.4 |
| 45° | 21405.3 | 21482.0 | 21558.8 | 22101.4 | 22642.3 | 24566.3 | 26811.9 | 25717.4 | 21717.7 | 16139.4 | 10559.2 |
| 47.5° | 23389.6 | 23126.5 | 22863.4 | 23079.0 | 23294.6 | 25191.2 | 27458.7 | 26545.1 | 22614.9 | 16607.1 | 10597.6 |
| 50° | 25551.1 | 24818.4 | 24085.7 | 23972.5 | 23859.2 | 25816.1 | 28220.6 | 27597.6 | 23692.9 | 17288.7 | 10884.4 |
| 52.5° | 27747.4 | 26539.6 | 25331.9 | 24884.2 | 24434.7 | 26561.5 | 29231.0 | 28907.6 | 25231.4 | 18344.8 | 11456.3 |
| 55° | 29760.9 | 28224.3 | 26687.6 | 26084.7 | 25481.7 | 27701.7 | 30464.4 | 30831.6 | 27202.9 | 19695.0 | 12185.4 |
| 57.5° | 31717.8 | 29976.5 | 28235.2 | 27676.1 | 27117.0 | 29377.2 | 32026.6 | 32558.3 | 29194.5 | 20990.5 | 12784.7 |
| 60° | 33585.2 | 31862.2 | 30137.3 | 29689.7 | 29240.2 | 31460.2 | 33714.9 | 33327.6 | 30221.4 | 21597.1 | 12971.1 |
| 62.5° | 35021.3 | 33651.0 | 32280.6 | 32044.9 | 31807.3 | 33566.9 | 35012.2 | 33027.9 | 29569.1 | 20999.6 | 12430.2 |
| 65° | 35626.1 | 34845.9 | 34063.9 | 34285.0 | 34504.2 | 35160.2 | 35335.6 | 32150.9 | 27519.0 | 19326.0 | 11132.9 |
| 67.5° | 33888.5 | 34047.5 | 34206.4 | 35134.6 | 36061.0 | 35609.7 | 34374.5 | 30422.4 | 24601.0 | 16954.3 | 9307.6 |
| 70° | 28659.1 | 29612.9 | 30564.9 | 32761.1 | 34955.6 | 33954.3 | 31800.0 | 27319.8 | 21089.2 | 14222.7 | 7354.4 |
| 72.5° | 21931.5 | 23004.1 | 24074.8 | 27334.4 | 30592.3 | 29669.6 | 27031.1 | 22439.5 | 16908.6 | 11357.7 | 5804.9 |
| 75° | 15879.9 | 17091.3 | 18300.9 | 21896.8 | 25492.7 | 24211.8 | 20219.4 | 16066.3 | 12843.2 | 8669.9 | 4494.8 |
| 77.5° | 11312.0 | 12123.3 | 12934.5 | 16486.5 | 20036.7 | 17950.1 | 13458.9 | 10811.4 | 8889.2 | 6026.0 | 3161.0 |
| 80° | 9073.7 | 8825.2 | 8576.7 | 10555.6 | 12534.4 | 12187.2 | 8902.0 | 6943.2 | 6152.1 | 4038.0 | 1924.0 |
| 82.5° | 7401.9 | 6795.2 | 6188.6 | 7120.5 | 8052.3 | 8001.2 | 6177.7 | 5094.1 | 4578.9 | 2806.5 | 1034.2 |
| 85° | 5421.2 | 5178.2 | 4935.2 | 5759.2 | 6583.3 | 5879.8 | 4184.2 | 3237.7 | 3570.3 | 2066.5 | 562.8 |
| 87.5° | 2643.9 | 3020.3 | 3394.9 | 4366.9 | 5337.2 | 4007.0 | 1269.9 | 628.5 | 869.7 | 571.9 | 272.2 |
| 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 |



REPORT NUMBER: P320262
 CATALOG NUMBER: GLEON-SA8D-727-U-SLL

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: P320262
 CATALOG NUMBER: GLEON-SA8D-727-U-SLL

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 |
| 2.5° | 14237.3 | 14087.5 | 13917.5 | 13747.6 | 13553.9 | 13358.4 | 13243.3 | 13126.4 | 13000.3 | 12874.2 | 12731.7 |
| 5° | 13038.7 | 12724.4 | 12368.1 | 12011.8 | 11659.2 | 11306.5 | 11116.5 | 10926.5 | 10725.5 | 10522.7 | 10347.3 |
| 7.5° | 11317.5 | 10858.9 | 10365.5 | 9870.4 | 9431.8 | 8991.5 | 8719.2 | 8445.2 | 8196.7 | 7946.4 | 7736.2 |
| 10° | 9802.8 | 9218.1 | 8722.9 | 8225.9 | 7895.2 | 7564.5 | 7314.2 | 7063.8 | 6822.6 | 6579.6 | 6347.6 |
| 12.5° | 8805.1 | 8220.4 | 7906.2 | 7591.9 | 7317.8 | 7043.7 | 6755.0 | 6464.5 | 6133.8 | 5801.3 | 5558.2 |
| 15° | 8415.9 | 7884.2 | 7535.2 | 7184.4 | 6817.2 | 6448.1 | 6093.6 | 5739.1 | 5348.1 | 4957.1 | 4681.2 |
| 17.5° | 8247.8 | 7551.7 | 7063.8 | 6574.2 | 6090.0 | 5605.8 | 5194.6 | 4783.5 | 4356.0 | 3928.4 | 3648.9 |
| 20° | 8070.6 | 7144.2 | 6490.1 | 5834.1 | 5212.9 | 4591.7 | 4125.7 | 3659.8 | 3277.9 | 2896.1 | 2682.3 |
| 22.5° | 7909.8 | 6711.2 | 5890.8 | 5068.6 | 4334.0 | 3599.5 | 3142.7 | 2684.1 | 2450.2 | 2216.4 | 2130.5 |
| 25° | 7844.0 | 6333.0 | 5324.4 | 4315.8 | 3541.1 | 2764.5 | 2439.3 | 2114.0 | 2024.5 | 1933.1 | 1889.3 |
| 27.5° | 7855.0 | 5994.9 | 4847.5 | 3698.2 | 3000.2 | 2302.2 | 2079.3 | 1856.4 | 1801.6 | 1744.9 | 1717.5 |
| 30° | 7897.0 | 5627.7 | 4398.0 | 3168.3 | 2592.8 | 2017.2 | 1872.8 | 1726.7 | 1668.2 | 1609.7 | 1575.0 |
| 32.5° | 7944.5 | 5298.8 | 4050.8 | 2801.0 | 2331.5 | 1860.1 | 1741.3 | 1620.7 | 1564.1 | 1507.4 | 1472.7 |
| 35° | 7862.3 | 5030.2 | 3813.3 | 2596.4 | 2163.4 | 1728.5 | 1628.0 | 1525.7 | 1463.6 | 1401.4 | 1368.5 |
| 37.5° | 7723.4 | 4759.8 | 3628.8 | 2495.9 | 2053.7 | 1609.7 | 1536.6 | 1461.7 | 1397.8 | 1332.0 | 1300.9 |
| 40° | 7597.4 | 4531.4 | 3491.7 | 2450.2 | 1993.4 | 1534.8 | 1472.7 | 1410.6 | 1344.8 | 1277.2 | 1240.6 |
| 42.5° | 7495.0 | 4377.9 | 3356.5 | 2335.1 | 1938.6 | 1540.3 | 1452.6 | 1363.1 | 1299.1 | 1235.2 | 1195.0 |
| 45° | 7418.3 | 4277.4 | 3250.5 | 2223.7 | 1887.5 | 1551.3 | 1439.8 | 1328.4 | 1264.4 | 1198.6 | 1151.1 |
| 47.5° | 7411.0 | 4224.4 | 3175.6 | 2126.8 | 1790.6 | 1452.6 | 1406.9 | 1361.2 | 1268.1 | 1173.0 | 1118.2 |
| 50° | 7511.5 | 4138.5 | 3087.9 | 2035.5 | 1697.4 | 1359.4 | 1421.5 | 1481.8 | 1322.9 | 1162.1 | 1092.6 |
| 52.5° | 7721.6 | 3986.9 | 2949.0 | 1911.2 | 1584.2 | 1255.3 | 1352.1 | 1447.1 | 1310.1 | 1171.2 | 1081.7 |
| 55° | 7975.6 | 3764.0 | 2738.9 | 1712.1 | 1434.3 | 1154.8 | 1240.6 | 1324.7 | 1238.8 | 1151.1 | 1043.3 |
| 57.5° | 8134.6 | 3482.6 | 2474.0 | 1465.4 | 1266.2 | 1067.1 | 1116.4 | 1163.9 | 1129.2 | 1094.5 | 984.8 |
| 60° | 8039.5 | 3108.0 | 2176.2 | 1242.5 | 1118.2 | 994.0 | 984.8 | 973.9 | 1025.0 | 1076.2 | 950.1 |
| 62.5° | 7575.4 | 2720.7 | 1913.0 | 1105.4 | 1012.3 | 917.2 | 897.1 | 875.2 | 959.3 | 1041.5 | 908.1 |
| 65° | 6791.6 | 2450.2 | 1746.8 | 1043.3 | 939.2 | 835.0 | 813.1 | 791.2 | 816.7 | 842.3 | 780.2 |
| 67.5° | 5795.8 | 2284.0 | 1651.8 | 1019.6 | 893.5 | 765.6 | 740.0 | 714.4 | 708.9 | 703.5 | 681.5 |
| 70° | 4768.9 | 2181.6 | 1589.6 | 997.6 | 844.2 | 688.8 | 665.1 | 641.3 | 634.0 | 624.9 | 608.4 |
| 72.5° | 3986.9 | 2168.8 | 1582.3 | 995.8 | 804.0 | 612.1 | 590.2 | 568.2 | 559.1 | 548.2 | 535.4 |
| 75° | 3265.2 | 2035.5 | 1501.9 | 968.4 | 749.1 | 528.1 | 508.0 | 487.9 | 480.5 | 471.4 | 460.4 |
| 77.5° | 2422.8 | 1684.6 | 1262.6 | 840.5 | 641.3 | 442.2 | 422.1 | 400.1 | 398.3 | 394.7 | 385.5 |
| 80° | 1571.4 | 1218.7 | 902.6 | 586.5 | 467.8 | 347.2 | 330.7 | 312.4 | 314.3 | 316.1 | 308.8 |
| 82.5° | 873.4 | 710.8 | 551.8 | 392.8 | 319.8 | 246.7 | 239.4 | 230.2 | 235.7 | 239.4 | 230.2 |
| 85° | 460.4 | 358.1 | 296.0 | 233.9 | 184.5 | 135.2 | 135.2 | 133.4 | 140.7 | 148.0 | 140.7 |
| 87.5° | 199.2 | 126.1 | 107.8 | 87.7 | 49.3 | 9.1 | 11.0 | 11.0 | 14.6 | 18.3 | 16.4 |
| 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: P320262
 CATALOG NUMBER: GLEON-SA8D-727-U-SLL

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: P320262
 CATALOG NUMBER: GLEON-SA8D-727-U-SLL

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 |
| 2.5° | 12587.4 | 12454.0 | 12318.8 | 12170.8 | 12198.2 | 12084.9 | 11971.6 | 11900.3 | 11829.1 | 11807.2 | 11785.2 |
| 5° | 10171.8 | 10020.2 | 9866.7 | 9729.7 | 9848.4 | 9768.0 | 9687.6 | 9676.7 | 9663.9 | 9663.9 | 9662.1 |
| 7.5° | 7526.1 | 7363.5 | 7199.0 | 7085.8 | 7202.7 | 7188.1 | 7173.5 | 7252.0 | 7330.6 | 7394.6 | 7456.7 |
| 10° | 6115.5 | 5918.2 | 5719.0 | 5550.9 | 5521.7 | 5437.7 | 5351.8 | 5370.0 | 5386.5 | 5455.9 | 5525.4 |
| 12.5° | 5315.2 | 5079.5 | 4843.8 | 4646.5 | 4557.0 | 4418.1 | 4277.4 | 4189.7 | 4102.0 | 4111.1 | 4118.4 |
| 15° | 4403.5 | 4175.1 | 3944.9 | 3774.9 | 3718.3 | 3610.5 | 3502.7 | 3393.1 | 3281.6 | 3235.9 | 3188.4 |
| 17.5° | 3367.5 | 3184.8 | 3000.2 | 2886.9 | 2886.9 | 2855.9 | 2824.8 | 2770.0 | 2713.3 | 2667.7 | 2620.2 |
| 20° | 2468.5 | 2371.7 | 2273.0 | 2225.5 | 2240.1 | 2241.9 | 2241.9 | 2269.3 | 2296.8 | 2282.1 | 2267.5 |
| 22.5° | 2042.8 | 2008.1 | 1973.3 | 1953.2 | 1960.6 | 1962.4 | 1964.2 | 1989.8 | 2013.5 | 2031.8 | 2048.3 |
| 25° | 1843.6 | 1821.7 | 1799.8 | 1792.5 | 1808.9 | 1810.7 | 1810.7 | 1827.2 | 1843.6 | 1861.9 | 1880.2 |
| 27.5° | 1688.3 | 1679.2 | 1670.0 | 1657.2 | 1673.7 | 1673.7 | 1671.9 | 1690.1 | 1706.6 | 1723.0 | 1737.6 |
| 30° | 1540.3 | 1544.0 | 1545.8 | 1542.1 | 1553.1 | 1560.4 | 1565.9 | 1578.7 | 1589.6 | 1602.4 | 1615.2 |
| 32.5° | 1436.2 | 1430.7 | 1425.2 | 1421.5 | 1445.3 | 1458.1 | 1470.9 | 1483.7 | 1494.6 | 1500.1 | 1505.6 |
| 35° | 1335.7 | 1322.9 | 1310.1 | 1300.9 | 1322.9 | 1339.3 | 1355.8 | 1379.5 | 1401.4 | 1405.1 | 1408.7 |
| 37.5° | 1268.1 | 1251.6 | 1235.2 | 1224.2 | 1233.3 | 1240.6 | 1248.0 | 1273.5 | 1299.1 | 1313.7 | 1326.5 |
| 40° | 1204.1 | 1187.7 | 1171.2 | 1162.1 | 1167.6 | 1169.4 | 1171.2 | 1184.0 | 1195.0 | 1222.4 | 1248.0 |
| 42.5° | 1152.9 | 1132.8 | 1112.7 | 1101.8 | 1105.4 | 1109.1 | 1110.9 | 1109.1 | 1107.3 | 1132.8 | 1158.4 |
| 45° | 1101.8 | 1079.9 | 1057.9 | 1045.1 | 1047.0 | 1047.0 | 1047.0 | 1043.3 | 1037.8 | 1050.6 | 1063.4 |
| 47.5° | 1061.6 | 1036.0 | 1010.4 | 997.6 | 994.0 | 990.3 | 986.7 | 984.8 | 981.2 | 990.3 | 997.6 |
| 50° | 1021.4 | 994.0 | 964.7 | 950.1 | 941.0 | 937.3 | 933.7 | 931.9 | 928.2 | 937.3 | 944.6 |
| 52.5° | 990.3 | 957.4 | 924.5 | 900.8 | 891.7 | 886.2 | 880.7 | 882.5 | 882.5 | 886.2 | 888.0 |
| 55° | 935.5 | 906.3 | 875.2 | 858.8 | 842.3 | 838.7 | 835.0 | 840.5 | 844.2 | 844.2 | 844.2 |
| 57.5° | 875.2 | 847.8 | 818.6 | 807.6 | 793.0 | 793.0 | 791.2 | 798.5 | 804.0 | 807.6 | 811.3 |
| 60° | 822.2 | 791.2 | 760.1 | 751.0 | 745.5 | 743.7 | 741.8 | 751.0 | 758.3 | 765.6 | 772.9 |
| 62.5° | 772.9 | 740.0 | 707.1 | 696.2 | 694.3 | 696.2 | 696.2 | 705.3 | 712.6 | 719.9 | 727.2 |
| 65° | 718.1 | 685.2 | 650.5 | 639.5 | 643.2 | 648.6 | 654.1 | 661.4 | 666.9 | 674.2 | 681.5 |
| 67.5° | 657.8 | 630.4 | 601.1 | 590.2 | 592.0 | 599.3 | 606.6 | 612.1 | 615.8 | 623.1 | 630.4 |
| 70° | 592.0 | 568.2 | 544.5 | 537.2 | 535.4 | 544.5 | 551.8 | 555.5 | 559.1 | 568.2 | 575.6 |
| 72.5° | 520.7 | 500.6 | 480.5 | 475.1 | 476.9 | 482.4 | 487.9 | 493.3 | 497.0 | 506.1 | 513.4 |
| 75° | 447.7 | 429.4 | 411.1 | 407.5 | 411.1 | 416.6 | 422.1 | 425.7 | 429.4 | 440.3 | 449.5 |
| 77.5° | 376.4 | 356.3 | 334.4 | 332.5 | 338.0 | 343.5 | 347.2 | 352.6 | 358.1 | 372.7 | 387.4 |
| 80° | 301.5 | 279.6 | 255.8 | 254.0 | 259.5 | 264.9 | 270.4 | 275.9 | 281.4 | 299.7 | 316.1 |
| 82.5° | 221.1 | 195.5 | 169.9 | 166.3 | 184.5 | 190.0 | 195.5 | 204.6 | 212.0 | 228.4 | 244.8 |
| 85° | 133.4 | 107.8 | 82.2 | 80.4 | 96.8 | 106.0 | 115.1 | 126.1 | 135.2 | 149.8 | 164.4 |
| 87.5° | 14.6 | 7.3 | 0.0 | 0.0 | 1.8 | 9.1 | 16.4 | 25.6 | 34.7 | 49.3 | 62.1 |
| 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: P320262
 CATALOG NUMBER: GLEON-SA8D-727-U-SLL

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: P320262

CATALOG NUMBER: GLEON-SA8D-727-U-SLL

CANDELA DISTRIBUTION (continued):

| | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 |
| 2.5° | 11704.8 | 11622.6 | 11706.7 | 11788.9 | 11823.6 | 11858.3 | 11768.8 | 11677.4 | 11820.0 | 11960.6 | 11997.2 |
| 5° | 9589.0 | 9514.1 | 9570.7 | 9625.5 | 9503.1 | 9380.7 | 9367.9 | 9353.3 | 9459.3 | 9565.2 | 9581.7 |
| 7.5° | 7432.9 | 7409.2 | 7462.2 | 7515.1 | 7359.8 | 7202.7 | 7126.0 | 7049.2 | 7074.8 | 7100.4 | 7096.7 |
| 10° | 5541.8 | 5556.4 | 5622.2 | 5686.1 | 5565.6 | 5445.0 | 5392.0 | 5339.0 | 5397.5 | 5454.1 | 5507.1 |
| 12.5° | 4151.3 | 4182.4 | 4251.8 | 4319.4 | 4270.1 | 4218.9 | 4224.4 | 4229.9 | 4297.5 | 4363.3 | 4421.7 |
| 15° | 3225.0 | 3261.5 | 3310.8 | 3358.3 | 3360.2 | 3360.2 | 3407.7 | 3453.3 | 3447.9 | 3442.4 | 3482.6 |
| 17.5° | 2669.5 | 2717.0 | 2722.5 | 2728.0 | 2729.8 | 2731.6 | 2728.0 | 2724.3 | 2696.9 | 2669.5 | 2700.6 |
| 20° | 2285.8 | 2302.2 | 2316.8 | 2329.6 | 2313.2 | 2294.9 | 2249.2 | 2203.6 | 2185.3 | 2167.0 | 2196.3 |
| 22.5° | 2079.3 | 2108.6 | 2093.9 | 2077.5 | 2044.6 | 2009.9 | 1975.2 | 1938.6 | 1936.8 | 1933.1 | 1949.6 |
| 25° | 1905.7 | 1929.5 | 1903.9 | 1878.3 | 1854.6 | 1830.8 | 1807.1 | 1783.3 | 1781.5 | 1779.7 | 1787.0 |
| 27.5° | 1761.4 | 1783.3 | 1759.6 | 1735.8 | 1715.7 | 1695.6 | 1677.3 | 1659.1 | 1655.4 | 1651.8 | 1653.6 |
| 30° | 1637.1 | 1657.2 | 1637.1 | 1615.2 | 1600.6 | 1584.2 | 1571.4 | 1558.6 | 1556.7 | 1554.9 | 1554.9 |
| 32.5° | 1525.7 | 1545.8 | 1531.2 | 1516.5 | 1503.8 | 1491.0 | 1481.8 | 1472.7 | 1463.6 | 1454.4 | 1434.3 |
| 35° | 1428.8 | 1448.9 | 1439.8 | 1428.8 | 1414.2 | 1399.6 | 1383.2 | 1364.9 | 1341.1 | 1315.6 | 1304.6 |
| 37.5° | 1346.6 | 1366.7 | 1357.6 | 1348.5 | 1328.4 | 1308.3 | 1279.0 | 1248.0 | 1240.6 | 1231.5 | 1229.7 |
| 40° | 1280.8 | 1311.9 | 1293.6 | 1273.5 | 1242.5 | 1211.4 | 1196.8 | 1182.2 | 1178.5 | 1174.9 | 1171.2 |
| 42.5° | 1207.8 | 1255.3 | 1222.4 | 1189.5 | 1160.3 | 1131.0 | 1127.4 | 1123.7 | 1121.9 | 1120.1 | 1120.1 |
| 45° | 1116.4 | 1167.6 | 1134.7 | 1100.0 | 1083.5 | 1067.1 | 1067.1 | 1067.1 | 1068.9 | 1068.9 | 1072.5 |
| 47.5° | 1030.5 | 1061.6 | 1045.1 | 1028.7 | 1019.6 | 1010.4 | 1012.3 | 1014.1 | 1019.6 | 1023.2 | 1032.4 |
| 50° | 957.4 | 968.4 | 972.1 | 973.9 | 968.4 | 962.9 | 966.6 | 968.4 | 973.9 | 977.5 | 984.8 |
| 52.5° | 904.4 | 920.9 | 920.9 | 919.1 | 919.1 | 919.1 | 922.7 | 926.4 | 931.9 | 937.3 | 944.6 |
| 55° | 869.7 | 893.5 | 886.2 | 878.9 | 880.7 | 880.7 | 884.3 | 888.0 | 893.5 | 897.1 | 908.1 |
| 57.5° | 836.8 | 862.4 | 855.1 | 847.8 | 847.8 | 847.8 | 849.6 | 851.5 | 856.9 | 860.6 | 867.9 |
| 60° | 798.5 | 824.1 | 816.7 | 807.6 | 809.4 | 811.3 | 813.1 | 813.1 | 816.7 | 818.6 | 818.6 |
| 62.5° | 752.8 | 778.4 | 771.1 | 761.9 | 767.4 | 771.1 | 771.1 | 771.1 | 774.7 | 776.5 | 771.1 |
| 65° | 705.3 | 729.0 | 721.7 | 714.4 | 721.7 | 727.2 | 730.9 | 732.7 | 730.9 | 729.0 | 723.6 |
| 67.5° | 654.1 | 677.9 | 670.6 | 661.4 | 670.6 | 677.9 | 685.2 | 690.7 | 685.2 | 679.7 | 672.4 |
| 70° | 599.3 | 623.1 | 613.9 | 604.8 | 613.9 | 623.1 | 630.4 | 637.7 | 630.4 | 623.1 | 621.2 |
| 72.5° | 540.8 | 568.2 | 557.3 | 546.3 | 557.3 | 568.2 | 571.9 | 575.6 | 570.1 | 564.6 | 560.9 |
| 75° | 476.9 | 504.3 | 495.2 | 484.2 | 493.3 | 502.5 | 504.3 | 506.1 | 506.1 | 504.3 | 493.3 |
| 77.5° | 409.3 | 431.2 | 425.7 | 420.2 | 425.7 | 431.2 | 431.2 | 431.2 | 433.0 | 433.0 | 418.4 |
| 80° | 328.9 | 341.7 | 343.5 | 345.3 | 347.2 | 349.0 | 347.2 | 345.3 | 341.7 | 338.0 | 328.9 |
| 82.5° | 244.8 | 244.8 | 259.5 | 272.2 | 272.2 | 270.4 | 268.6 | 264.9 | 257.6 | 248.5 | 228.4 |
| 85° | 155.3 | 146.2 | 169.9 | 191.9 | 191.9 | 190.0 | 186.4 | 180.9 | 166.3 | 149.8 | 133.4 |
| 87.5° | 53.0 | 43.9 | 67.6 | 91.4 | 93.2 | 93.2 | 89.5 | 85.9 | 71.3 | 54.8 | 42.0 |
| 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: P320262
 CATALOG NUMBER: GLEON-SA8D-727-U-SLL

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: P320262
 CATALOG NUMBER: GLEON-SA8D-727-U-SLL

CANDELA DISTRIBUTION (continued):

| | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 |
| 2.5° | 12052.0 | 12075.8 | 12097.7 | 12276.7 | 12454.0 | 12662.3 | 12870.6 | 13029.5 | 13186.7 | 13349.3 | 13511.9 |
| 5° | 9638.3 | 9667.5 | 9696.8 | 9914.2 | 10129.8 | 10420.3 | 10710.9 | 10961.2 | 11211.5 | 11505.7 | 11799.9 |
| 7.5° | 7144.2 | 7208.2 | 7270.3 | 7502.4 | 7732.6 | 8045.0 | 8355.6 | 8682.7 | 9007.9 | 9391.6 | 9775.4 |
| 10° | 5611.2 | 5731.8 | 5850.6 | 6088.1 | 6325.7 | 6634.4 | 6941.4 | 7283.1 | 7624.8 | 8003.0 | 8379.4 |
| 12.5° | 4542.3 | 4703.1 | 4862.1 | 5147.1 | 5432.2 | 5801.3 | 6168.5 | 6548.6 | 6926.8 | 7259.3 | 7591.9 |
| 15° | 3588.6 | 3764.0 | 3937.5 | 4239.0 | 4540.5 | 4946.1 | 5349.9 | 5764.7 | 6177.7 | 6576.0 | 6974.3 |
| 17.5° | 2799.2 | 2943.6 | 3086.1 | 3341.9 | 3595.9 | 3988.7 | 4381.6 | 4816.4 | 5251.3 | 5737.3 | 6221.5 |
| 20° | 2258.4 | 2318.7 | 2379.0 | 2563.5 | 2746.2 | 3066.0 | 3383.9 | 3827.9 | 4271.9 | 4853.0 | 5434.0 |
| 22.5° | 1978.8 | 2009.9 | 2039.1 | 2128.7 | 2216.4 | 2422.8 | 2627.5 | 3020.3 | 3411.3 | 4045.4 | 4677.6 |
| 25° | 1810.7 | 1834.5 | 1858.2 | 1916.7 | 1975.2 | 2073.8 | 2172.5 | 2448.4 | 2724.3 | 3347.4 | 3968.6 |
| 27.5° | 1659.1 | 1695.6 | 1730.3 | 1757.7 | 1783.3 | 1850.9 | 1916.7 | 2097.6 | 2278.5 | 2859.5 | 3438.7 |
| 30° | 1549.4 | 1562.2 | 1575.0 | 1617.0 | 1657.2 | 1726.7 | 1796.1 | 1922.2 | 2048.3 | 2539.8 | 3029.4 |
| 32.5° | 1421.5 | 1439.8 | 1458.1 | 1501.9 | 1545.8 | 1609.7 | 1673.7 | 1776.0 | 1876.5 | 2296.8 | 2715.2 |
| 35° | 1306.4 | 1324.7 | 1343.0 | 1386.8 | 1428.8 | 1498.3 | 1565.9 | 1651.8 | 1735.8 | 2101.2 | 2466.7 |
| 37.5° | 1235.2 | 1253.4 | 1271.7 | 1310.1 | 1346.6 | 1416.1 | 1483.7 | 1551.3 | 1617.0 | 1955.1 | 2293.1 |
| 40° | 1174.9 | 1193.1 | 1211.4 | 1248.0 | 1282.7 | 1350.3 | 1416.1 | 1472.7 | 1529.3 | 1845.4 | 2161.5 |
| 42.5° | 1121.9 | 1142.0 | 1162.1 | 1198.6 | 1233.3 | 1293.6 | 1353.9 | 1428.8 | 1501.9 | 1750.4 | 1997.1 |
| 45° | 1078.0 | 1098.1 | 1116.4 | 1156.6 | 1196.8 | 1255.3 | 1313.7 | 1417.9 | 1522.0 | 1701.1 | 1880.2 |
| 47.5° | 1037.8 | 1059.8 | 1079.9 | 1123.7 | 1167.6 | 1240.6 | 1311.9 | 1399.6 | 1485.5 | 1662.7 | 1840.0 |
| 50° | 999.5 | 1025.0 | 1050.6 | 1103.6 | 1154.8 | 1277.2 | 1397.8 | 1410.6 | 1421.5 | 1631.7 | 1840.0 |
| 52.5° | 962.9 | 992.2 | 1021.4 | 1087.2 | 1151.1 | 1293.6 | 1436.2 | 1390.5 | 1343.0 | 1573.2 | 1803.4 |
| 55° | 926.4 | 952.0 | 975.7 | 1056.1 | 1136.5 | 1240.6 | 1344.8 | 1284.5 | 1222.4 | 1463.6 | 1704.7 |
| 57.5° | 877.0 | 904.4 | 930.0 | 1015.9 | 1101.8 | 1174.9 | 1246.1 | 1191.3 | 1134.7 | 1339.3 | 1542.1 |
| 60° | 825.9 | 856.9 | 888.0 | 997.6 | 1105.4 | 1092.6 | 1078.0 | 1067.1 | 1054.3 | 1200.4 | 1346.6 |
| 62.5° | 780.2 | 813.1 | 846.0 | 988.5 | 1131.0 | 1043.3 | 955.6 | 964.7 | 972.1 | 1079.9 | 1187.7 |
| 65° | 734.5 | 767.4 | 798.5 | 869.7 | 941.0 | 906.3 | 871.6 | 886.2 | 899.0 | 1004.9 | 1110.9 |
| 67.5° | 683.4 | 712.6 | 740.0 | 763.8 | 787.5 | 791.2 | 794.8 | 809.4 | 824.1 | 950.1 | 1074.4 |
| 70° | 626.7 | 650.5 | 674.2 | 690.7 | 705.3 | 712.6 | 718.1 | 736.3 | 754.6 | 891.7 | 1028.7 |
| 72.5° | 562.8 | 582.9 | 601.1 | 615.8 | 630.4 | 635.9 | 639.5 | 657.8 | 676.1 | 822.2 | 968.4 |
| 75° | 493.3 | 509.8 | 524.4 | 537.2 | 550.0 | 557.3 | 564.6 | 577.4 | 590.2 | 749.1 | 906.3 |
| 77.5° | 416.6 | 433.0 | 447.7 | 458.6 | 467.8 | 475.1 | 480.5 | 497.0 | 513.4 | 646.8 | 778.4 |
| 80° | 325.2 | 345.3 | 363.6 | 372.7 | 380.1 | 381.9 | 381.9 | 396.5 | 411.1 | 506.1 | 599.3 |
| 82.5° | 230.2 | 252.1 | 272.2 | 279.6 | 286.9 | 286.9 | 286.9 | 303.3 | 319.8 | 383.7 | 445.8 |
| 85° | 135.2 | 159.0 | 180.9 | 188.2 | 195.5 | 199.2 | 201.0 | 208.3 | 213.8 | 259.5 | 303.3 |
| 87.5° | 42.0 | 62.1 | 80.4 | 84.0 | 87.7 | 95.0 | 102.3 | 104.1 | 104.1 | 135.2 | 166.3 |
| 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: P320262
 CATALOG NUMBER: GLEON-SA8D-727-U-SLL

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: P320262

CATALOG NUMBER: GLEON-SA8D-727-U-SLL

CANDELA DISTRIBUTION (continued):

| | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 | 13923.0 |
| 2.5° | 13698.3 | 13884.7 | 14102.1 | 14317.7 | 14502.2 | 14686.8 | 14840.3 |
| 5° | 12174.4 | 12549.0 | 13007.6 | 13464.4 | 13871.9 | 14279.3 | 14752.6 |
| 7.5° | 10259.6 | 10743.8 | 11337.6 | 11931.4 | 12507.0 | 13080.7 | 13807.9 |
| 10° | 8872.7 | 9364.2 | 9992.8 | 10619.5 | 11266.3 | 11911.3 | 12733.5 |
| 12.5° | 7992.0 | 8390.4 | 8998.8 | 9607.3 | 10367.4 | 11125.6 | 11916.8 |
| 15° | 7411.0 | 7845.9 | 8437.9 | 9029.9 | 9861.2 | 10692.6 | 11602.5 |
| 17.5° | 6791.6 | 7359.8 | 8118.1 | 8876.4 | 9861.2 | 10844.2 | 11916.8 |
| 20° | 6142.9 | 6850.1 | 7833.1 | 8816.1 | 10142.6 | 11467.3 | 12835.9 |
| 22.5° | 5496.1 | 6314.7 | 7575.4 | 8834.4 | 10568.3 | 12300.5 | 14147.8 |
| 25° | 4913.3 | 5857.9 | 7418.3 | 8976.9 | 11187.8 | 13396.8 | 15688.1 |
| 27.5° | 4471.1 | 5501.6 | 7354.4 | 9205.3 | 11973.4 | 14741.6 | 17363.6 |
| 30° | 4078.2 | 5127.0 | 7277.6 | 9428.2 | 12729.9 | 16029.7 | 18673.7 |
| 32.5° | 3738.4 | 4761.6 | 7129.6 | 9495.8 | 13257.9 | 17020.1 | 19782.8 |
| 35° | 3471.6 | 4476.6 | 6881.1 | 9285.7 | 13588.7 | 17891.6 | 20937.5 |
| 37.5° | 3241.4 | 4189.7 | 6597.9 | 9006.1 | 13882.8 | 18759.5 | 22236.6 |
| 40° | 3022.1 | 3882.7 | 6354.9 | 8825.2 | 14288.5 | 19751.7 | 23608.8 |
| 42.5° | 2813.8 | 3630.6 | 6159.4 | 8688.2 | 14664.9 | 20639.7 | 24809.3 |
| 45° | 2658.5 | 3436.9 | 5985.8 | 8532.9 | 14907.9 | 21282.9 | 25713.7 |
| 47.5° | 2581.8 | 3321.8 | 5892.6 | 8461.6 | 15150.9 | 21838.3 | 26464.7 |
| 50° | 2570.8 | 3301.7 | 5998.6 | 8695.5 | 15677.1 | 22656.9 | 27323.5 |
| 52.5° | 2569.0 | 3334.6 | 6303.7 | 9272.9 | 16654.6 | 24034.6 | 28253.5 |
| 55° | 2530.6 | 3354.7 | 6667.3 | 9978.2 | 17966.5 | 25953.1 | 29925.4 |
| 57.5° | 2413.7 | 3285.2 | 7041.9 | 10796.7 | 19353.4 | 27908.2 | 31809.2 |
| 60° | 2232.8 | 3117.1 | 7350.7 | 11582.4 | 20285.2 | 28986.2 | 32534.6 |
| 62.5° | 2006.2 | 2823.0 | 7453.0 | 12081.2 | 20259.6 | 28438.1 | 31803.7 |
| 65° | 1812.6 | 2514.2 | 7116.8 | 11717.6 | 19234.6 | 26749.7 | 30358.4 |
| 67.5° | 1640.8 | 2205.4 | 6276.3 | 10345.4 | 17391.0 | 24434.7 | 28520.3 |
| 70° | 1516.5 | 2002.6 | 5192.8 | 8383.0 | 15083.3 | 21781.7 | 26391.6 |
| 72.5° | 1438.0 | 1905.7 | 4233.5 | 6559.5 | 12240.2 | 17919.0 | 22574.7 |
| 75° | 1330.2 | 1754.1 | 3321.8 | 4887.7 | 9367.9 | 13848.1 | 17051.1 |
| 77.5° | 1129.2 | 1478.2 | 2503.2 | 3528.3 | 6873.8 | 10217.5 | 11858.3 |
| 80° | 871.6 | 1142.0 | 1721.2 | 2300.4 | 4730.5 | 7160.7 | 8085.2 |
| 82.5° | 621.2 | 796.6 | 1043.3 | 1290.0 | 3142.7 | 4993.7 | 5070.4 |
| 85° | 383.7 | 464.1 | 597.5 | 730.9 | 2079.3 | 3427.8 | 2855.9 |
| 87.5° | 206.5 | 246.7 | 316.1 | 383.7 | 665.1 | 946.5 | 544.5 |
| 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: P320262
CATALOG NUMBER: GLEON-SA8D-727-U-SLL

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 |

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



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

Report Prepared for

Cooper Lighting Solutions

McGRAW-EDISON

Report Number: SP1-1908-441-1-R4

Test Date: 08/20/2019

Luminaire Tested: SA1C-727-U-5WQ

Test Information

Test Method: LM-79-2008
 Report Number: SP1-1908-441-1-R4
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 10/28/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGRAW-EDISON
 Catalog Number: **SA1C-727-U-5WQ**
 Description: McGRAW EDISON ROADWAY AND AREA LUMINAIRE

THIS IS A REVISION OF SP1-1908-441-1-R3. TO UPDATE THE CATALOG NUMBER.TESTED IN
 SITU. (1) 70 CRI, 2700K, 1050MA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS.

Spectral Parameters

CCT (K): 2741
 CIE u': 0.2605
 CIE v': 0.5272
 Duv: 0.0005
 CIE x: 0.4573
 CIE y: 0.4113
 CIE z: 0.1313
 Peak Wavelength (nm): 602
 Dominant Wavelength (nm): 583
 Purity: 61.2
 Rf: 69.9
 Rg: 98.3

| | | | |
|-----------|------|------|-------|
| CRI (Ra): | 71.5 | | |
| R1: | 69.2 | R9: | -16.1 |
| R2: | 79.4 | R10: | 51.4 |
| R3: | 87.8 | R11: | 63.1 |
| R4: | 69.4 | R12: | 42.0 |
| R5: | 66.4 | R13: | 70.2 |
| R6: | 69.8 | R14: | 92.4 |
| R7: | 79.8 | | |
| R8: | 50.1 | | |



Test Conditions

Stabilization Time: 56M
 Operation Time: 12H
 Room Temperature (°C) / RH%: 25.3./42%
 Sphere Temperature (°C): 25.7

REPORT NUMBER: SP1-1908-441-1-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: SP1-1908-441-1-R4

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: SP1-1908-441-1-R4

Photopic Flux vs. Wavelength



Photopic Lumens: 6211.7

| 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 | 2044 | 0.0 | 490 | 7179 | 1.0 | 620 | 118034 | 30.7 | 750 | 8362 | 0.0 | 880 | 3128 | 0.0 |
| 365 | 2016 | 0.0 | 495 | 10476 | 1.9 | 625 | 111884 | 24.7 | 755 | 7635 | 0.0 | 885 | 3110 | 0.0 |
| 370 | 2020 | 0.0 | 500 | 15549 | 3.4 | 630 | 106119 | 19.2 | 760 | 6582 | 0.0 | 890 | 2632 | 0.0 |
| 375 | 2137 | 0.0 | 505 | 22477 | 6.3 | 635 | 99706 | 15.0 | 765 | 5777 | 0.0 | 895 | 2709 | 0.0 |
| 380 | 2046 | 0.0 | 510 | 30417 | 10.4 | 640 | 92142 | 11.0 | 770 | 5474 | 0.0 | 900 | 2016 | 0.0 |
| 385 | 1925 | 0.0 | 515 | 39274 | 16.3 | 645 | 84987 | 8.2 | 775 | 4977 | 0.0 | 905 | 1748 | 0.0 |
| 390 | 1893 | 0.0 | 520 | 47282 | 22.9 | 650 | 78016 | 5.7 | 780 | 4723 | 0.0 | 910 | 2046 | 0.0 |
| 395 | 1695 | 0.0 | 525 | 55413 | 29.7 | 655 | 71541 | 4.1 | 785 | 4219 | 0.0 | 915 | 1844 | 0.0 |
| 400 | 1633 | 0.0 | 530 | 62377 | 36.7 | 660 | 64863 | 2.7 | 790 | 3969 | 0.0 | 920 | 2734 | 0.0 |
| 405 | 2065 | 0.0 | 535 | 68520 | 42.5 | 665 | 58485 | 1.9 | 795 | 4122 | 0.0 | 925 | 2307 | 0.0 |
| 410 | 3449 | 0.0 | 540 | 73435 | 47.8 | 670 | 51641 | 1.1 | 800 | 2864 | 0.0 | 930 | 2039 | 0.0 |
| 415 | 7117 | 0.0 | 545 | 78677 | 52.4 | 675 | 46030 | 0.8 | 805 | 3151 | 0.0 | 935 | 1784 | 0.0 |
| 420 | 13992 | 0.0 | 550 | 83331 | 56.6 | 680 | 40590 | 0.5 | 810 | 3022 | 0.0 | 940 | 2464 | 0.0 |
| 425 | 25176 | 0.1 | 555 | 89120 | 60.9 | 685 | 35691 | 0.3 | 815 | 3471 | 0.0 | 945 | 2794 | 0.0 |
| 430 | 38151 | 0.3 | 560 | 94613 | 64.3 | 690 | 31631 | 0.2 | 820 | 2749 | 0.0 | 950 | 3090 | 0.0 |
| 435 | 49673 | 0.6 | 565 | 99818 | 66.4 | 695 | 27437 | 0.1 | 825 | 2729 | 0.0 | 955 | 1866 | 0.0 |
| 440 | 57273 | 0.9 | 570 | 106526 | 69.3 | 700 | 24589 | 0.1 | 830 | 2282 | 0.0 | 960 | 3110 | 0.0 |
| 445 | 54802 | 1.1 | 575 | 111610 | 69.4 | 705 | 21832 | 0.0 | 835 | 3140 | 0.0 | 965 | 3880 | 0.0 |
| 450 | 39184 | 1.0 | 580 | 117163 | 69.6 | 710 | 19500 | 0.0 | 840 | 2365 | 0.0 | 970 | 3243 | 0.0 |
| 455 | 22506 | 0.8 | 585 | 122201 | 67.9 | 715 | 17870 | 0.0 | 845 | 3024 | 0.0 | 975 | 2014 | 0.0 |
| 460 | 13692 | 0.6 | 590 | 125662 | 65.0 | 720 | 15924 | 0.0 | 850 | 2510 | 0.0 | 980 | 1688 | 0.0 |
| 465 | 9446 | 0.5 | 595 | 127415 | 60.4 | 725 | 14268 | 0.0 | 855 | 2739 | 0.0 | 985 | 2827 | 0.0 |
| 470 | 6698 | 0.4 | 600 | 129155 | 55.7 | 730 | 12438 | 0.0 | 860 | 3515 | 0.0 | 990 | 4172 | 0.0 |
| 475 | 5328 | 0.4 | 605 | 128057 | 49.6 | 735 | 11255 | 0.0 | 865 | 3600 | 0.0 | 995 | 3177 | 0.0 |
| 480 | 5081 | 0.5 | 610 | 126031 | 43.3 | 740 | 9951 | 0.0 | 870 | 3609 | 0.0 | 1000 | 3241 | 0.0 |
| 485 | 5579 | 0.7 | 615 | 123059 | 37.1 | 745 | 8870 | 0.0 | 875 | 3208 | 0.0 | | | |

REPORT NUMBER: SP1-1908-441-1-R4

Scotopic Flux vs. Wavelength



Scotopic Lumens: 6474.3

S/P: 1.04

| 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 | 2044 | 0.0 | 490 | 7179 | 6.0 | 620 | 118034 | 0.1 | 750 | 8362 | 0.0 | 880 | 3128 | 0.0 |
| 365 | 2016 | 0.0 | 495 | 10476 | 8.6 | 625 | 111884 | 0.1 | 755 | 7635 | 0.0 | 885 | 3110 | 0.0 |
| 370 | 2020 | 0.0 | 500 | 15549 | 12.5 | 630 | 106119 | 0.0 | 760 | 6582 | 0.0 | 890 | 2632 | 0.0 |
| 375 | 2137 | 0.0 | 505 | 22477 | 17.3 | 635 | 99706 | 0.0 | 765 | 5777 | 0.0 | 895 | 2709 | 0.0 |
| 380 | 2046 | 0.0 | 510 | 30417 | 21.8 | 640 | 92142 | 0.0 | 770 | 5474 | 0.0 | 900 | 2016 | 0.0 |
| 385 | 1925 | 0.0 | 515 | 39274 | 25.7 | 645 | 84987 | 0.0 | 775 | 4977 | 0.0 | 905 | 1748 | 0.0 |
| 390 | 1893 | 0.0 | 520 | 47282 | 27.5 | 650 | 78016 | 0.0 | 780 | 4723 | 0.0 | 910 | 2046 | 0.0 |
| 395 | 1695 | 0.0 | 525 | 55413 | 28.1 | 655 | 71541 | 0.0 | 785 | 4219 | 0.0 | 915 | 1844 | 0.0 |
| 400 | 1633 | 0.0 | 530 | 62377 | 27.0 | 660 | 64863 | 0.0 | 790 | 3969 | 0.0 | 920 | 2734 | 0.0 |
| 405 | 2065 | 0.0 | 535 | 68520 | 24.7 | 665 | 58485 | 0.0 | 795 | 4122 | 0.0 | 925 | 2307 | 0.0 |
| 410 | 3449 | 0.1 | 540 | 73435 | 21.5 | 670 | 51641 | 0.0 | 800 | 2864 | 0.0 | 930 | 2039 | 0.0 |
| 415 | 7117 | 0.5 | 545 | 78677 | 18.3 | 675 | 46030 | 0.0 | 805 | 3151 | 0.0 | 935 | 1784 | 0.0 |
| 420 | 13992 | 1.6 | 550 | 83331 | 15.0 | 680 | 40590 | 0.0 | 810 | 3022 | 0.0 | 940 | 2464 | 0.0 |
| 425 | 25176 | 3.9 | 555 | 89120 | 12.0 | 685 | 35691 | 0.0 | 815 | 3471 | 0.0 | 945 | 2794 | 0.0 |
| 430 | 38151 | 8.1 | 560 | 94613 | 9.3 | 690 | 31631 | 0.0 | 820 | 2749 | 0.0 | 950 | 3090 | 0.0 |
| 435 | 49673 | 13.3 | 565 | 99818 | 7.0 | 695 | 27437 | 0.0 | 825 | 2729 | 0.0 | 955 | 1866 | 0.0 |
| 440 | 57273 | 19.1 | 570 | 106526 | 5.2 | 700 | 24589 | 0.0 | 830 | 2282 | 0.0 | 960 | 3110 | 0.0 |
| 445 | 54802 | 21.6 | 575 | 111610 | 3.7 | 705 | 21832 | 0.0 | 835 | 3140 | 0.0 | 965 | 3880 | 0.0 |
| 450 | 39184 | 18.1 | 580 | 117163 | 2.6 | 710 | 19500 | 0.0 | 840 | 2365 | 0.0 | 970 | 3243 | 0.0 |
| 455 | 22506 | 11.8 | 585 | 122201 | 1.8 | 715 | 17870 | 0.0 | 845 | 3024 | 0.0 | 975 | 2014 | 0.0 |
| 460 | 13692 | 8.1 | 590 | 125662 | 1.2 | 720 | 15924 | 0.0 | 850 | 2510 | 0.0 | 980 | 1688 | 0.0 |
| 465 | 9446 | 6.2 | 595 | 127415 | 0.8 | 725 | 14268 | 0.0 | 855 | 2739 | 0.0 | 985 | 2827 | 0.0 |
| 470 | 6698 | 4.8 | 600 | 129155 | 0.5 | 730 | 12438 | 0.0 | 860 | 3515 | 0.0 | 990 | 4172 | 0.0 |
| 475 | 5328 | 4.1 | 605 | 128057 | 0.4 | 735 | 11255 | 0.0 | 865 | 3600 | 0.0 | 995 | 3177 | 0.0 |
| 480 | 5081 | 4.1 | 610 | 126031 | 0.2 | 740 | 9951 | 0.0 | 870 | 3609 | 0.0 | 1000 | 3241 | 0.0 |
| 485 | 5579 | 4.6 | 615 | 123059 | 0.1 | 745 | 8870 | 0.0 | 875 | 3208 | 0.0 | | | |

REPORT NUMBER: SP1-1908-441-1-R4

Melanopic Flux vs. Wavelength



Melanopic Lumens: 2145.7 M/P: 0.35

| 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 | 2044 | 0.0 | 490 | 7179 | 11.1 | 620 | 118034 | 1.5 | 750 | 8362 | 0.0 | 880 | 3128 | 0.0 |
| 365 | 2016 | 0.0 | 495 | 10476 | 16.9 | 625 | 111884 | 0.9 | 755 | 7635 | 0.0 | 885 | 3110 | 0.0 |
| 370 | 2020 | 0.0 | 500 | 15549 | 26.0 | 630 | 106119 | 0.6 | 760 | 6582 | 0.0 | 890 | 2632 | 0.0 |
| 375 | 2137 | 0.0 | 505 | 22477 | 38.2 | 635 | 99706 | 0.4 | 765 | 5777 | 0.0 | 895 | 2709 | 0.0 |
| 380 | 2046 | 0.0 | 510 | 30417 | 51.6 | 640 | 92142 | 0.2 | 770 | 5474 | 0.0 | 900 | 2016 | 0.0 |
| 385 | 1925 | 0.0 | 515 | 39274 | 65.1 | 645 | 84987 | 0.1 | 775 | 4977 | 0.0 | 905 | 1748 | 0.0 |
| 390 | 1893 | 0.0 | 520 | 47282 | 75.2 | 650 | 78016 | 0.1 | 780 | 4723 | 0.0 | 910 | 2046 | 0.0 |
| 395 | 1695 | 0.0 | 525 | 55413 | 82.9 | 655 | 71541 | 0.1 | 785 | 4219 | 0.0 | 915 | 1844 | 0.0 |
| 400 | 1633 | 0.0 | 530 | 62377 | 86.0 | 660 | 64863 | 0.0 | 790 | 3969 | 0.0 | 920 | 2734 | 0.0 |
| 405 | 2065 | 0.1 | 535 | 68520 | 85.4 | 665 | 58485 | 0.0 | 795 | 4122 | 0.0 | 925 | 2307 | 0.0 |
| 410 | 3449 | 0.2 | 540 | 73435 | 81.1 | 670 | 51641 | 0.0 | 800 | 2864 | 0.0 | 930 | 2039 | 0.0 |
| 415 | 7117 | 0.7 | 545 | 78677 | 75.4 | 675 | 46030 | 0.0 | 805 | 3151 | 0.0 | 935 | 1784 | 0.0 |
| 420 | 13992 | 2.3 | 550 | 83331 | 68.1 | 680 | 40590 | 0.0 | 810 | 3022 | 0.0 | 940 | 2464 | 0.0 |
| 425 | 25176 | 6.2 | 555 | 89120 | 60.9 | 685 | 35691 | 0.0 | 815 | 3471 | 0.0 | 945 | 2794 | 0.0 |
| 430 | 38151 | 13.0 | 560 | 94613 | 52.9 | 690 | 31631 | 0.0 | 820 | 2749 | 0.0 | 950 | 3090 | 0.0 |
| 435 | 49673 | 22.2 | 565 | 99818 | 44.8 | 695 | 27437 | 0.0 | 825 | 2729 | 0.0 | 955 | 1866 | 0.0 |
| 440 | 57273 | 32.0 | 570 | 106526 | 37.6 | 700 | 24589 | 0.0 | 830 | 2282 | 0.0 | 960 | 3110 | 0.0 |
| 445 | 54802 | 36.7 | 575 | 111610 | 30.4 | 705 | 21832 | 0.0 | 835 | 3140 | 0.0 | 965 | 3880 | 0.0 |
| 450 | 39184 | 30.4 | 580 | 117163 | 24.1 | 710 | 19500 | 0.0 | 840 | 2365 | 0.0 | 970 | 3243 | 0.0 |
| 455 | 22506 | 19.7 | 585 | 122201 | 18.7 | 715 | 17870 | 0.0 | 845 | 3024 | 0.0 | 975 | 2014 | 0.0 |
| 460 | 13692 | 13.2 | 590 | 125662 | 14.0 | 720 | 15924 | 0.0 | 850 | 2510 | 0.0 | 980 | 1688 | 0.0 |
| 465 | 9446 | 10.0 | 595 | 127415 | 10.2 | 725 | 14268 | 0.0 | 855 | 2739 | 0.0 | 985 | 2827 | 0.0 |
| 470 | 6698 | 7.7 | 600 | 129155 | 7.3 | 730 | 12438 | 0.0 | 860 | 3515 | 0.0 | 990 | 4172 | 0.0 |
| 475 | 5328 | 6.7 | 605 | 128057 | 5.0 | 735 | 11255 | 0.0 | 865 | 3600 | 0.0 | 995 | 3177 | 0.0 |
| 480 | 5081 | 6.9 | 610 | 126031 | 3.4 | 740 | 9951 | 0.0 | 870 | 3609 | 0.0 | 1000 | 3241 | 0.0 |
| 485 | 5579 | 8.1 | 615 | 123059 | 2.3 | 745 | 8870 | 0.0 | 875 | 3208 | 0.0 | | | |

REPORT NUMBER: SP1-1908-441-1-R4

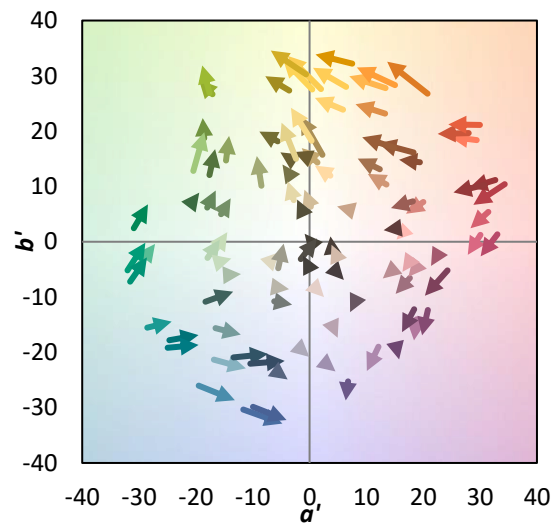
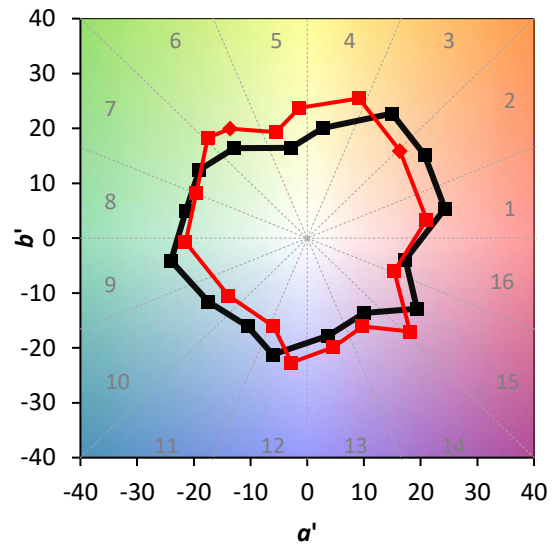
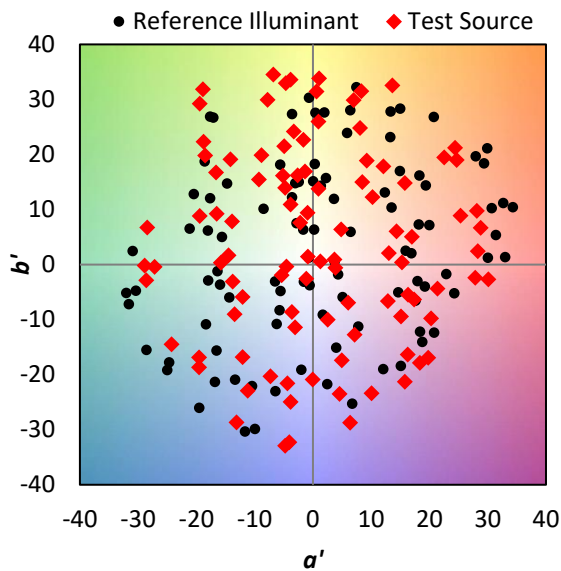
TM-30-18

Summary

$R_f = 69.9$
 $R_g = 98.3$
 CIE $R_a = 71.5$
 $R_g = -16.1$



Color Vector Graphics



REPORT NUMBER: SP1-1908-441-1-R4

TM-30-18

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

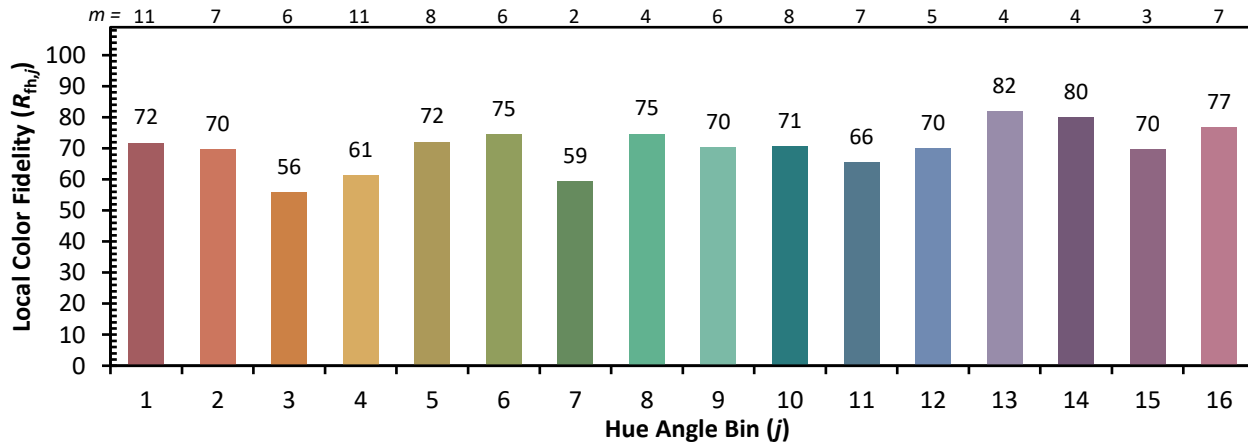
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|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 54 | CES51 = 77 | CES76 = 48 |
| CES02 = 63 | CES27 = 74 | CES52 = 80 | CES77 = 75 |
| CES03 = 31 | CES28 = 80 | CES53 = 66 | CES78 = 56 |
| CES04 = 71 | CES29 = 44 | CES54 = 77 | CES79 = 81 |
| CES05 = 50 | CES30 = 46 | CES55 = 74 | CES80 = 80 |
| CES06 = 52 | CES31 = 50 | CES56 = 63 | CES81 = 73 |
| CES07 = 42 | CES32 = 49 | CES57 = 60 | CES82 = 91 |
| CES08 = 41 | CES33 = 53 | CES58 = 63 | CES83 = 84 |
| CES09 = 29 | CES34 = 66 | CES59 = 85 | CES84 = 90 |
| CES10 = 77 | CES35 = 82 | CES60 = 89 | CES85 = 87 |
| CES11 = 60 | CES36 = 78 | CES61 = 85 | CES86 = 65 |
| CES12 = 66 | CES37 = 75 | CES62 = 69 | CES87 = 78 |
| CES13 = 43 | CES38 = 53 | CES63 = 68 | CES88 = 73 |
| CES14 = 74 | CES39 = 91 | CES64 = 68 | CES89 = 68 |
| CES15 = 71 | CES40 = 85 | CES65 = 65 | CES90 = 68 |
| CES16 = 48 | CES41 = 76 | CES66 = 62 | CES91 = 91 |
| CES17 = 50 | CES42 = 76 | CES67 = 60 | CES92 = 71 |
| CES18 = 57 | CES43 = 65 | CES68 = 68 | CES93 = 82 |
| CES19 = 73 | CES44 = 98 | CES69 = 77 | CES94 = 57 |
| CES20 = 67 | CES45 = 75 | CES70 = 60 | CES95 = 78 |
| CES21 = 88 | CES46 = 70 | CES71 = 57 | CES96 = 80 |
| CES22 = 80 | CES47 = 63 | CES72 = 86 | CES97 = 79 |
| CES23 = 92 | CES48 = 51 | CES73 = 52 | CES98 = 71 |
| CES24 = 91 | CES49 = 68 | CES74 = 90 | CES99 = 64 |
| CES25 = 73 | CES50 = 77 | CES75 = 58 | |



REPORT NUMBER: SP1-1908-441-1-R4

TM-30-18

Color Rendition by Hue-Angle Bin



REPORT NUMBER: SP1-1908-441-1-R4

TM-30-18

Measure Comparisons



(END OF REPORT)