

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: P320551

Luminaire Tested: **GLEON-SA7A-727-U-SLR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320551
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-SA7A-727-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 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: 24224 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

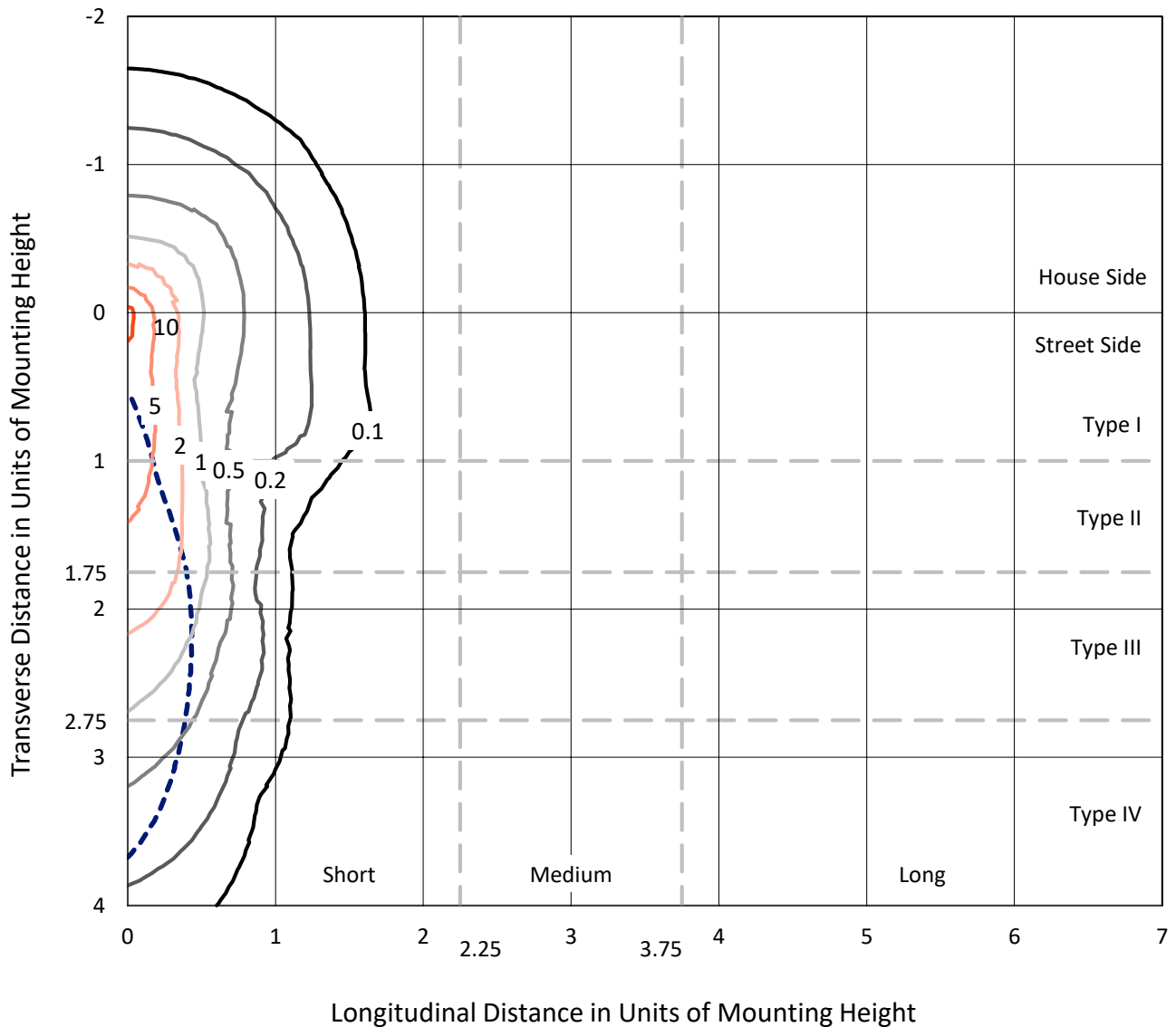
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P320551
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Iso-Footcandle Lines of Horizontal Illumination

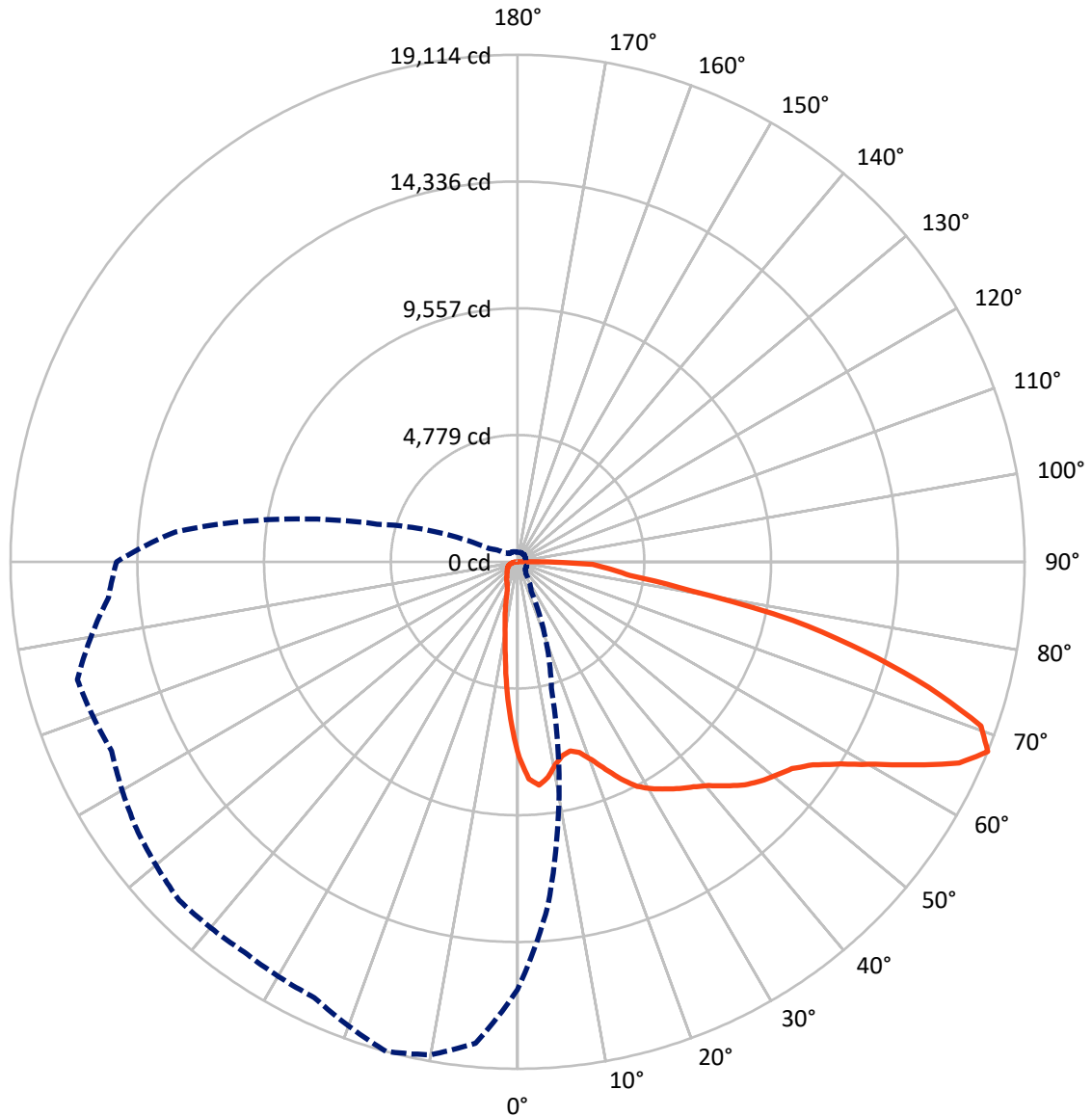
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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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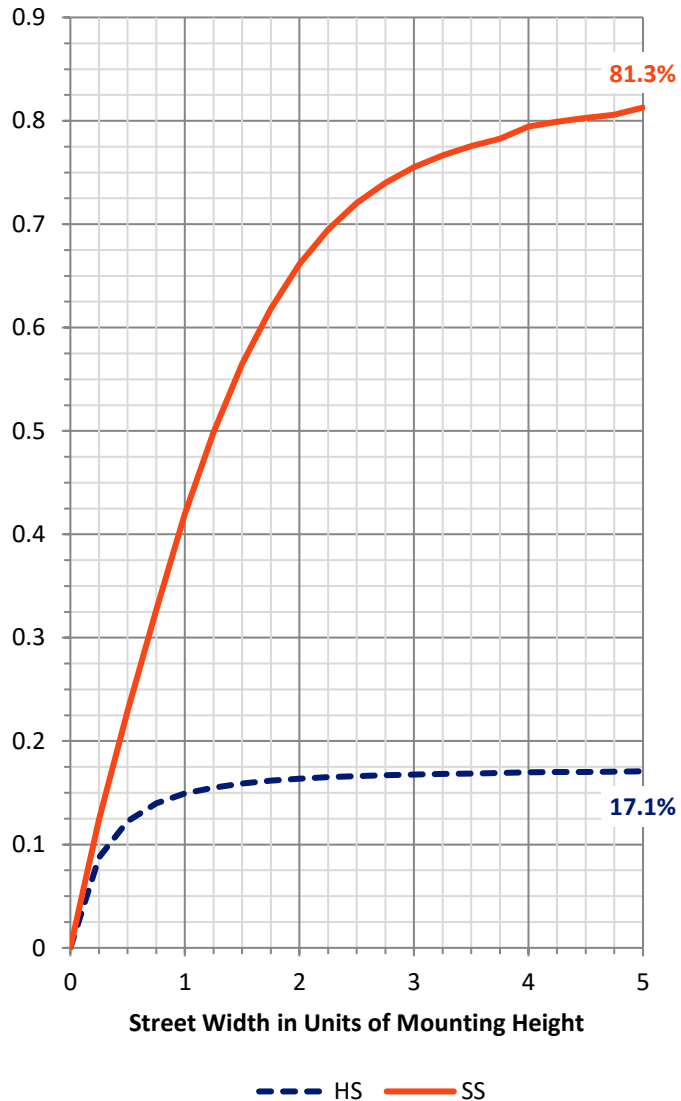
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4187.8 | 0.0 | 4187.8 |
| | % Fixture | 17.3 | 0.0 | 17.3 |
| Street Side | Lumens | 20036.2 | 0.0 | 20036.2 |
| | % Fixture | 82.7 | 0.0 | 82.7 |
| Total | Lumens | 24224.0 | 0.0 | 24224.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 569.6 | 2.4 |
| 10°-20° | 1183.2 | 4.9 |
| 20°-30° | 1682.8 | 6.9 |
| 30°-40° | 2424.9 | 10.0 |
| 40°-50° | 3417.4 | 14.1 |
| 50°-60° | 4750.8 | 19.6 |
| 60°-70° | 5745.1 | 23.7 |
| 70°-80° | 3531.4 | 14.6 |
| 80°-90° | 918.9 | 3.8 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 24224.0 | 100.0 |
| 0°-180° | 24224.0 | 100.0 |

Coefficient of Utilization

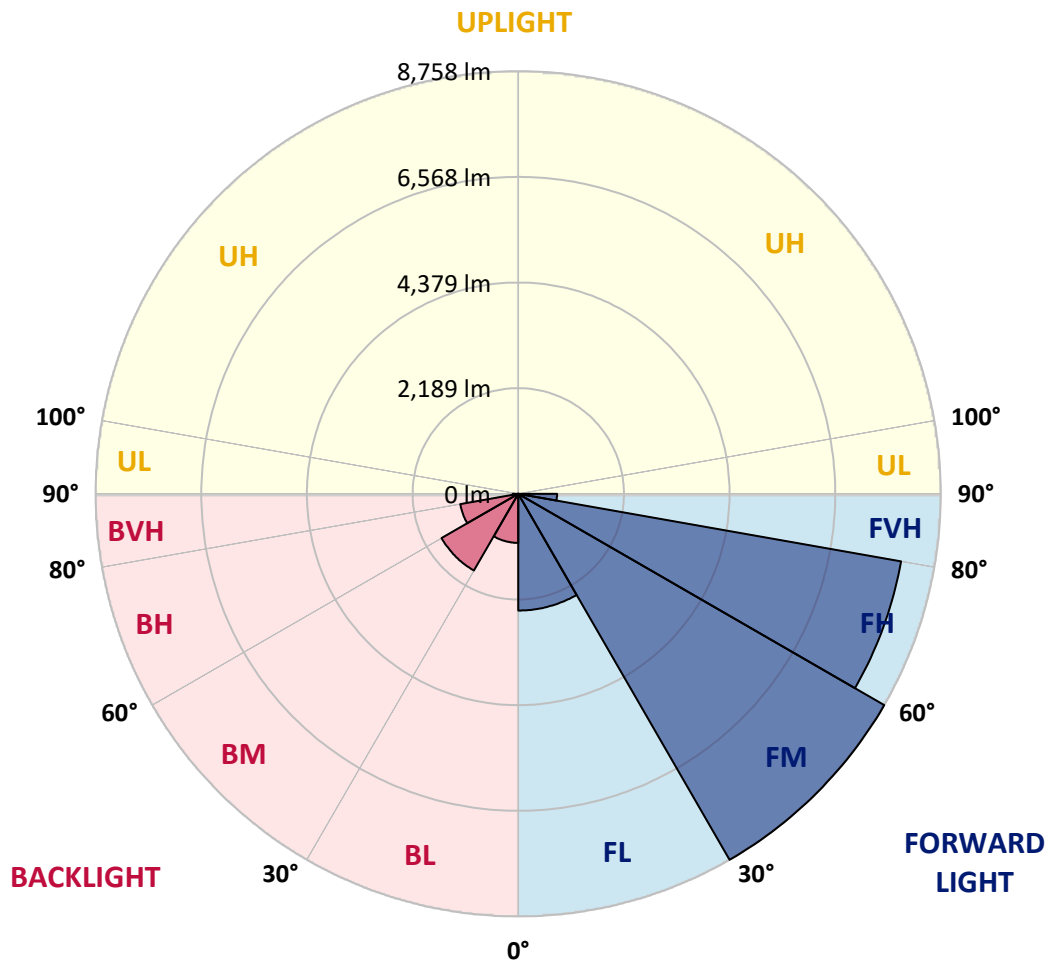


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2418.8 | 10.0 | | | |
| FM (30°-60°) | 8757.6 | 36.2 | | | |
| FH (60°-80°) | 8056.1 | 33.3 | | | G4/12000 |
| FVH (80°-90°) | 803.7 | 3.3 | | | G5 |
| BL (0°-30°) | 1016.8 | 4.2 | B3/2500 | | |
| BM (30°-60°) | 1835.5 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 1220.4 | 5.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 115.2 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 |
| 2.5° | 7905.9 | 7836.2 | 7730.6 | 7625.0 | 7546.6 | 7467.2 | 7377.1 | 7287.0 | 7184.4 | 7080.7 | 7019.7 |
| 5° | 7775.2 | 7581.5 | 7329.6 | 7077.8 | 6911.3 | 6744.7 | 6555.8 | 6367.0 | 6180.0 | 5993.1 | 5892.4 |
| 7.5° | 7186.3 | 6895.8 | 6568.4 | 6241.0 | 5998.9 | 5755.8 | 5494.3 | 5231.9 | 4999.4 | 4766.0 | 4621.7 |
| 10° | 6607.1 | 6258.5 | 5882.7 | 5506.0 | 5196.0 | 4886.1 | 4623.6 | 4360.2 | 4184.9 | 4009.6 | 3876.9 |
| 12.5° | 6191.7 | 5805.2 | 5391.7 | 4977.1 | 4667.2 | 4357.3 | 4190.7 | 4024.1 | 3878.9 | 3733.6 | 3580.6 |
| 15° | 6027.0 | 5590.2 | 5167.0 | 4742.8 | 4460.9 | 4179.1 | 3994.1 | 3808.2 | 3613.5 | 3417.9 | 3230.0 |
| 17.5° | 6172.3 | 5660.9 | 5200.9 | 4740.8 | 4371.8 | 4002.8 | 3744.2 | 3484.7 | 3228.0 | 2971.4 | 2753.5 |
| 20° | 6625.5 | 5972.8 | 5371.3 | 4768.9 | 4277.9 | 3786.9 | 3440.1 | 3092.4 | 2763.1 | 2433.9 | 2186.9 |
| 22.5° | 7261.9 | 6397.9 | 5612.5 | 4827.0 | 4192.7 | 3557.3 | 3122.5 | 2686.6 | 2297.3 | 1908.0 | 1665.8 |
| 25° | 8034.7 | 6961.6 | 5960.2 | 4957.8 | 4157.8 | 3356.8 | 2822.2 | 2287.6 | 1877.0 | 1465.3 | 1293.0 |
| 27.5° | 8849.2 | 7633.8 | 6392.1 | 5149.5 | 4163.6 | 3177.7 | 2569.4 | 1960.3 | 1590.3 | 1220.3 | 1102.2 |
| 30° | 9528.2 | 8401.8 | 6895.8 | 5388.8 | 4185.9 | 2983.0 | 2331.2 | 1679.4 | 1374.3 | 1069.2 | 992.7 |
| 32.5° | 10149.0 | 8937.4 | 7275.4 | 5612.5 | 4211.1 | 2808.7 | 2147.2 | 1484.7 | 1235.8 | 985.9 | 923.0 |
| 35° | 10790.1 | 9412.9 | 7540.8 | 5667.7 | 4167.5 | 2666.3 | 2021.3 | 1376.2 | 1146.7 | 916.2 | 862.9 |
| 37.5° | 11496.2 | 9927.2 | 7796.5 | 5664.8 | 4093.9 | 2523.0 | 1923.5 | 1323.0 | 1088.6 | 853.3 | 814.5 |
| 40° | 12283.6 | 10495.7 | 8073.5 | 5651.2 | 4027.0 | 2401.9 | 1850.8 | 1298.8 | 1056.6 | 813.5 | 780.6 |
| 42.5° | 13053.5 | 11038.1 | 8331.1 | 5624.1 | 3972.8 | 2320.5 | 1779.1 | 1237.7 | 1027.6 | 816.4 | 770.0 |
| 45° | 13631.7 | 11511.7 | 8554.8 | 5597.0 | 3932.1 | 2267.3 | 1723.0 | 1178.7 | 1000.5 | 822.3 | 763.2 |
| 47.5° | 14070.4 | 11987.2 | 8802.7 | 5617.3 | 3928.3 | 2239.2 | 1683.3 | 1127.3 | 949.1 | 770.0 | 745.7 |
| 50° | 14628.3 | 12558.6 | 9164.0 | 5769.4 | 3981.5 | 2193.7 | 1636.8 | 1078.9 | 899.7 | 720.6 | 753.5 |
| 52.5° | 15322.7 | 13374.1 | 9723.8 | 6072.5 | 4092.9 | 2113.3 | 1563.2 | 1013.1 | 839.7 | 665.4 | 716.7 |
| 55° | 16342.6 | 14419.1 | 10439.5 | 6459.0 | 4227.5 | 1995.1 | 1451.8 | 907.5 | 760.3 | 612.1 | 657.6 |
| 57.5° | 17257.8 | 15474.8 | 11126.2 | 6776.6 | 4311.8 | 1846.0 | 1311.4 | 776.7 | 671.2 | 565.6 | 591.8 |
| 60° | 17665.5 | 16019.1 | 11447.7 | 6875.4 | 4261.4 | 1647.4 | 1153.5 | 658.6 | 592.7 | 526.9 | 522.0 |
| 62.5° | 17506.7 | 15673.3 | 11131.0 | 6588.7 | 4015.4 | 1442.1 | 1014.0 | 585.9 | 536.6 | 486.2 | 475.5 |
| 65° | 17041.8 | 14586.7 | 10243.9 | 5901.1 | 3599.9 | 1298.8 | 925.9 | 553.0 | 497.8 | 442.6 | 431.0 |
| 67.5° | 16125.6 | 13040.0 | 8986.8 | 4933.6 | 3072.1 | 1210.6 | 875.5 | 540.4 | 473.6 | 405.8 | 392.2 |
| 70° | 14481.1 | 11178.5 | 7538.8 | 3898.2 | 2527.8 | 1156.4 | 842.6 | 528.8 | 447.4 | 365.1 | 352.5 |
| 72.5° | 11894.2 | 8962.5 | 6020.2 | 3076.9 | 2113.3 | 1149.6 | 838.7 | 527.8 | 426.1 | 324.4 | 312.8 |
| 75° | 8516.1 | 6807.6 | 4595.6 | 2382.5 | 1730.7 | 1078.9 | 796.1 | 513.3 | 397.1 | 279.9 | 269.2 |
| 77.5° | 5730.6 | 4711.8 | 3194.1 | 1675.5 | 1284.2 | 893.0 | 669.2 | 445.5 | 339.9 | 234.4 | 223.7 |
| 80° | 3680.3 | 3261.0 | 2140.4 | 1019.8 | 832.9 | 646.0 | 478.4 | 310.9 | 247.9 | 184.0 | 175.3 |
| 82.5° | 2700.2 | 2427.1 | 1487.6 | 548.2 | 462.9 | 376.7 | 292.5 | 208.2 | 169.5 | 130.7 | 126.9 |
| 85° | 1716.2 | 1892.5 | 1095.4 | 298.3 | 244.1 | 189.8 | 156.9 | 124.0 | 97.8 | 71.7 | 71.7 |
| 87.5° | 333.2 | 461.0 | 303.1 | 144.3 | 105.6 | 66.8 | 57.1 | 46.5 | 26.1 | 4.8 | 5.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 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° | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 |
| 2.5° | 6957.7 | 6890.9 | 6824.1 | 6748.5 | 6672.0 | 6601.3 | 6529.7 | 6451.2 | 6465.7 | 6405.7 | 6345.6 |
| 5° | 5791.7 | 5685.1 | 5577.6 | 5484.6 | 5391.7 | 5311.3 | 5229.9 | 5157.3 | 5220.2 | 5177.6 | 5135.0 |
| 7.5° | 4476.4 | 4344.7 | 4212.0 | 4100.7 | 3989.3 | 3903.1 | 3815.9 | 3755.9 | 3817.8 | 3810.1 | 3802.4 |
| 10° | 3744.2 | 3616.4 | 3487.6 | 3364.6 | 3241.6 | 3137.0 | 3031.4 | 2942.3 | 2926.8 | 2882.3 | 2836.8 |
| 12.5° | 3426.6 | 3251.3 | 3075.0 | 2946.2 | 2817.4 | 2692.4 | 2567.5 | 2462.9 | 2415.5 | 2341.8 | 2267.3 |
| 15° | 3042.1 | 2834.8 | 2627.6 | 2481.3 | 2334.1 | 2213.0 | 2091.0 | 2000.9 | 1970.9 | 1913.8 | 1856.6 |
| 17.5° | 2535.5 | 2308.9 | 2082.3 | 1934.1 | 1785.0 | 1688.1 | 1590.3 | 1530.2 | 1530.2 | 1513.8 | 1497.3 |
| 20° | 1939.9 | 1737.5 | 1535.1 | 1421.8 | 1308.5 | 1257.1 | 1204.8 | 1179.6 | 1187.4 | 1188.4 | 1188.4 |
| 22.5° | 1422.7 | 1298.8 | 1174.8 | 1129.3 | 1082.8 | 1064.4 | 1046.0 | 1035.3 | 1039.2 | 1040.2 | 1041.1 |
| 25° | 1120.6 | 1073.1 | 1024.7 | 1001.4 | 977.2 | 965.6 | 954.0 | 950.1 | 958.8 | 959.8 | 959.8 |
| 27.5° | 984.0 | 954.9 | 924.9 | 910.4 | 894.9 | 890.1 | 885.2 | 878.4 | 887.2 | 887.2 | 886.2 |
| 30° | 915.2 | 884.2 | 853.3 | 834.9 | 816.4 | 818.4 | 819.4 | 817.4 | 823.2 | 827.1 | 830.0 |
| 32.5° | 859.1 | 829.0 | 799.0 | 780.6 | 761.2 | 758.3 | 755.4 | 753.5 | 766.1 | 772.9 | 779.6 |
| 35° | 808.7 | 775.8 | 742.8 | 725.4 | 708.0 | 701.2 | 694.4 | 689.6 | 701.2 | 709.9 | 718.6 |
| 37.5° | 774.8 | 740.9 | 706.0 | 689.6 | 672.1 | 663.4 | 654.7 | 648.9 | 653.7 | 657.6 | 661.5 |
| 40° | 747.7 | 712.8 | 677.0 | 657.6 | 638.2 | 629.5 | 620.8 | 616.0 | 618.9 | 619.8 | 620.8 |
| 42.5° | 722.5 | 688.6 | 654.7 | 633.4 | 611.1 | 600.5 | 589.8 | 584.0 | 585.9 | 587.9 | 588.9 |
| 45° | 704.1 | 670.2 | 635.3 | 610.2 | 584.0 | 572.4 | 560.8 | 554.0 | 555.0 | 555.0 | 555.0 |
| 47.5° | 721.5 | 672.1 | 621.8 | 592.7 | 562.7 | 549.1 | 535.6 | 528.8 | 526.9 | 524.9 | 523.0 |
| 50° | 785.5 | 701.2 | 616.0 | 579.2 | 541.4 | 526.9 | 511.4 | 503.6 | 498.8 | 496.8 | 494.9 |
| 52.5° | 767.1 | 694.4 | 620.8 | 573.4 | 524.9 | 507.5 | 490.1 | 477.5 | 472.6 | 469.7 | 466.8 |
| 55° | 702.2 | 656.6 | 610.2 | 553.0 | 495.9 | 480.4 | 463.9 | 455.2 | 446.5 | 444.5 | 442.6 |
| 57.5° | 616.9 | 598.5 | 580.1 | 522.0 | 463.9 | 449.4 | 433.9 | 428.1 | 420.3 | 420.3 | 419.4 |
| 60° | 516.2 | 543.3 | 570.4 | 503.6 | 435.8 | 419.4 | 402.9 | 398.1 | 395.2 | 394.2 | 393.2 |
| 62.5° | 463.9 | 508.5 | 552.0 | 481.3 | 409.7 | 392.2 | 374.8 | 369.0 | 368.0 | 369.0 | 369.0 |
| 65° | 419.4 | 432.9 | 446.5 | 413.6 | 380.6 | 363.2 | 344.8 | 339.0 | 340.9 | 343.8 | 346.7 |
| 67.5° | 378.7 | 375.8 | 372.9 | 361.3 | 348.7 | 334.1 | 318.6 | 312.8 | 313.8 | 317.7 | 321.5 |
| 70° | 339.9 | 336.1 | 331.2 | 322.5 | 313.8 | 301.2 | 288.6 | 284.7 | 283.8 | 288.6 | 292.5 |
| 72.5° | 301.2 | 296.4 | 290.6 | 283.8 | 276.0 | 265.4 | 254.7 | 251.8 | 252.8 | 255.7 | 258.6 |
| 75° | 258.6 | 254.7 | 249.9 | 244.1 | 237.3 | 227.6 | 217.9 | 216.0 | 217.9 | 220.8 | 223.7 |
| 77.5° | 212.1 | 211.1 | 209.2 | 204.4 | 199.5 | 188.9 | 177.2 | 176.3 | 179.2 | 182.1 | 184.0 |
| 80° | 165.6 | 166.6 | 167.6 | 163.7 | 159.8 | 148.2 | 135.6 | 134.6 | 137.5 | 140.4 | 143.3 |
| 82.5° | 122.0 | 124.9 | 126.9 | 122.0 | 117.2 | 103.6 | 90.1 | 88.1 | 97.8 | 100.7 | 103.6 |
| 85° | 70.7 | 74.6 | 78.4 | 74.6 | 70.7 | 57.1 | 43.6 | 42.6 | 51.3 | 56.2 | 61.0 |
| 87.5° | 5.8 | 7.7 | 9.7 | 8.7 | 7.7 | 3.9 | 0.0 | 0.0 | 1.0 | 4.8 | 8.7 |
| 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: P320551
 CATALOG NUMBER: GLEON-SA7A-727-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: P320551
 CATALOG NUMBER: GLEON-SA7A-727-U-SLR

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 |
| 2.5° | 6307.9 | 6270.1 | 6258.5 | 6246.9 | 6204.2 | 6160.7 | 6205.2 | 6248.8 | 6267.2 | 6285.6 | 6238.1 |
| 5° | 5129.2 | 5122.4 | 5122.4 | 5121.5 | 5082.7 | 5043.0 | 5073.0 | 5102.1 | 5037.2 | 4972.3 | 4965.5 |
| 7.5° | 3844.0 | 3885.6 | 3919.5 | 3952.5 | 3939.9 | 3927.3 | 3955.4 | 3983.5 | 3901.1 | 3817.8 | 3777.2 |
| 10° | 2846.4 | 2855.2 | 2892.0 | 2928.8 | 2937.5 | 2945.2 | 2980.1 | 3014.0 | 2950.1 | 2886.1 | 2858.1 |
| 12.5° | 2220.8 | 2174.3 | 2179.1 | 2183.0 | 2200.4 | 2216.9 | 2253.7 | 2289.5 | 2263.4 | 2236.3 | 2239.2 |
| 15° | 1798.5 | 1739.4 | 1715.2 | 1690.0 | 1709.4 | 1728.8 | 1754.9 | 1780.1 | 1781.1 | 1781.1 | 1806.3 |
| 17.5° | 1468.3 | 1438.2 | 1414.0 | 1388.8 | 1415.0 | 1440.2 | 1443.1 | 1446.0 | 1446.9 | 1447.9 | 1446.0 |
| 20° | 1202.9 | 1217.4 | 1209.7 | 1201.9 | 1211.6 | 1220.3 | 1228.1 | 1234.8 | 1226.1 | 1216.4 | 1192.2 |
| 22.5° | 1054.7 | 1067.3 | 1077.0 | 1085.7 | 1102.2 | 1117.7 | 1109.9 | 1101.2 | 1083.8 | 1065.4 | 1047.0 |
| 25° | 968.5 | 977.2 | 986.9 | 996.6 | 1010.2 | 1022.7 | 1009.2 | 995.6 | 983.0 | 970.4 | 957.9 |
| 27.5° | 895.9 | 904.6 | 913.3 | 921.0 | 933.6 | 945.3 | 932.7 | 920.1 | 909.4 | 898.8 | 889.1 |
| 30° | 836.8 | 842.6 | 849.4 | 856.2 | 867.8 | 878.4 | 867.8 | 856.2 | 848.4 | 839.7 | 832.9 |
| 32.5° | 786.4 | 792.2 | 795.1 | 798.0 | 808.7 | 819.4 | 811.6 | 803.9 | 797.1 | 790.3 | 785.5 |
| 35° | 731.2 | 742.8 | 744.8 | 746.7 | 757.4 | 768.0 | 763.2 | 757.4 | 749.6 | 741.9 | 733.2 |
| 37.5° | 675.0 | 688.6 | 696.4 | 703.1 | 713.8 | 724.4 | 719.6 | 714.8 | 704.1 | 693.4 | 678.0 |
| 40° | 627.6 | 633.4 | 647.9 | 661.5 | 678.9 | 695.4 | 685.7 | 675.0 | 658.6 | 642.1 | 634.4 |
| 42.5° | 587.9 | 586.9 | 600.5 | 614.0 | 640.2 | 665.4 | 647.9 | 630.5 | 615.0 | 599.5 | 597.6 |
| 45° | 553.0 | 550.1 | 556.9 | 563.7 | 591.8 | 618.9 | 601.4 | 583.0 | 574.3 | 565.6 | 565.6 |
| 47.5° | 522.0 | 520.1 | 524.9 | 528.8 | 546.2 | 562.7 | 554.0 | 545.3 | 540.4 | 535.6 | 536.6 |
| 50° | 493.9 | 492.0 | 496.8 | 500.7 | 507.5 | 513.3 | 515.2 | 516.2 | 513.3 | 510.4 | 512.3 |
| 52.5° | 467.8 | 467.8 | 469.7 | 470.7 | 479.4 | 488.1 | 488.1 | 487.2 | 487.2 | 487.2 | 489.1 |
| 55° | 445.5 | 447.4 | 447.4 | 447.4 | 461.0 | 473.6 | 469.7 | 465.9 | 466.8 | 466.8 | 468.8 |
| 57.5° | 423.2 | 426.1 | 428.1 | 430.0 | 443.6 | 457.1 | 453.3 | 449.4 | 449.4 | 449.4 | 450.4 |
| 60° | 398.1 | 401.9 | 405.8 | 409.7 | 423.2 | 436.8 | 432.9 | 428.1 | 429.0 | 430.0 | 431.0 |
| 62.5° | 373.8 | 377.7 | 381.6 | 385.5 | 399.0 | 412.6 | 408.7 | 403.9 | 406.8 | 408.7 | 408.7 |
| 65° | 350.6 | 353.5 | 357.4 | 361.3 | 373.8 | 386.4 | 382.6 | 378.7 | 382.6 | 385.5 | 387.4 |
| 67.5° | 324.4 | 326.4 | 330.3 | 334.1 | 346.7 | 359.3 | 355.4 | 350.6 | 355.4 | 359.3 | 363.2 |
| 70° | 294.4 | 296.4 | 301.2 | 305.1 | 317.7 | 330.3 | 325.4 | 320.6 | 325.4 | 330.3 | 334.1 |
| 72.5° | 261.5 | 263.4 | 268.3 | 272.1 | 286.7 | 301.2 | 295.4 | 289.6 | 295.4 | 301.2 | 303.1 |
| 75° | 225.7 | 227.6 | 233.4 | 238.3 | 252.8 | 267.3 | 262.5 | 256.7 | 261.5 | 266.3 | 267.3 |
| 77.5° | 186.9 | 189.8 | 197.6 | 205.3 | 216.9 | 228.6 | 225.7 | 222.8 | 225.7 | 228.6 | 228.6 |
| 80° | 146.2 | 149.1 | 158.8 | 167.6 | 174.3 | 181.1 | 182.1 | 183.0 | 184.0 | 185.0 | 184.0 |
| 82.5° | 108.5 | 112.3 | 121.1 | 129.8 | 129.8 | 129.8 | 137.5 | 144.3 | 144.3 | 143.3 | 142.4 |
| 85° | 66.8 | 71.7 | 79.4 | 87.2 | 82.3 | 77.5 | 90.1 | 101.7 | 101.7 | 100.7 | 98.8 |
| 87.5° | 13.6 | 18.4 | 26.1 | 32.9 | 28.1 | 23.2 | 35.8 | 48.4 | 49.4 | 49.4 | 47.5 |
| 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 |



REPORT NUMBER: P320551
 CATALOG NUMBER: GLEON-SA7A-727-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: P320551
 CATALOG NUMBER: GLEON-SA7A-727-U-SLR

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 |
| 2.5° | 6189.7 | 6265.3 | 6339.8 | 6359.2 | 6388.3 | 6400.9 | 6412.5 | 6507.4 | 6601.3 | 6711.7 | 6822.2 |
| 5° | 4957.8 | 5014.0 | 5070.1 | 5078.8 | 5108.9 | 5124.4 | 5139.9 | 5255.1 | 5369.4 | 5523.4 | 5677.4 |
| 7.5° | 3736.5 | 3750.1 | 3763.6 | 3761.7 | 3786.9 | 3820.8 | 3853.7 | 3976.7 | 4098.7 | 4264.3 | 4429.0 |
| 10° | 2830.0 | 2861.0 | 2891.0 | 2919.1 | 2974.3 | 3038.2 | 3101.2 | 3227.1 | 3353.0 | 3516.6 | 3679.4 |
| 12.5° | 2242.1 | 2277.9 | 2312.8 | 2343.8 | 2407.7 | 2492.9 | 2577.2 | 2728.3 | 2879.4 | 3075.0 | 3269.7 |
| 15° | 1830.5 | 1827.6 | 1824.7 | 1846.0 | 1902.1 | 1995.1 | 2087.1 | 2246.9 | 2406.7 | 2621.7 | 2835.8 |
| 17.5° | 1444.0 | 1429.5 | 1415.0 | 1431.5 | 1483.7 | 1560.3 | 1635.8 | 1771.4 | 1906.0 | 2114.2 | 2322.5 |
| 20° | 1168.0 | 1158.3 | 1148.6 | 1164.1 | 1197.1 | 1229.0 | 1261.0 | 1358.8 | 1455.7 | 1625.2 | 1793.7 |
| 22.5° | 1027.6 | 1026.6 | 1024.7 | 1033.4 | 1048.9 | 1065.4 | 1080.9 | 1128.3 | 1174.8 | 1284.2 | 1392.7 |
| 25° | 945.3 | 944.3 | 943.3 | 947.2 | 959.8 | 972.4 | 985.0 | 1016.0 | 1047.0 | 1099.3 | 1151.6 |
| 27.5° | 879.4 | 877.5 | 875.5 | 876.5 | 879.4 | 898.8 | 917.2 | 931.7 | 945.3 | 981.1 | 1016.0 |
| 30° | 826.1 | 825.2 | 824.2 | 824.2 | 821.3 | 828.1 | 834.9 | 857.1 | 878.4 | 915.2 | 952.0 |
| 32.5° | 780.6 | 775.8 | 770.9 | 760.3 | 753.5 | 763.2 | 772.9 | 796.1 | 819.4 | 853.3 | 887.2 |
| 35° | 723.5 | 710.9 | 697.3 | 691.5 | 692.5 | 702.2 | 711.9 | 735.1 | 757.4 | 794.2 | 830.0 |
| 37.5° | 661.5 | 657.6 | 652.8 | 651.8 | 654.7 | 664.4 | 674.1 | 694.4 | 713.8 | 750.6 | 786.4 |
| 40° | 626.6 | 624.7 | 622.7 | 620.8 | 622.7 | 632.4 | 642.1 | 661.5 | 679.9 | 715.7 | 750.6 |
| 42.5° | 595.6 | 594.7 | 593.7 | 593.7 | 594.7 | 605.3 | 616.0 | 635.3 | 653.7 | 685.7 | 717.7 |
| 45° | 565.6 | 566.6 | 566.6 | 568.5 | 571.4 | 582.1 | 591.8 | 613.1 | 634.4 | 665.4 | 696.4 |
| 47.5° | 537.5 | 540.4 | 542.4 | 547.2 | 550.1 | 561.7 | 572.4 | 595.6 | 618.9 | 657.6 | 695.4 |
| 50° | 513.3 | 516.2 | 518.2 | 522.0 | 529.8 | 543.3 | 556.9 | 585.0 | 612.1 | 677.0 | 740.9 |
| 52.5° | 491.0 | 493.9 | 496.8 | 500.7 | 510.4 | 525.9 | 541.4 | 576.3 | 610.2 | 685.7 | 761.2 |
| 55° | 470.7 | 473.6 | 475.5 | 481.3 | 491.0 | 504.6 | 517.2 | 559.8 | 602.4 | 657.6 | 712.8 |
| 57.5° | 451.3 | 454.2 | 456.2 | 460.0 | 464.9 | 479.4 | 493.0 | 538.5 | 584.0 | 622.7 | 660.5 |
| 60° | 431.0 | 432.9 | 433.9 | 433.9 | 437.8 | 454.2 | 470.7 | 528.8 | 585.9 | 579.2 | 571.4 |
| 62.5° | 408.7 | 410.6 | 411.6 | 408.7 | 413.6 | 431.0 | 448.4 | 524.0 | 599.5 | 553.0 | 506.5 |
| 65° | 388.4 | 387.4 | 386.4 | 383.5 | 389.3 | 406.8 | 423.2 | 461.0 | 498.8 | 480.4 | 462.0 |
| 67.5° | 366.1 | 363.2 | 360.3 | 356.4 | 362.2 | 377.7 | 392.2 | 404.8 | 417.4 | 419.4 | 421.3 |
| 70° | 338.0 | 334.1 | 330.3 | 329.3 | 332.2 | 344.8 | 357.4 | 366.1 | 373.8 | 377.7 | 380.6 |
| 72.5° | 305.1 | 302.2 | 299.3 | 297.3 | 298.3 | 309.0 | 318.6 | 326.4 | 334.1 | 337.0 | 339.0 |
| 75° | 268.3 | 268.3 | 267.3 | 261.5 | 261.5 | 270.2 | 278.0 | 284.7 | 291.5 | 295.4 | 299.3 |
| 77.5° | 228.6 | 229.5 | 229.5 | 221.8 | 220.8 | 229.5 | 237.3 | 243.1 | 247.9 | 251.8 | 254.7 |
| 80° | 183.0 | 181.1 | 179.2 | 174.3 | 172.4 | 183.0 | 192.7 | 197.6 | 201.4 | 202.4 | 202.4 |
| 82.5° | 140.4 | 136.6 | 131.7 | 121.1 | 122.0 | 133.7 | 144.3 | 148.2 | 152.1 | 152.1 | 152.1 |
| 85° | 95.9 | 88.1 | 79.4 | 70.7 | 71.7 | 84.3 | 95.9 | 99.8 | 103.6 | 105.6 | 106.5 |
| 87.5° | 45.5 | 37.8 | 29.1 | 22.3 | 22.3 | 32.9 | 42.6 | 44.6 | 46.5 | 50.4 | 54.2 |
| 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: P320551
 CATALOG NUMBER: GLEON-SA7A-727-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: P320551
 CATALOG NUMBER: GLEON-SA7A-727-U-SLR

CANDELA DISTRIBUTION (continued):

| | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 |
| 2.5° | 6906.4 | 6989.7 | 7075.9 | 7162.1 | 7260.9 | 7359.7 | 7474.9 | 7589.2 | 7687.0 | 7784.8 | 7866.2 |
| 5° | 5810.1 | 5942.7 | 6098.7 | 6254.6 | 6453.1 | 6651.7 | 6894.8 | 7136.9 | 7352.9 | 7568.9 | 7819.7 |
| 7.5° | 4602.3 | 4774.7 | 4978.1 | 5181.5 | 5438.2 | 5694.8 | 6009.6 | 6324.3 | 6629.4 | 6933.5 | 7319.0 |
| 10° | 3860.5 | 4041.6 | 4242.1 | 4441.6 | 4703.1 | 4963.6 | 5296.8 | 5629.0 | 5971.8 | 6313.7 | 6749.5 |
| 12.5° | 3471.1 | 3671.6 | 3847.9 | 4024.1 | 4236.2 | 4447.4 | 4769.9 | 5092.4 | 5495.3 | 5897.2 | 6316.6 |
| 15° | 3055.6 | 3274.5 | 3485.7 | 3696.8 | 3928.3 | 4158.8 | 4472.6 | 4786.4 | 5227.0 | 5667.7 | 6150.0 |
| 17.5° | 2553.0 | 2783.5 | 3041.1 | 3297.8 | 3599.9 | 3901.1 | 4303.1 | 4705.0 | 5227.0 | 5748.1 | 6316.6 |
| 20° | 2029.0 | 2264.4 | 2572.3 | 2880.3 | 3256.1 | 3630.9 | 4152.0 | 4673.0 | 5376.2 | 6078.3 | 6803.7 |
| 22.5° | 1600.9 | 1808.2 | 2144.3 | 2479.4 | 2913.3 | 3347.2 | 4015.4 | 4682.7 | 5601.8 | 6520.0 | 7499.1 |
| 25° | 1297.8 | 1444.0 | 1774.3 | 2103.6 | 2604.3 | 3105.0 | 3932.1 | 4758.3 | 5930.2 | 7101.1 | 8315.6 |
| 27.5° | 1111.8 | 1207.7 | 1515.7 | 1822.7 | 2369.9 | 2916.2 | 3898.2 | 4879.3 | 6346.6 | 7813.9 | 9203.7 |
| 30° | 1018.9 | 1085.7 | 1346.2 | 1605.8 | 2161.7 | 2717.6 | 3857.6 | 4997.5 | 6747.6 | 8496.7 | 9898.1 |
| 32.5° | 941.4 | 994.7 | 1217.4 | 1439.2 | 1981.6 | 2523.9 | 3779.1 | 5033.3 | 7027.5 | 9021.6 | 10486.0 |
| 35° | 875.5 | 920.1 | 1113.8 | 1307.5 | 1840.2 | 2372.8 | 3647.4 | 4921.9 | 7202.8 | 9483.6 | 11098.1 |
| 37.5° | 822.3 | 857.1 | 1036.3 | 1215.5 | 1718.1 | 2220.8 | 3497.3 | 4773.8 | 7358.7 | 9943.6 | 11786.7 |
| 40° | 780.6 | 810.6 | 978.2 | 1145.7 | 1601.9 | 2058.1 | 3368.5 | 4677.9 | 7573.7 | 10469.5 | 12514.1 |
| 42.5° | 757.4 | 796.1 | 927.8 | 1058.6 | 1491.5 | 1924.4 | 3264.8 | 4605.2 | 7773.2 | 10940.2 | 13150.4 |
| 45° | 751.6 | 806.8 | 901.7 | 996.6 | 1409.2 | 1821.8 | 3172.8 | 4522.9 | 7902.0 | 11281.1 | 13629.8 |
| 47.5° | 741.9 | 787.4 | 881.3 | 975.3 | 1368.5 | 1760.7 | 3123.4 | 4485.1 | 8030.8 | 11575.6 | 14027.8 |
| 50° | 747.7 | 753.5 | 864.9 | 975.3 | 1362.7 | 1750.1 | 3179.6 | 4609.1 | 8309.8 | 12009.5 | 14483.0 |
| 52.5° | 737.0 | 711.9 | 833.9 | 955.9 | 1361.7 | 1767.5 | 3341.3 | 4915.2 | 8827.9 | 12739.7 | 14976.0 |
| 55° | 680.9 | 647.9 | 775.8 | 903.6 | 1341.4 | 1778.2 | 3534.1 | 5289.0 | 9523.3 | 13756.6 | 15862.2 |
| 57.5° | 631.5 | 601.4 | 709.9 | 817.4 | 1279.4 | 1741.4 | 3732.6 | 5722.9 | 10258.4 | 14792.9 | 16860.7 |
| 60° | 565.6 | 558.8 | 636.3 | 713.8 | 1183.5 | 1652.3 | 3896.3 | 6139.4 | 10752.3 | 15364.4 | 17245.2 |
| 62.5° | 511.4 | 515.2 | 572.4 | 629.5 | 1063.4 | 1496.3 | 3950.5 | 6403.8 | 10738.8 | 15073.8 | 16857.8 |
| 65° | 469.7 | 476.5 | 532.7 | 588.9 | 960.8 | 1332.7 | 3772.3 | 6211.0 | 10195.5 | 14178.9 | 16091.7 |
| 67.5° | 429.0 | 436.8 | 503.6 | 569.5 | 869.7 | 1169.0 | 3326.8 | 5483.7 | 9218.2 | 12951.8 | 15117.4 |
| 70° | 390.3 | 400.0 | 472.6 | 545.3 | 803.9 | 1061.5 | 2752.5 | 4443.5 | 7995.0 | 11545.6 | 13989.1 |
| 72.5° | 348.7 | 358.3 | 435.8 | 513.3 | 762.2 | 1010.2 | 2244.0 | 3476.9 | 6488.0 | 9498.1 | 11965.9 |
| 75° | 306.0 | 312.8 | 397.1 | 480.4 | 705.1 | 929.8 | 1760.7 | 2590.8 | 4965.5 | 7340.3 | 9038.1 |
| 77.5° | 263.4 | 272.1 | 342.9 | 412.6 | 598.5 | 783.5 | 1326.9 | 1870.2 | 3643.5 | 5415.9 | 6285.6 |
| 80° | 210.2 | 217.9 | 268.3 | 317.7 | 462.0 | 605.3 | 912.3 | 1219.3 | 2507.5 | 3795.6 | 4285.6 |
| 82.5° | 160.8 | 169.5 | 203.4 | 236.3 | 329.3 | 422.3 | 553.0 | 683.8 | 1665.8 | 2646.9 | 2687.6 |
| 85° | 110.4 | 113.3 | 137.5 | 160.8 | 203.4 | 246.0 | 316.7 | 387.4 | 1102.2 | 1816.9 | 1513.8 |
| 87.5° | 55.2 | 55.2 | 71.7 | 88.1 | 109.4 | 130.7 | 167.6 | 203.4 | 352.5 | 501.7 | 288.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P320551
 CATALOG NUMBER: GLEON-SA7A-727-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: P320551
 CATALOG NUMBER: GLEON-SA7A-727-U-SLR

CANDELA DISTRIBUTION (continued):

| | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 |
| 2.5° | 7969.8 | 8040.5 | 8112.2 | 8166.4 | 8221.6 | 8301.1 | 8380.5 | 8395.0 | 8410.5 | 8379.5 | 8348.5 |
| 5° | 8072.5 | 8286.5 | 8501.5 | 8700.1 | 8898.6 | 9017.8 | 9136.9 | 9161.1 | 9185.3 | 9110.7 | 9035.2 |
| 7.5° | 7691.9 | 8064.7 | 8437.6 | 8779.5 | 9121.4 | 9328.6 | 9536.9 | 9583.4 | 9630.8 | 9508.8 | 9386.8 |
| 10° | 7183.4 | 7641.5 | 8099.6 | 8550.0 | 9000.3 | 9301.5 | 9602.7 | 9662.8 | 9722.8 | 9570.8 | 9418.7 |
| 12.5° | 6790.2 | 7279.3 | 7768.4 | 8242.9 | 8718.5 | 9030.3 | 9342.2 | 9416.8 | 9491.4 | 9380.9 | 9269.6 |
| 15° | 6669.1 | 7129.2 | 7589.2 | 8002.8 | 8417.3 | 8672.0 | 8927.7 | 8957.7 | 8988.7 | 8971.3 | 8953.8 |
| 17.5° | 6889.0 | 7304.5 | 7720.9 | 7945.6 | 8171.3 | 8273.0 | 8375.6 | 8408.6 | 8442.5 | 8486.0 | 8530.6 |
| 20° | 7421.7 | 7714.1 | 8007.6 | 7997.9 | 7987.3 | 7937.9 | 7887.5 | 7878.8 | 7870.1 | 7995.0 | 8120.9 |
| 22.5° | 8216.8 | 8333.0 | 8450.2 | 8178.1 | 7905.9 | 7740.3 | 7573.7 | 7540.8 | 7506.9 | 7639.6 | 7773.2 |
| 25° | 9079.7 | 9058.4 | 9036.2 | 8518.0 | 7998.9 | 7683.2 | 7367.4 | 7330.6 | 7293.8 | 7407.1 | 7521.4 |
| 27.5° | 9934.0 | 9794.5 | 9655.0 | 8950.9 | 8246.8 | 7788.7 | 7330.6 | 7293.8 | 7257.0 | 7357.7 | 7458.5 |
| 30° | 10560.6 | 10336.9 | 10113.1 | 9316.1 | 8519.0 | 7974.7 | 7430.4 | 7370.3 | 7309.3 | 7433.3 | 7557.2 |
| 32.5° | 11049.7 | 10749.4 | 10449.2 | 9612.4 | 8775.6 | 8186.8 | 7597.9 | 7504.0 | 7410.0 | 7575.6 | 7741.3 |
| 35° | 11537.8 | 11115.5 | 10692.3 | 9876.8 | 9060.4 | 8437.6 | 7813.9 | 7698.6 | 7583.4 | 7811.0 | 8038.6 |
| 37.5° | 12151.8 | 11545.6 | 10938.3 | 10174.1 | 9410.0 | 8813.4 | 8215.8 | 8097.7 | 7979.5 | 8269.1 | 8559.6 |
| 40° | 12818.2 | 12009.5 | 11200.8 | 10499.6 | 9798.4 | 9333.5 | 8867.6 | 8755.3 | 8642.0 | 8994.5 | 9347.0 |
| 42.5° | 13372.2 | 12441.4 | 11510.7 | 10891.8 | 10272.0 | 9944.6 | 9616.3 | 9615.3 | 9613.4 | 9970.8 | 10328.1 |
| 45° | 13822.5 | 12801.7 | 11779.9 | 11274.4 | 10767.8 | 10597.4 | 10426.9 | 10563.5 | 10700.0 | 11022.6 | 11346.0 |
| 47.5° | 14158.6 | 13103.9 | 12048.2 | 11712.1 | 11376.1 | 11401.2 | 11426.4 | 11704.4 | 11982.3 | 12189.6 | 12397.8 |
| 50° | 14377.5 | 13378.0 | 12377.5 | 12273.9 | 12170.2 | 12395.9 | 12622.5 | 12941.2 | 13260.8 | 13402.2 | 13543.6 |
| 52.5° | 14696.1 | 13749.9 | 12802.7 | 12918.9 | 13035.1 | 13496.1 | 13957.1 | 14279.6 | 14602.2 | 14654.5 | 14707.7 |
| 55° | 15433.1 | 14433.6 | 13433.2 | 13655.9 | 13879.6 | 14555.7 | 15232.6 | 15484.5 | 15736.3 | 15755.6 | 15775.0 |
| 57.5° | 16480.1 | 15391.5 | 14302.9 | 14543.1 | 14783.3 | 15563.9 | 16345.5 | 16616.6 | 16888.8 | 16851.0 | 16812.3 |
| 60° | 17263.6 | 16300.9 | 15337.2 | 15579.4 | 15821.5 | 16582.7 | 17344.0 | 17655.8 | 17968.7 | 17885.4 | 17802.1 |
| 62.5° | 17312.0 | 16797.8 | 16282.5 | 16501.4 | 16721.2 | 17467.0 | 18212.7 | 18533.3 | 18853.9 | 18708.6 | 18563.3 |
| 65° | 16542.1 | 16772.6 | 17003.1 | 17075.7 | 17148.4 | 17843.7 | 18540.1 | 18785.1 | 19031.1 | 18957.5 | 18883.9 |
| 67.5° | 15481.6 | 16330.9 | 17181.3 | 17035.0 | 16888.8 | 17215.2 | 17541.6 | 17794.3 | 18047.1 | 18005.5 | 17962.9 |
| 70° | 14423.0 | 15557.1 | 16691.2 | 15972.6 | 15253.0 | 15118.4 | 14983.7 | 15255.9 | 15529.0 | 15360.5 | 15191.0 |
| 72.5° | 12620.6 | 13829.3 | 15038.9 | 13715.0 | 12391.1 | 11931.0 | 11471.0 | 11816.7 | 12162.5 | 11894.2 | 11625.0 |
| 75° | 9906.8 | 11242.4 | 12578.9 | 10999.3 | 9419.7 | 8805.6 | 8191.6 | 8488.9 | 8786.3 | 8602.3 | 8417.3 |
| 77.5° | 7375.2 | 8691.4 | 10007.6 | 8401.8 | 6795.0 | 6338.9 | 5881.7 | 5969.9 | 6059.0 | 6028.0 | 5996.0 |
| 80° | 5002.3 | 5919.5 | 6837.6 | 5768.4 | 4699.2 | 4734.1 | 4769.9 | 4728.2 | 4685.6 | 4747.6 | 4809.6 |
| 82.5° | 3192.2 | 3900.2 | 4609.1 | 4041.6 | 3474.0 | 3799.4 | 4124.9 | 3965.1 | 3804.3 | 3863.4 | 3923.4 |
| 85° | 1821.8 | 2514.2 | 3207.7 | 2989.8 | 2770.9 | 2960.7 | 3151.5 | 2903.6 | 2655.6 | 2764.1 | 2873.6 |
| 87.5° | 480.4 | 1390.8 | 2302.1 | 2090.0 | 1877.9 | 1631.9 | 1385.9 | 1057.6 | 729.3 | 1065.4 | 1401.4 |
| 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: P320551
 CATALOG NUMBER: GLEON-SA7A-727-U-SLR

CANDELA DISTRIBUTION (continued):

| | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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 CATALOG NUMBER: GLEON-SA7A-727-U-SLR

CANDELA DISTRIBUTION (continued):

| | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 | 7380.0 |
| 2.5° | 8332.1 | 8315.6 | 8256.5 | 8196.5 | 8107.4 | 8033.8 | 7905.9 |
| 5° | 8930.6 | 8826.0 | 8645.8 | 8464.7 | 8263.3 | 8031.8 | 7775.2 |
| 7.5° | 9142.7 | 8897.7 | 8551.9 | 8205.2 | 7893.3 | 7527.2 | 7186.3 |
| 10° | 9052.6 | 8685.6 | 8236.2 | 7785.8 | 7407.1 | 6985.8 | 6607.1 |
| 12.5° | 8880.2 | 8489.9 | 7995.0 | 7499.1 | 7068.2 | 6615.9 | 6191.7 |
| 15° | 8642.9 | 8331.1 | 7867.2 | 7403.3 | 6969.4 | 6529.7 | 6027.0 |
| 17.5° | 8383.4 | 8235.2 | 7900.1 | 7564.0 | 7188.2 | 6762.1 | 6172.3 |
| 20° | 8174.2 | 8228.4 | 8094.8 | 7961.1 | 7659.9 | 7288.0 | 6625.5 |
| 22.5° | 8032.8 | 8293.3 | 8396.0 | 8499.6 | 8318.5 | 8027.9 | 7261.9 |
| 25° | 7953.4 | 8385.3 | 8729.1 | 9073.9 | 8993.5 | 8769.8 | 8034.7 |
| 27.5° | 7988.2 | 8518.0 | 9051.6 | 9586.3 | 9660.8 | 9598.9 | 8849.2 |
| 30° | 8092.8 | 8629.4 | 9279.2 | 9930.1 | 10227.4 | 10310.7 | 9528.2 |
| 32.5° | 8267.2 | 8793.1 | 9501.0 | 10210.0 | 10659.4 | 10924.7 | 10149.0 |
| 35° | 8530.6 | 9022.6 | 9760.6 | 10498.6 | 11079.7 | 11564.0 | 10790.1 |
| 37.5° | 8982.9 | 9406.1 | 10087.0 | 10768.8 | 11522.3 | 12249.7 | 11496.2 |
| 40° | 9645.3 | 9944.6 | 10519.9 | 11096.2 | 12044.3 | 13026.4 | 12283.6 |
| 42.5° | 10481.2 | 10635.2 | 11091.3 | 11547.5 | 12589.6 | 13731.5 | 13053.5 |
| 45° | 11386.7 | 11427.4 | 11714.1 | 12001.7 | 13021.6 | 14211.8 | 13631.7 |
| 47.5° | 12258.4 | 12118.9 | 12233.2 | 12347.5 | 13352.8 | 14554.7 | 14070.4 |
| 50° | 13155.2 | 12766.8 | 12706.8 | 12646.7 | 13684.0 | 14958.6 | 14628.3 |
| 52.5° | 14067.5 | 13427.4 | 13190.1 | 12951.8 | 14079.2 | 15494.1 | 15322.7 |
| 55° | 14960.5 | 14146.0 | 13826.4 | 13506.8 | 14683.5 | 16147.9 | 16342.6 |
| 57.5° | 15889.3 | 14966.3 | 14669.9 | 14373.6 | 15571.6 | 16976.0 | 17257.8 |
| 60° | 16888.8 | 15974.5 | 15737.2 | 15499.0 | 16675.7 | 17870.9 | 17665.5 |
| 62.5° | 17837.0 | 17110.6 | 16985.6 | 16859.7 | 17792.4 | 18558.5 | 17506.7 |
| 65° | 18470.4 | 18055.8 | 18172.1 | 18289.3 | 18636.9 | 18729.9 | 17041.8 |
| 67.5° | 18047.1 | 18131.4 | 18622.4 | 19114.4 | 18875.2 | 18220.5 | 16125.6 |
| 70° | 15695.6 | 16201.2 | 17364.3 | 18528.5 | 17997.7 | 16855.9 | 14481.1 |
| 72.5° | 12192.5 | 12761.0 | 14487.9 | 16215.7 | 15726.6 | 14328.1 | 11894.2 |
| 75° | 9058.4 | 9700.5 | 11606.6 | 13512.6 | 12833.7 | 10717.5 | 8516.1 |
| 77.5° | 6426.0 | 6856.0 | 8737.9 | 10620.6 | 9513.6 | 7134.0 | 5730.6 |
| 80° | 4677.9 | 4546.2 | 5595.1 | 6643.9 | 6459.9 | 4718.6 | 3680.3 |
| 82.5° | 3601.9 | 3280.3 | 3774.3 | 4268.2 | 4241.1 | 3274.5 | 2700.2 |
| 85° | 2744.7 | 2615.9 | 3052.7 | 3489.5 | 3115.7 | 2217.9 | 1716.2 |
| 87.5° | 1600.0 | 1799.5 | 2313.8 | 2829.0 | 2123.0 | 673.1 | 333.2 |
| 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: P320551
 CATALOG NUMBER: GLEON-SA7A-727-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 |

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

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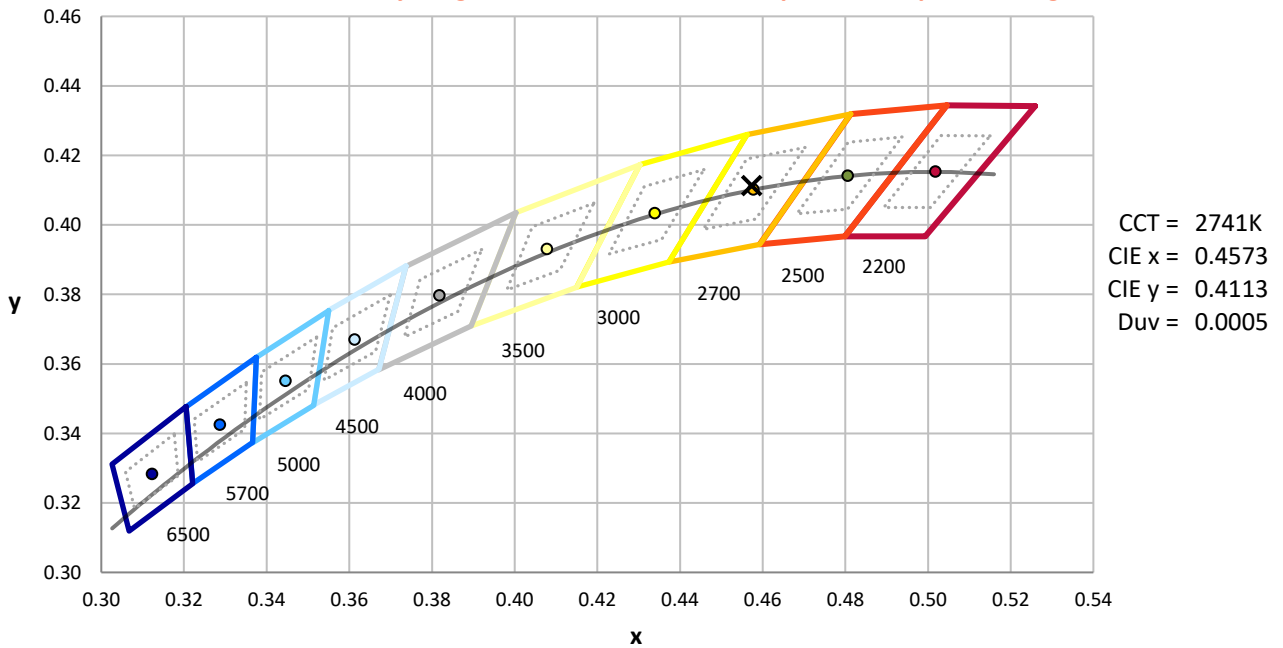
| Measurement and Test Equipment | | | |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument | Identification Number | Calibration Date | Calibration Due Date |
| Photometer | IN0058 | 6/28/2019 | 12/28/2019 |
| Power Meter | IN0071 | 12/5/2018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

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

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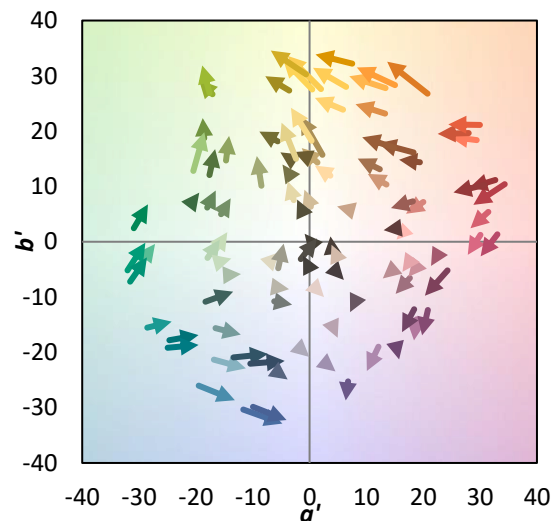
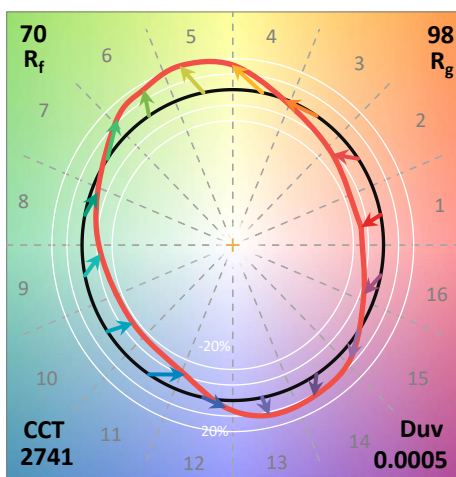
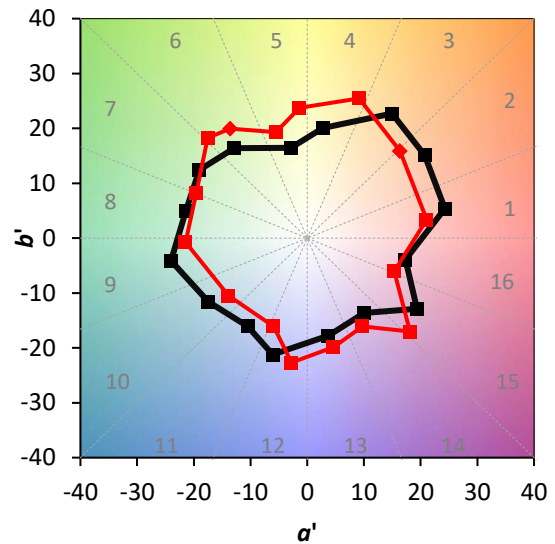
TM-30-18

Summary

$R_f = 69.9$
 $R_g = 98.3$
 $CIE R_a = 71.5$
 $R_9 = -16.1$



Color Vector Graphics



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

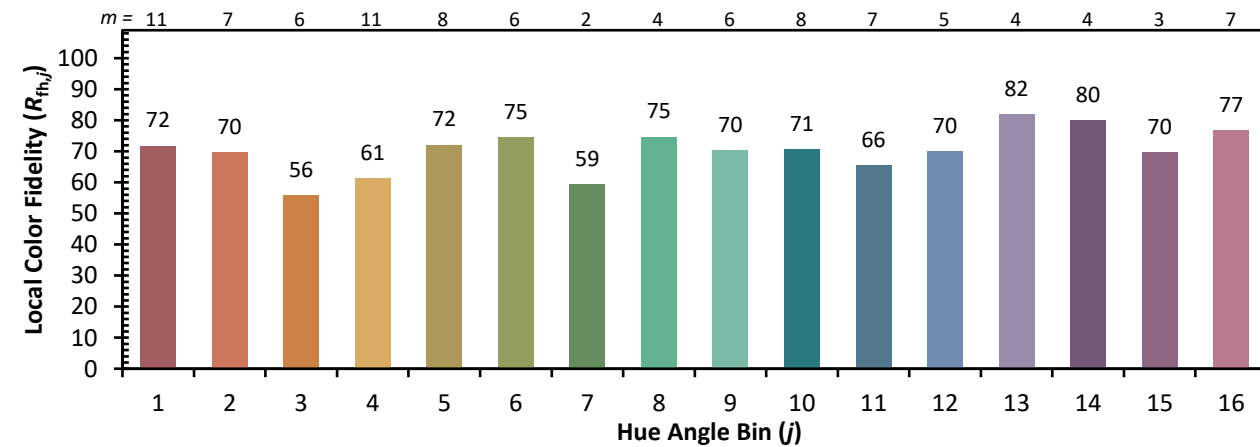
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|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 54 | CES51 = 77 | CES76 = 48 |
| CES02 = 63 | CES27 = 74 | CES52 = 80 | CES77 = 75 |
| CES03 = 31 | CES28 = 80 | CES53 = 66 | CES78 = 56 |
| CES04 = 71 | CES29 = 44 | CES54 = 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 | |



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Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)