

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: P323649

Luminaire Tested: **GLEON-SA5C-827-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323649
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5C-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22201 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

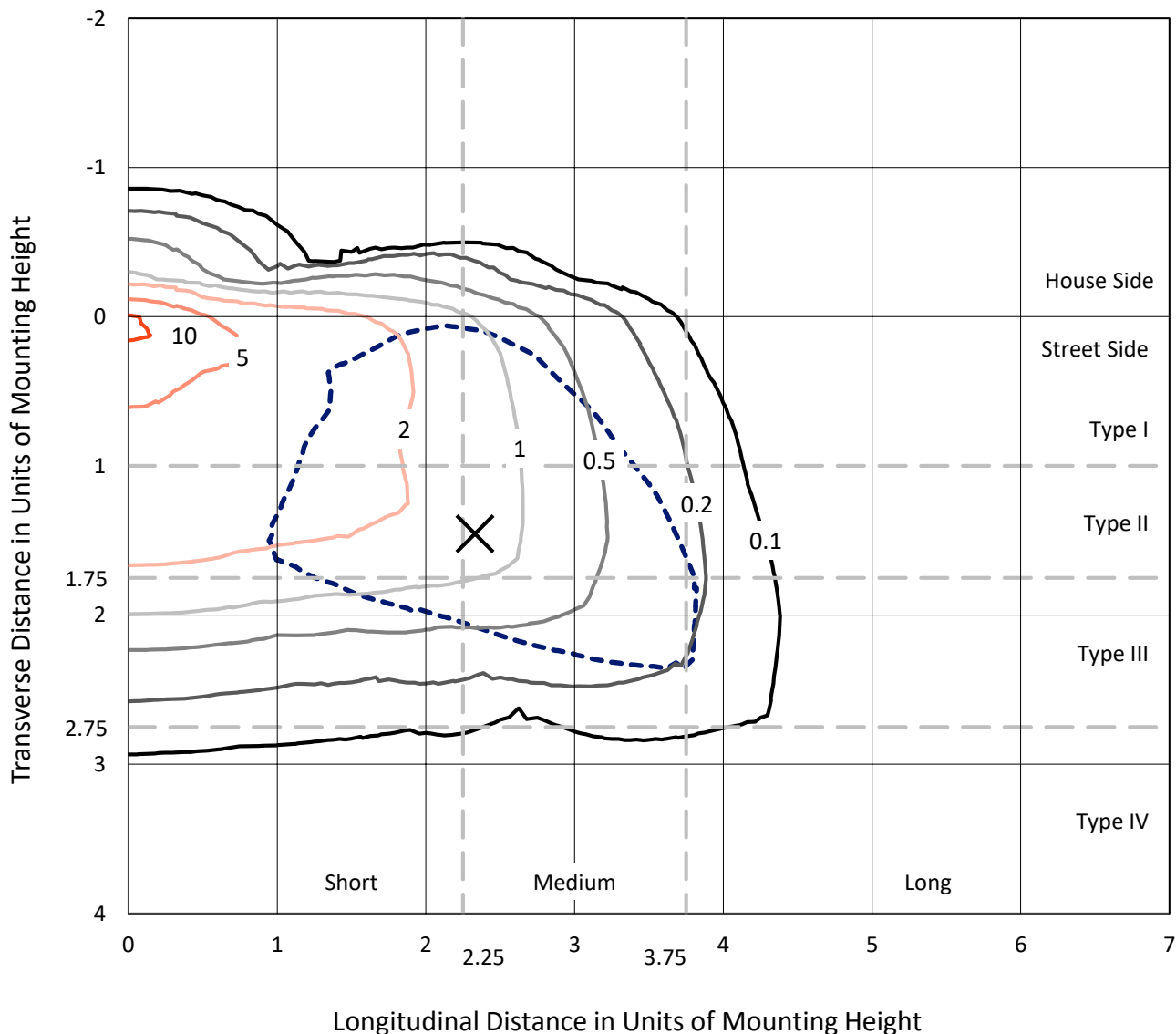
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323649
 CATALOG NUMBER: GLEON-SA5C-827-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

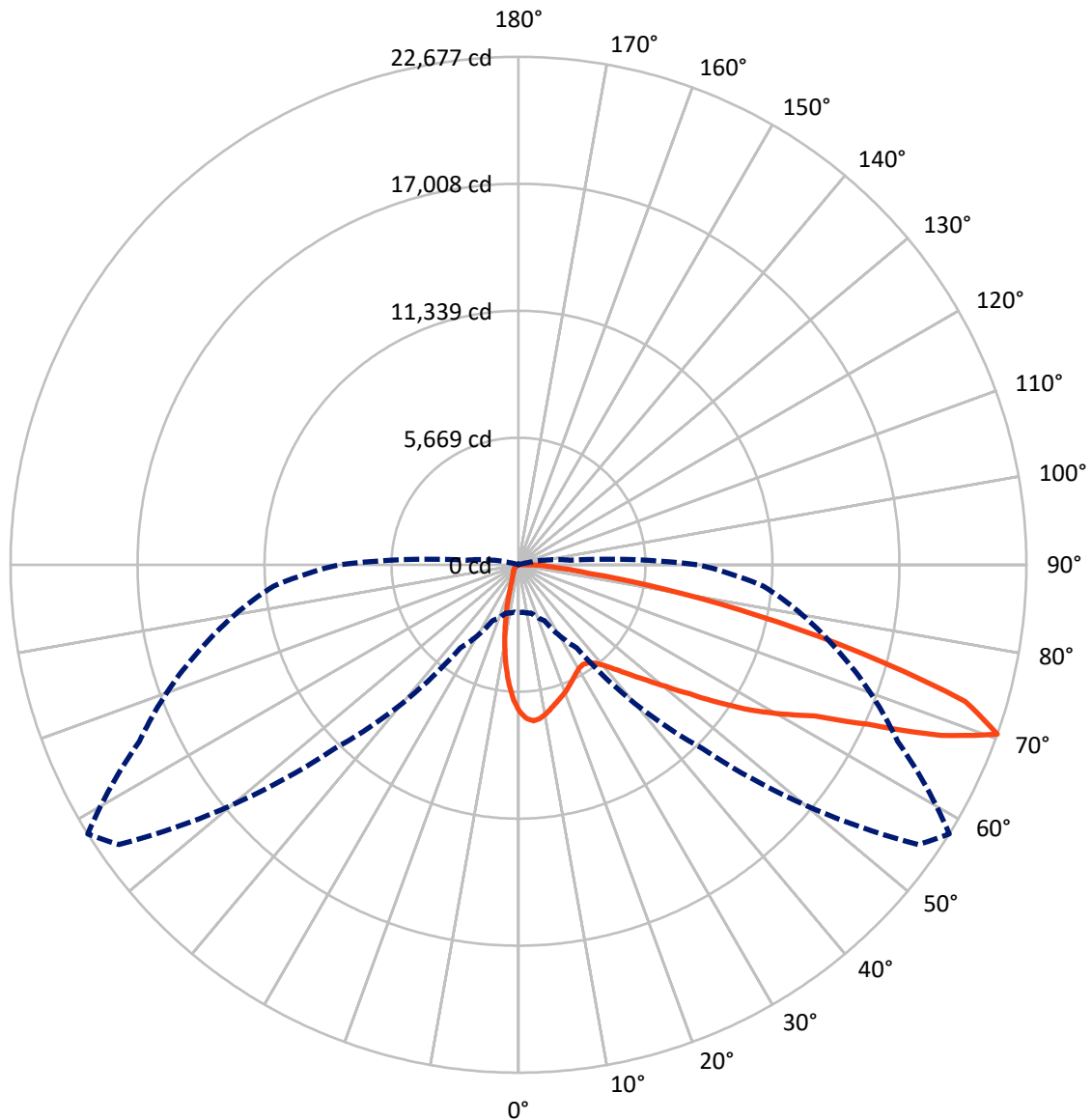
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type III - Medium - N/A

REPORT NUMBER: P323649
CATALOG NUMBER: GLEON-SA5C-827-U-SL3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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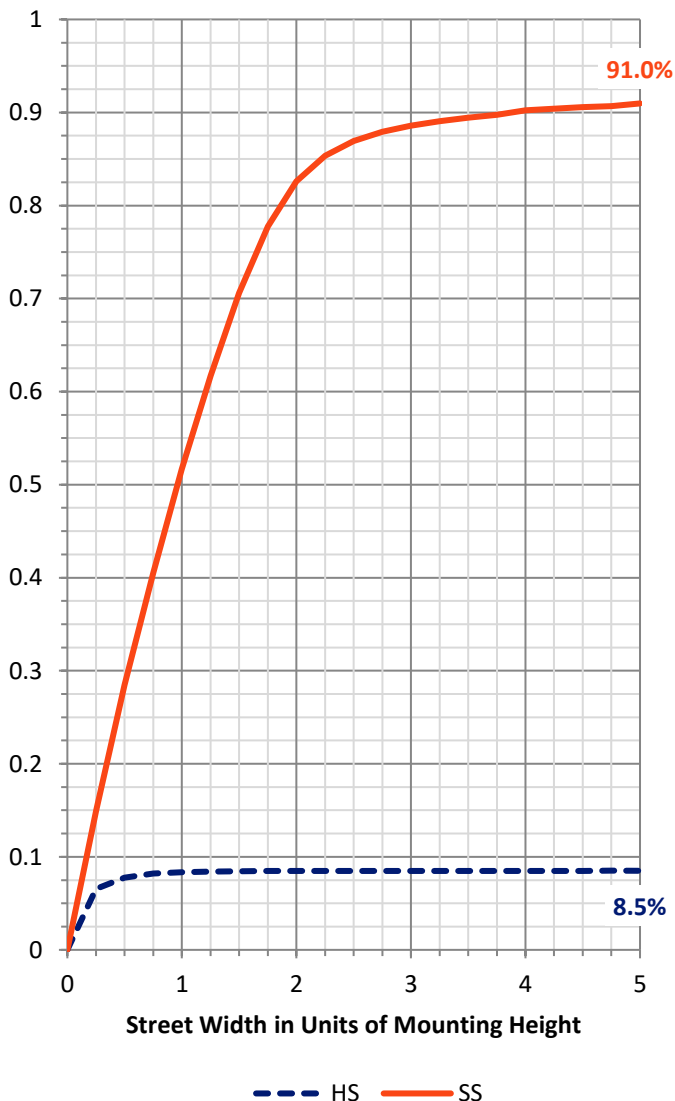
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1899.9 | 0.0 | 1899.9 |
| | % Fixture | 8.6 | 0.0 | 8.6 |
| Street Side | Lumens | 20301.1 | 0.0 | 20301.1 |
| | % Fixture | 91.4 | 0.0 | 91.4 |
| Total | Lumens | 22201.0 | 0.0 | 22201.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 536.3 | 2.4 |
| 10°-20° | 1125.5 | 5.1 |
| 20°-30° | 1479.7 | 6.7 |
| 30°-40° | 1959.7 | 8.8 |
| 40°-50° | 2929.1 | 13.2 |
| 50°-60° | 4692.3 | 21.1 |
| 60°-70° | 5914.6 | 26.6 |
| 70°-80° | 3190.3 | 14.4 |
| 80°-90° | 373.4 | 1.7 |
| 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° | 22201.0 | 100.0 |
| 0°-180° | 22201.0 | 100.0 |

Coefficient of Utilization

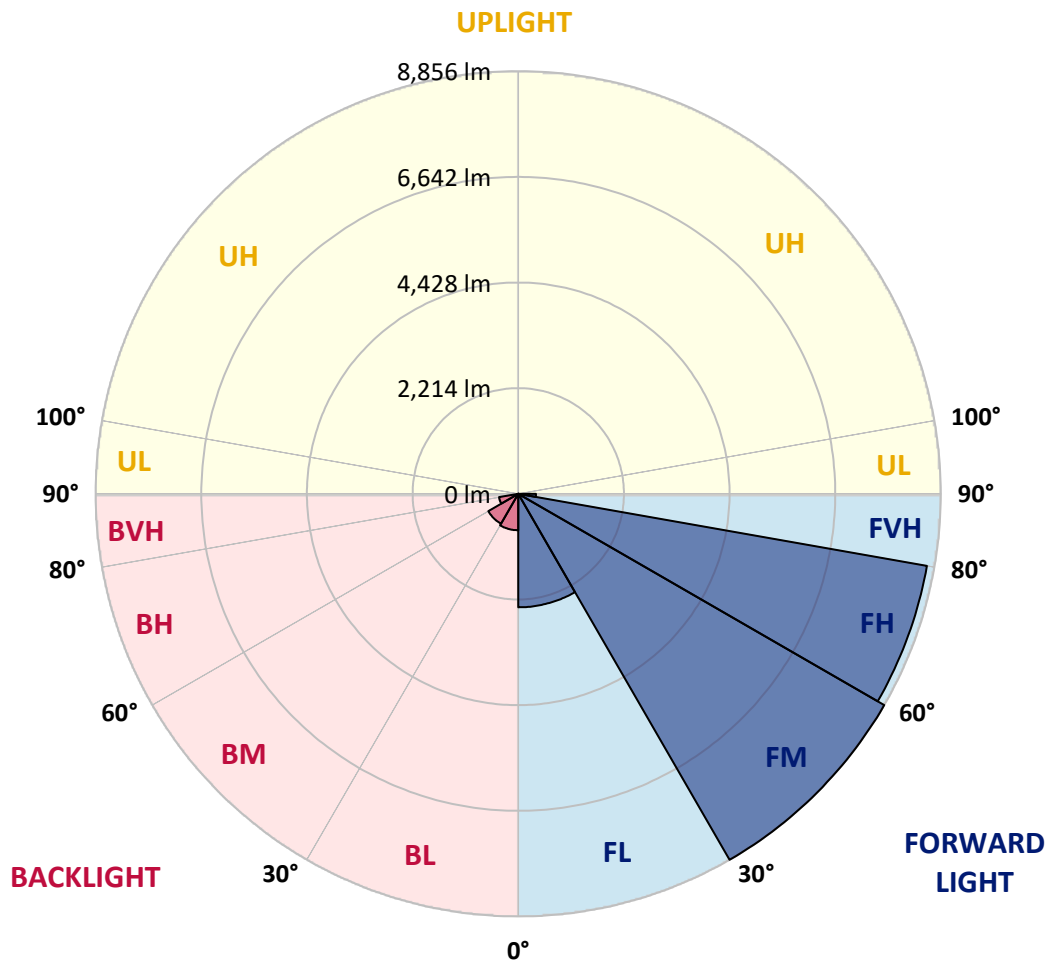


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2378.2 | 10.7 | | | |
| FM (30°-60°) | 8856.3 | 39.9 | | | |
| FH (60°-80°) | 8696.4 | 39.2 | | | G4/12000 |
| FVH (80°-90°) | 370.2 | 1.7 | | | G3/500 |
| BL (0°-30°) | 763.3 | 3.4 | B2/1000 | | |
| BM (30°-60°) | 724.8 | 3.3 | B1/1000 | | |
| BH (60°-80°) | 408.6 | 1.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.2 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4
 Type III Medium





REPORT NUMBER: P323649

CATALOG NUMBER: GLEON-SA5C-827-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6558.1 | 6558.1 | 6558.1 | 6558.1 | 6558.1 | 6558.1 | 6558.1 | 6558.1 | 6558.1 | 6558.1 | 6558.1 |
| 2.5° | 7101.8 | 7084.3 | 7077.8 | 7066.7 | 7024.3 | 6982.7 | 6900.6 | 6877.5 | 6825.8 | 6703.0 | 6572.8 |
| 5° | 7107.3 | 7106.4 | 7125.8 | 7121.2 | 7106.4 | 7087.0 | 7028.0 | 6997.5 | 6909.8 | 6734.4 | 6496.2 |
| 7.5° | 6764.9 | 6782.4 | 6825.8 | 6860.9 | 6901.5 | 6954.1 | 6961.5 | 6931.9 | 6859.9 | 6670.7 | 6355.0 |
| 10° | 6305.1 | 6332.8 | 6393.7 | 6463.0 | 6569.1 | 6674.4 | 6768.5 | 6764.9 | 6739.9 | 6553.5 | 6185.1 |
| 12.5° | 5844.5 | 5876.8 | 5946.9 | 6049.4 | 6199.9 | 6371.6 | 6539.6 | 6562.7 | 6604.2 | 6448.2 | 6028.2 |
| 15° | 5441.1 | 5468.8 | 5538.0 | 5663.5 | 5850.0 | 6080.8 | 6327.3 | 6369.7 | 6476.8 | 6366.1 | 5897.1 |
| 17.5° | 5098.6 | 5116.1 | 5166.9 | 5306.3 | 5522.3 | 5802.0 | 6122.3 | 6205.4 | 6365.1 | 6301.4 | 5783.5 |
| 20° | 4859.5 | 4862.2 | 4895.5 | 4993.3 | 5209.3 | 5522.3 | 5910.0 | 6029.1 | 6247.0 | 6246.0 | 5666.3 |
| 22.5° | 4741.3 | 4732.1 | 4738.5 | 4794.9 | 4953.6 | 5255.5 | 5697.7 | 5838.9 | 6140.8 | 6199.0 | 5547.2 |
| 25° | 4719.2 | 4711.8 | 4693.3 | 4700.7 | 4796.7 | 5021.9 | 5483.5 | 5646.9 | 6047.6 | 6170.3 | 5443.8 |
| 27.5° | 4788.4 | 4795.8 | 4764.4 | 4731.2 | 4738.5 | 4870.5 | 5293.4 | 5482.6 | 5971.9 | 6170.3 | 5370.9 |
| 30° | 4927.8 | 4931.5 | 4908.4 | 4865.0 | 4806.9 | 4828.1 | 5161.3 | 5350.6 | 5934.0 | 6212.8 | 5324.7 |
| 32.5° | 5082.0 | 5102.3 | 5099.5 | 5064.4 | 4981.3 | 4895.5 | 5130.0 | 5302.6 | 5931.3 | 6307.0 | 5320.1 |
| 35° | 5273.0 | 5296.1 | 5334.9 | 5327.5 | 5240.7 | 5099.5 | 5237.0 | 5372.7 | 5985.7 | 6462.1 | 5370.0 |
| 37.5° | 5476.1 | 5511.2 | 5594.3 | 5634.0 | 5577.7 | 5418.0 | 5477.1 | 5574.0 | 6131.6 | 6713.2 | 5496.4 |
| 40° | 5672.8 | 5712.5 | 5863.9 | 6019.9 | 5977.4 | 5813.1 | 5840.8 | 5918.3 | 6391.0 | 7074.1 | 5736.5 |
| 42.5° | 5865.7 | 5924.8 | 6147.3 | 6403.9 | 6454.7 | 6323.6 | 6338.4 | 6400.2 | 6775.9 | 7570.8 | 6128.8 |
| 45° | 6096.5 | 6163.0 | 6492.5 | 6809.2 | 6944.9 | 6887.6 | 6950.4 | 6991.0 | 7279.1 | 8227.1 | 6657.8 |
| 47.5° | 6435.3 | 6511.9 | 6916.3 | 7277.2 | 7515.4 | 7552.3 | 7678.8 | 7705.5 | 7915.1 | 8991.5 | 7347.4 |
| 50° | 7096.3 | 7117.5 | 7483.1 | 7810.8 | 8154.2 | 8375.8 | 8519.8 | 8540.1 | 8685.0 | 9827.0 | 8208.7 |
| 52.5° | 7928.0 | 7941.9 | 8148.7 | 8368.4 | 8758.9 | 9211.2 | 9548.2 | 9576.8 | 9607.2 | 10641.2 | 9058.9 |
| 55° | 8754.2 | 8752.4 | 8889.0 | 9018.3 | 9465.1 | 10122.4 | 10853.5 | 10871.0 | 10652.2 | 11413.8 | 9708.8 |
| 57.5° | 9270.3 | 9320.1 | 9527.8 | 9694.0 | 10318.1 | 11160.9 | 12175.4 | 12240.1 | 11749.9 | 11986.2 | 10351.3 |
| 60° | 9106.0 | 9130.0 | 9590.6 | 10205.4 | 11380.6 | 12637.0 | 13513.1 | 13529.7 | 12575.2 | 12557.6 | 11163.7 |
| 62.5° | 7758.2 | 7771.1 | 8494.8 | 9762.3 | 11918.8 | 14551.6 | 15126.8 | 14856.3 | 13524.2 | 13350.6 | 12135.8 |
| 65° | 5317.4 | 5401.4 | 6006.0 | 7572.6 | 10930.1 | 15752.7 | 17624.8 | 17177.1 | 14970.8 | 14493.5 | 13014.6 |
| 67.5° | 3131.3 | 3113.8 | 3412.9 | 4566.8 | 8027.7 | 14955.1 | 20784.8 | 20339.8 | 16943.5 | 15258.8 | 12757.0 |
| 70° | 2138.9 | 2126.9 | 2241.4 | 2764.8 | 4531.8 | 11601.2 | 21779.0 | 22677.2 | 18685.5 | 14743.7 | 10979.0 |
| 72.5° | 1526.9 | 1533.4 | 1702.3 | 2148.2 | 2845.2 | 6759.3 | 18728.9 | 20854.9 | 18139.9 | 12853.0 | 8345.3 |
| 75° | 1036.7 | 1054.2 | 1296.1 | 1762.3 | 2494.4 | 3438.7 | 13290.6 | 15853.3 | 14771.4 | 9341.4 | 4796.7 |
| 77.5° | 557.6 | 577.0 | 862.2 | 1419.8 | 2255.3 | 2389.1 | 8549.3 | 10910.7 | 9278.6 | 4199.4 | 1390.3 |
| 80° | 232.6 | 243.7 | 403.4 | 1032.1 | 1948.8 | 2098.3 | 5030.3 | 6616.2 | 3953.9 | 828.1 | 310.2 |
| 82.5° | 100.6 | 106.2 | 168.0 | 615.7 | 1456.7 | 1771.5 | 2663.3 | 3183.0 | 1198.3 | 181.9 | 156.0 |
| 85° | 19.4 | 20.3 | 69.2 | 325.9 | 929.6 | 999.8 | 1726.3 | 1692.1 | 538.2 | 78.5 | 113.5 |
| 87.5° | 0.0 | 0.0 | 16.6 | 102.5 | 273.3 | 544.7 | 1053.3 | 1040.4 | 182.8 | 37.8 | 42.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P323649

CATALOG NUMBER: GLEON-SA5C-827-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6558.1 | 6558.1 | 6558.1 | 6558.1 | 6558.1 | 6558.1 | 6558.1 | 6558.1 | 6558.1 | 6558.1 | 6558.1 |
| 2.5° | 6506.4 | 6442.7 | 6308.8 | 6143.6 | 6017.1 | 5877.7 | 5766.9 | 5626.6 | 5565.7 | 5568.5 | 5535.2 |
| 5° | 6360.5 | 6229.4 | 5933.1 | 5559.2 | 5271.2 | 4973.9 | 4718.2 | 4463.4 | 4313.0 | 4264.0 | 4217.9 |
| 7.5° | 6151.9 | 5944.2 | 5471.5 | 4895.5 | 4408.0 | 3931.7 | 3517.2 | 3152.6 | 2921.8 | 2809.2 | 2767.6 |
| 10° | 5916.5 | 5624.8 | 4940.7 | 4181.9 | 3485.8 | 2841.5 | 2304.2 | 1837.1 | 1650.6 | 1524.1 | 1491.8 |
| 12.5° | 5709.7 | 5314.6 | 4421.9 | 3449.8 | 2623.6 | 1846.3 | 1334.0 | 1043.2 | 916.7 | 866.8 | 858.5 |
| 15° | 5514.9 | 5024.7 | 3922.5 | 2787.0 | 1816.8 | 1136.4 | 848.4 | 749.6 | 720.1 | 711.8 | 711.8 |
| 17.5° | 5331.2 | 4748.7 | 3434.1 | 2134.3 | 1201.9 | 796.7 | 702.5 | 680.4 | 671.1 | 670.2 | 671.1 |
| 20° | 5139.2 | 4472.7 | 2954.1 | 1563.8 | 839.1 | 674.8 | 649.0 | 637.0 | 634.2 | 634.2 | 634.2 |
| 22.5° | 4955.5 | 4196.6 | 2487.0 | 1117.0 | 673.0 | 615.7 | 602.8 | 594.5 | 591.7 | 590.8 | 589.0 |
| 25° | 4779.2 | 3934.5 | 2030.9 | 789.3 | 590.8 | 564.0 | 553.0 | 541.9 | 533.6 | 529.0 | 526.2 |
| 27.5° | 4634.2 | 3700.9 | 1606.3 | 633.3 | 533.6 | 510.5 | 496.7 | 480.0 | 459.7 | 450.5 | 446.8 |
| 30° | 4518.8 | 3487.7 | 1237.9 | 534.5 | 480.0 | 457.0 | 435.7 | 407.1 | 377.6 | 361.9 | 361.0 |
| 32.5° | 4428.4 | 3278.1 | 939.8 | 472.7 | 432.0 | 403.4 | 373.0 | 337.0 | 302.8 | 285.3 | 284.3 |
| 35° | 4384.0 | 3093.5 | 718.2 | 427.4 | 389.6 | 353.6 | 315.7 | 276.0 | 242.8 | 226.2 | 224.3 |
| 37.5° | 4413.6 | 2937.5 | 560.4 | 389.6 | 353.6 | 312.0 | 267.7 | 226.2 | 196.6 | 181.9 | 180.9 |
| 40° | 4521.6 | 2837.8 | 455.1 | 357.3 | 323.1 | 272.3 | 224.3 | 185.6 | 160.6 | 148.6 | 147.7 |
| 42.5° | 4751.5 | 2800.8 | 388.6 | 330.5 | 293.6 | 235.4 | 186.5 | 153.2 | 130.2 | 121.9 | 120.0 |
| 45° | 5135.5 | 2855.3 | 343.4 | 304.6 | 263.1 | 200.3 | 154.2 | 125.5 | 105.2 | 98.8 | 97.9 |
| 47.5° | 5646.9 | 2998.4 | 311.1 | 279.7 | 235.4 | 168.9 | 128.3 | 101.5 | 85.9 | 79.4 | 78.5 |
| 50° | 6306.0 | 3225.5 | 284.3 | 254.8 | 209.6 | 143.1 | 106.2 | 80.3 | 66.5 | 61.9 | 61.9 |
| 52.5° | 7023.3 | 3496.0 | 260.3 | 231.7 | 183.7 | 119.1 | 85.9 | 61.9 | 52.6 | 47.1 | 47.1 |
| 55° | 7616.0 | 3732.3 | 234.5 | 214.2 | 152.3 | 98.8 | 65.5 | 47.1 | 38.8 | 36.0 | 36.0 |
| 57.5° | 8207.7 | 3984.3 | 204.9 | 183.7 | 121.9 | 80.3 | 49.9 | 35.1 | 28.6 | 26.8 | 26.8 |
| 60° | 8974.9 | 4292.7 | 176.3 | 149.6 | 96.0 | 60.9 | 36.9 | 24.9 | 21.2 | 20.3 | 20.3 |
| 62.5° | 9818.6 | 4473.6 | 150.5 | 120.0 | 74.8 | 45.2 | 26.8 | 16.6 | 15.7 | 15.7 | 14.8 |
| 65° | 10334.7 | 4217.9 | 126.5 | 96.0 | 58.2 | 34.2 | 17.5 | 12.0 | 13.8 | 12.9 | 11.1 |
| 67.5° | 9676.5 | 3302.1 | 103.4 | 74.8 | 45.2 | 25.8 | 11.1 | 8.3 | 14.8 | 12.0 | 9.2 |
| 70° | 8012.0 | 2311.6 | 80.3 | 52.6 | 36.0 | 22.2 | 7.4 | 5.5 | 15.7 | 12.0 | 7.4 |
| 72.5° | 5995.9 | 1547.2 | 63.7 | 35.1 | 26.8 | 19.4 | 6.5 | 2.8 | 13.8 | 10.2 | 6.5 |
| 75° | 3276.3 | 623.1 | 50.8 | 22.2 | 16.6 | 13.8 | 4.6 | 1.8 | 9.2 | 7.4 | 4.6 |
| 77.5° | 862.2 | 164.3 | 36.9 | 14.8 | 9.2 | 5.5 | 2.8 | 0.9 | 4.6 | 3.7 | 1.8 |
| 80° | 219.7 | 63.7 | 24.0 | 10.2 | 6.5 | 2.8 | 0.0 | 0.0 | 0.9 | 0.0 | 0.0 |
| 82.5° | 117.2 | 26.8 | 14.8 | 7.4 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 88.6 | 17.5 | 8.3 | 4.6 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 34.2 | 5.5 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)