

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: P383651

Luminaire Tested: **GLEON-SA9B-735-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383651
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9B-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46702.2 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

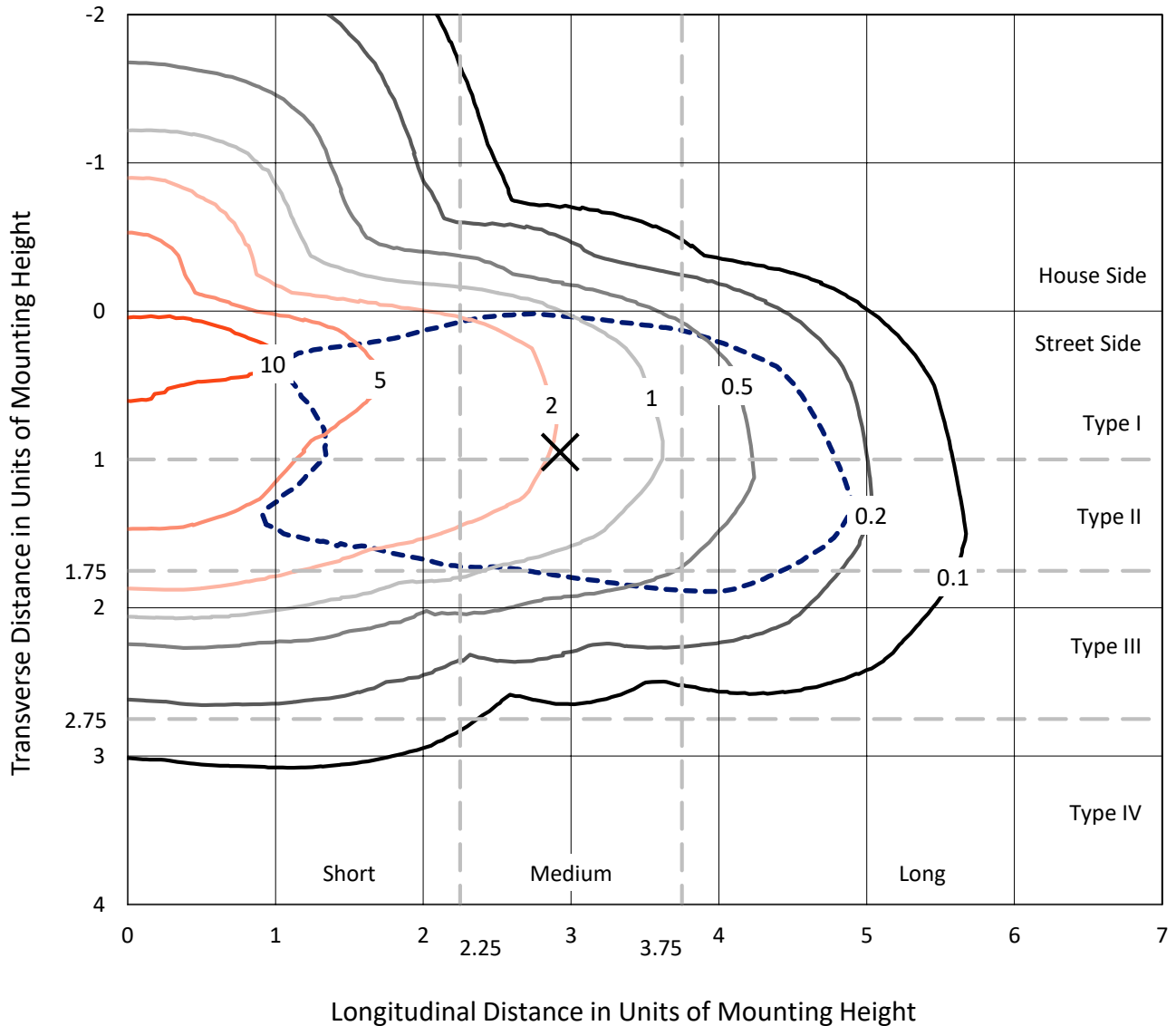
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383651
 CATALOG NUMBER: GLEON-SA9B-735-U-T2

Iso-Footcandle Lines of Horizontal Illumination

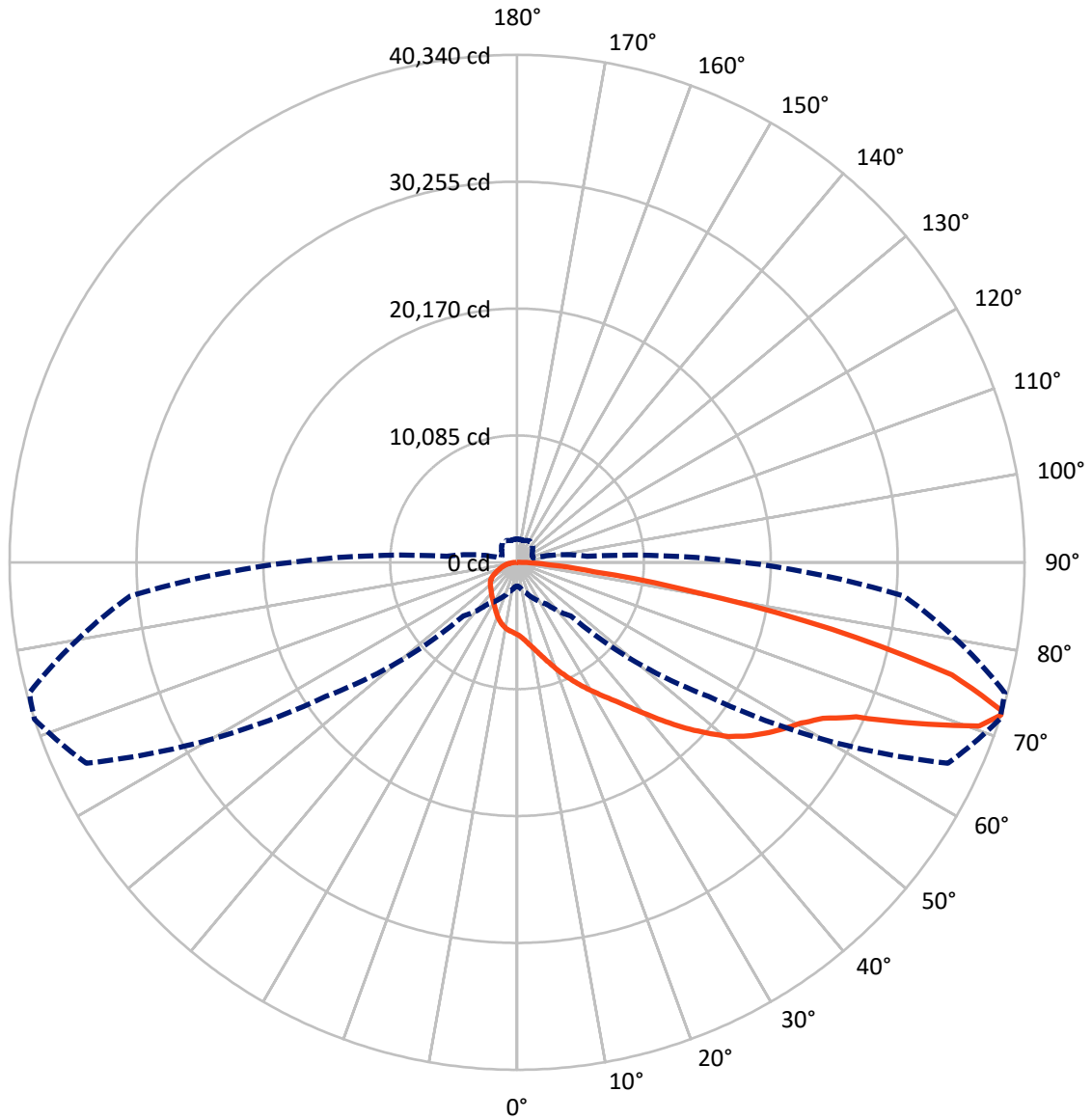
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type III - Medium - N/A

REPORT NUMBER: P383651
CATALOG NUMBER: GLEON-SA9B-735-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P383651
 CATALOG NUMBER: GLEON-SA9B-735-U-T2

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8663.6 | 0.0 | 8663.6 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 38038.6 | 0.0 | 38038.6 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 46702.2 | 0.0 | 46702.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 575.7 | 1.2 |
| 10°-20° | 1860.5 | 4.0 |
| 20°-30° | 3260.1 | 7.0 |
| 30°-40° | 4833.7 | 10.4 |
| 40°-50° | 7069.7 | 15.1 |
| 50°-60° | 9727.9 | 20.8 |
| 60°-70° | 10830.0 | 23.2 |
| 70°-80° | 7338.4 | 15.7 |
| 80°-90° | 1206.1 | 2.6 |
| 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° | 46702.2 | 100.0 |
| 0°-180° | 46702.2 | 100.0 |

Coefficient of Utilization

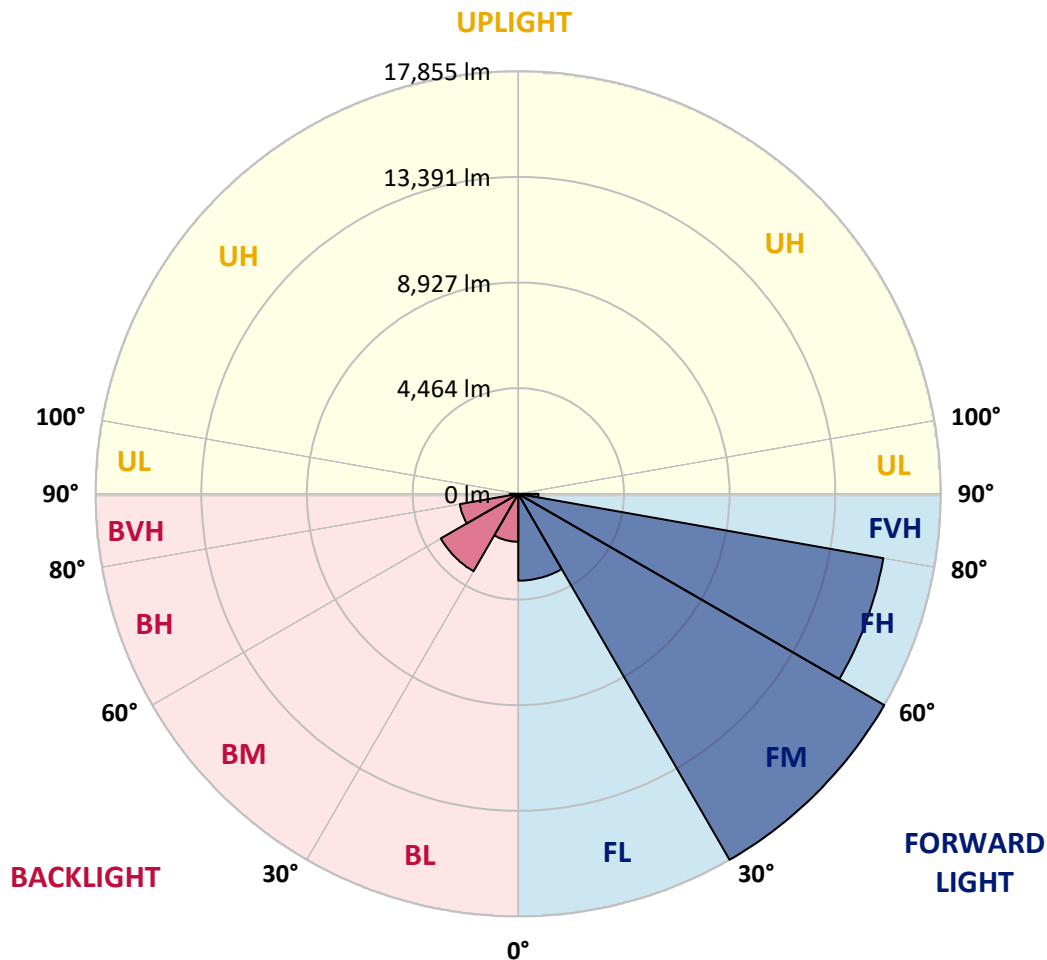


REPORT NUMBER: P383651
 CATALOG NUMBER: GLEON-SA9B-735-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3671.1 | 7.9 | | | |
| FM (30°-60°) | 17854.8 | 38.2 | | | |
| FH (60°-80°) | 15662.0 | 33.5 | | | G5 |
| FVH (80°-90°) | 850.8 | 1.8 | | | G5 |
| BL (0°-30°) | 2025.2 | 4.3 | B3/2500 | | |
| BM (30°-60°) | 3776.5 | 8.1 | B3/5000 | | |
| BH (60°-80°) | 2506.5 | 5.4 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 355.3 | 0.8 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5
 Type III Medium





REPORT NUMBER: P383651

CATALOG NUMBER: GLEON-SA9B-735-U-T2

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 72° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5745.6 | 5745.6 | 5745.6 | 5745.6 | 5745.6 | 5745.6 | 5745.6 | 5745.6 | 5745.6 | 5745.6 | 5745.6 |
| 2.5° | 6347.0 | 6337.3 | 6303.6 | 6303.6 | 6239.2 | 6184.5 | 6081.7 | 6012.5 | 5930.5 | 5901.5 | 5805.1 |
| 5° | 6961.3 | 6964.5 | 6922.7 | 6893.7 | 6798.9 | 6683.1 | 6507.8 | 6348.6 | 6189.4 | 6125.1 | 5927.3 |
| 7.5° | 7477.4 | 7471.0 | 7459.7 | 7435.6 | 7347.2 | 7228.3 | 6991.8 | 6755.5 | 6520.6 | 6424.2 | 6083.3 |
| 10° | 7808.7 | 7823.2 | 7832.8 | 7844.1 | 7807.1 | 7721.9 | 7498.4 | 7210.6 | 6903.4 | 6771.5 | 6269.8 |
| 12.5° | 7976.0 | 8001.7 | 8046.7 | 8123.9 | 8185.0 | 8175.4 | 8013.0 | 7707.4 | 7342.4 | 7176.7 | 6502.9 |
| 15° | 8074.1 | 8107.8 | 8178.6 | 8316.9 | 8488.9 | 8587.0 | 8543.6 | 8267.0 | 7860.2 | 7655.9 | 6787.6 |
| 17.5° | 8135.2 | 8162.5 | 8271.9 | 8456.8 | 8712.5 | 8972.9 | 9087.2 | 8855.6 | 8445.5 | 8212.3 | 7114.0 |
| 20° | 8176.9 | 8197.9 | 8334.6 | 8551.6 | 8882.9 | 9297.8 | 9616.2 | 9558.3 | 9090.3 | 8788.0 | 7455.0 |
| 22.5° | 8270.3 | 8287.9 | 8418.2 | 8636.8 | 9003.5 | 9539.0 | 10125.9 | 10212.7 | 9770.5 | 9428.0 | 7820.0 |
| 25° | 8530.7 | 8530.7 | 8640.1 | 8792.9 | 9137.0 | 9748.1 | 10556.9 | 10941.2 | 10465.3 | 10066.4 | 8157.7 |
| 27.5° | 9027.6 | 9022.8 | 9063.0 | 9116.1 | 9376.6 | 9960.3 | 10941.2 | 11584.4 | 11185.7 | 10749.9 | 8485.7 |
| 30° | 9616.2 | 9648.3 | 9653.2 | 9627.5 | 9749.7 | 10225.6 | 11296.6 | 12263.1 | 11910.9 | 11441.4 | 8821.8 |
| 32.5° | 10373.6 | 10394.5 | 10370.4 | 10285.1 | 10267.4 | 10601.9 | 11645.6 | 12973.8 | 12695.6 | 12163.3 | 9129.0 |
| 35° | 11335.2 | 11295.0 | 11219.4 | 11045.7 | 10880.1 | 11105.3 | 12044.4 | 13684.5 | 13576.8 | 13036.5 | 9551.9 |
| 37.5° | 12365.9 | 12367.6 | 12274.3 | 11880.3 | 11652.0 | 11748.5 | 12594.3 | 14490.2 | 14643.0 | 14075.3 | 10093.8 |
| 40° | 13192.5 | 13235.9 | 13293.8 | 12776.0 | 12480.1 | 12613.6 | 13293.8 | 15424.5 | 15903.7 | 15307.1 | 10799.7 |
| 42.5° | 13769.8 | 13819.6 | 13983.6 | 13658.8 | 13351.7 | 13599.4 | 14117.1 | 16421.5 | 17318.8 | 16728.6 | 11626.3 |
| 45° | 14380.9 | 14408.2 | 14523.9 | 14384.1 | 14187.9 | 14745.9 | 15045.0 | 17453.8 | 18815.9 | 18243.4 | 12550.9 |
| 47.5° | 15024.1 | 15053.1 | 15172.0 | 15078.8 | 14975.8 | 15816.8 | 16013.0 | 18426.8 | 20250.3 | 19907.7 | 13538.3 |
| 50° | 15818.4 | 15837.8 | 15950.3 | 15781.4 | 15813.7 | 16624.1 | 16878.2 | 19319.2 | 21753.8 | 21403.2 | 14528.8 |
| 52.5° | 16902.3 | 16907.1 | 17063.1 | 16910.3 | 16759.2 | 17215.8 | 17622.7 | 20160.2 | 22932.5 | 22766.8 | 15519.4 |
| 55° | 17751.4 | 17802.8 | 18314.1 | 18282.0 | 18195.2 | 17753.0 | 18245.0 | 20961.0 | 23984.2 | 24063.0 | 16571.0 |
| 57.5° | 17209.4 | 17410.4 | 18446.0 | 19176.1 | 19886.9 | 19089.3 | 19086.0 | 21863.1 | 24961.8 | 25334.9 | 17727.3 |
| 60° | 15072.3 | 15345.7 | 16871.7 | 18491.0 | 20715.0 | 21414.5 | 20832.4 | 22964.7 | 25949.2 | 26595.7 | 19176.1 |
| 62.5° | 10764.3 | 11214.6 | 13282.6 | 15868.4 | 19579.7 | 22955.0 | 24386.2 | 24712.7 | 27291.9 | 28055.8 | 21059.1 |
| 65° | 5441.6 | 5782.6 | 7516.1 | 10630.9 | 15643.2 | 21948.4 | 28248.7 | 28539.8 | 29625.3 | 30303.8 | 23958.5 |
| 67.5° | 3306.2 | 3434.8 | 4280.6 | 5912.8 | 9590.5 | 17096.9 | 29509.5 | 34919.0 | 34140.7 | 34500.9 | 28092.8 |
| 70° | 2436.2 | 2531.1 | 3058.6 | 3926.8 | 5515.6 | 10032.7 | 25640.5 | 39471.3 | 38960.0 | 38919.8 | 31148.1 |
| 72° | 1897.5 | 1966.7 | 2433.0 | 3172.7 | 4033.0 | 6018.9 | 18584.3 | 37790.9 | 40339.7 | 40137.1 | 30868.3 |
| 72.5° | 1799.4 | 1860.5 | 2285.1 | 2986.2 | 3811.1 | 5456.2 | 16709.4 | 36657.2 | 40240.1 | 40148.4 | 30506.5 |
| 75° | 1416.7 | 1460.1 | 1691.7 | 2309.2 | 2982.9 | 3095.5 | 9156.3 | 28407.9 | 35697.3 | 37181.5 | 27438.3 |
| 77.5° | 1172.3 | 1178.7 | 1300.9 | 1680.4 | 2325.2 | 2188.6 | 4497.7 | 19710.0 | 25561.7 | 27193.8 | 19436.6 |
| 80° | 955.2 | 963.2 | 1021.2 | 1178.7 | 1759.2 | 1619.3 | 2135.5 | 11333.6 | 14311.7 | 14329.4 | 9243.1 |
| 82.5° | 760.6 | 762.2 | 826.6 | 862.0 | 1263.9 | 1157.8 | 1223.8 | 5321.1 | 6253.8 | 6015.7 | 3322.3 |
| 85° | 535.5 | 524.2 | 807.3 | 707.5 | 826.6 | 742.9 | 675.4 | 2106.6 | 2585.8 | 2473.2 | 1040.4 |
| 87.5° | 178.5 | 184.9 | 358.6 | 458.3 | 482.4 | 421.3 | 300.7 | 807.3 | 976.1 | 968.1 | 329.7 |
| 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: P383651
 CATALOG NUMBER: GLEON-SA9B-735-U-T2

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5745.6 | 5745.6 | 5745.6 | 5745.6 | 5745.6 | 5745.6 | 5745.6 | 5745.6 | 5745.6 | 5745.6 | 5745.6 |
| 2.5° | 5774.6 | 5723.1 | 5647.5 | 5563.9 | 5498.0 | 5430.5 | 5380.5 | 5354.8 | 5325.8 | 5301.8 | 5330.7 |
| 5° | 5835.7 | 5739.2 | 5578.4 | 5420.8 | 5305.0 | 5202.0 | 5128.1 | 5089.5 | 5054.1 | 5030.0 | 5033.2 |
| 7.5° | 5935.4 | 5779.3 | 5509.2 | 5279.3 | 5118.5 | 5007.5 | 4931.9 | 4906.2 | 4883.6 | 4877.2 | 4885.3 |
| 10° | 6041.5 | 5811.6 | 5417.5 | 5112.1 | 4928.7 | 4837.1 | 4803.2 | 4820.9 | 4837.1 | 4851.5 | 4867.6 |
| 12.5° | 6162.1 | 5840.4 | 5284.1 | 4915.9 | 4759.8 | 4724.4 | 4758.3 | 4835.4 | 4891.7 | 4925.5 | 4946.4 |
| 15° | 6319.7 | 5866.2 | 5129.7 | 4719.7 | 4615.2 | 4655.3 | 4769.5 | 4902.9 | 5001.0 | 5063.8 | 5073.4 |
| 17.5° | 6464.4 | 5864.6 | 4931.9 | 4521.8 | 4497.7 | 4615.2 | 4787.2 | 4975.3 | 5107.2 | 5195.6 | 5213.3 |
| 20° | 6613.9 | 5821.1 | 4702.0 | 4328.9 | 4378.7 | 4571.7 | 4795.2 | 5022.0 | 5181.2 | 5284.1 | 5308.2 |
| 22.5° | 6753.8 | 5745.6 | 4449.5 | 4153.6 | 4279.1 | 4513.8 | 4764.7 | 4994.6 | 5153.8 | 5237.4 | 5263.2 |
| 25° | 6848.7 | 5613.7 | 4193.8 | 4005.7 | 4190.6 | 4443.1 | 4665.0 | 4849.9 | 4968.9 | 5010.7 | 5017.1 |
| 27.5° | 6897.0 | 5441.6 | 3952.6 | 3877.0 | 4098.9 | 4327.3 | 4480.1 | 4571.7 | 4605.5 | 4602.2 | 4595.8 |
| 30° | 6903.4 | 5214.9 | 3745.2 | 3772.5 | 3992.8 | 4156.8 | 4229.2 | 4211.5 | 4168.1 | 4094.2 | 4100.6 |
| 32.5° | 6882.5 | 4959.3 | 3571.5 | 3672.8 | 3857.7 | 3949.4 | 3952.6 | 3867.4 | 3751.6 | 3634.2 | 3602.0 |
| 35° | 6888.9 | 4708.4 | 3418.7 | 3560.3 | 3693.7 | 3733.9 | 3696.9 | 3571.5 | 3413.9 | 3262.7 | 3230.6 |
| 37.5° | 6959.7 | 4489.7 | 3286.9 | 3430.0 | 3512.0 | 3521.6 | 3468.6 | 3336.7 | 3220.9 | 3073.0 | 3060.1 |
| 40° | 7128.5 | 4333.7 | 3161.5 | 3283.6 | 3330.3 | 3335.1 | 3259.6 | 3166.2 | 3175.9 | 3097.1 | 3095.5 |
| 42.5° | 7432.4 | 4266.2 | 3050.4 | 3130.9 | 3159.8 | 3169.5 | 3111.6 | 3052.1 | 3135.7 | 3084.3 | 3066.6 |
| 45° | 7824.8 | 4282.2 | 2957.2 | 2981.3 | 3034.4 | 3079.4 | 3044.0 | 2971.7 | 3003.9 | 2780.3 | 2706.3 |
| 47.5° | 8278.3 | 4385.2 | 2883.2 | 2852.7 | 2944.3 | 3029.6 | 2974.9 | 2865.5 | 2751.4 | 2529.4 | 2487.7 |
| 50° | 8808.9 | 4544.4 | 2815.7 | 2725.6 | 2846.3 | 2962.0 | 2907.4 | 2751.4 | 2579.4 | 2471.6 | 2457.1 |
| 52.5° | 9362.1 | 4739.0 | 2748.2 | 2585.8 | 2722.4 | 2910.6 | 2883.2 | 2725.6 | 2513.4 | 2407.3 | 2387.9 |
| 55° | 9989.3 | 4935.2 | 2662.9 | 2423.3 | 2589.0 | 2886.5 | 2872.0 | 2632.4 | 2463.6 | 2404.0 | 2389.6 |
| 57.5° | 10769.2 | 5158.6 | 2550.4 | 2254.5 | 2463.6 | 2799.7 | 2754.6 | 2576.1 | 2412.1 | 2367.1 | 2362.2 |
| 60° | 11785.5 | 5488.3 | 2387.9 | 2074.4 | 2310.8 | 2666.2 | 2656.5 | 2494.1 | 2330.1 | 2297.9 | 2291.5 |
| 62.5° | 13309.9 | 6033.4 | 2164.5 | 1894.3 | 2140.3 | 2439.4 | 2527.8 | 2383.2 | 2243.3 | 2241.7 | 2244.8 |
| 65° | 15673.8 | 6853.6 | 1921.6 | 1736.7 | 1968.3 | 2248.1 | 2378.3 | 2269.0 | 2154.8 | 2187.0 | 2191.7 |
| 67.5° | 18413.9 | 7533.7 | 1683.7 | 1582.3 | 1792.9 | 2066.4 | 2243.3 | 2154.8 | 2037.4 | 2121.0 | 2122.6 |
| 70° | 19325.6 | 6925.9 | 1474.5 | 1429.6 | 1611.3 | 1891.0 | 2096.9 | 2029.4 | 1910.4 | 1994.0 | 1986.0 |
| 72° | 17984.6 | 5591.2 | 1339.5 | 1313.8 | 1474.5 | 1746.4 | 1966.7 | 1912.0 | 1794.6 | 1850.9 | 1829.9 |
| 72.5° | 17561.6 | 5330.7 | 1305.8 | 1284.9 | 1437.6 | 1709.4 | 1932.9 | 1883.0 | 1765.7 | 1813.9 | 1794.6 |
| 75° | 15665.7 | 4629.6 | 1122.4 | 1127.3 | 1254.3 | 1529.2 | 1743.1 | 1727.1 | 1606.5 | 1611.3 | 1604.9 |
| 77.5° | 11362.6 | 3394.7 | 945.5 | 977.7 | 1067.7 | 1344.3 | 1551.8 | 1542.1 | 1410.3 | 1386.1 | 1381.3 |
| 80° | 5272.8 | 1731.8 | 770.3 | 784.7 | 878.0 | 1124.0 | 1323.4 | 1310.6 | 1204.4 | 1173.8 | 1156.2 |
| 82.5° | 1805.8 | 823.3 | 578.9 | 588.6 | 680.2 | 905.4 | 1148.1 | 1140.1 | 1051.6 | 992.2 | 955.2 |
| 85° | 644.8 | 410.1 | 405.2 | 395.6 | 485.6 | 712.4 | 1000.2 | 956.8 | 826.6 | 704.3 | 701.1 |
| 87.5° | 209.0 | 175.3 | 209.0 | 207.5 | 283.0 | 482.4 | 726.9 | 619.1 | 599.8 | 498.5 | 488.9 |
| 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)