

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: P320494

Luminaire Tested: **GLEON-SA0C-830-U-SLL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320494
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-SA0C-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48890 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

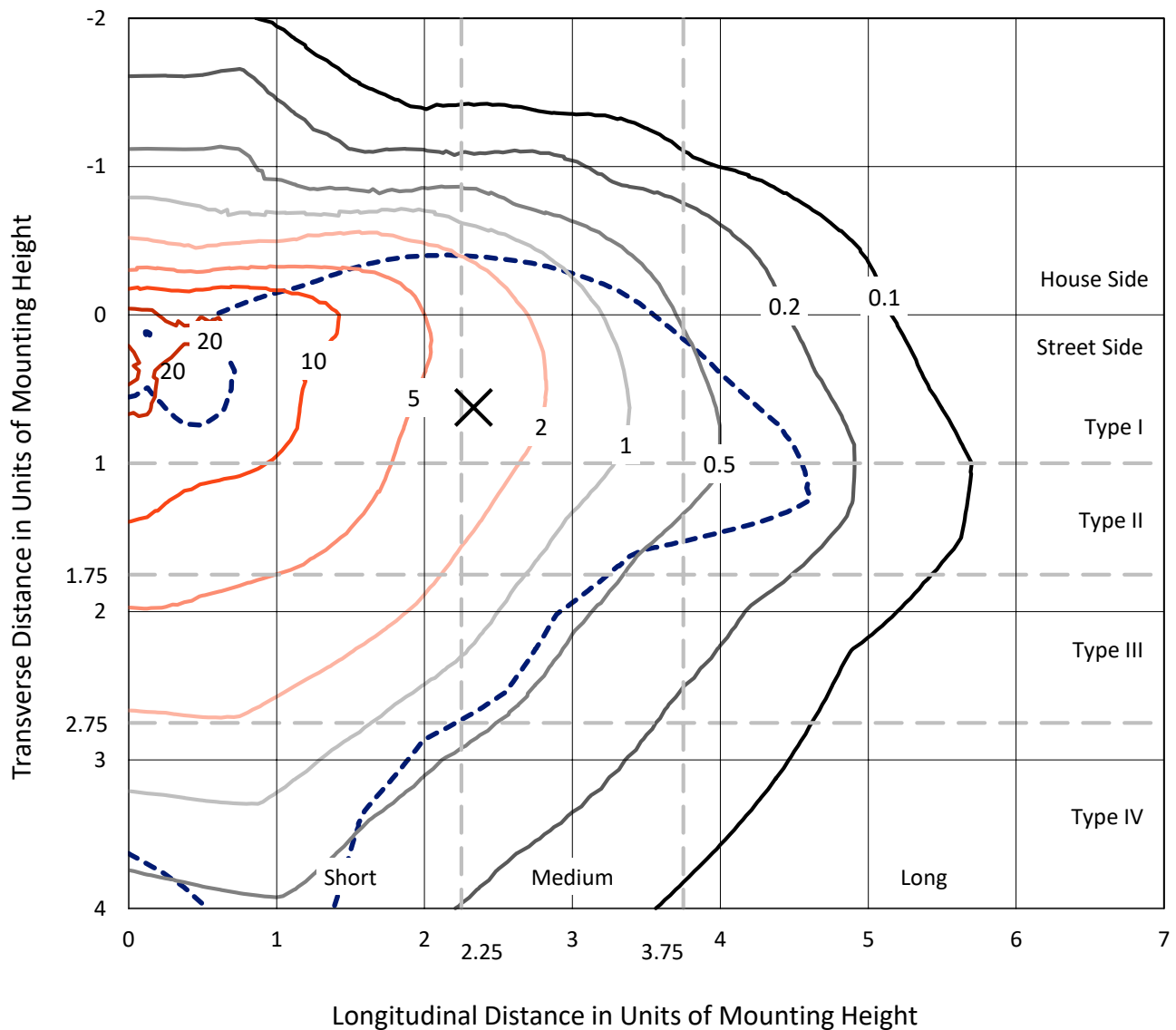
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P320494
 CATALOG NUMBER: GLEON-SA0C-830-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

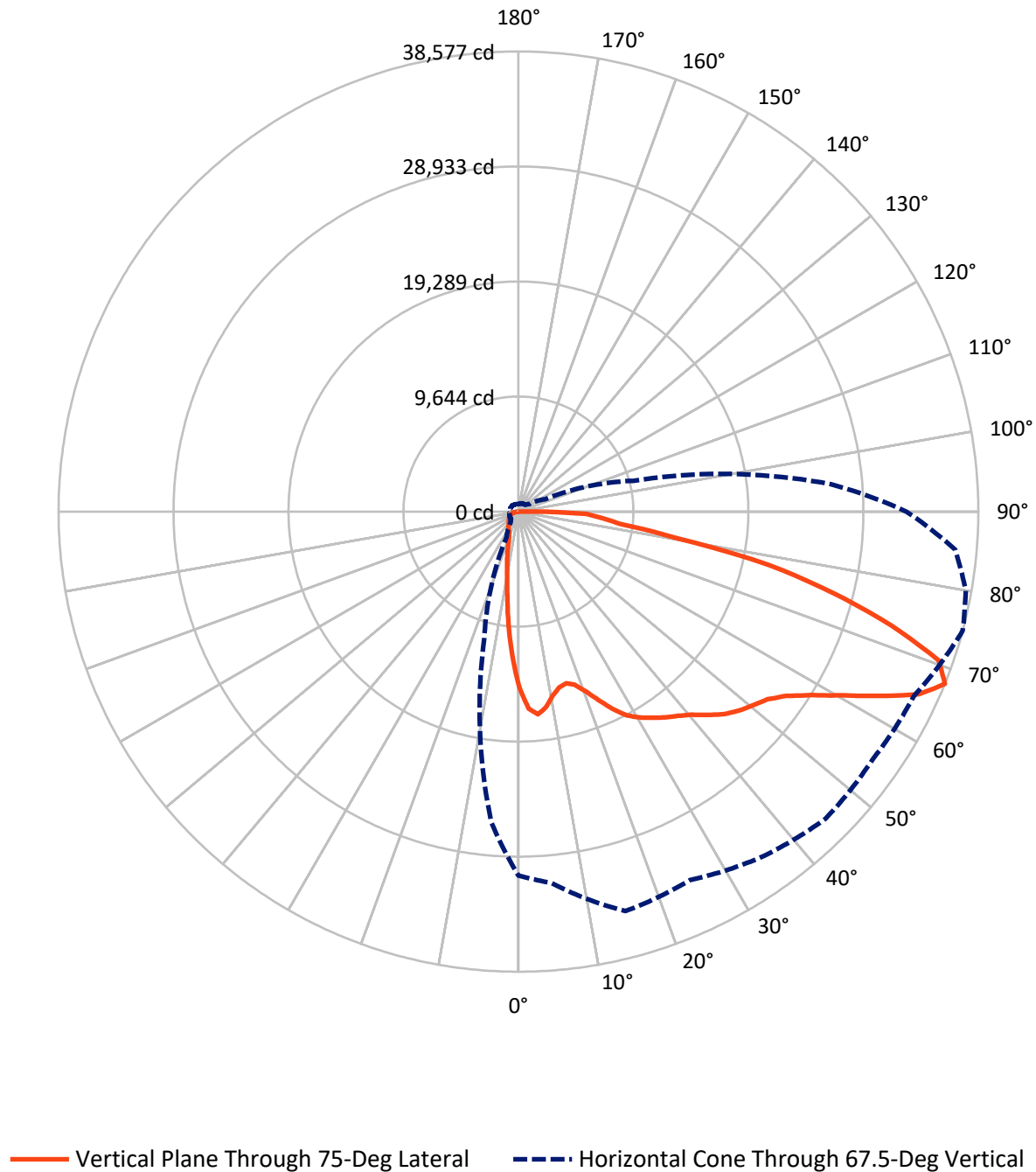
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 30 fc
 Type III - Medium - N/A

REPORT NUMBER: P320494
CATALOG NUMBER: GLEON-SA0C-830-U-SLL

Luminous Intensity Polar Plot



REPORT NUMBER: P320494

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8610.7	0.0	8610.7
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	40279.3	0.0	40279.3
	% Fixture	82.4	0.0	82.4
Total	Lumens	48890.0	0.0	48890.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1149.5	2.4
10°-20°	2388.0	4.9
20°-30°	3396.3	6.9
30°-40°	4894.0	10.0
40°-50°	6897.1	14.1
50°-60°	9588.2	19.6
60°-70°	11594.9	23.7
70°-80°	7127.3	14.6
80°-90°	1854.6	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°	48890.0	100.0
0°-180°	48890.0	100.0

Coefficient of Utilization



REPORT NUMBER: P320494

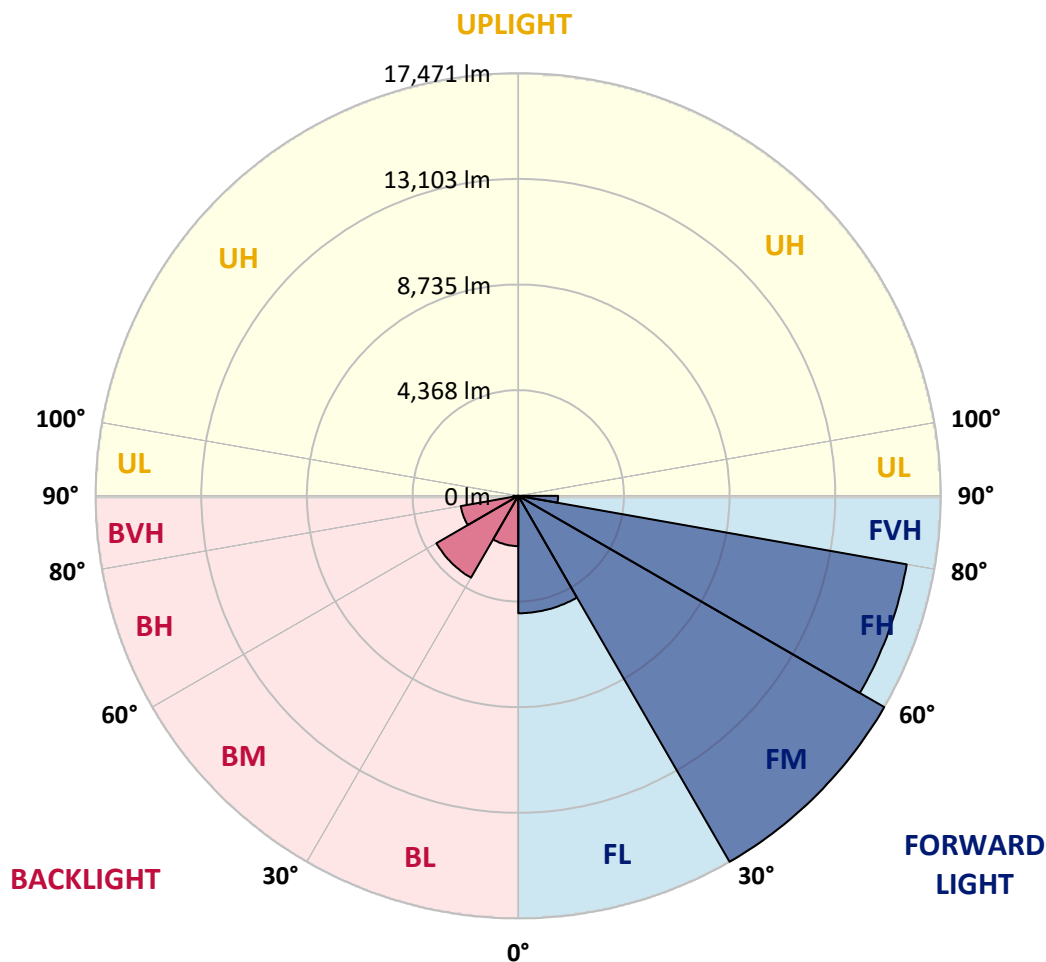
CATALOG NUMBER: GLEON-SA0C-830-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4854.3	9.9			
FM	(30°-60°)	17470.7	35.7			
FH	(60°-80°)	16308.1	33.4			G5
FVH	(80°-90°)	1646.2	3.4			G5
BL	(0°-30°)	2079.6	4.3	B3/2500		
BM	(30°-60°)	3908.6	8.0	B3/5000		
BH	(60°-80°)	2414.1	4.9	B3/2500		G3/2500
BVH	(80°-90°)	208.4	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





REPORT NUMBER: P320494

CATALOG NUMBER: GLEON-SA0C-830-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	14894.6	14894.6	14894.6	14894.6	14894.6	14894.6	14894.6	14894.6	14894.6	14894.6	14894.6
2.5°	15875.8	16085.0	16229.6	16372.3	16483.7	16593.2	16753.5	16913.7	16945.0	16974.3	16911.8
5°	15782.0	16292.2	16726.1	17158.1	17558.8	17959.5	18199.9	18440.3	18489.2	18538.1	18387.6
7.5°	14771.4	15524.0	16276.5	17029.1	17719.1	18409.1	18829.3	19247.6	19343.4	19437.2	19190.9
10°	13622.1	14497.8	15422.3	16346.9	17255.8	18164.7	18772.6	19380.5	19501.7	19622.9	19316.0
12.5°	12748.3	13704.2	14691.3	15678.4	16638.1	17595.9	18225.3	18854.7	19005.2	19155.7	18932.9
15°	12412.1	13459.8	14388.3	15316.8	16153.4	16988.0	17504.0	18018.1	18080.7	18141.3	18106.1
17.5°	12748.3	13903.6	14744.1	15582.6	16038.0	16491.5	16698.7	16904.0	16972.4	17038.8	17128.8
20°	13731.5	14978.6	15570.9	16161.2	16141.6	16120.1	16020.5	15918.8	15901.2	15883.6	16137.7
22.5°	15135.0	16583.4	16819.9	17054.5	16505.2	15956.0	15621.7	15285.5	15219.0	15150.6	15420.4
25°	16782.8	18325.0	18282.0	18237.0	17191.3	16143.6	15506.4	14869.2	14794.9	14720.6	14951.3
27.5°	18575.2	20049.0	19767.6	19486.1	18065.0	16644.0	15719.4	14794.9	14720.6	14646.3	14849.6
30°	19976.7	21313.7	20862.2	20410.6	18801.9	17193.3	16094.7	14996.2	14875.0	14751.9	15002.1
32.5°	21163.2	22300.8	21694.9	21088.9	19400.1	17711.2	16522.8	15334.4	15144.8	14955.2	15289.4
35°	22398.5	23286.0	22433.7	21579.5	19933.7	18285.9	17029.1	15770.3	15537.7	15305.0	15764.4
37.5°	23788.3	24525.2	23301.6	22076.0	20533.8	18991.6	17787.5	16581.4	16343.0	16104.5	16690.9
40°	25256.3	25870.0	24237.9	22605.7	21190.6	19775.4	18837.1	17896.9	17670.2	17441.5	18153.0
42.5°	26540.5	26988.1	25109.7	23231.2	21982.2	20731.2	20070.5	19407.9	19405.9	19402.0	20123.3
45°	27508.0	27897.0	25836.8	23774.6	22754.3	21732.0	21388.0	21044.0	21319.6	21595.2	22248.0
47.5°	28311.4	28575.3	26446.7	24316.1	23637.8	22959.5	23010.3	23061.2	23622.2	24183.1	24603.4
50°	29230.1	29017.0	26999.8	24980.7	24771.5	24562.4	25019.7	25475.2	26120.2	26763.3	27048.7
52.5°	30225.0	29660.1	27750.4	25838.8	26073.3	26307.9	27238.3	28168.7	28819.6	29470.5	29578.0
55°	32013.5	31147.6	29130.4	27111.2	27562.8	28012.3	29378.7	30743.0	31251.2	31759.4	31798.5
57.5°	34028.8	33260.6	31063.6	28866.5	29351.3	29836.0	31413.5	32988.9	33538.2	34085.5	34009.3
60°	34804.8	34842.0	32899.0	30954.1	31442.8	31931.5	33467.8	35004.2	35635.5	36264.9	36096.8
62.5°	34022.9	34939.7	33901.8	32861.9	33305.6	33747.3	35252.4	36757.5	37404.5	38051.5	37758.3
65°	32476.8	33385.7	33850.9	34316.1	34462.7	34609.3	36014.8	37418.2	37914.7	38409.2	38260.7
67.5°	30510.4	31245.4	32961.6	34675.8	34380.6	34085.5	34744.2	35402.9	35913.1	36423.3	36339.2
70°	28233.2	29108.9	31397.8	33686.7	32236.4	30784.1	30512.4	30240.7	30791.9	31341.1	31001.0
72.5°	24149.9	25471.3	27912.7	30352.1	27680.0	25008.0	24079.6	23151.1	23848.9	24546.7	24005.3
75°	18241.0	19994.3	22691.7	25387.2	22199.2	19011.1	17771.8	16532.6	17132.7	17732.7	17361.4
77.5°	12685.8	14884.8	17541.2	20197.6	16956.7	13713.9	12793.3	11870.7	12050.5	12228.4	12165.9
80°	8649.4	10095.9	11948.9	13800.0	11642.0	9484.0	9556.4	9626.7	9542.7	9456.7	9581.8
82.5°	5424.2	6442.6	7873.4	9302.3	8156.8	7011.4	7668.2	8324.9	8002.4	7677.9	7799.1
85°	3055.1	3676.7	5076.3	6473.9	6034.1	5592.3	5977.4	6360.5	5860.1	5359.7	5580.6
87.5°	582.5	969.5	2808.9	4646.2	4218.2	3790.1	3293.6	2797.1	2134.5	1471.9	2150.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320494
 CATALOG NUMBER: GLEON-SA0C-830-U-SLL

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320494

CATALOG NUMBER: GLEON-SA0C-830-U-SLL

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	14894.6	14894.6	14894.6	14894.6	14894.6	14894.6	14894.6	14894.6	14894.6	14894.6	14894.6
2.5°	16849.2	16816.0	16782.8	16663.5	16542.4	16362.5	16214.0	15956.0	15815.2	15602.2	15389.1
5°	18235.1	18024.0	17812.9	17449.3	17083.8	16677.2	16210.1	15692.1	15301.1	14792.9	14284.7
7.5°	18944.6	18452.1	17957.5	17259.7	16559.9	15930.5	15191.7	14503.6	13917.2	13256.6	12595.9
10°	19009.1	18270.3	17529.5	16622.5	15713.6	14949.3	14099.0	13334.7	12631.1	11872.7	11112.3
12.5°	18708.1	17922.3	17134.6	16135.8	15135.0	14267.1	13352.3	12496.2	11716.3	10881.6	10045.0
15°	18070.9	17443.5	16814.1	15877.8	14941.5	14065.8	13178.4	12163.9	11282.3	10428.2	9572.0
17.5°	17216.7	16919.6	16620.5	15944.2	15266.0	14507.5	13647.5	12457.1	11425.0	10496.6	9568.1
20°	16389.9	16499.3	16606.9	16337.1	16067.4	15459.5	14708.9	13371.9	12054.4	10840.6	9624.8
22.5°	15688.2	16214.0	16737.8	16947.0	17154.2	16788.6	16202.2	14656.1	12912.5	11327.3	9742.1
25°	15179.9	16051.7	16923.5	17619.4	18313.3	18151.0	17699.5	16215.9	14050.2	12029.0	10005.9
27.5°	15052.9	16122.1	17191.3	18270.3	19347.3	19497.8	19372.7	17859.8	15406.7	12900.8	10393.0
30°	15252.3	16335.2	17416.1	18729.6	20041.2	20641.3	20809.4	19230.0	16956.7	13917.2	10875.8
32.5°	15623.7	16685.0	17746.4	19177.2	20606.1	21513.1	22048.7	20483.0	18037.7	14683.5	11327.3
35°	16223.7	17216.7	18209.7	19699.1	21188.6	22361.4	23338.7	21777.0	18997.4	15219.0	11438.7
37.5°	17275.4	18129.5	18983.7	20359.8	21733.9	23254.7	24722.6	23201.9	20035.3	15735.1	11432.9
40°	18864.5	19468.5	20070.5	21233.6	22394.6	24308.2	26290.3	24791.0	21182.7	16294.1	11405.5
42.5°	20844.6	21155.4	21464.2	22384.9	23305.5	25408.7	27713.3	26345.0	22277.3	16814.1	11350.8
45°	22898.9	22981.0	23063.1	23643.7	24222.2	26280.5	28682.8	27511.9	23233.2	17265.6	11296.0
47.5°	25021.7	24740.2	24458.8	24689.4	24920.1	26949.0	29374.7	28397.4	24192.9	17766.0	11337.1
50°	27334.1	26550.3	25766.4	25645.2	25524.1	27617.5	30189.8	29523.3	25346.2	18495.1	11644.0
52.5°	29683.6	28391.5	27099.5	26620.6	26139.8	28415.0	31270.8	30924.8	26992.0	19624.9	12255.8
55°	31837.6	30193.8	28549.9	27904.8	27259.8	29634.7	32590.2	32983.1	29101.1	21069.4	13035.7
57.5°	33931.1	32068.3	30205.5	29607.4	29009.2	31427.1	34261.4	34830.2	31231.7	22455.2	13676.8
60°	35928.7	34085.5	32240.3	31761.4	31280.5	33655.5	36067.5	35653.1	32330.2	23104.2	13876.2
62.5°	37465.1	35999.1	34533.1	34281.0	34026.9	35909.2	37455.3	35332.6	31632.4	22465.0	13297.6
65°	38112.1	37277.5	36440.9	36677.4	36911.9	37613.7	37801.3	34394.3	29439.2	20674.5	11909.8
67.5°	36253.2	36423.3	36593.3	37586.3	38577.3	38094.5	36773.2	32545.2	26317.6	18137.4	9957.1
70°	30659.0	31679.3	32697.7	35047.2	37394.7	36323.6	34019.0	29226.2	22560.8	15215.1	7867.5
72.5°	23461.9	24609.3	25754.7	29241.8	32727.0	31739.9	28917.4	24005.3	18088.5	12150.2	6210.0
75°	16988.0	18284.0	19578.0	23424.7	27271.5	25901.3	21630.4	17187.4	13739.4	9274.9	4808.5
77.5°	12101.3	12969.2	13837.1	17637.0	21434.9	19202.7	14398.1	11565.8	9509.5	6446.5	3381.6
80°	9706.9	9441.0	9175.2	11292.1	13409.0	13037.6	9523.1	7427.7	6581.4	4319.8	2058.3
82.5°	7918.4	7269.4	6620.5	7617.3	8614.2	8559.5	6608.7	5449.6	4898.4	3002.4	1106.3
85°	5799.5	5539.5	5279.6	6161.1	7042.7	6290.1	4476.2	3463.7	3819.4	2210.7	602.0
87.5°	2828.4	3231.1	3631.8	4671.7	5709.6	4286.6	1358.5	672.4	930.4	611.8	291.2
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: P320494
 CATALOG NUMBER: GLEON-SA0C-830-U-SLL

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P320494

CATALOG NUMBER: GLEON-SA0C-830-U-SLL

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	14894.6	14894.6	14894.6	14894.6	14894.6	14894.6	14894.6	14894.6	14894.6	14894.6	14894.6
2.5°	15230.8	15070.5	14888.7	14706.9	14499.7	14290.6	14167.4	14042.3	13907.5	13772.6	13620.1
5°	13948.5	13612.3	13231.1	12850.0	12472.7	12095.5	11892.2	11688.9	11473.9	11256.9	11069.3
7.5°	12107.2	11616.6	11088.8	10559.1	10090.0	9618.9	9327.7	9034.5	8768.6	8500.8	8276.1
10°	10486.8	9861.3	9331.6	8799.9	8446.1	8092.3	7824.5	7556.7	7298.7	7038.8	6790.5
12.5°	9419.5	8794.0	8457.8	8121.6	7828.4	7535.2	7226.4	6915.6	6561.8	6206.1	5946.1
15°	9003.2	8434.4	8061.0	7685.8	7292.9	6898.0	6518.8	6139.6	5721.3	5303.0	5007.9
17.5°	8823.4	8078.6	7556.7	7032.9	6514.9	5996.9	5557.1	5117.3	4659.9	4202.5	3903.5
20°	8633.8	7642.8	6943.0	6241.3	5576.7	4912.1	4413.6	3915.2	3506.7	3098.1	2869.5
22.5°	8461.8	7179.5	6301.8	5422.2	4636.5	3850.7	3362.0	2871.4	2621.2	2371.0	2279.1
25°	8391.4	6774.9	5695.9	4616.9	3788.1	2957.4	2609.5	2261.6	2165.8	2068.0	2021.1
27.5°	8403.1	6413.3	5185.7	3956.2	3209.6	2462.9	2224.4	1985.9	1927.3	1866.7	1837.4
30°	8448.1	6020.4	4704.9	3389.4	2773.7	2158.0	2003.5	1847.2	1784.6	1722.1	1684.9
32.5°	8498.9	5668.5	4333.5	2996.5	2494.2	1989.9	1862.8	1733.8	1673.2	1612.6	1575.5
35°	8410.9	5381.2	4079.4	2777.6	2314.3	1849.1	1741.6	1632.1	1565.7	1499.2	1464.0
37.5°	8262.4	5091.9	3882.0	2670.1	2197.0	1722.1	1643.9	1563.7	1495.3	1425.0	1391.7
40°	8127.5	4847.6	3735.4	2621.2	2132.5	1641.9	1575.5	1509.0	1438.6	1366.3	1327.2
42.5°	8018.0	4683.4	3590.7	2498.1	2073.9	1647.8	1554.0	1458.2	1389.8	1321.4	1278.4
45°	7936.0	4575.9	3477.4	2378.8	2019.2	1659.5	1540.3	1421.0	1352.6	1282.3	1231.4
47.5°	7928.1	4519.2	3397.2	2275.2	1915.6	1554.0	1505.1	1456.2	1356.5	1254.9	1196.3
50°	8035.6	4427.3	3303.4	2177.5	1815.9	1454.3	1520.7	1585.2	1415.2	1243.2	1168.9
52.5°	8260.4	4265.1	3154.8	2044.6	1694.7	1342.9	1446.5	1548.1	1401.5	1252.9	1157.2
55°	8532.1	4026.6	2930.0	1831.5	1534.4	1235.3	1327.2	1417.1	1325.3	1231.4	1116.1
57.5°	8702.2	3725.6	2646.6	1567.6	1354.6	1141.5	1194.3	1245.1	1208.0	1170.8	1053.6
60°	8600.5	3324.9	2328.0	1329.2	1196.3	1063.3	1053.6	1041.8	1096.6	1151.3	1016.4
62.5°	8104.1	2910.5	2046.5	1182.6	1082.9	981.2	959.7	936.3	1026.2	1114.2	971.5
65°	7265.5	2621.2	1868.7	1116.1	1004.7	893.3	869.8	846.4	873.7	901.1	834.6
67.5°	6200.2	2443.3	1767.0	1090.7	955.8	819.0	791.6	764.3	758.4	752.5	729.1
70°	5101.7	2333.9	1700.6	1067.2	903.1	736.9	711.5	686.1	678.3	668.5	650.9
72.5°	4265.1	2320.2	1692.7	1065.3	860.1	654.8	631.4	607.9	598.1	586.4	572.7
75°	3493.0	2177.5	1606.7	1036.0	801.4	564.9	543.4	521.9	514.1	504.3	492.6
77.5°	2591.9	1802.2	1350.7	899.1	686.1	473.0	451.5	428.1	426.1	422.2	412.4
80°	1681.0	1303.8	965.6	627.4	500.4	371.4	353.8	334.2	336.2	338.2	330.3
82.5°	934.3	760.4	590.3	420.3	342.1	263.9	256.1	246.3	252.2	256.1	246.3
85°	492.6	383.1	316.7	250.2	197.4	144.6	144.6	142.7	150.5	158.3	150.5
87.5°	213.1	134.9	115.3	93.8	52.8	9.8	11.7	11.7	15.6	19.5	17.6
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: P320494
 CATALOG NUMBER: GLEON-SA0C-830-U-SLL

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320494

CATALOG NUMBER: GLEON-SA0C-830-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	14894.6	14894.6	14894.6	14894.6	14894.6	14894.6	14894.6	14894.6	14894.6	14894.6	14894.6
2.5°	13465.7	13323.0	13178.4	13020.0	13049.4	12928.2	12807.0	12730.8	12654.5	12631.1	12607.6
5°	10881.6	10719.4	10555.2	10408.6	10535.7	10449.7	10363.6	10351.9	10338.2	10338.2	10336.3
7.5°	8051.3	7877.3	7701.4	7580.2	7705.3	7689.7	7674.0	7758.1	7842.1	7910.5	7977.0
10°	6542.3	6331.2	6118.1	5938.3	5907.0	5817.1	5725.2	5744.8	5762.4	5836.6	5910.9
12.5°	5686.1	5434.0	5181.8	4970.7	4874.9	4726.4	4575.9	4482.1	4388.2	4398.0	4405.8
15°	4710.7	4466.4	4220.1	4038.3	3977.7	3862.4	3747.1	3629.8	3510.6	3461.7	3410.9
17.5°	3602.5	3407.0	3209.6	3088.4	3088.4	3055.1	3021.9	2963.3	2902.7	2853.8	2803.0
20°	2640.8	2537.2	2431.6	2380.8	2396.4	2398.4	2398.4	2427.7	2457.0	2441.4	2425.7
22.5°	2185.3	2148.2	2111.0	2089.5	2097.4	2099.3	2101.3	2128.6	2154.0	2173.6	2191.2
25°	1972.3	1948.8	1925.3	1917.5	1935.1	1937.1	1937.1	1954.7	1972.3	1991.8	2011.4
27.5°	1806.1	1796.3	1786.6	1772.9	1790.5	1790.5	1788.5	1808.1	1825.7	1843.3	1858.9
30°	1647.8	1651.7	1653.6	1649.7	1661.5	1669.3	1675.2	1688.8	1700.6	1714.2	1727.9
32.5°	1536.4	1530.5	1524.6	1520.7	1546.1	1559.8	1573.5	1587.2	1598.9	1604.8	1610.6
35°	1428.9	1415.2	1401.5	1391.7	1415.2	1432.8	1450.4	1475.8	1499.2	1503.1	1507.0
37.5°	1356.5	1338.9	1321.4	1309.6	1319.4	1327.2	1335.0	1362.4	1389.8	1405.4	1419.1
40°	1288.1	1270.5	1252.9	1243.2	1249.0	1251.0	1252.9	1266.6	1278.4	1307.7	1335.0
42.5°	1233.4	1211.9	1190.4	1178.7	1182.6	1186.5	1188.4	1186.5	1184.5	1211.9	1239.3
45°	1178.7	1155.2	1131.8	1118.1	1120.0	1120.0	1120.0	1116.1	1110.3	1123.9	1137.6
47.5°	1135.7	1108.3	1080.9	1067.2	1063.3	1059.4	1055.5	1053.6	1049.7	1059.4	1067.2
50°	1092.7	1063.3	1032.1	1016.4	1006.7	1002.7	998.8	996.9	993.0	1002.7	1010.6
52.5°	1059.4	1024.2	989.1	963.7	953.9	948.0	942.1	944.1	944.1	948.0	950.0
55°	1000.8	969.5	936.3	918.7	901.1	897.2	893.3	899.1	903.1	903.1	903.1
57.5°	936.3	907.0	875.7	864.0	848.3	848.3	846.4	854.2	860.1	864.0	867.9
60°	879.6	846.4	813.1	803.4	797.5	795.5	793.6	803.4	811.2	819.0	826.8
62.5°	826.8	791.6	756.5	744.7	742.8	744.7	744.7	754.5	762.3	770.1	778.0
65°	768.2	733.0	695.9	684.1	688.0	693.9	699.8	707.6	713.5	721.3	729.1
67.5°	703.7	674.4	643.1	631.4	633.3	641.1	648.9	654.8	658.7	666.5	674.4
70°	633.3	607.9	582.5	574.7	572.7	582.5	590.3	594.2	598.1	607.9	615.7
72.5°	557.1	535.6	514.1	508.2	510.2	516.0	521.9	527.8	531.7	541.4	549.3
75°	478.9	459.3	439.8	435.9	439.8	445.7	451.5	455.4	459.3	471.1	480.8
77.5°	402.7	381.2	357.7	355.7	361.6	367.5	371.4	377.3	383.1	398.8	414.4
80°	322.5	299.1	273.7	271.7	277.6	283.4	289.3	295.2	301.0	320.6	338.2
82.5°	236.5	209.1	181.8	177.9	197.4	203.3	209.1	218.9	226.7	244.3	261.9
85°	142.7	115.3	88.0	86.0	103.6	113.4	123.1	134.9	144.6	160.3	175.9
87.5°	15.6	7.8	0.0	0.0	2.0	9.8	17.6	27.4	37.1	52.8	66.5
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: P320494
 CATALOG NUMBER: GLEON-SA0C-830-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P320494

CATALOG NUMBER: GLEON-SA0C-830-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	14894.6	14894.6	14894.6	14894.6	14894.6	14894.6	14894.6	14894.6	14894.6	14894.6	14894.6
2.5°	12521.6	12433.6	12523.6	12611.5	12648.7	12685.8	12590.0	12492.3	12644.7	12795.3	12834.3
5°	10258.1	10178.0	10238.5	10297.2	10166.2	10035.3	10021.6	10005.9	10119.3	10232.7	10250.3
7.5°	7951.6	7926.2	7982.9	8039.5	7873.4	7705.3	7623.2	7541.1	7568.5	7595.8	7591.9
10°	5928.5	5944.1	6014.5	6082.9	5953.9	5824.9	5768.2	5711.5	5774.1	5834.7	5891.4
12.5°	4441.0	4474.2	4548.5	4620.8	4568.1	4513.3	4519.2	4525.1	4597.4	4667.7	4730.3
15°	3450.0	3489.1	3541.9	3592.7	3594.6	3594.6	3645.5	3694.3	3688.5	3682.6	3725.6
17.5°	2855.8	2906.6	2912.5	2918.3	2920.3	2922.2	2918.3	2914.4	2885.1	2855.8	2889.0
20°	2445.3	2462.9	2478.5	2492.2	2474.6	2455.1	2406.2	2357.3	2337.8	2318.2	2349.5
22.5°	2224.4	2255.7	2240.0	2222.5	2187.3	2150.1	2113.0	2073.9	2071.9	2068.0	2085.6
25°	2038.7	2064.1	2036.8	2009.4	1984.0	1958.6	1933.2	1907.8	1905.8	1903.8	1911.7
27.5°	1884.3	1907.8	1882.3	1856.9	1835.4	1813.9	1794.4	1774.8	1770.9	1767.0	1769.0
30°	1751.4	1772.9	1751.4	1727.9	1712.3	1694.7	1681.0	1667.3	1665.4	1663.4	1663.4
32.5°	1632.1	1653.6	1638.0	1622.4	1608.7	1595.0	1585.2	1575.5	1565.7	1555.9	1534.4
35°	1528.6	1550.1	1540.3	1528.6	1512.9	1497.3	1479.7	1460.1	1434.7	1407.4	1395.6
37.5°	1440.6	1462.1	1452.3	1442.5	1421.0	1399.5	1368.3	1335.0	1327.2	1317.4	1315.5
40°	1370.2	1403.5	1383.9	1362.4	1329.2	1295.9	1280.3	1264.7	1260.8	1256.9	1252.9
42.5°	1292.0	1342.9	1307.7	1272.5	1241.2	1209.9	1206.0	1202.1	1200.2	1198.2	1198.2
45°	1194.3	1249.0	1213.8	1176.7	1159.1	1141.5	1141.5	1141.5	1143.5	1143.5	1147.4
47.5°	1102.4	1135.7	1118.1	1100.5	1090.7	1080.9	1082.9	1084.8	1090.7	1094.6	1104.4
50°	1024.2	1036.0	1039.9	1041.8	1036.0	1030.1	1034.0	1036.0	1041.8	1045.7	1053.6
52.5°	967.6	985.2	985.2	983.2	983.2	983.2	987.1	991.0	996.9	1002.7	1010.6
55°	930.4	955.8	948.0	940.2	942.1	942.1	946.1	950.0	955.8	959.7	971.5
57.5°	895.2	922.6	914.8	907.0	907.0	907.0	908.9	910.9	916.7	920.6	928.5
60°	854.2	881.6	873.7	864.0	865.9	867.9	869.8	869.8	873.7	875.7	875.7
62.5°	805.3	832.7	824.9	815.1	821.0	824.9	824.9	824.9	828.8	830.7	824.9
65°	754.5	779.9	772.1	764.3	772.1	778.0	781.9	783.8	781.9	779.9	774.0
67.5°	699.8	725.2	717.4	707.6	717.4	725.2	733.0	738.9	733.0	727.1	719.3
70°	641.1	666.5	656.8	647.0	656.8	666.5	674.4	682.2	674.4	666.5	664.6
72.5°	578.6	607.9	596.2	584.4	596.2	607.9	611.8	615.7	609.9	604.0	600.1
75°	510.2	539.5	529.7	518.0	527.8	537.5	539.5	541.4	541.4	539.5	527.8
77.5°	437.8	461.3	455.4	449.6	455.4	461.3	461.3	461.3	463.3	463.3	447.6
80°	351.8	365.5	367.5	369.4	371.4	373.3	371.4	369.4	365.5	361.6	351.8
82.5°	261.9	261.9	277.6	291.2	291.2	289.3	287.3	283.4	275.6	265.8	244.3
85°	166.1	156.4	181.8	205.2	205.2	203.3	199.4	193.5	177.9	160.3	142.7
87.5°	56.7	46.9	72.3	97.7	99.7	99.7	95.8	91.9	76.2	58.6	45.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320494
 CATALOG NUMBER: GLEON-SA0C-830-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P320494

CATALOG NUMBER: GLEON-SA0C-830-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	14894.6	14894.6	14894.6	14894.6	14894.6	14894.6	14894.6	14894.6	14894.6	14894.6	14894.6
2.5°	12893.0	12918.4	12941.9	13133.4	13323.0	13545.8	13768.7	13938.7	14106.8	14280.8	14454.8
5°	10310.9	10342.1	10373.4	10606.0	10836.7	11147.5	11458.3	11726.1	11993.8	12308.5	12623.2
7.5°	7642.8	7711.2	7777.6	8025.9	8272.2	8606.4	8938.7	9288.6	9636.5	10047.0	10457.5
10°	6002.8	6131.8	6258.8	6513.0	6767.1	7097.4	7425.8	7791.3	8156.8	8561.4	8964.1
12.5°	4859.3	5031.3	5201.4	5506.3	5811.2	6206.1	6599.0	7005.5	7410.1	7765.9	8121.6
15°	3839.0	4026.6	4212.3	4534.8	4857.3	5291.3	5723.3	6167.0	6608.7	7034.8	7461.0
17.5°	2994.6	3149.0	3301.4	3575.1	3846.8	4267.0	4687.3	5152.5	5617.7	6137.7	6655.6
20°	2416.0	2480.5	2545.0	2742.4	2937.9	3279.9	3620.0	4095.0	4570.0	5191.6	5813.2
22.5°	2116.9	2150.1	2181.4	2277.2	2371.0	2591.9	2810.8	3231.1	3649.4	4327.6	5003.9
25°	1937.1	1962.5	1987.9	2050.4	2113.0	2218.5	2324.1	2619.3	2914.4	3581.0	4245.5
27.5°	1774.8	1813.9	1851.1	1880.4	1907.8	1980.1	2050.4	2244.0	2437.5	3059.1	3678.7
30°	1657.6	1671.2	1684.9	1729.9	1772.9	1847.2	1921.4	2056.3	2191.2	2717.0	3240.8
32.5°	1520.7	1540.3	1559.8	1606.7	1653.6	1722.1	1790.5	1899.9	2007.4	2457.0	2904.6
35°	1397.6	1417.1	1436.7	1483.6	1528.6	1602.8	1675.2	1767.0	1856.9	2247.9	2638.8
37.5°	1321.4	1340.9	1360.4	1401.5	1440.6	1514.9	1587.2	1659.5	1729.9	2091.5	2453.1
40°	1256.9	1276.4	1295.9	1335.0	1372.2	1444.5	1514.9	1575.5	1636.1	1974.2	2312.4
42.5°	1200.2	1221.7	1243.2	1282.3	1319.4	1383.9	1448.4	1528.6	1606.7	1872.6	2136.5
45°	1153.3	1174.8	1194.3	1237.3	1280.3	1342.9	1405.4	1516.8	1628.2	1819.8	2011.4
47.5°	1110.3	1133.7	1155.2	1202.1	1249.0	1327.2	1403.5	1497.3	1589.1	1778.7	1968.4
50°	1069.2	1096.6	1123.9	1180.6	1235.3	1366.3	1495.3	1509.0	1520.7	1745.5	1968.4
52.5°	1030.1	1061.4	1092.7	1163.0	1231.4	1383.9	1536.4	1487.5	1436.7	1683.0	1929.3
55°	991.0	1018.4	1043.8	1129.8	1215.8	1327.2	1438.6	1374.1	1307.7	1565.7	1823.7
57.5°	938.2	967.6	994.9	1086.8	1178.7	1256.9	1333.1	1274.4	1213.8	1432.8	1649.7
60°	883.5	916.7	950.0	1067.2	1182.6	1168.9	1153.3	1141.5	1127.8	1284.2	1440.6
62.5°	834.6	869.8	905.0	1057.5	1209.9	1116.1	1022.3	1032.1	1039.9	1155.2	1270.5
65°	785.8	821.0	854.2	930.4	1006.7	969.5	932.4	948.0	961.7	1075.1	1188.4
67.5°	731.0	762.3	791.6	817.1	842.5	846.4	850.3	865.9	881.6	1016.4	1149.3
70°	670.5	695.9	721.3	738.9	754.5	762.3	768.2	787.7	807.3	953.9	1100.5
72.5°	602.0	623.5	643.1	658.7	674.4	680.2	684.1	703.7	723.2	879.6	1036.0
75°	527.8	545.4	561.0	574.7	588.4	596.2	604.0	617.7	631.4	801.4	969.5
77.5°	445.7	463.3	478.9	490.6	500.4	508.2	514.1	531.7	549.3	692.0	832.7
80°	347.9	369.4	389.0	398.8	406.6	408.5	408.5	424.2	439.8	541.4	641.1
82.5°	246.3	269.7	291.2	299.1	306.9	306.9	306.9	324.5	342.1	410.5	476.9
85°	144.6	170.1	193.5	201.3	209.1	213.1	215.0	222.8	228.7	277.6	324.5
87.5°	45.0	66.5	86.0	89.9	93.8	101.6	109.5	111.4	111.4	144.6	177.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320494
 CATALOG NUMBER: GLEON-SA0C-830-U-SLL

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P320494

CATALOG NUMBER: GLEON-SA0C-830-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	14894.6	14894.6	14894.6	14894.6	14894.6	14894.6	14894.6
2.5°	14654.1	14853.5	15086.1	15316.8	15514.2	15711.6	15875.8
5°	13024.0	13424.7	13915.3	14403.9	14839.8	15275.7	15782.0
7.5°	10975.5	11493.4	12128.7	12764.0	13379.7	13993.5	14771.4
10°	9491.9	10017.7	10690.1	11360.5	12052.5	12742.5	13622.1
12.5°	8549.7	8975.8	9626.7	10277.6	11090.8	11902.0	12748.3
15°	7928.1	8393.3	9026.7	9660.0	10549.3	11438.7	12412.1
17.5°	7265.5	7873.4	8684.6	9495.8	10549.3	11601.0	12748.3
20°	6571.6	7328.0	8379.7	9431.3	10850.4	12267.5	13731.5
22.5°	5879.6	6755.3	8104.1	9450.8	11305.8	13158.8	15135.0
25°	5256.1	6266.7	7936.0	9603.3	11968.4	14331.6	16782.8
27.5°	4783.1	5885.5	7867.5	9847.6	12808.9	15770.3	18575.2
30°	4362.8	5484.8	7785.4	10086.1	13618.2	17148.3	19976.7
32.5°	3999.3	5093.9	7627.1	10158.4	14183.1	18207.7	21163.2
35°	3713.9	4788.9	7361.3	9933.6	14536.9	19140.1	22398.5
37.5°	3467.6	4482.1	7058.3	9634.6	14851.6	20068.6	23788.3
40°	3233.0	4153.7	6798.3	9441.0	15285.5	21130.0	25256.3
42.5°	3010.2	3883.9	6589.2	9294.4	15688.2	22079.9	26540.5
45°	2844.0	3676.7	6403.5	9128.3	15948.1	22768.0	27508.0
47.5°	2761.9	3553.6	6303.8	9052.1	16208.1	23362.2	28311.4
50°	2750.2	3532.1	6417.2	9302.3	16771.0	24237.9	29230.1
52.5°	2748.3	3567.3	6743.6	9919.9	17816.8	25711.7	30225.0
55°	2707.2	3588.8	7132.6	10674.4	19220.2	27764.1	32013.5
57.5°	2582.1	3514.5	7533.3	11550.1	20703.8	29855.6	34028.8
60°	2388.6	3334.7	7863.6	12390.6	21700.7	31008.8	34804.8
62.5°	2146.2	3020.0	7973.1	12924.3	21673.4	30422.4	34022.9
65°	1939.0	2689.6	7613.4	12535.3	20576.8	28616.3	32476.8
67.5°	1755.3	2359.3	6714.3	11067.3	18604.5	26139.8	30510.4
70°	1622.4	2142.3	5555.2	8968.0	16135.8	23301.6	28233.2
72.5°	1538.3	2038.7	4529.0	7017.3	13094.3	19169.4	24149.9
75°	1423.0	1876.5	3553.6	5228.7	10021.6	14814.4	18241.0
77.5°	1208.0	1581.3	2677.9	3774.5	7353.5	10930.5	12685.8
80°	932.4	1221.7	1841.3	2460.9	5060.6	7660.3	8649.4
82.5°	664.6	852.2	1116.1	1380.0	3362.0	5342.1	5424.2
85°	410.5	496.5	639.2	781.9	2224.4	3667.0	3055.1
87.5°	220.9	263.9	338.2	410.5	711.5	1012.5	582.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320494
 CATALOG NUMBER: GLEON-SA0C-830-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

Luminaire Tested: GALN-SB1A-830-U-5WQ

Data in this report applies to families of products including GALN-SB1A-830-U-5WQ.

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2408-195-9
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/07/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: MCGRAW EDISON
 Catalog Number: **GALN-SB1A-830-U-5WQ**
 Description: GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K): 3050
 CIE u' : 0.2476
 CIE v' : 0.5251
 Duv: 0.0034
 CIE x: 0.4383
 CIE y: 0.4131
 CIE z: 0.1487
 Peak Wavelength (nm): 603
 Dominant Wavelength (nm): 581
 Purity: 55.55201
 R_f: 81.5
 R_g: 99.2

CRI (Ra): 81.0
 R1: 79.6
 R2: 85.6
 R3: 92.0
 R4: 82.6
 R5: 78.9
 R6: 81.7
 R7: 85.2
 R8: 62.0
 R9: 7.1
 R10: 67.0
 R11: 82.7
 R12: 63.2
 R13: 80.3
 R14: 95.0
 R15: 71.7



Test Conditions

Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

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

REPORT NUMBER: SP1-2408-195-9

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power W [^] /nm	Lumens (Φ/nm)	λ (nm)	Power W [^] /nm	Lumens (Φ/nm)	λ (nm)	Power W [^] /nm	Lumens (Φ/nm)	λ (nm)	Power W [^] /nm	Lumens (Φ/nm)	λ (nm)	Power W [^] /nm	Lumens (Φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.32

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

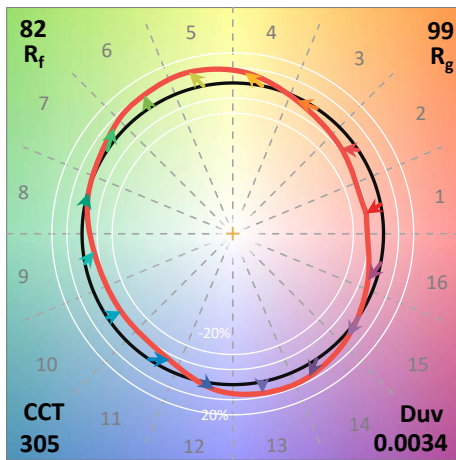
TM-30-18

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE\ R_a = 81.0$
 $R_g = 7.1$



Color Vector Graphics



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

CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 94
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)