

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: P320479

Luminaire Tested: **GLEON-SA5B-830-U-SLL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320479
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-SA5B-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA 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: 19946 lumens
Efficiency: N/A
Efficacy: 95.0 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): 210
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

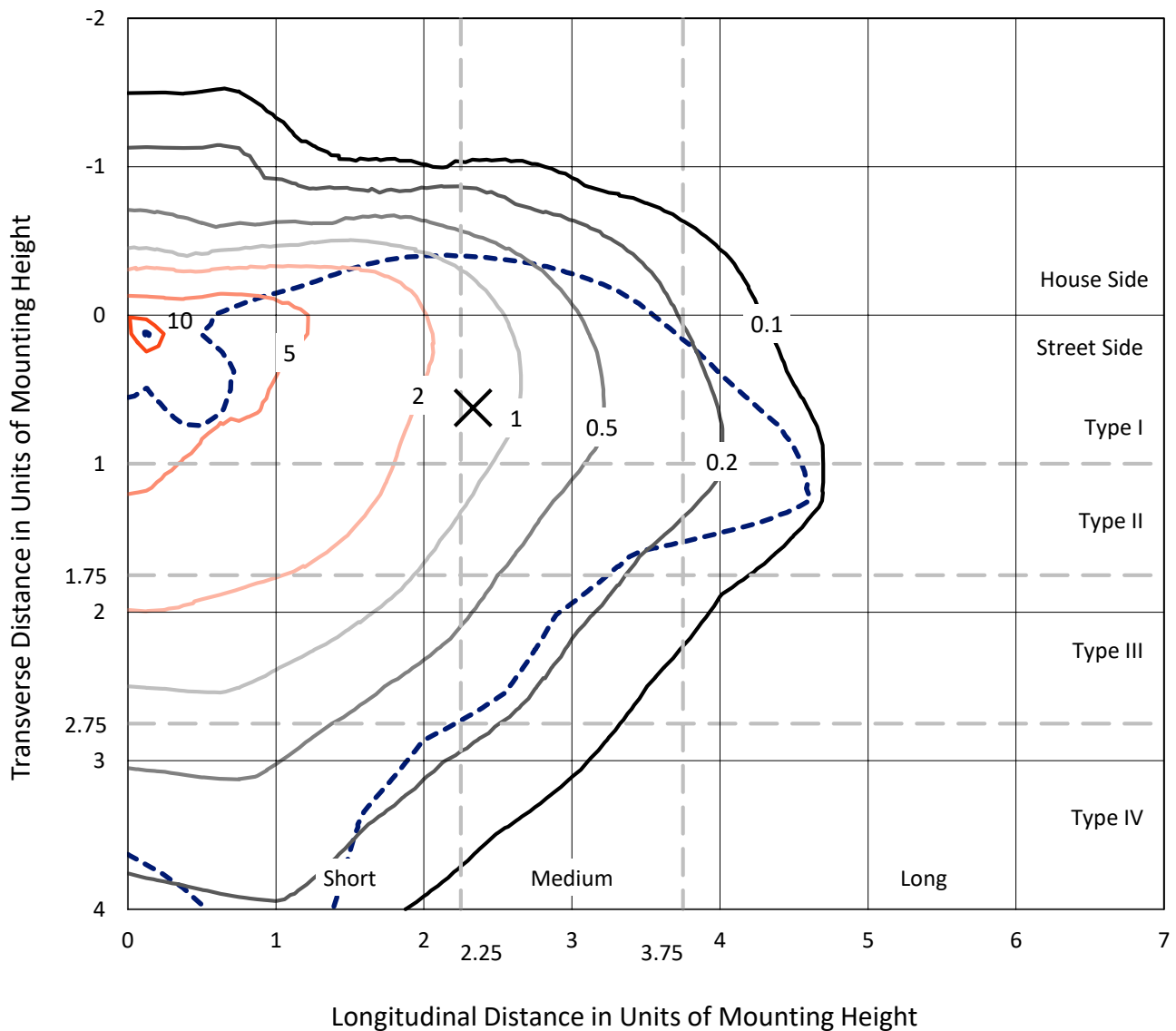


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Iso-Footcandle Lines of Horizontal Illumination

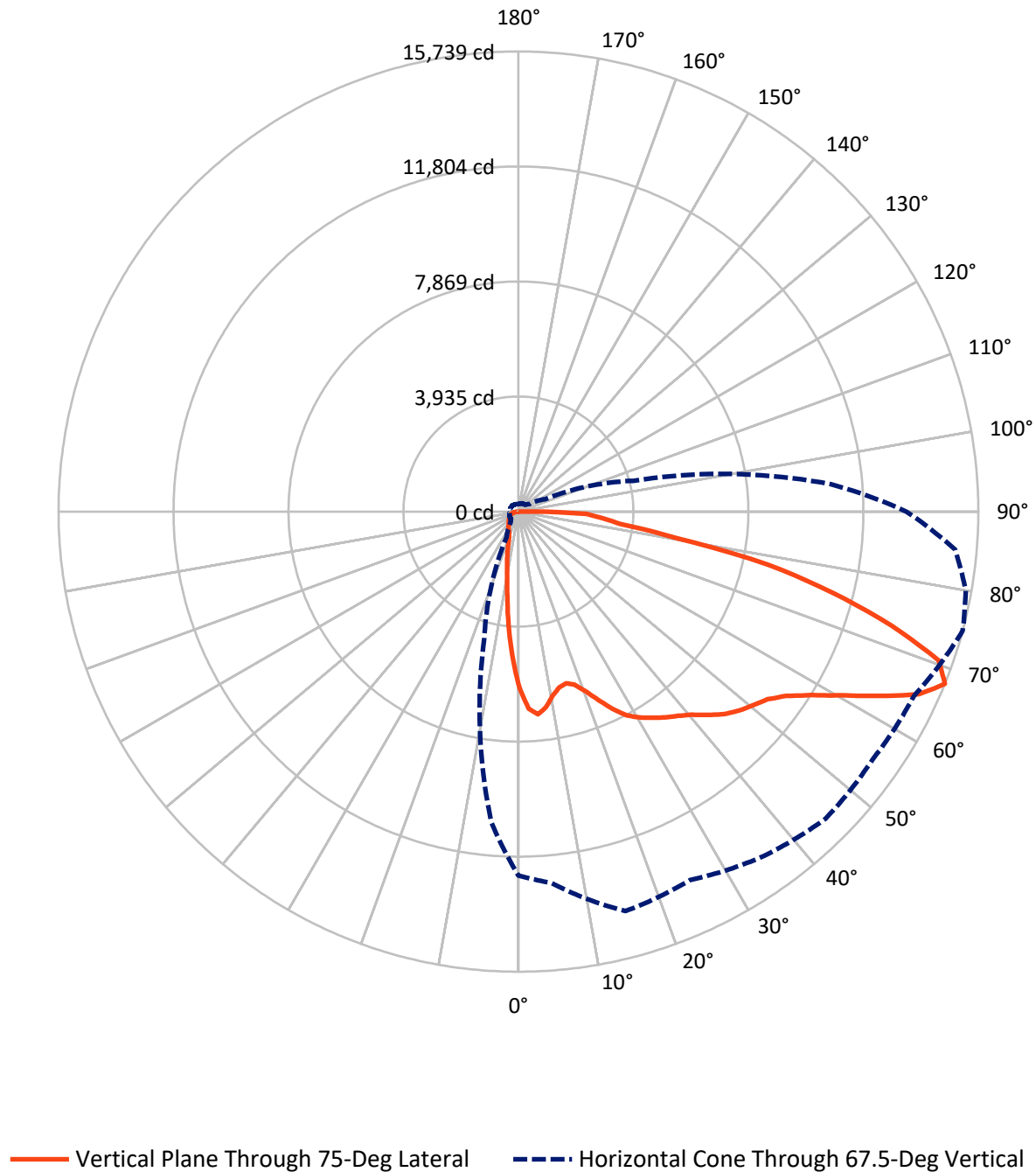
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3513.0	0.0	3513.0
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	16433.0	0.0	16433.0
	% Fixture	82.4	0.0	82.4
Total	Lumens	19946.0	0.0	19946.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.0	2.4
10°-20°	974.3	4.9
20°-30°	1385.6	6.9
30°-40°	1996.7	10.0
40°-50°	2813.9	14.1
50°-60°	3911.8	19.6
60°-70°	4730.5	23.7
70°-80°	2907.8	14.6
80°-90°	756.6	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°	19946.0	100.0
0°-180°	19946.0	100.0

Coefficient of Utilization



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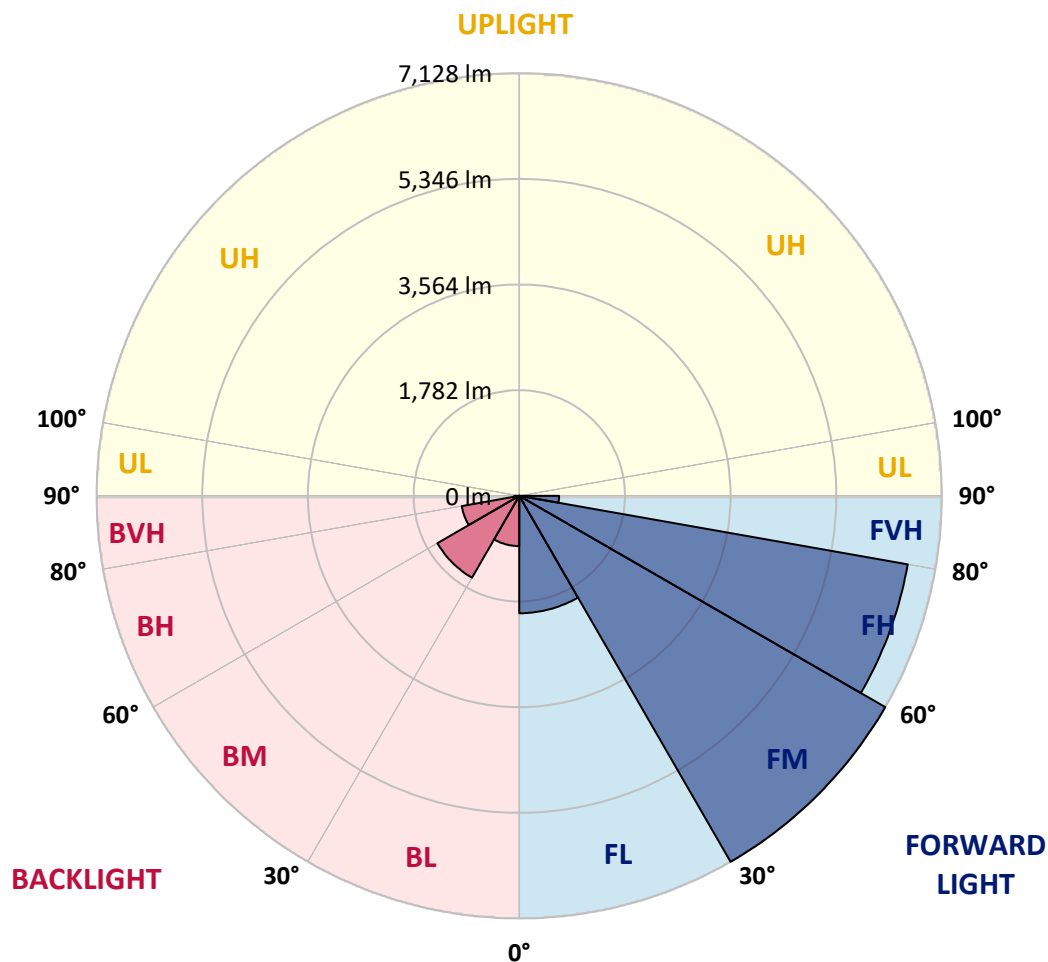
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1980.4	9.9			
FM	(30°-60°)	7127.6	35.7			
FH	(60°-80°)	6653.3	33.4			G3/7500
FVH	(80°-90°)	671.6	3.4			G4/750
BL	(0°-30°)	848.4	4.3	B2/1000		
BM	(30°-60°)	1594.6	8.0	B2/2500		
BH	(60°-80°)	984.9	4.9	B2/1000		G2/1000
BVH	(80°-90°)	85.0	0.4			G1/100
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6
2.5°	6477.0	6562.3	6621.3	6679.5	6725.0	6769.6	6835.0	6900.4	6913.2	6925.1	6899.6
5°	6438.7	6646.8	6823.9	7000.1	7163.6	7327.1	7425.1	7523.2	7543.2	7563.1	7501.7
7.5°	6026.4	6333.4	6640.4	6947.5	7229.0	7510.5	7681.9	7852.6	7891.7	7929.9	7829.5
10°	5557.5	5914.8	6292.0	6669.2	7040.0	7410.8	7658.8	7906.8	7956.3	8005.7	7880.5
12.5°	5201.0	5591.0	5993.7	6396.4	6788.0	7178.7	7435.5	7692.3	7753.7	7815.1	7724.2
15°	5063.9	5491.3	5870.1	6248.9	6590.2	6930.7	7141.3	7351.0	7376.5	7401.2	7386.9
17.5°	5201.0	5672.3	6015.2	6357.3	6543.2	6728.2	6812.7	6896.4	6924.3	6951.5	6988.1
20°	5602.2	6110.9	6352.6	6593.4	6585.4	6576.6	6536.0	6494.5	6487.3	6480.2	6583.8
22.5°	6174.7	6765.6	6862.1	6957.8	6733.7	6509.7	6373.3	6236.1	6209.0	6181.1	6291.2
25°	6847.0	7476.2	7458.6	7440.3	7013.7	6586.2	6326.2	6066.3	6036.0	6005.7	6099.8
27.5°	7578.3	8179.5	8064.7	7949.9	7370.1	6790.4	6413.2	6036.0	6005.7	5975.4	6058.3
30°	8150.0	8695.5	8511.3	8327.1	7670.8	7014.5	6566.3	6118.1	6068.7	6018.4	6120.5
32.5°	8634.1	9098.2	8851.0	8603.8	7914.8	7225.8	6740.9	6256.1	6178.7	6101.4	6237.7
35°	9138.1	9500.1	9152.4	8804.0	8132.5	7460.2	6947.5	6433.9	6339.0	6244.1	6431.5
37.5°	9705.1	10005.7	9506.5	9006.5	8377.3	7748.1	7256.9	6764.9	6667.6	6570.3	6809.5
40°	10304.0	10554.4	9888.5	9222.6	8645.3	8067.9	7685.1	7301.5	7209.0	7115.7	7406.0
42.5°	10827.9	11010.5	10244.2	9477.8	8968.2	8457.9	8188.3	7918.0	7917.2	7915.6	8209.8
45°	11222.6	11381.3	10540.8	9699.5	9283.2	8866.2	8725.8	8585.5	8697.9	8810.3	9076.7
47.5°	11550.4	11658.1	10789.6	9920.4	9643.7	9367.0	9387.7	9408.4	9637.3	9866.2	10037.6
50°	11925.2	11838.3	11015.3	10191.5	10106.2	10020.9	10207.5	10393.3	10656.5	10918.8	11035.2
52.5°	12331.1	12100.7	11321.5	10541.6	10637.3	10733.0	11112.6	11492.2	11757.7	12023.3	12067.2
55°	13060.8	12707.5	11884.5	11060.8	11245.0	11428.4	11985.8	12542.4	12749.8	12957.1	12973.1
57.5°	13883.0	13569.6	12673.2	11776.9	11974.7	12172.4	12816.0	13458.7	13682.8	13906.1	13875.0
60°	14199.6	14214.7	13422.0	12628.6	12827.9	13027.3	13654.1	14280.9	14538.5	14795.3	14726.7
62.5°	13880.6	14254.6	13831.1	13406.9	13587.9	13768.1	14382.2	14996.2	15260.2	15524.1	15404.5
65°	13249.8	13620.6	13810.4	14000.2	14060.0	14119.8	14693.2	15265.8	15468.3	15670.1	15609.5
67.5°	12447.5	12747.4	13447.6	14146.9	14026.5	13906.1	14174.8	14443.6	14651.7	14859.9	14825.6
70°	11518.5	11875.8	12809.6	13743.4	13151.7	12559.2	12448.3	12337.5	12562.4	12786.5	12647.7
72.5°	9852.6	10391.7	11387.7	12383.0	11292.8	10202.7	9823.9	9445.1	9729.8	10014.5	9793.6
75°	7441.9	8157.2	9257.7	10357.4	9056.7	7756.1	7250.5	6744.9	6989.7	7234.6	7083.0
77.5°	5175.5	6072.7	7156.4	8240.2	6918.0	5595.0	5219.4	4843.0	4916.3	4988.9	4963.4
80°	3528.8	4118.9	4874.9	5630.1	4749.7	3869.3	3898.8	3927.5	3893.2	3858.1	3909.1
82.5°	2213.0	2628.4	3212.2	3795.1	3327.8	2860.5	3128.4	3396.4	3264.8	3132.4	3181.9
85°	1246.4	1500.0	2071.0	2641.2	2461.8	2281.5	2438.6	2594.9	2390.8	2186.6	2276.7
87.5°	237.6	395.5	1145.9	1895.6	1720.9	1546.3	1343.7	1141.2	870.8	600.5	877.2
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



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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°	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6
2.5°	6874.1	6860.5	6847.0	6798.3	6748.9	6675.5	6614.9	6509.7	6452.2	6365.3	6278.4
5°	7439.5	7353.4	7267.2	7118.9	6969.8	6803.9	6613.3	6402.0	6242.5	6035.2	5827.8
7.5°	7729.0	7528.0	7326.3	7041.6	6756.1	6499.3	6197.9	5917.2	5677.9	5408.4	5138.8
10°	7755.3	7453.9	7151.6	6781.6	6410.8	6099.0	5752.1	5440.3	5153.2	4843.8	4533.6
12.5°	7632.5	7311.9	6990.5	6583.0	6174.7	5820.7	5447.4	5098.2	4780.0	4439.5	4098.1
15°	7372.5	7116.5	6859.7	6477.8	6095.8	5738.5	5376.5	4962.6	4602.9	4254.4	3905.2
17.5°	7024.0	6902.8	6780.8	6504.9	6228.2	5918.7	5567.9	5082.2	4661.2	4282.4	3903.6
20°	6686.7	6731.4	6775.2	6665.2	6555.1	6307.1	6000.9	5455.4	4917.9	4422.7	3926.7
22.5°	6400.4	6614.9	6828.6	6914.0	6998.5	6849.4	6610.1	5979.4	5268.0	4621.3	3974.5
25°	6193.1	6548.7	6904.4	7188.3	7471.4	7405.2	7221.0	6615.7	5732.1	4907.6	4082.2
27.5°	6141.2	6577.4	7013.7	7453.9	7893.3	7954.7	7903.6	7286.4	6285.6	5263.2	4240.1
30°	6222.6	6664.4	7105.4	7641.3	8176.4	8421.2	8489.8	7845.4	6918.0	5677.9	4437.1
32.5°	6374.1	6807.1	7240.1	7823.9	8406.8	8776.8	8995.3	8356.6	7359.0	5990.5	4621.3
35°	6618.9	7024.0	7429.1	8036.8	8644.5	9122.9	9521.7	8884.5	7750.5	6209.0	4666.7
37.5°	7047.9	7396.4	7744.9	8306.3	8867.0	9487.4	10086.3	9465.8	8174.0	6419.5	4664.3
40°	7696.3	7942.7	8188.3	8662.8	9136.5	9917.2	10725.8	10114.2	8642.1	6647.6	4653.2
42.5°	8504.1	8630.9	8756.9	9132.5	9508.1	10366.2	11306.4	10748.2	9088.6	6859.7	4630.8
45°	9342.2	9375.7	9409.2	9646.1	9882.1	10721.8	11701.9	11224.2	9478.6	7044.0	4608.5
47.5°	10208.3	10093.4	9978.6	10072.7	10166.8	10994.6	11984.2	11585.5	9870.2	7248.1	4625.3
50°	11151.7	10831.9	10512.1	10462.7	10413.2	11267.3	12316.8	12044.8	10340.7	7545.6	4750.5
52.5°	12110.2	11583.1	11056.0	10860.6	10664.4	11592.7	12757.8	12616.6	11012.1	8006.5	5000.1
55°	12989.0	12318.4	11647.7	11384.5	11121.4	12090.3	13296.0	13456.3	11872.6	8595.8	5318.3
57.5°	13843.1	13083.1	12323.1	12079.1	11835.1	12821.6	13977.9	14209.9	12741.8	9161.2	5579.8
60°	14658.1	13906.1	13153.3	12957.9	12761.7	13730.7	14714.7	14545.7	13190.0	9426.0	5661.2
62.5°	15284.9	14686.8	14088.7	13985.8	13882.2	14650.1	15280.9	14414.9	12905.3	9165.2	5425.1
65°	15548.9	15208.4	14867.0	14963.5	15059.2	15345.5	15422.1	14032.1	12010.5	8434.7	4858.9
67.5°	14790.5	14859.9	14929.2	15334.4	15738.7	15541.7	15002.6	13277.7	10737.0	7399.6	4062.3
70°	12508.2	12924.4	13339.9	14298.5	15256.2	14819.2	13879.0	11923.6	9204.3	6207.4	3209.8
72.5°	9571.9	10040.0	10507.3	11930.0	13351.9	12949.1	11797.6	9793.6	7379.7	4957.0	2533.5
75°	6930.7	7459.4	7987.4	9556.8	11126.2	10567.1	8824.7	7012.1	5605.3	3783.9	1961.8
77.5°	4937.1	5291.1	5645.2	7195.5	8744.9	7834.2	5874.1	4718.6	3879.6	2630.0	1379.6
80°	3960.2	3851.7	3743.3	4606.9	5470.6	5319.1	3885.2	3030.3	2685.0	1762.4	839.7
82.5°	3230.5	2965.8	2701.0	3107.7	3514.4	3492.1	2696.2	2223.3	1998.4	1224.9	451.4
85°	2366.1	2260.0	2153.9	2513.6	2873.2	2566.2	1826.2	1413.1	1558.2	901.9	245.6
87.5°	1153.9	1318.2	1481.7	1905.9	2329.4	1748.8	554.2	274.3	379.6	249.6	118.8
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



REPORT NUMBER: P320479
 CATALOG NUMBER: GLEON-SA5B-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: P320479

CATALOG NUMBER: GLEON-SA5B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6
2.5°	6213.8	6148.4	6074.2	6000.1	5915.6	5830.2	5780.0	5728.9	5673.9	5618.9	5556.7
5°	5690.7	5553.5	5398.0	5242.5	5088.6	4934.7	4851.7	4768.8	4681.1	4592.6	4516.0
7.5°	4939.5	4739.3	4524.0	4307.9	4116.5	3924.3	3805.5	3685.9	3577.4	3468.2	3376.4
10°	4278.4	4023.2	3807.1	3590.2	3445.8	3301.5	3192.2	3083.0	2977.7	2871.7	2770.4
12.5°	3843.0	3587.8	3450.6	3313.4	3193.8	3074.2	2948.2	2821.4	2677.1	2531.9	2425.9
15°	3673.1	3441.0	3288.7	3135.6	2975.3	2814.2	2659.5	2504.8	2334.2	2163.5	2043.1
17.5°	3599.7	3295.9	3083.0	2869.3	2657.9	2446.6	2267.2	2087.7	1901.1	1714.5	1592.5
20°	3522.4	3118.1	2832.6	2546.3	2275.2	2004.0	1800.7	1597.3	1430.6	1264.0	1170.7
22.5°	3452.2	2929.1	2571.0	2212.2	1891.6	1571.0	1371.6	1171.5	1069.4	967.3	929.8
25°	3423.5	2764.0	2323.8	1883.6	1545.5	1206.6	1064.6	922.7	883.6	843.7	824.6
27.5°	3428.3	2616.5	2115.7	1614.1	1309.4	1004.8	907.5	810.2	786.3	761.6	749.6
30°	3446.6	2456.2	1919.5	1382.8	1131.6	880.4	817.4	753.6	728.1	702.6	687.4
32.5°	3467.4	2312.6	1768.0	1222.5	1017.6	811.8	760.0	707.3	682.6	657.9	642.8
35°	3431.5	2195.4	1664.3	1133.2	944.2	754.4	710.5	665.9	638.8	611.7	597.3
37.5°	3370.9	2077.4	1583.8	1089.3	896.3	702.6	670.7	638.0	610.1	581.3	567.8
40°	3315.8	1977.7	1523.9	1069.4	870.0	669.9	642.8	615.6	586.9	557.4	541.5
42.5°	3271.2	1910.7	1464.9	1019.2	846.1	672.3	634.0	594.9	567.0	539.1	521.5
45°	3237.7	1866.9	1418.7	970.5	823.8	677.0	628.4	579.8	551.8	523.1	502.4
47.5°	3234.5	1843.7	1386.0	928.2	781.5	634.0	614.0	594.1	553.4	512.0	488.0
50°	3278.4	1806.2	1347.7	888.4	740.8	593.3	620.4	646.7	577.4	507.2	476.9
52.5°	3370.1	1740.1	1287.1	834.1	691.4	547.9	590.1	631.6	571.8	511.2	472.1
55°	3480.9	1642.8	1195.4	747.2	626.0	504.0	541.5	578.2	540.7	502.4	455.3
57.5°	3550.3	1520.0	1079.8	639.6	552.6	465.7	487.2	508.0	492.8	477.7	429.8
60°	3508.8	1356.5	949.8	542.3	488.0	433.8	429.8	425.0	447.4	469.7	414.7
62.5°	3306.3	1187.4	834.9	482.5	441.8	400.3	391.6	382.0	418.7	454.6	396.3
65°	2964.2	1069.4	762.4	455.3	409.9	364.4	354.9	345.3	356.5	367.6	340.5
67.5°	2529.5	996.8	720.9	445.0	390.0	334.1	323.0	311.8	309.4	307.0	297.5
70°	2081.4	952.2	693.8	435.4	368.4	300.6	290.3	279.9	276.7	272.7	265.6
72.5°	1740.1	946.6	690.6	434.6	350.9	267.1	257.6	248.0	244.0	239.2	233.7
75°	1425.1	888.4	655.5	422.7	327.0	230.5	221.7	212.9	209.7	205.7	201.0
77.5°	1057.4	735.3	551.0	366.8	279.9	193.0	184.2	174.6	173.8	172.3	168.3
80°	685.8	531.9	393.9	256.0	204.1	151.5	144.3	136.4	137.2	138.0	134.8
82.5°	381.2	310.2	240.8	171.5	139.6	107.7	104.5	100.5	102.9	104.5	100.5
85°	201.0	156.3	129.2	102.1	80.5	59.0	59.0	58.2	61.4	64.6	61.4
87.5°	86.9	55.0	47.1	38.3	21.5	4.0	4.8	4.8	6.4	8.0	7.2
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: P320479
 CATALOG NUMBER: GLEON-SA5B-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: P320479

CATALOG NUMBER: GLEON-SA5B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6
2.5°	5493.7	5435.5	5376.5	5311.9	5323.8	5274.4	5225.0	5193.9	5162.8	5153.2	5143.6
5°	4439.5	4373.3	4306.3	4246.5	4298.3	4263.2	4228.1	4223.3	4217.8	4217.8	4217.0
7.5°	3284.7	3213.8	3142.0	3092.5	3143.6	3137.2	3130.8	3165.1	3199.4	3227.3	3254.4
10°	2669.1	2583.0	2496.0	2422.7	2409.9	2373.2	2335.8	2343.7	2350.9	2381.2	2411.5
12.5°	2319.8	2216.9	2114.1	2027.9	1988.9	1928.3	1866.9	1828.6	1790.3	1794.3	1797.5
15°	1921.9	1822.2	1721.7	1647.6	1622.8	1575.8	1528.7	1480.9	1432.2	1412.3	1391.6
17.5°	1469.7	1390.0	1309.4	1260.0	1260.0	1246.4	1232.9	1208.9	1184.2	1164.3	1143.6
20°	1077.4	1035.1	992.0	971.3	977.7	978.5	978.5	990.4	1002.4	996.0	989.6
22.5°	891.6	876.4	861.3	852.5	855.7	856.5	857.3	868.4	878.8	886.8	894.0
25°	804.6	795.1	785.5	782.3	789.5	790.3	790.3	797.5	804.6	812.6	820.6
27.5°	736.9	732.9	728.9	723.3	730.5	730.5	729.7	737.7	744.8	752.0	758.4
30°	672.3	673.9	674.7	673.1	677.8	681.0	683.4	689.0	693.8	699.4	705.0
32.5°	626.8	624.4	622.0	620.4	630.8	636.4	642.0	647.5	652.3	654.7	657.1
35°	582.9	577.4	571.8	567.8	577.4	584.5	591.7	602.1	611.7	613.2	614.8
37.5°	553.4	546.3	539.1	534.3	538.3	541.5	544.7	555.8	567.0	573.4	579.0
40°	525.5	518.3	511.2	507.2	509.6	510.4	511.2	516.8	521.5	533.5	544.7
42.5°	503.2	494.4	485.7	480.9	482.5	484.1	484.9	484.1	483.3	494.4	505.6
45°	480.9	471.3	461.7	456.1	456.9	456.9	456.9	455.3	453.0	458.5	464.1
47.5°	463.3	452.2	441.0	435.4	433.8	432.2	430.6	429.8	428.2	432.2	435.4
50°	445.8	433.8	421.1	414.7	410.7	409.1	407.5	406.7	405.1	409.1	412.3
52.5°	432.2	417.9	403.5	393.1	389.2	386.8	384.4	385.2	385.2	386.8	387.6
55°	408.3	395.5	382.0	374.8	367.6	366.0	364.4	366.8	368.4	368.4	368.4
57.5°	382.0	370.0	357.3	352.5	346.1	346.1	345.3	348.5	350.9	352.5	354.1
60°	358.9	345.3	331.7	327.8	325.4	324.6	323.8	327.8	330.9	334.1	337.3
62.5°	337.3	323.0	308.6	303.8	303.0	303.8	303.8	307.8	311.0	314.2	317.4
65°	313.4	299.0	283.9	279.1	280.7	283.1	285.5	288.7	291.1	294.3	297.5
67.5°	287.1	275.1	262.4	257.6	258.4	261.6	264.8	267.1	268.7	271.9	275.1
70°	258.4	248.0	237.6	234.5	233.7	237.6	240.8	242.4	244.0	248.0	251.2
72.5°	227.3	218.5	209.7	207.3	208.1	210.5	212.9	215.3	216.9	220.9	224.1
75°	195.4	187.4	179.4	177.8	179.4	181.8	184.2	185.8	187.4	192.2	196.2
77.5°	164.3	155.5	145.9	145.1	147.5	149.9	151.5	153.9	156.3	162.7	169.1
80°	131.6	122.0	111.6	110.8	113.2	115.6	118.0	120.4	122.8	130.8	138.0
82.5°	96.5	85.3	74.2	72.6	80.5	82.9	85.3	89.3	92.5	99.7	106.9
85°	58.2	47.1	35.9	35.1	42.3	46.3	50.2	55.0	59.0	65.4	71.8
87.5°	6.4	3.2	0.0	0.0	0.8	4.0	7.2	11.2	15.2	21.5	27.1
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: P320479
 CATALOG NUMBER: GLEON-SA5B-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: P320479

CATALOG NUMBER: GLEON-SA5B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6
2.5°	5108.5	5072.6	5109.3	5145.2	5160.4	5175.5	5136.4	5096.6	5158.8	5220.2	5236.1
5°	4185.1	4152.4	4177.1	4201.0	4147.6	4094.2	4088.6	4082.2	4128.4	4174.7	4181.9
7.5°	3244.1	3233.7	3256.8	3280.0	3212.2	3143.6	3110.1	3076.6	3087.8	3098.9	3097.3
10°	2418.7	2425.1	2453.8	2481.7	2429.1	2376.4	2353.3	2330.2	2355.7	2380.4	2403.5
12.5°	1811.8	1825.4	1855.7	1885.2	1863.7	1841.3	1843.7	1846.1	1875.6	1904.3	1929.9
15°	1407.5	1423.5	1445.0	1465.7	1466.5	1466.5	1487.3	1507.2	1504.8	1502.4	1520.0
17.5°	1165.1	1185.8	1188.2	1190.6	1191.4	1192.2	1190.6	1189.0	1177.1	1165.1	1178.6
20°	997.6	1004.8	1011.2	1016.8	1009.6	1001.6	981.7	961.7	953.8	945.8	958.5
22.5°	907.5	920.3	913.9	906.7	892.4	877.2	862.1	846.1	845.3	843.7	850.9
25°	831.8	842.1	831.0	819.8	809.4	799.1	788.7	778.3	777.5	776.7	779.9
27.5°	768.8	778.3	768.0	757.6	748.8	740.0	732.1	724.1	722.5	720.9	721.7
30°	714.5	723.3	714.5	705.0	698.6	691.4	685.8	680.2	679.4	678.6	678.6
32.5°	665.9	674.7	668.3	661.9	656.3	650.7	646.7	642.8	638.8	634.8	626.0
35°	623.6	632.4	628.4	623.6	617.2	610.9	603.7	595.7	585.3	574.2	569.4
37.5°	587.7	596.5	592.5	588.5	579.8	571.0	558.2	544.7	541.5	537.5	536.7
40°	559.0	572.6	564.6	555.8	542.3	528.7	522.3	516.0	514.4	512.8	511.2
42.5°	527.1	547.9	533.5	519.1	506.4	493.6	492.0	490.4	489.6	488.8	488.8
45°	487.2	509.6	495.2	480.1	472.9	465.7	465.7	465.7	466.5	466.5	468.1
47.5°	449.8	463.3	456.1	449.0	445.0	441.0	441.8	442.6	445.0	446.6	450.6
50°	417.9	422.7	424.2	425.0	422.7	420.3	421.9	422.7	425.0	426.6	429.8
52.5°	394.7	401.9	401.9	401.1	401.1	401.1	402.7	404.3	406.7	409.1	412.3
55°	379.6	390.0	386.8	383.6	384.4	384.4	386.0	387.6	390.0	391.6	396.3
57.5°	365.2	376.4	373.2	370.0	370.0	370.0	370.8	371.6	374.0	375.6	378.8
60°	348.5	359.7	356.5	352.5	353.3	354.1	354.9	354.9	356.5	357.3	357.3
62.5°	328.6	339.7	336.5	332.5	334.9	336.5	336.5	336.5	338.1	338.9	336.5
65°	307.8	318.2	315.0	311.8	315.0	317.4	319.0	319.8	319.0	318.2	315.8
67.5°	285.5	295.9	292.7	288.7	292.7	295.9	299.0	301.4	299.0	296.7	293.5
70°	261.6	271.9	267.9	264.0	267.9	271.9	275.1	278.3	275.1	271.9	271.1
72.5°	236.0	248.0	243.2	238.4	243.2	248.0	249.6	251.2	248.8	246.4	244.8
75°	208.1	220.1	216.1	211.3	215.3	219.3	220.1	220.9	220.9	220.1	215.3
77.5°	178.6	188.2	185.8	183.4	185.8	188.2	188.2	188.2	189.0	189.0	182.6
80°	143.5	149.1	149.9	150.7	151.5	152.3	151.5	150.7	149.1	147.5	143.5
82.5°	106.9	106.9	113.2	118.8	118.8	118.0	117.2	115.6	112.4	108.5	99.7
85°	67.8	63.8	74.2	83.7	83.7	82.9	81.3	78.9	72.6	65.4	58.2
87.5°	23.1	19.1	29.5	39.9	40.7	40.7	39.1	37.5	31.1	23.9	18.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320479
 CATALOG NUMBER: GLEON-SA5B-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: P320479

CATALOG NUMBER: GLEON-SA5B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6
2.5°	5260.0	5270.4	5280.0	5358.1	5435.5	5526.4	5617.3	5686.7	5755.3	5826.2	5897.2
5°	4206.6	4219.4	4232.1	4327.0	4421.1	4547.9	4674.7	4784.0	4893.2	5021.6	5150.0
7.5°	3118.1	3146.0	3173.1	3274.4	3374.8	3511.2	3646.8	3789.5	3931.5	4098.9	4266.4
10°	2449.0	2501.6	2553.5	2657.1	2760.8	2895.6	3029.5	3178.7	3327.8	3492.9	3657.1
12.5°	1982.5	2052.7	2122.0	2246.4	2370.8	2531.9	2692.2	2858.1	3023.2	3168.3	3313.4
15°	1566.2	1642.8	1718.5	1850.1	1981.7	2158.7	2335.0	2516.0	2696.2	2870.1	3043.9
17.5°	1221.7	1284.7	1346.9	1458.6	1569.4	1740.9	1912.3	2102.1	2291.9	2504.0	2715.4
20°	985.7	1012.0	1038.3	1118.8	1198.6	1338.1	1476.9	1670.7	1864.5	2118.1	2371.6
22.5°	863.6	877.2	890.0	929.0	967.3	1057.4	1146.7	1318.2	1488.9	1765.6	2041.5
25°	790.3	800.6	811.0	836.5	862.1	905.1	948.2	1068.6	1189.0	1460.9	1732.1
27.5°	724.1	740.0	755.2	767.2	778.3	807.8	836.5	915.5	994.4	1248.0	1500.8
30°	676.2	681.8	687.4	705.8	723.3	753.6	783.9	838.9	894.0	1108.5	1322.2
32.5°	620.4	628.4	636.4	655.5	674.7	702.6	730.5	775.1	819.0	1002.4	1185.0
35°	570.2	578.2	586.1	605.3	623.6	653.9	683.4	720.9	757.6	917.1	1076.6
37.5°	539.1	547.1	555.0	571.8	587.7	618.0	647.5	677.0	705.8	853.3	1000.8
40°	512.8	520.7	528.7	544.7	559.8	589.3	618.0	642.8	667.5	805.4	943.4
42.5°	489.6	498.4	507.2	523.1	538.3	564.6	590.9	623.6	655.5	764.0	871.6
45°	470.5	479.3	487.2	504.8	522.3	547.9	573.4	618.8	664.3	742.4	820.6
47.5°	453.0	462.5	471.3	490.4	509.6	541.5	572.6	610.9	648.3	725.7	803.0
50°	436.2	447.4	458.5	481.7	504.0	557.4	610.1	615.6	620.4	712.1	803.0
52.5°	420.3	433.0	445.8	474.5	502.4	564.6	626.8	606.9	586.1	686.6	787.1
55°	404.3	415.5	425.8	460.9	496.0	541.5	586.9	560.6	533.5	638.8	744.0
57.5°	382.8	394.7	405.9	443.4	480.9	512.8	543.9	519.9	495.2	584.5	673.1
60°	360.5	374.0	387.6	435.4	482.5	476.9	470.5	465.7	460.1	523.9	587.7
62.5°	340.5	354.9	369.2	431.4	493.6	455.3	417.1	421.1	424.2	471.3	518.3
65°	320.6	334.9	348.5	379.6	410.7	395.5	380.4	386.8	392.4	438.6	484.9
67.5°	298.2	311.0	323.0	333.3	343.7	345.3	346.9	353.3	359.7	414.7	468.9
70°	273.5	283.9	294.3	301.4	307.8	311.0	313.4	321.4	329.4	389.2	449.0
72.5°	245.6	254.4	262.4	268.7	275.1	277.5	279.1	287.1	295.1	358.9	422.7
75°	215.3	222.5	228.9	234.5	240.0	243.2	246.4	252.0	257.6	327.0	395.5
77.5°	181.8	189.0	195.4	200.2	204.1	207.3	209.7	216.9	224.1	282.3	339.7
80°	141.9	150.7	158.7	162.7	165.9	166.7	166.7	173.0	179.4	220.9	261.6
82.5°	100.5	110.0	118.8	122.0	125.2	125.2	125.2	132.4	139.6	167.5	194.6
85°	59.0	69.4	78.9	82.1	85.3	86.9	87.7	90.9	93.3	113.2	132.4
87.5°	18.3	27.1	35.1	36.7	38.3	41.5	44.7	45.5	45.5	59.0	72.6
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: P320479
 CATALOG NUMBER: GLEON-SA5B-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: P320479

CATALOG NUMBER: GLEON-SA5B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6	6076.6
2.5°	5978.6	6059.9	6154.8	6248.9	6329.4	6410.0	6477.0
5°	5313.5	5477.0	5677.1	5876.5	6054.3	6232.1	6438.7
7.5°	4477.7	4689.1	4948.2	5207.4	5458.6	5709.0	6026.4
10°	3872.5	4087.0	4361.3	4634.8	4917.1	5198.6	5557.5
12.5°	3488.1	3661.9	3927.5	4193.0	4524.8	4855.7	5201.0
15°	3234.5	3424.3	3682.7	3941.0	4303.9	4666.7	5063.9
17.5°	2964.2	3212.2	3543.1	3874.1	4303.9	4732.9	5201.0
20°	2681.1	2989.7	3418.7	3847.7	4426.7	5004.9	5602.2
22.5°	2398.8	2756.0	3306.3	3855.7	4612.5	5368.5	6174.7
25°	2144.4	2556.7	3237.7	3917.9	4882.8	5847.0	6847.0
27.5°	1951.4	2401.2	3209.8	4017.6	5225.8	6433.9	7578.3
30°	1779.9	2237.7	3176.3	4114.9	5555.9	6996.1	8150.0
32.5°	1631.6	2078.2	3111.7	4144.4	5786.4	7428.3	8634.1
35°	1515.2	1953.8	3003.2	4052.7	5930.7	7808.7	9138.1
37.5°	1414.7	1828.6	2879.6	3930.7	6059.1	8187.5	9705.1
40°	1319.0	1694.6	2773.6	3851.7	6236.1	8620.5	10304.0
42.5°	1228.1	1584.6	2688.2	3791.9	6400.4	9008.1	10827.9
45°	1160.3	1500.0	2612.5	3724.1	6506.5	9288.8	11222.6
47.5°	1126.8	1449.8	2571.8	3693.0	6612.5	9531.2	11550.4
50°	1122.0	1441.0	2618.1	3795.1	6842.2	9888.5	11925.2
52.5°	1121.2	1455.4	2751.2	4047.1	7268.8	10489.8	12331.1
55°	1104.5	1464.1	2909.9	4354.9	7841.4	11327.1	13060.8
57.5°	1053.4	1433.8	3073.4	4712.2	8446.7	12180.4	13883.0
60°	974.5	1360.5	3208.2	5055.1	8853.4	12650.9	14199.6
62.5°	875.6	1232.1	3252.8	5272.8	8842.2	12411.7	13880.6
65°	791.1	1097.3	3106.1	5114.1	8394.9	11674.8	13249.8
67.5°	716.1	962.5	2739.3	4515.2	7590.2	10664.4	12447.5
70°	661.9	874.0	2266.4	3658.7	6583.0	9506.5	11518.5
72.5°	627.6	831.8	1847.7	2862.9	5342.2	7820.7	9852.6
75°	580.6	765.6	1449.8	2133.2	4088.6	6043.9	7441.9
77.5°	492.8	645.1	1092.5	1539.9	3000.0	4459.4	5175.5
80°	380.4	498.4	751.2	1004.0	2064.6	3125.2	3528.8
82.5°	271.1	347.7	455.3	563.0	1371.6	2179.5	2213.0
85°	167.5	202.6	260.8	319.0	907.5	1496.0	1246.4
87.5°	90.1	107.7	138.0	167.5	290.3	413.1	237.6
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: P320479
 CATALOG NUMBER: GLEON-SA5B-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 W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /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

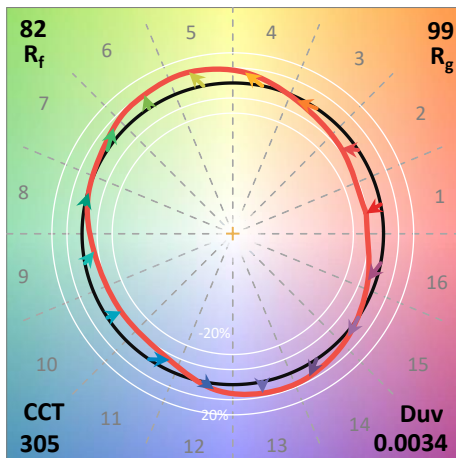
TM-30-18

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 81.0$
 $R_9 = 7.1$

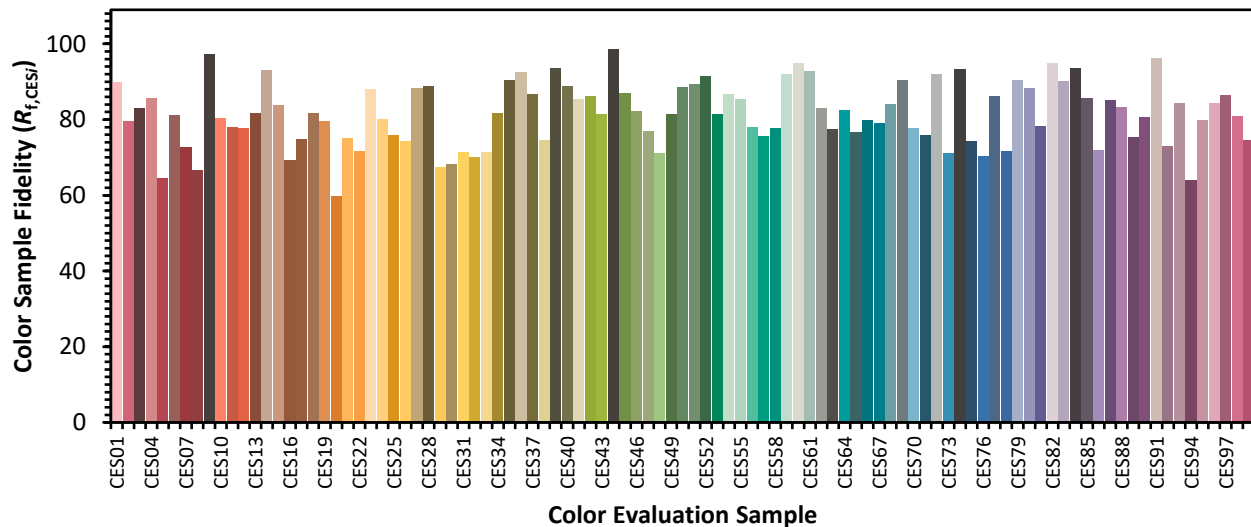


Color Vector Graphics



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)