

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: P320791

Luminaire Tested: **GLEON-SA7A-830-U-SLR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320791
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-26)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7A-830-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23018 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

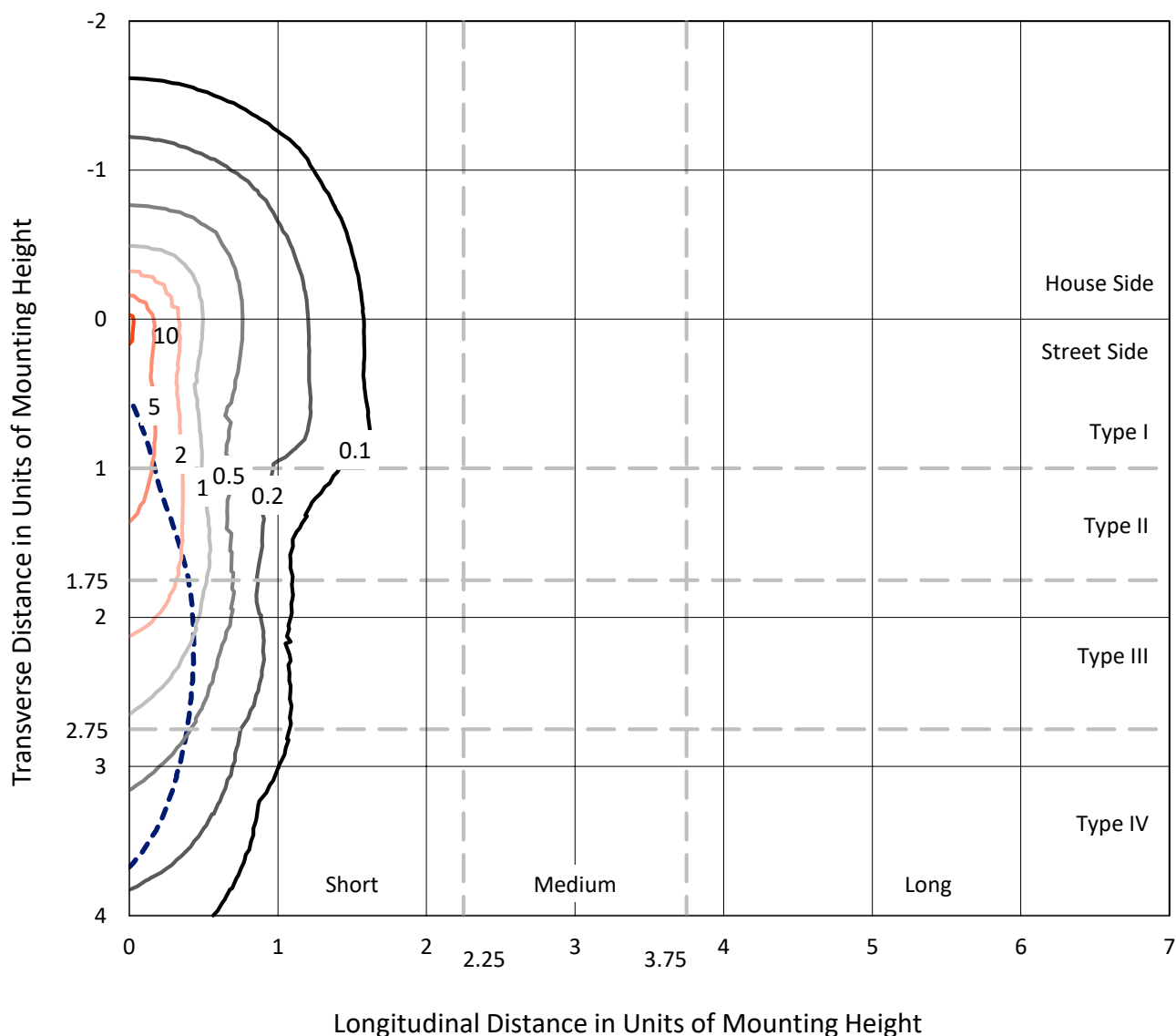
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

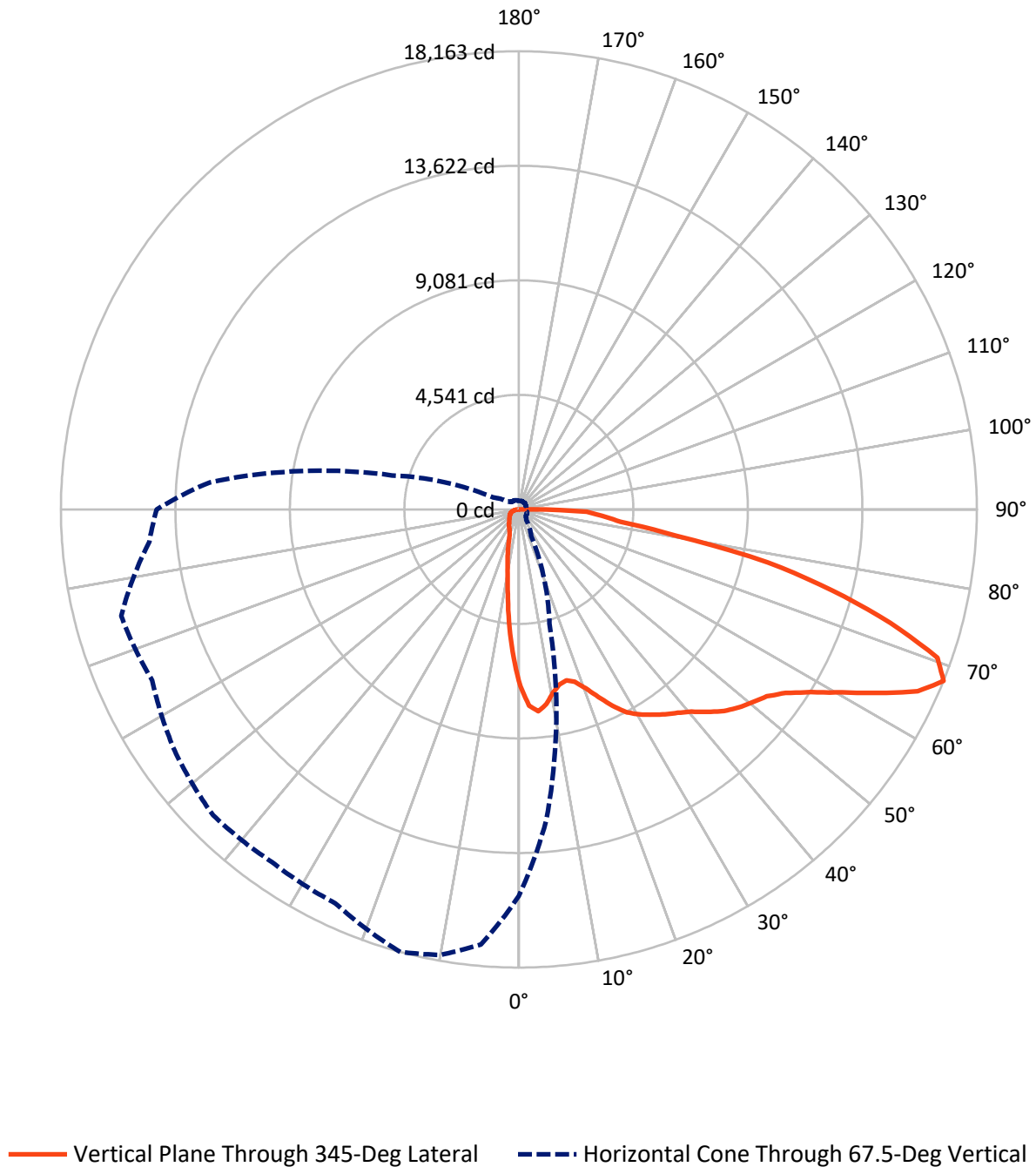
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3979.3	0.0	3979.3
	% Fixture	17.3	0.0	17.3
Street Side	Lumens	19038.7	0.0	19038.7
	% Fixture	82.7	0.0	82.7
Total	Lumens	23018.0	0.0	23018.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	541.2	2.4
10°-20°	1124.3	4.9
20°-30°	1599.0	6.9
30°-40°	2304.2	10.0
40°-50°	3247.3	14.1
50°-60°	4514.2	19.6
60°-70°	5459.1	23.7
70°-80°	3355.6	14.6
80°-90°	873.2	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°	23018.0	100.0
0°-180°	23018.0	100.0

Coefficient of Utilization



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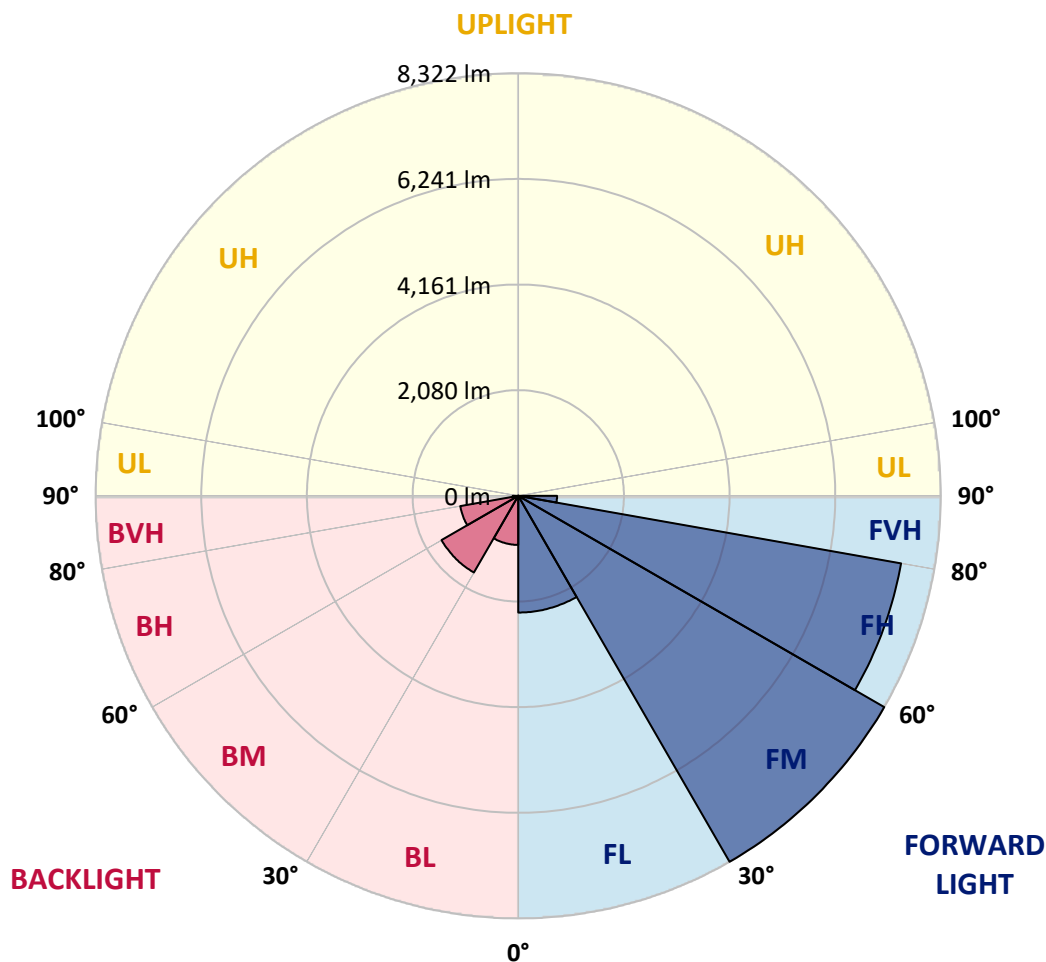
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2298.4	10.0			
FM	(30°-60°)	8321.6	36.2			
FH	(60°-80°)	7655.0	33.3			G4/12000
FVH	(80°-90°)	763.7	3.3			G5
BL	(0°-30°)	966.1	4.2	B2/1000		
BM	(30°-60°)	1744.1	7.6	B2/2500		
BH	(60°-80°)	1159.6	5.0	B3/2500		G3/2500
BVH	(80°-90°)	109.5	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	7012.6	7012.6	7012.6	7012.6	7012.6	7012.6	7012.6	7012.6	7012.6	7012.6	7012.6
2.5°	7512.3	7446.0	7345.7	7245.4	7170.9	7095.4	7009.8	6924.2	6826.7	6728.2	6670.2
5°	7388.1	7204.0	6964.7	6725.5	6567.2	6408.9	6229.4	6050.0	5872.4	5694.7	5599.0
7.5°	6828.5	6552.4	6241.4	5930.3	5700.3	5469.3	5220.8	4971.4	4750.5	4528.7	4391.6
10°	6278.2	5946.9	5589.8	5231.8	4937.3	4642.9	4393.5	4143.1	3976.6	3810.0	3683.9
12.5°	5883.4	5516.2	5123.2	4729.4	4434.9	4140.4	3982.1	3823.8	3685.8	3547.7	3402.3
15°	5727.0	5311.9	4909.7	4506.6	4238.8	3971.0	3795.3	3618.6	3433.6	3247.7	3069.2
17.5°	5865.0	5379.1	4941.9	4504.8	4154.2	3803.5	3557.8	3311.2	3067.3	2823.4	2616.4
20°	6295.7	5675.4	5103.9	4531.5	4064.9	3598.3	3268.9	2938.5	2625.6	2312.7	2078.0
22.5°	6900.3	6079.4	5333.1	4586.7	3983.9	3380.2	2967.0	2552.9	2182.9	1813.0	1582.9
25°	7634.7	6615.0	5663.5	4711.0	3950.8	3189.7	2681.7	2173.7	1783.5	1392.4	1228.6
27.5°	8408.7	7253.7	6073.9	4893.2	3956.3	3019.5	2441.5	1862.7	1511.1	1159.6	1047.3
30°	9053.8	7983.5	6552.4	5120.5	3977.5	2834.5	2215.1	1595.8	1305.9	1016.0	943.3
32.5°	9643.7	8492.4	6913.2	5333.1	4001.4	2668.8	2040.3	1410.8	1174.3	936.9	877.0
35°	10252.9	8944.3	7165.4	5385.5	3960.0	2533.6	1920.6	1307.7	1089.6	870.6	820.0
37.5°	10923.8	9433.0	7408.3	5382.8	3890.1	2397.3	1827.7	1257.1	1034.4	810.8	774.0
40°	11672.0	9973.2	7671.5	5369.9	3826.6	2282.3	1758.7	1234.1	1004.0	773.0	741.8
42.5°	12403.6	10488.5	7916.3	5344.1	3775.0	2205.0	1690.6	1176.1	976.4	775.8	731.6
45°	12953.1	10938.5	8128.9	5318.3	3736.4	2154.4	1637.2	1120.0	950.7	781.3	725.2
47.5°	13369.9	11390.4	8364.5	5337.7	3732.7	2127.7	1599.5	1071.2	901.9	731.6	708.6
50°	13900.0	11933.4	8707.8	5482.2	3783.3	2084.5	1555.3	1025.2	854.9	684.7	716.0
52.5°	14559.9	12708.3	9239.7	5770.2	3889.1	2008.1	1485.3	962.6	797.9	632.2	681.0
55°	15528.9	13701.2	9919.8	6137.4	4017.1	1895.8	1379.5	862.3	722.4	581.6	624.9
57.5°	16398.6	14704.4	10572.3	6439.3	4097.1	1754.1	1246.1	738.1	637.8	537.4	562.3
60°	16786.0	15221.6	10877.8	6533.1	4049.3	1565.4	1096.1	625.8	563.2	500.6	496.0
62.5°	16635.1	14893.0	10576.9	6260.7	3815.5	1370.3	963.5	556.8	509.8	462.0	451.9
65°	16193.4	13860.5	9733.9	5607.3	3420.7	1234.1	879.8	525.5	473.0	420.6	409.5
67.5°	15322.8	12390.8	8539.4	4687.9	2919.2	1150.4	831.9	513.5	450.0	385.6	372.7
70°	13760.1	10622.0	7163.5	3704.2	2402.0	1098.8	800.7	502.5	425.2	346.9	335.0
72.5°	11302.1	8516.3	5720.5	2923.8	2008.1	1092.4	797.0	501.6	404.9	308.3	297.3
75°	8092.1	6468.7	4366.8	2263.9	1644.6	1025.2	756.5	487.8	377.3	266.0	255.8
77.5°	5445.3	4477.2	3035.1	1592.1	1220.3	848.5	635.9	423.3	323.0	222.7	212.6
80°	3497.1	3098.6	2033.8	969.1	791.4	613.8	454.6	295.4	235.6	174.9	166.6
82.5°	2565.8	2306.2	1413.6	520.9	439.9	358.0	277.9	197.9	161.1	124.2	120.6
85°	1630.8	1798.2	1040.8	283.4	231.9	180.4	149.1	117.8	92.9	68.1	68.1
87.5°	316.6	438.1	288.1	137.1	100.3	63.5	54.3	44.2	24.8	4.6	5.5
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



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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°	7012.6	7012.6	7012.6	7012.6	7012.6	7012.6	7012.6	7012.6	7012.6	7012.6	7012.6
2.5°	6611.3	6547.8	6484.3	6412.6	6339.9	6272.7	6204.6	6130.0	6143.8	6086.8	6029.7
5°	5503.3	5402.1	5299.9	5211.6	5123.2	5046.9	4969.6	4900.5	4960.4	4919.9	4879.4
7.5°	4253.6	4128.4	4002.3	3896.5	3790.7	3708.8	3625.9	3568.9	3627.8	3620.4	3613.0
10°	3557.8	3436.4	3314.0	3197.1	3080.2	2980.8	2880.5	2795.8	2781.1	2738.8	2695.5
12.5°	3256.0	3089.4	2921.9	2799.5	2677.1	2558.4	2439.7	2340.3	2295.2	2225.3	2154.4
15°	2890.6	2693.7	2496.7	2357.8	2217.9	2102.9	1986.9	1901.3	1872.8	1818.5	1764.2
17.5°	2409.3	2194.0	1978.6	1837.8	1696.1	1604.1	1511.1	1454.1	1454.1	1438.4	1422.8
20°	1843.3	1651.0	1458.7	1351.0	1243.3	1194.5	1144.8	1120.9	1128.3	1129.2	1129.2
22.5°	1351.9	1234.1	1116.3	1073.1	1028.9	1011.4	993.9	983.8	987.5	988.4	989.3
25°	1064.8	1019.7	973.7	951.6	928.6	917.5	906.5	902.8	911.1	912.0	912.0
27.5°	935.0	907.4	878.9	865.1	850.3	845.7	841.1	834.7	843.0	843.0	842.1
30°	869.7	840.2	810.8	793.3	775.8	777.6	778.6	776.7	782.2	785.9	788.7
32.5°	816.3	787.8	759.2	741.8	723.3	720.6	717.8	716.0	727.9	734.4	740.8
35°	768.4	737.2	705.9	689.3	672.7	666.3	659.8	655.2	666.3	674.6	682.9
37.5°	736.2	704.0	670.9	655.2	638.7	630.4	622.1	616.6	621.2	624.9	628.6
40°	710.5	677.3	643.3	624.9	606.5	598.2	589.9	585.3	588.1	589.0	589.9
42.5°	686.5	654.3	622.1	601.9	580.7	570.6	560.5	554.9	556.8	558.6	559.5
45°	669.0	636.8	603.7	579.8	554.9	543.9	532.8	526.4	527.3	527.3	527.3
47.5°	685.6	638.7	590.8	563.2	534.7	521.8	508.9	502.5	500.6	498.8	497.0
50°	746.4	666.3	585.3	550.3	514.4	500.6	485.9	478.5	473.9	472.1	470.3
52.5°	728.9	659.8	589.9	544.8	498.8	482.2	465.7	453.7	449.1	446.3	443.6
55°	667.2	624.0	579.8	525.5	471.2	456.5	440.8	432.5	424.3	422.4	420.6
57.5°	586.2	568.7	551.3	496.0	440.8	427.0	412.3	406.8	399.4	399.4	398.5
60°	490.5	516.3	542.0	478.5	414.1	398.5	382.8	378.2	375.5	374.6	373.6
62.5°	440.8	483.2	524.6	457.4	389.3	372.7	356.2	350.6	349.7	350.6	350.6
65°	398.5	411.4	424.3	393.0	361.7	345.1	327.6	322.1	323.9	326.7	329.5
67.5°	359.8	357.1	354.3	343.3	331.3	317.5	302.8	297.3	298.2	301.9	305.5
70°	323.0	319.3	314.7	306.5	298.2	286.2	274.2	270.6	269.6	274.2	277.9
72.5°	286.2	281.6	276.1	269.6	262.3	252.2	242.0	239.3	240.2	243.0	245.7
75°	245.7	242.0	237.4	231.9	225.5	216.3	207.1	205.2	207.1	209.8	212.6
77.5°	201.5	200.6	198.8	194.2	189.6	179.5	168.4	167.5	170.3	173.0	174.9
80°	157.4	158.3	159.2	155.5	151.8	140.8	128.8	127.9	130.7	133.4	136.2
82.5°	116.0	118.7	120.6	116.0	111.4	98.5	85.6	83.7	92.9	95.7	98.5
85°	67.2	70.9	74.5	70.9	67.2	54.3	41.4	40.5	48.8	53.4	58.0
87.5°	5.5	7.4	9.2	8.3	7.4	3.7	0.0	0.0	0.9	4.6	8.3
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



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 CATALOG NUMBER: GLEON-SA7A-830-U-SLR

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P320791

CATALOG NUMBER: GLEON-SA7A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	7012.6	7012.6	7012.6	7012.6	7012.6	7012.6	7012.6	7012.6	7012.6	7012.6	7012.6
2.5°	5993.8	5957.9	5946.9	5935.9	5895.4	5854.0	5896.3	5937.7	5955.2	5972.7	5927.6
5°	4873.8	4867.4	4867.4	4866.5	4829.7	4791.9	4820.5	4848.1	4786.4	4724.8	4718.3
7.5°	3652.6	3692.2	3724.4	3755.7	3743.7	3731.8	3758.5	3785.1	3706.9	3627.8	3589.1
10°	2704.7	2713.0	2748.0	2783.0	2791.2	2798.6	2831.7	2863.9	2803.2	2742.5	2715.8
12.5°	2110.2	2066.0	2070.6	2074.3	2090.9	2106.5	2141.5	2175.6	2150.7	2124.9	2127.7
15°	1709.0	1652.8	1629.8	1605.9	1624.3	1642.7	1667.6	1691.5	1692.4	1692.4	1716.3
17.5°	1395.2	1366.6	1343.6	1319.7	1344.5	1368.5	1371.2	1374.0	1374.9	1375.8	1374.0
20°	1143.0	1156.8	1149.4	1142.1	1151.3	1159.6	1166.9	1173.4	1165.1	1155.9	1132.9
22.5°	1002.2	1014.2	1023.4	1031.6	1047.3	1062.0	1054.6	1046.4	1029.8	1012.3	994.8
25°	920.3	928.6	937.8	947.0	959.9	971.8	958.9	946.1	934.1	922.1	910.2
27.5°	851.3	859.5	867.8	875.2	887.2	898.2	886.2	874.3	864.2	854.0	844.8
30°	795.1	800.7	807.1	813.5	824.6	834.7	824.6	813.5	806.2	797.9	791.4
32.5°	747.3	752.8	755.6	758.3	768.4	778.6	771.2	763.8	757.4	751.0	746.4
35°	694.8	705.9	707.7	709.5	719.7	729.8	725.2	719.7	712.3	704.9	696.7
37.5°	641.4	654.3	661.7	668.1	678.3	688.4	683.8	679.2	669.0	658.9	644.2
40°	596.3	601.9	615.7	628.6	645.1	660.8	651.6	641.4	625.8	610.2	602.8
42.5°	558.6	557.7	570.6	583.5	608.3	632.2	615.7	599.1	584.4	569.7	567.8
45°	525.5	522.7	529.2	535.6	562.3	588.1	571.5	554.0	545.7	537.4	537.4
47.5°	496.0	494.2	498.8	502.5	519.0	534.7	526.4	518.1	513.5	508.9	509.8
50°	469.3	467.5	472.1	475.8	482.2	487.8	489.6	490.5	487.8	485.0	486.8
52.5°	444.5	444.5	446.3	447.3	455.5	463.8	463.8	462.9	462.9	462.9	464.7
55°	423.3	425.2	425.2	425.2	438.1	450.0	446.3	442.7	443.6	443.6	445.4
57.5°	402.2	404.9	406.8	408.6	421.5	434.4	430.7	427.0	427.0	427.0	427.9
60°	378.2	381.9	385.6	389.3	402.2	415.0	411.4	406.8	407.7	408.6	409.5
62.5°	355.2	358.9	362.6	366.3	379.2	392.0	388.4	383.8	386.5	388.4	388.4
65°	333.1	335.9	339.6	343.3	355.2	367.2	363.5	359.8	363.5	366.3	368.1
67.5°	308.3	310.1	313.8	317.5	329.5	341.4	337.7	333.1	337.7	341.4	345.1
70°	279.8	281.6	286.2	289.9	301.9	313.8	309.2	304.6	309.2	313.8	317.5
72.5°	248.5	250.3	254.9	258.6	272.4	286.2	280.7	275.2	280.7	286.2	288.1
75°	214.4	216.3	221.8	226.4	240.2	254.0	249.4	243.9	248.5	253.1	254.0
77.5°	177.6	180.4	187.7	195.1	206.1	217.2	214.4	211.7	214.4	217.2	217.2
80°	139.0	141.7	150.9	159.2	165.7	172.1	173.0	173.9	174.9	175.8	174.9
82.5°	103.1	106.8	115.0	123.3	123.3	123.3	130.7	137.1	137.1	136.2	135.3
85°	63.5	68.1	75.5	82.8	78.2	73.6	85.6	96.6	96.6	95.7	93.9
87.5°	12.9	17.5	24.8	31.3	26.7	22.1	34.1	46.0	46.9	46.9	45.1
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: P320791
 CATALOG NUMBER: GLEON-SA7A-830-U-SLR

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P320791

CATALOG NUMBER: GLEON-SA7A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	7012.6	7012.6	7012.6	7012.6	7012.6	7012.6	7012.6	7012.6	7012.6	7012.6	7012.6
2.5°	5881.6	5953.3	6024.2	6042.6	6070.2	6082.2	6093.2	6183.4	6272.7	6377.6	6482.5
5°	4711.0	4764.3	4817.7	4826.0	4854.5	4869.2	4884.0	4993.5	5102.1	5248.4	5394.7
7.5°	3550.5	3563.4	3576.2	3574.4	3598.3	3630.5	3661.8	3778.7	3894.7	4052.0	4208.5
10°	2689.1	2718.5	2747.1	2773.7	2826.2	2886.9	2946.8	3066.4	3186.0	3341.6	3496.2
12.5°	2130.5	2164.5	2197.6	2227.1	2287.8	2368.8	2448.9	2592.5	2736.0	2921.9	3106.9
15°	1739.3	1736.6	1733.8	1754.1	1807.4	1895.8	1983.2	2135.1	2286.9	2491.2	2694.6
17.5°	1372.1	1358.3	1344.5	1360.2	1409.9	1482.6	1554.4	1683.2	1811.1	2009.0	2206.9
20°	1109.9	1100.7	1091.5	1106.2	1137.5	1167.8	1198.2	1291.2	1383.2	1544.2	1704.4
22.5°	976.4	975.5	973.7	981.9	996.7	1012.3	1027.0	1072.1	1116.3	1220.3	1323.4
25°	898.2	897.3	896.4	900.0	912.0	924.0	935.9	965.4	994.8	1044.5	1094.2
27.5°	835.6	833.8	831.9	832.9	835.6	854.0	871.5	885.3	898.2	932.3	965.4
30°	785.0	784.1	783.2	783.2	780.4	786.8	793.3	814.5	834.7	869.7	904.6
32.5°	741.8	737.2	732.5	722.4	716.0	725.2	734.4	756.5	778.6	810.8	843.0
35°	687.5	675.5	662.6	657.1	658.0	667.2	676.4	698.5	719.7	754.6	788.7
37.5°	628.6	624.9	620.3	619.4	622.1	631.3	640.5	659.8	678.3	713.2	747.3
40°	595.4	593.6	591.7	589.9	591.7	600.9	610.2	628.6	646.0	680.1	713.2
42.5°	566.0	565.1	564.1	564.1	565.1	575.2	585.3	603.7	621.2	651.6	681.9
45°	537.4	538.4	538.4	540.2	543.0	553.1	562.3	582.5	602.8	632.2	661.7
47.5°	510.8	513.5	515.4	520.0	522.7	533.8	543.9	566.0	588.1	624.9	660.8
50°	487.8	490.5	492.4	496.0	503.4	516.3	529.2	555.9	581.6	643.3	704.0
52.5°	466.6	469.3	472.1	475.8	485.0	499.7	514.4	547.6	579.8	651.6	723.3
55°	447.3	450.0	451.9	457.4	466.6	479.5	491.4	531.9	572.4	624.9	677.3
57.5°	428.9	431.6	433.5	437.1	441.7	455.5	468.4	511.7	554.9	591.7	627.6
60°	409.5	411.4	412.3	412.3	416.0	431.6	447.3	502.5	556.8	550.3	543.0
62.5°	388.4	390.2	391.1	388.4	393.0	409.5	426.1	497.9	569.7	525.5	481.3
65°	369.0	368.1	367.2	364.4	370.0	386.5	402.2	438.1	473.9	456.5	439.0
67.5°	347.9	345.1	342.3	338.7	344.2	358.9	372.7	384.7	396.6	398.5	400.3
70°	321.2	317.5	313.8	312.9	315.7	327.6	339.6	347.9	355.2	358.9	361.7
72.5°	289.9	287.1	284.4	282.5	283.4	293.6	302.8	310.1	317.5	320.3	322.1
75°	254.9	254.9	254.0	248.5	248.5	256.8	264.1	270.6	277.0	280.7	284.4
77.5°	217.2	218.1	218.1	210.7	209.8	218.1	225.5	231.0	235.6	239.3	242.0
80°	173.9	172.1	170.3	165.7	163.8	173.9	183.1	187.7	191.4	192.3	192.3
82.5°	133.4	129.8	125.2	115.0	116.0	127.0	137.1	140.8	144.5	144.5	144.5
85°	91.1	83.7	75.5	67.2	68.1	80.1	91.1	94.8	98.5	100.3	101.2
87.5°	43.3	35.9	27.6	21.2	21.2	31.3	40.5	42.3	44.2	47.9	51.5
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: P320791
 CATALOG NUMBER: GLEON-SA7A-830-U-SLR

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P320791

CATALOG NUMBER: GLEON-SA7A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	7012.6	7012.6	7012.6	7012.6	7012.6	7012.6	7012.6	7012.6	7012.6	7012.6	7012.6
2.5°	6562.6	6641.7	6723.6	6805.5	6899.4	6993.3	7102.8	7211.4	7304.3	7397.3	7474.6
5°	5520.8	5646.9	5795.1	5943.2	6131.9	6320.5	6551.5	6781.6	6986.8	7192.0	7430.4
7.5°	4373.2	4537.0	4730.3	4923.5	5167.4	5411.3	5710.4	6009.5	6299.4	6588.3	6954.6
10°	3668.3	3840.4	4030.9	4220.4	4468.9	4716.5	5033.1	5348.7	5674.5	5999.4	6413.5
12.5°	3298.3	3488.8	3656.3	3823.8	4025.3	4226.0	4532.4	4838.9	5221.7	5603.6	6002.1
15°	2903.5	3111.5	3312.1	3512.7	3732.7	3951.7	4249.9	4548.1	4966.8	5385.5	5843.8
17.5°	2425.9	2644.9	2889.7	3133.6	3420.7	3706.9	4088.8	4470.8	4966.8	5461.9	6002.1
20°	1928.0	2151.6	2444.3	2736.9	3094.0	3450.2	3945.3	4440.4	5108.5	5775.7	6465.0
22.5°	1521.2	1718.2	2037.5	2355.9	2768.2	3180.5	3815.5	4449.6	5322.9	6195.4	7125.8
25°	1233.2	1372.1	1686.0	1998.9	2474.7	2950.4	3736.4	4521.4	5634.9	6747.6	7901.6
27.5°	1056.5	1147.6	1440.3	1732.0	2251.9	2771.0	3704.2	4636.4	6030.6	7424.9	8745.5
30°	968.1	1031.6	1279.2	1525.8	2054.1	2582.3	3665.5	4748.7	6411.6	8073.7	9405.3
32.5°	894.5	945.1	1156.8	1367.5	1882.9	2398.3	3591.0	4782.7	6677.6	8572.5	9964.0
35°	831.9	874.3	1058.3	1242.4	1748.5	2254.7	3465.8	4676.9	6844.2	9011.5	10545.6
37.5°	781.3	814.5	984.7	1155.0	1632.6	2110.2	3323.2	4536.1	6992.3	9448.6	11199.9
40°	741.8	770.3	929.5	1088.7	1522.2	1955.6	3200.8	4445.0	7196.7	9948.3	11891.0
42.5°	719.7	756.5	881.6	1005.9	1417.2	1828.6	3102.3	4376.0	7386.2	10395.6	12495.7
45°	714.1	766.6	856.8	947.0	1339.0	1731.1	3014.9	4297.7	7508.6	10719.5	12951.2
47.5°	704.9	748.2	837.5	926.7	1300.4	1673.1	2967.9	4261.9	7631.0	10999.3	13329.4
50°	710.5	716.0	821.8	926.7	1294.8	1663.0	3021.3	4379.6	7896.1	11411.6	13762.0
52.5°	700.3	676.4	792.4	908.3	1293.9	1679.5	3175.0	4670.5	8388.4	12105.5	14230.4
55°	647.0	615.7	737.2	858.6	1274.6	1689.6	3358.1	5025.7	9049.2	13071.8	15072.5
57.5°	600.0	571.5	674.6	776.7	1215.7	1654.7	3546.8	5438.0	9747.7	14056.5	16021.3
60°	537.4	531.0	604.6	678.3	1124.6	1570.0	3702.3	5833.7	10217.0	14599.4	16386.6
62.5°	485.9	489.6	543.9	598.2	1010.5	1421.8	3753.9	6084.9	10204.2	14323.4	16018.5
65°	446.3	452.8	506.2	559.5	912.9	1266.3	3584.5	5901.8	9687.9	13473.0	15290.6
67.5°	407.7	415.0	478.5	541.1	826.4	1110.8	3161.2	5210.7	8759.3	12307.0	14364.8
70°	370.9	380.1	449.1	518.1	763.8	1008.6	2615.5	4222.3	7597.0	10970.8	13292.6
72.5°	331.3	340.5	414.1	487.8	724.3	959.9	2132.3	3303.8	6165.0	9025.3	11370.2
75°	290.8	297.3	377.3	456.5	670.0	883.5	1673.1	2461.8	4718.3	6974.9	8588.1
77.5°	250.3	258.6	325.8	392.0	568.7	744.5	1260.8	1777.1	3462.1	5146.2	5972.7
80°	199.7	207.1	254.9	301.9	439.0	575.2	866.9	1158.6	2382.6	3606.6	4072.3
82.5°	152.8	161.1	193.3	224.6	312.9	401.2	525.5	649.7	1582.9	2515.1	2553.8
85°	104.9	107.7	130.7	152.8	193.3	233.8	300.9	368.1	1047.3	1726.5	1438.4
87.5°	52.5	52.5	68.1	83.7	104.0	124.2	159.2	193.3	335.0	476.7	274.2
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: P320791
 CATALOG NUMBER: GLEON-SA7A-830-U-SLR

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P320791

CATALOG NUMBER: GLEON-SA7A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	7012.6	7012.6	7012.6	7012.6	7012.6	7012.6	7012.6	7012.6	7012.6	7012.6	7012.6
2.5°	7573.0	7640.2	7708.3	7759.9	7812.3	7887.8	7963.3	7977.1	7991.8	7962.3	7932.9
5°	7670.6	7874.0	8078.3	8266.9	8455.6	8568.8	8682.0	8705.0	8728.0	8657.1	8585.4
7.5°	7308.9	7663.2	8017.5	8342.4	8667.3	8864.2	9062.1	9106.2	9151.3	9035.4	8919.4
10°	6825.8	7261.1	7696.4	8124.3	8552.2	8838.4	9124.7	9181.7	9238.8	9094.3	8949.8
12.5°	6452.1	6916.9	7381.6	7832.6	8284.4	8580.8	8877.1	8948.0	9018.8	8913.9	8808.1
15°	6337.1	6774.2	7211.4	7604.3	7998.2	8240.3	8483.2	8511.7	8541.2	8524.6	8508.1
17.5°	6546.0	6940.8	7336.5	7550.0	7764.5	7861.1	7958.6	7989.9	8022.1	8063.6	8105.9
20°	7052.2	7330.1	7608.9	7599.7	7589.6	7542.7	7494.8	7486.5	7478.3	7597.0	7716.6
22.5°	7807.7	7918.2	8029.5	7770.9	7512.3	7354.9	7196.7	7165.4	7133.2	7259.2	7386.2
25°	8627.7	8607.5	8586.3	8093.9	7600.7	7300.6	7000.6	6965.7	6930.7	7038.4	7147.0
27.5°	9439.4	9306.9	9174.3	8505.3	7836.3	7401.0	6965.7	6930.7	6895.7	6991.4	7087.1
30°	10034.8	9822.2	9609.6	8852.2	8094.9	7577.6	7060.4	7003.4	6945.4	7063.2	7181.0
32.5°	10499.6	10214.3	9929.0	9133.9	8338.7	7779.2	7219.7	7130.4	7041.1	7198.5	7355.9
35°	10963.4	10562.1	10160.0	9385.1	8609.3	8017.5	7424.9	7315.4	7205.9	7422.1	7638.4
37.5°	11546.9	10970.8	10393.7	9667.6	8941.5	8374.6	7806.8	7694.5	7582.3	7857.4	8133.5
40°	12180.0	11411.6	10643.1	9976.8	9310.6	8868.8	8426.2	8319.4	8211.7	8546.7	8881.7
42.5°	12706.4	11822.0	10937.6	10349.6	9760.6	9449.5	9137.5	9136.6	9134.8	9474.4	9813.9
45°	13134.3	12164.4	11193.5	10713.1	10231.8	10069.8	9907.8	10037.6	10167.3	10473.8	10781.2
47.5°	13453.7	12451.5	11448.4	11129.0	10809.7	10833.6	10857.6	11121.7	11385.8	11582.7	11780.6
50°	13661.7	12711.9	11761.3	11662.8	11564.3	11778.8	11994.1	12296.9	12600.6	12734.9	12869.3
52.5°	13964.4	13065.3	12165.3	12275.7	12386.2	12824.2	13262.3	13568.7	13875.2	13924.9	13975.5
55°	14664.8	13715.0	12764.4	12976.1	13188.6	13831.0	14474.3	14713.6	14952.8	14971.2	14989.6
57.5°	15659.6	14625.2	13590.8	13819.0	14047.3	14789.0	15531.7	15789.4	16048.0	16012.1	15975.3
60°	16404.1	15489.4	14573.7	14803.7	15033.8	15757.2	16480.5	16776.8	17074.1	16995.0	16915.8
62.5°	16450.1	15961.5	15471.9	15679.9	15888.8	16597.4	17306.0	17610.6	17915.2	17777.2	17639.2
65°	15718.5	15937.5	16156.6	16225.6	16294.6	16955.4	17617.1	17849.9	18083.7	18013.7	17943.8
67.5°	14710.8	15517.9	16325.9	16186.9	16048.0	16358.1	16668.3	16908.4	17148.6	17109.1	17068.6
70°	13704.9	14782.6	15860.2	15177.4	14493.6	14365.7	14237.8	14496.4	14755.9	14595.8	14434.7
72.5°	11992.3	13140.8	14290.2	13032.2	11774.2	11337.0	10899.9	11228.4	11557.0	11302.1	11046.2
75°	9413.6	10682.7	11952.7	10451.7	8950.7	8367.3	7783.8	8066.3	8348.9	8174.0	7998.2
77.5°	7008.0	8258.7	9509.3	7983.5	6456.7	6023.3	5588.9	5672.7	5757.3	5727.9	5697.5
80°	4753.3	5624.8	6497.2	5481.2	4465.2	4498.4	4532.4	4492.8	4452.4	4511.3	4570.1
82.5°	3033.3	3706.0	4379.6	3840.4	3301.1	3610.3	3919.5	3767.7	3614.9	3671.0	3728.1
85°	1731.1	2389.1	3048.0	2840.9	2632.9	2813.3	2994.6	2759.0	2523.4	2626.5	2730.5
87.5°	456.5	1321.5	2187.5	1986.0	1784.4	1550.7	1316.9	1005.0	693.0	1012.3	1331.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320791

CATALOG NUMBER: GLEON-SA7A-830-U-SLR

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P320791

CATALOG NUMBER: GLEON-SA7A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	7012.6	7012.6	7012.6	7012.6	7012.6	7012.6	7012.6
2.5°	7917.2	7901.6	7845.5	7788.4	7703.7	7633.8	7512.3
5°	8486.0	8386.6	8215.4	8043.3	7851.9	7631.9	7388.1
7.5°	8687.5	8454.7	8126.1	7796.7	7500.3	7152.5	6828.5
10°	8601.9	8253.1	7826.1	7398.2	7038.4	6638.0	6278.2
12.5°	8438.1	8067.2	7597.0	7125.8	6716.3	6286.5	5883.4
15°	8212.6	7916.3	7475.5	7034.7	6622.4	6204.6	5727.0
17.5°	7966.0	7825.2	7506.8	7187.4	6830.4	6425.4	5865.0
20°	7767.2	7818.8	7691.8	7564.8	7278.6	6925.2	6295.7
22.5°	7632.9	7880.4	7978.0	8076.4	7904.4	7628.3	6900.3
25°	7557.4	7967.9	8294.6	8622.2	8545.8	8333.2	7634.7
27.5°	7590.5	8093.9	8601.0	9109.0	9179.9	9121.0	8408.7
30°	7689.9	8199.8	8817.3	9435.7	9718.2	9797.4	9053.8
32.5°	7855.6	8355.3	9028.0	9701.7	10128.7	10380.8	9643.7
35°	8105.9	8573.4	9274.7	9975.9	10528.1	10988.2	10252.9
37.5°	8535.7	8937.8	9584.8	10232.7	10948.7	11639.8	10923.8
40°	9165.1	9449.5	9996.2	10543.7	11444.7	12377.9	11672.0
42.5°	9959.4	10105.7	10539.1	10972.6	11962.8	13047.8	12403.6
45°	10819.8	10858.5	11130.9	11404.2	12373.3	13504.3	12953.1
47.5°	11648.1	11515.6	11624.2	11732.7	12688.0	13830.1	13369.9
50°	12500.3	12131.2	12074.2	12017.1	13002.7	14213.8	13900.0
52.5°	13367.2	12758.9	12533.4	12307.0	13378.2	14722.8	14559.9
55°	14215.7	13441.7	13138.0	12834.3	13952.5	15344.0	15528.9
57.5°	15098.2	14221.2	13939.6	13658.0	14796.4	16130.8	16398.6
60°	16048.0	15179.2	14953.8	14727.4	15845.5	16981.2	16786.0
62.5°	16948.9	16258.7	16140.0	16020.4	16906.6	17634.6	16635.1
65°	17550.8	17156.9	17267.4	17378.7	17709.1	17797.4	16193.4
67.5°	17148.6	17228.7	17695.3	18162.8	17935.5	17313.4	15322.8
70°	14914.2	15394.6	16499.8	17606.0	17101.7	16016.7	13760.1
72.5°	11585.5	12125.7	13766.6	15408.4	14943.6	13614.7	11302.1
75°	8607.5	9217.6	11028.7	12839.9	12194.7	10183.9	8092.1
77.5°	6106.1	6514.7	8302.8	10091.9	9040.0	6778.8	5445.3
80°	4445.0	4319.8	5316.5	6313.2	6138.3	4483.6	3497.1
82.5°	3422.6	3117.0	3586.4	4055.7	4029.9	3111.5	2565.8
85°	2608.1	2485.7	2900.7	3315.8	2960.6	2107.5	1630.8
87.5°	1520.3	1709.9	2198.6	2688.2	2017.3	639.6	316.6
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: P320791
 CATALOG NUMBER: GLEON-SA7A-830-U-SLR

CANDELA DISTRIBUTION (continued):

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

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
 Rf: 81.5
 Rg: 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

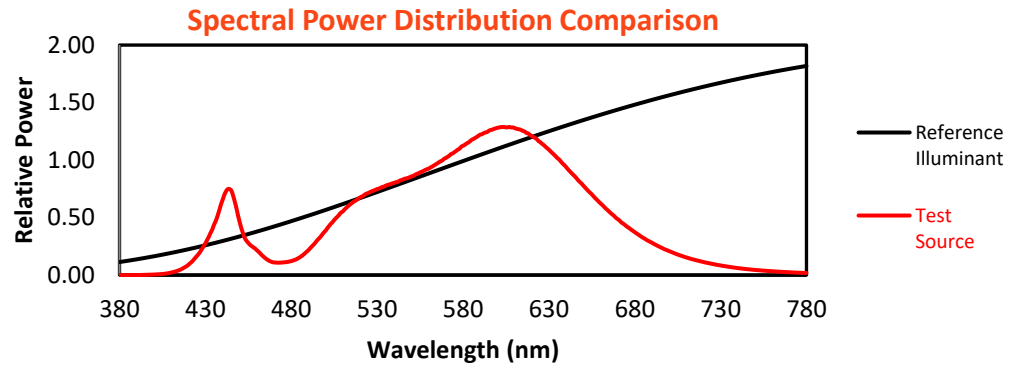
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	168	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

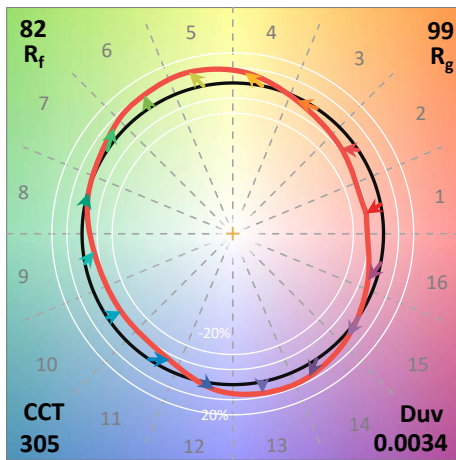
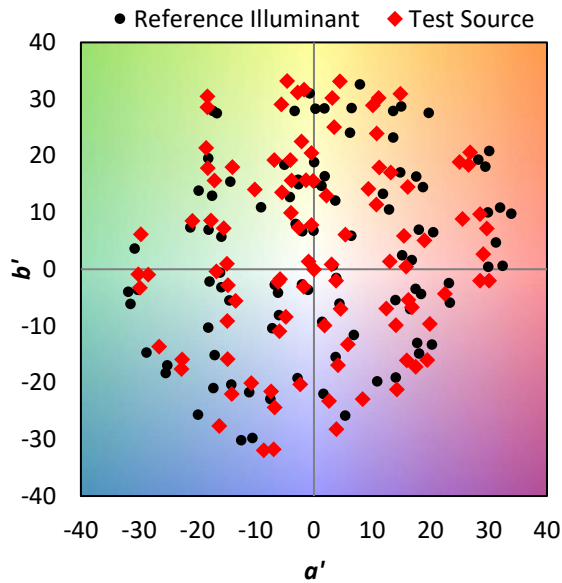
TM-30-18

Summary

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



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)