

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: P320474

Luminaire Tested: **GLEON-SA0A-830-U-SLL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320474
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-SA0A-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 615mA 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: 32212 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

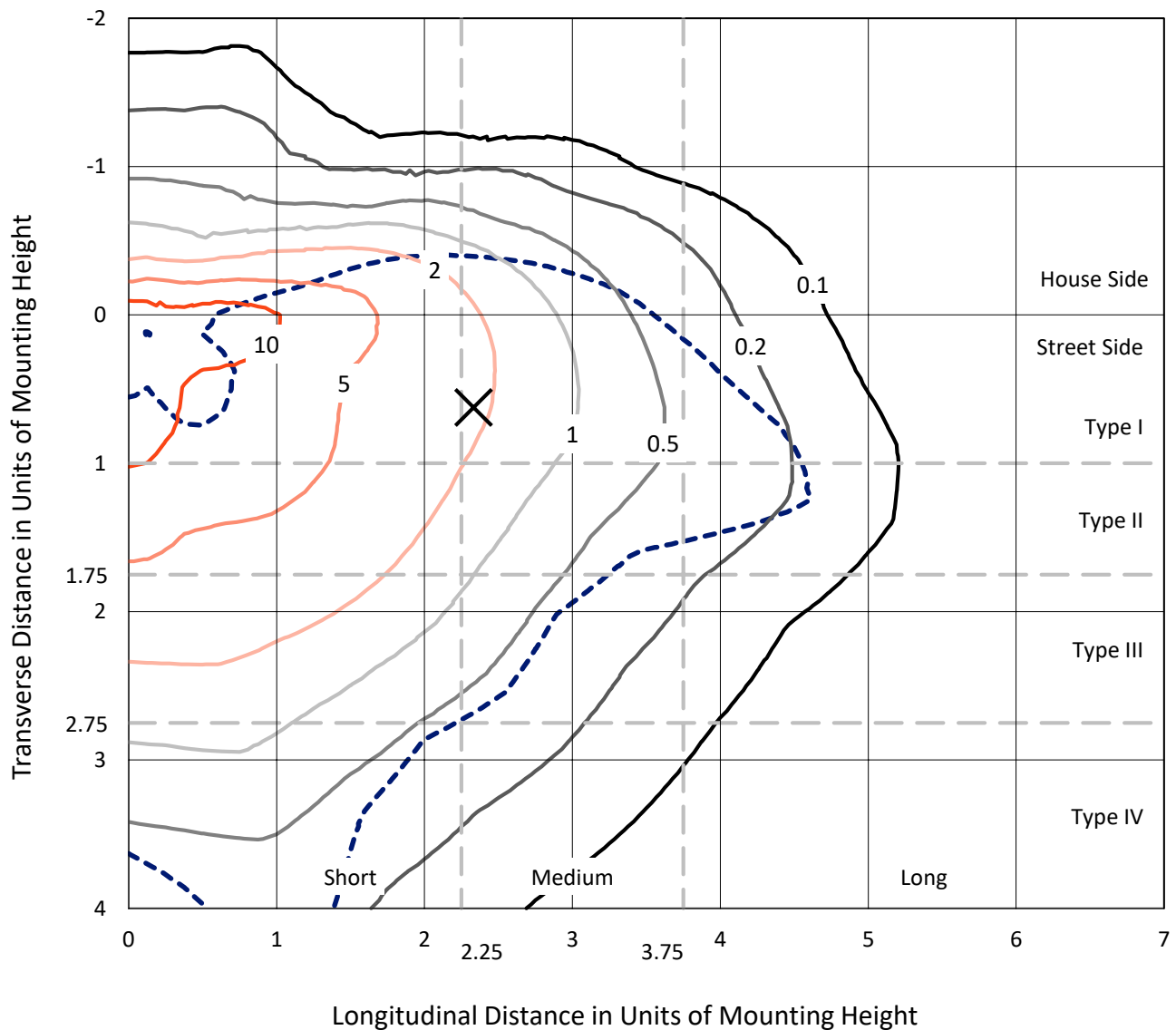
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

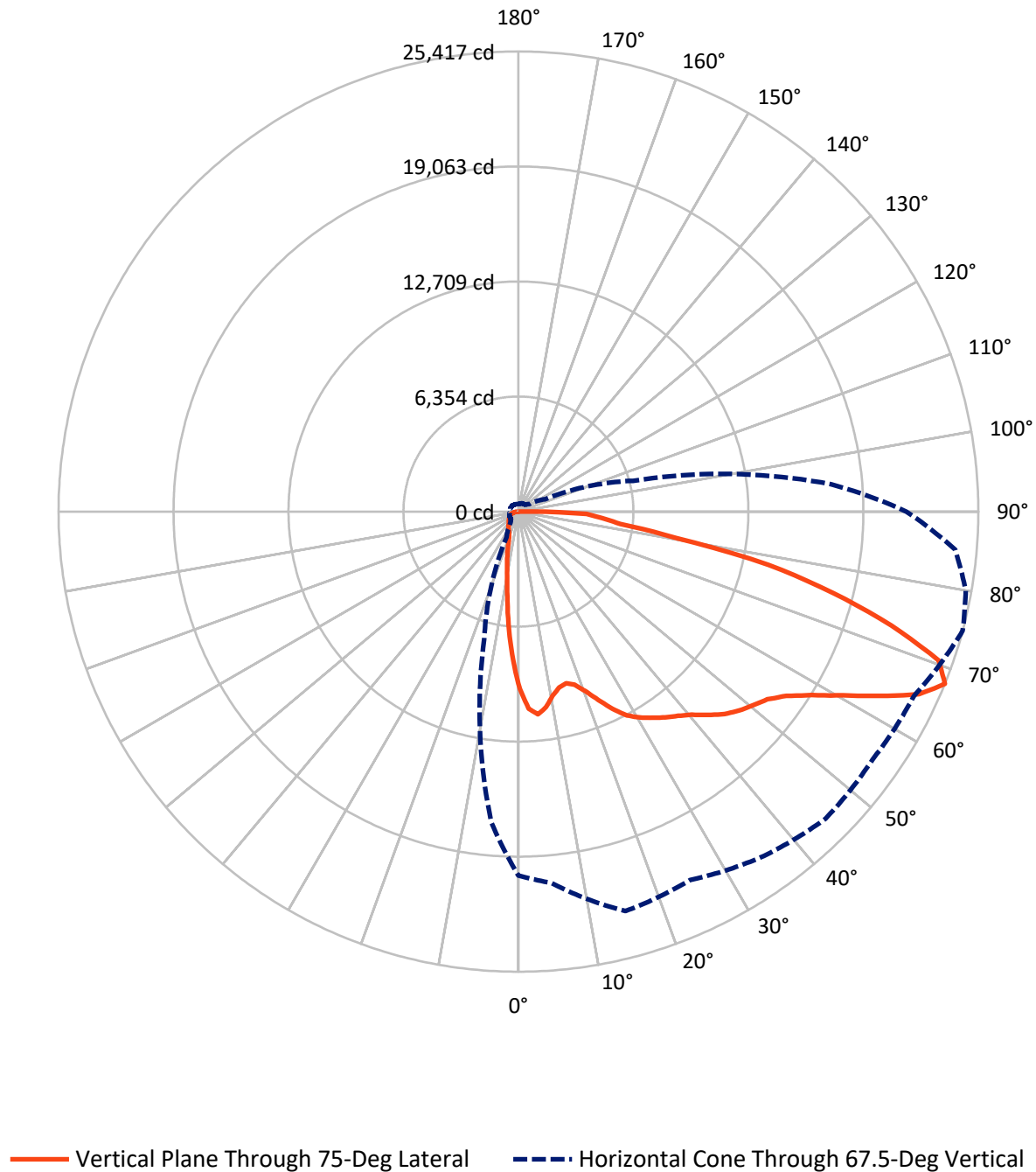
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.7 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	5673.3	0.0	5673.3
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	26538.7	0.0	26538.7
	% Fixture	82.4	0.0	82.4
Total	Lumens	32212.0	0.0	32212.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	757.4	2.4
10°-20°	1573.4	4.9
20°-30°	2237.7	6.9
30°-40°	3224.5	10.0
40°-50°	4544.3	14.1
50°-60°	6317.3	19.6
60°-70°	7639.5	23.7
70°-80°	4695.9	14.6
80°-90°	1222.0	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°	32212.0	100.0
0°-180°	32212.0	100.0

Coefficient of Utilization



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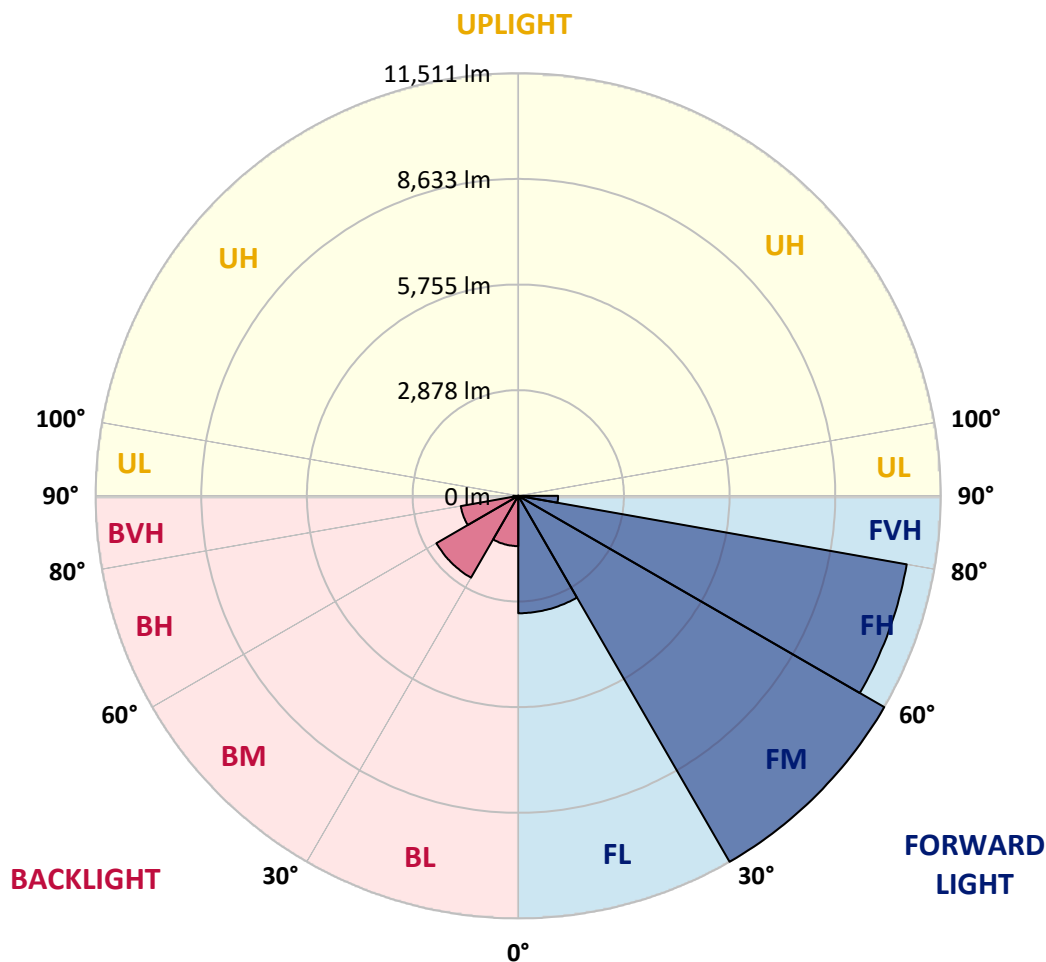
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3198.3	9.9			
FM	(30°-60°)	11510.9	35.7			
FH	(60°-80°)	10744.8	33.4			G4/12000
FVH	(80°-90°)	1084.7	3.4			G5
BL	(0°-30°)	1370.2	4.3	B3/2500		
BM	(30°-60°)	2575.3	8.0	B3/5000		
BH	(60°-80°)	1590.6	4.9	B3/2500		G3/2500
BVH	(80°-90°)	137.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5
2.5°	10460.0	10597.8	10693.1	10787.2	10860.6	10932.7	11038.3	11143.9	11164.5	11183.8	11142.6
5°	10398.2	10734.4	11020.3	11304.9	11568.9	11832.9	11991.3	12149.7	12181.9	12214.1	12115.0
7.5°	9732.4	10228.2	10724.1	11219.9	11674.5	12129.1	12406.0	12681.6	12744.7	12806.5	12644.3
10°	8975.1	9552.1	10161.3	10770.4	11369.3	11968.1	12368.7	12769.2	12849.0	12928.9	12726.7
12.5°	8399.5	9029.2	9679.6	10330.0	10962.3	11593.4	12008.1	12422.8	12521.9	12621.1	12474.3
15°	8177.9	8868.2	9480.0	10091.7	10642.9	11192.8	11532.8	11871.5	11912.8	11952.7	11929.5
17.5°	8399.5	9160.6	9714.4	10266.9	10566.9	10865.7	11002.2	11137.5	11182.5	11226.3	11285.6
20°	9047.3	9868.9	10259.1	10648.1	10635.2	10621.0	10555.3	10488.4	10476.8	10465.2	10632.6
22.5°	9971.9	10926.3	11082.1	11236.6	10874.7	10512.8	10292.6	10071.1	10027.3	9982.2	10160.0
25°	11057.6	12073.7	12045.4	12015.8	11326.8	10636.5	10216.6	9796.8	9747.9	9698.9	9850.9
27.5°	12238.6	13209.6	13024.2	12838.7	11902.5	10966.2	10357.0	9747.9	9698.9	9650.0	9783.9
30°	13162.0	14042.9	13745.4	13447.9	12388.0	11328.1	10604.3	9880.5	9800.7	9719.5	9884.4
32.5°	13943.7	14693.3	14294.0	13894.8	12782.1	11669.4	10886.3	10103.3	9978.4	9853.5	10073.7
35°	14757.7	15342.3	14780.8	14218.0	13133.7	12048.0	11219.9	10390.5	10237.2	10084.0	10386.6
37.5°	15673.3	16158.9	15352.6	14545.2	13529.0	12512.9	11719.6	10925.0	10767.8	10610.7	10997.1
40°	16640.5	17044.9	15969.5	14894.2	13961.8	13029.3	12411.2	11791.7	11642.3	11491.6	11960.4
42.5°	17486.6	17781.6	16543.9	15306.3	14483.3	13659.1	13223.8	12787.2	12785.9	12783.4	13258.6
45°	18124.1	18380.4	17023.0	15664.3	14992.0	14318.5	14091.8	13865.2	14046.8	14228.3	14658.5
47.5°	18653.4	18827.3	17424.8	16021.0	15574.2	15127.3	15160.8	15194.2	15563.9	15933.5	16210.4
50°	19258.7	19118.4	17789.3	16458.9	16321.1	16183.3	16484.7	16784.8	17209.7	17633.5	17821.5
52.5°	19914.3	19542.1	18283.8	17024.3	17178.8	17333.4	17946.4	18559.4	18988.3	19417.2	19488.0
55°	21092.7	20522.1	19193.1	17862.7	18160.2	18456.4	19356.6	20255.6	20590.4	20925.2	20951.0
57.5°	22420.5	21914.3	20466.8	19019.2	19338.6	19658.0	20697.3	21735.3	22097.2	22457.8	22407.6
60°	22931.7	22956.2	21676.1	20394.6	20716.6	21038.6	22050.8	23063.1	23479.1	23893.8	23783.0
62.5°	22416.6	23020.6	22336.7	21651.6	21943.9	22235.0	23226.7	24218.3	24644.6	25070.9	24877.7
65°	21397.9	21996.7	22303.3	22609.8	22706.4	22803.0	23728.9	24653.6	24980.7	25306.6	25208.7
67.5°	20102.3	20586.5	21717.3	22846.7	22652.3	22457.8	22891.8	23325.8	23662.0	23998.1	23942.7
70°	18601.9	19178.9	20687.0	22195.1	21239.5	20282.6	20103.6	19924.6	20287.7	20649.6	20425.6
72.5°	15911.6	16782.2	18390.7	19998.0	18237.5	16477.0	15865.2	15253.5	15713.2	16173.0	15816.3
75°	12018.4	13173.6	14950.8	16726.8	14626.3	12525.8	11709.3	10892.8	11288.1	11683.5	11438.8
77.5°	8358.2	9807.1	11557.3	13307.5	11172.2	9035.7	8429.1	7821.2	7939.7	8056.9	8015.7
80°	5698.8	6651.8	7872.7	9092.3	7670.5	6248.7	6296.4	6342.7	6287.4	6230.7	6313.1
82.5°	3573.8	4244.8	5187.5	6129.0	5374.3	4619.6	5052.3	5485.0	5272.5	5058.7	5138.6
85°	2012.9	2422.5	3344.6	4265.4	3975.6	3684.6	3938.3	4190.7	3861.0	3531.3	3676.9
87.5°	383.8	638.8	1850.7	3061.3	2779.2	2497.2	2170.1	1842.9	1406.3	969.8	1416.7
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



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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°	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5
2.5°	11101.4	11079.5	11057.6	10979.1	10899.2	10780.7	10682.8	10512.8	10420.1	10279.7	10139.4
5°	12014.5	11875.4	11736.3	11496.8	11255.9	10988.1	10680.3	10339.0	10081.4	9746.6	9411.7
7.5°	12482.0	12157.5	11831.6	11371.9	10910.8	10496.1	10009.3	9556.0	9169.6	8734.3	8299.0
10°	12524.5	12037.7	11549.6	10952.0	10353.2	9849.6	9289.4	8785.8	8322.2	7822.5	7321.5
12.5°	12326.2	11808.4	11289.4	10631.3	9971.9	9400.1	8797.4	8233.3	7719.5	7169.5	6618.3
15°	11906.3	11492.9	11078.2	10461.3	9844.4	9267.5	8682.8	8014.4	7433.6	6870.8	6306.7
17.5°	11343.5	11147.8	10950.7	10505.1	10058.2	9558.5	8991.9	8207.6	7527.6	6915.8	6304.1
20°	10798.8	10870.9	10941.7	10764.0	10586.3	10185.7	9691.2	8810.3	7942.3	7142.5	6341.5
22.5°	10336.4	10682.8	11028.0	11165.8	11302.3	11061.5	10675.1	9656.4	8507.6	7463.2	6418.7
25°	10001.6	10576.0	11150.3	11608.8	12066.0	11959.1	11661.6	10684.1	9257.2	7925.5	6592.6
27.5°	9917.9	10622.3	11326.8	12037.7	12747.3	12846.5	12764.0	11767.2	10151.0	8499.9	6847.6
30°	10049.2	10762.7	11474.9	12340.3	13204.5	13599.9	13710.6	12670.0	11172.2	9169.6	7165.7
32.5°	10293.9	10993.2	11692.5	12635.3	13576.7	14174.3	14527.1	13495.5	11884.4	9674.4	7463.2
35°	10689.3	11343.5	11997.8	12979.1	13960.5	14733.2	15377.1	14348.1	12516.8	10027.3	7536.6
37.5°	11382.2	11945.0	12507.8	13414.4	14319.8	15321.7	16288.9	15287.0	13200.6	10367.3	7532.7
40°	12429.2	12827.1	13223.8	13990.1	14755.1	16015.9	17321.8	16334.0	13956.6	10735.6	7514.7
42.5°	13733.8	13938.6	14142.1	14748.6	15355.2	16741.0	18259.4	17357.9	14677.8	11078.2	7478.6
45°	15087.3	15141.4	15195.5	15578.0	15959.2	17315.4	18898.1	18126.7	15307.6	11375.7	7442.6
47.5°	16486.0	16300.5	16115.1	16267.0	16419.0	17755.8	19354.0	18710.1	15939.9	11705.4	7469.6
50°	18009.5	17493.1	16976.6	16896.8	16817.0	18196.3	19891.1	19451.9	16699.8	12185.8	7671.8
52.5°	19557.5	18706.2	17855.0	17539.4	17222.6	18721.7	20603.3	20375.3	17784.1	12930.2	8074.9
55°	20976.8	19893.7	18810.6	18385.6	17960.6	19525.3	21472.6	21731.4	19173.7	13881.9	8588.8
57.5°	22356.1	21128.7	19901.4	19507.3	19113.2	20706.3	22573.7	22948.5	20577.5	14795.0	9011.2
60°	23672.3	22457.8	21242.1	20926.5	20609.7	22174.5	23763.7	23490.7	21301.3	15222.6	9142.6
62.5°	24684.5	23718.6	22752.7	22586.6	22419.2	23659.4	24678.1	23279.5	20841.5	14801.4	8761.4
65°	25110.8	24560.9	24009.7	24165.5	24320.1	24782.4	24906.0	22661.3	19396.5	13621.8	7847.0
67.5°	23886.0	23998.1	24110.1	24764.4	25417.3	25099.2	24228.6	21443.0	17339.8	11950.1	6560.4
70°	20200.2	20872.4	21543.4	23091.4	24638.2	23932.4	22414.0	19256.2	14864.5	10024.7	5183.7
72.5°	15458.3	16214.2	16968.9	19266.5	21562.7	20912.4	19052.7	15816.3	11917.9	8005.4	4091.5
75°	11192.8	12046.7	12899.3	15433.8	17968.3	17065.5	14251.5	11324.2	9052.4	6110.9	3168.1
77.5°	7973.2	8545.0	9116.8	11620.4	14122.7	12652.0	9486.4	7620.3	6265.5	4247.4	2228.0
80°	6395.5	6220.4	6045.2	7440.0	8834.8	8590.1	6274.5	4893.9	4336.2	2846.2	1356.1
82.5°	5217.1	4789.6	4362.0	5018.8	5675.6	5639.6	4354.3	3590.6	3227.4	1978.2	728.9
85°	3821.1	3649.8	3478.5	4059.4	4640.2	4144.4	2949.2	2282.1	2516.5	1456.6	396.7
87.5°	1863.5	2128.8	2392.9	3078.0	3761.9	2824.3	895.1	443.0	613.0	403.1	191.9
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: P320474
 CATALOG NUMBER: GLEON-SA0A-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: P320474

CATALOG NUMBER: GLEON-SA0A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5
2.5°	10035.0	9929.4	9809.7	9689.9	9553.4	9415.6	9334.5	9252.0	9163.2	9074.3	8973.8
5°	9190.2	8968.7	8717.6	8466.4	8217.9	7969.3	7835.4	7701.4	7559.8	7416.8	7293.2
7.5°	7977.0	7653.8	7306.1	6957.1	6648.0	6337.6	6145.7	5952.5	5777.4	5600.9	5452.8
10°	6909.4	6497.3	6148.3	5798.0	5564.9	5331.8	5155.3	4978.9	4808.9	4637.6	4474.0
12.5°	6206.2	5794.1	5572.6	5351.1	5157.9	4964.7	4761.2	4556.5	4323.4	4089.0	3917.7
15°	5931.9	5557.1	5311.2	5063.9	4805.0	4544.9	4295.0	4045.2	3769.6	3494.0	3299.5
17.5°	5813.4	5322.7	4978.9	4633.7	4292.5	3951.2	3661.4	3371.6	3070.3	2768.9	2571.9
20°	5688.5	5035.6	4574.5	4112.2	3674.3	3236.4	2908.0	2579.6	2310.4	2041.3	1890.6
22.5°	5575.2	4730.3	4152.1	3572.5	3054.8	2537.1	2215.1	1891.9	1727.0	1562.2	1501.7
25°	5528.8	4463.7	3752.8	3041.9	2495.9	1948.5	1719.3	1490.1	1427.0	1362.6	1331.7
27.5°	5536.5	4225.5	3416.7	2606.6	2114.7	1622.7	1465.6	1308.5	1269.8	1229.9	1210.6
30°	5566.2	3966.6	3099.9	2233.2	1827.5	1421.8	1320.1	1217.0	1175.8	1134.6	1110.1
32.5°	5599.6	3734.8	2855.2	1974.3	1643.3	1311.0	1227.3	1142.3	1102.4	1062.5	1038.0
35°	5541.7	3545.5	2687.8	1830.1	1524.8	1218.3	1147.5	1075.4	1031.6	987.8	964.6
37.5°	5443.8	3354.9	2557.7	1759.2	1447.6	1134.6	1083.1	1030.3	985.2	938.9	917.0
40°	5354.9	3193.9	2461.1	1727.0	1405.1	1081.8	1038.0	994.2	947.9	900.2	874.5
42.5°	5282.8	3085.7	2365.8	1645.9	1366.4	1085.7	1023.9	960.7	915.7	870.6	842.3
45°	5228.7	3014.9	2291.1	1567.3	1330.4	1093.4	1014.8	936.3	891.2	844.8	811.4
47.5°	5223.6	2977.5	2238.3	1499.1	1262.1	1023.9	991.7	959.5	893.8	826.8	788.2
50°	5294.4	2917.0	2176.5	1434.7	1196.4	958.2	1002.0	1044.5	932.4	819.1	770.1
52.5°	5442.5	2810.1	2078.6	1347.1	1116.6	884.8	953.0	1020.0	923.4	825.5	762.4
55°	5621.5	2653.0	1930.5	1206.7	1011.0	813.9	874.5	933.7	873.2	811.4	735.4
57.5°	5733.6	2454.7	1743.8	1032.9	892.5	752.1	786.9	820.4	795.9	771.4	694.2
60°	5666.6	2190.7	1533.8	875.7	788.2	700.6	694.2	686.4	722.5	758.6	669.7
62.5°	5339.5	1917.6	1348.4	779.2	713.5	646.5	632.3	616.9	676.1	734.1	640.1
65°	4787.0	1727.0	1231.2	735.4	662.0	588.6	573.1	557.6	575.7	593.7	549.9
67.5°	4085.1	1609.8	1164.2	718.6	629.8	539.6	521.6	503.6	499.7	495.8	480.4
70°	3361.3	1537.7	1120.4	703.2	595.0	485.5	468.8	452.0	446.9	440.5	428.9
72.5°	2810.1	1528.7	1115.3	701.9	566.7	431.4	416.0	400.5	394.1	386.4	377.3
75°	2301.4	1434.7	1058.6	682.6	528.0	372.2	358.0	343.9	338.7	332.3	324.5
77.5°	1707.7	1187.4	889.9	592.4	452.0	311.7	297.5	282.0	280.8	278.2	271.7
80°	1107.6	859.0	636.2	413.4	329.7	244.7	233.1	220.2	221.5	222.8	217.6
82.5°	615.6	501.0	388.9	276.9	225.4	173.9	168.7	162.3	166.1	168.7	162.3
85°	324.5	252.4	208.6	164.8	130.1	95.3	95.3	94.0	99.2	104.3	99.2
87.5°	140.4	88.9	76.0	61.8	34.8	6.4	7.7	7.7	10.3	12.9	11.6
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: P320474
 CATALOG NUMBER: GLEON-SA0A-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: P320474

CATALOG NUMBER: GLEON-SA0A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5
2.5°	8872.1	8778.1	8682.8	8578.5	8597.8	8517.9	8438.1	8387.9	8337.6	8322.2	8306.7
5°	7169.5	7062.7	6954.5	6857.9	6941.6	6884.9	6828.3	6820.5	6811.5	6811.5	6810.2
7.5°	5304.7	5190.1	5074.2	4994.3	5076.8	5066.5	5056.2	5111.5	5166.9	5212.0	5255.8
10°	4310.5	4171.4	4031.0	3912.5	3891.9	3832.7	3772.2	3785.0	3796.6	3845.6	3894.5
12.5°	3746.4	3580.3	3414.1	3275.0	3211.9	3114.1	3014.9	2953.1	2891.3	2897.7	2902.8
15°	3103.8	2942.8	2780.5	2660.7	2620.8	2544.8	2468.8	2391.6	2313.0	2280.8	2247.3
17.5°	2373.5	2244.7	2114.7	2034.8	2034.8	2012.9	1991.0	1952.4	1912.5	1880.3	1846.8
20°	1739.9	1671.6	1602.1	1568.6	1578.9	1580.2	1580.2	1599.5	1618.8	1608.5	1598.2
22.5°	1439.8	1415.4	1390.9	1376.7	1381.9	1383.2	1384.5	1402.5	1419.2	1432.1	1443.7
25°	1299.5	1284.0	1268.5	1263.4	1275.0	1276.3	1276.3	1287.9	1299.5	1312.3	1325.2
27.5°	1190.0	1183.5	1177.1	1168.1	1179.7	1179.7	1178.4	1191.3	1202.9	1214.5	1224.8
30°	1085.7	1088.2	1089.5	1087.0	1094.7	1099.8	1103.7	1112.7	1120.4	1129.5	1138.5
32.5°	1012.3	1008.4	1004.5	1002.0	1018.7	1027.7	1036.7	1045.7	1053.5	1057.3	1061.2
35°	941.4	932.4	923.4	917.0	932.4	944.0	955.6	972.3	987.8	990.4	992.9
37.5°	893.8	882.2	870.6	862.9	869.3	874.5	879.6	897.6	915.7	926.0	935.0
40°	848.7	837.1	825.5	819.1	822.9	824.2	825.5	834.5	842.3	861.6	879.6
42.5°	812.6	798.5	784.3	776.6	779.2	781.7	783.0	781.7	780.4	798.5	816.5
45°	776.6	761.1	745.7	736.7	737.9	737.9	737.9	735.4	731.5	740.5	749.5
47.5°	748.2	730.2	712.2	703.2	700.6	698.0	695.4	694.2	691.6	698.0	703.2
50°	719.9	700.6	680.0	669.7	663.3	660.7	658.1	656.8	654.2	660.7	665.8
52.5°	698.0	674.8	651.7	634.9	628.5	624.6	620.8	622.0	622.0	624.6	625.9
55°	659.4	638.8	616.9	605.3	593.7	591.1	588.6	592.4	595.0	595.0	595.0
57.5°	616.9	597.6	577.0	569.2	558.9	558.9	557.6	562.8	566.7	569.2	571.8
60°	579.5	557.6	535.8	529.3	525.4	524.2	522.9	529.3	534.5	539.6	544.8
62.5°	544.8	521.6	498.4	490.7	489.4	490.7	490.7	497.1	502.3	507.4	512.6
65°	506.1	482.9	458.5	450.8	453.3	457.2	461.1	466.2	470.1	475.2	480.4
67.5°	463.6	444.3	423.7	416.0	417.3	422.4	427.6	431.4	434.0	439.2	444.3
70°	417.3	400.5	383.8	378.6	377.3	383.8	388.9	391.5	394.1	400.5	405.7
72.5°	367.0	352.9	338.7	334.8	336.1	340.0	343.9	347.7	350.3	356.7	361.9
75°	315.5	302.6	289.8	287.2	289.8	293.6	297.5	300.1	302.6	310.4	316.8
77.5°	265.3	251.1	235.7	234.4	238.3	242.1	244.7	248.6	252.4	262.7	273.0
80°	212.5	197.0	180.3	179.0	182.9	186.7	190.6	194.5	198.3	211.2	222.8
82.5°	155.8	137.8	119.8	117.2	130.1	133.9	137.8	144.2	149.4	161.0	172.6
85°	94.0	76.0	58.0	56.7	68.3	74.7	81.1	88.9	95.3	105.6	115.9
87.5°	10.3	5.2	0.0	0.0	1.3	6.4	11.6	18.0	24.5	34.8	43.8
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: P320474
 CATALOG NUMBER: GLEON-SA0A-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: P320474

CATALOG NUMBER: GLEON-SA0A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5
2.5°	8250.1	8192.1	8251.4	8309.3	8333.8	8358.2	8295.1	8230.7	8331.2	8430.4	8456.1
5°	6758.7	6705.9	6745.8	6784.5	6698.2	6611.9	6602.9	6592.6	6667.3	6742.0	6753.6
7.5°	5239.0	5222.3	5259.6	5297.0	5187.5	5076.8	5022.7	4968.6	4986.6	5004.6	5002.1
10°	3906.1	3916.4	3962.8	4007.8	3922.8	3837.8	3800.5	3763.1	3804.4	3844.3	3881.6
12.5°	2926.0	2947.9	2996.9	3044.5	3009.7	2973.7	2977.5	2981.4	3029.1	3075.4	3116.6
15°	2273.1	2298.8	2333.6	2367.1	2368.4	2368.4	2401.9	2434.1	2430.2	2426.3	2454.7
17.5°	1881.6	1915.1	1918.9	1922.8	1924.1	1925.4	1922.8	1920.2	1900.9	1881.6	1903.5
20°	1611.1	1622.7	1633.0	1642.0	1630.4	1617.6	1585.4	1553.2	1540.3	1527.4	1548.0
22.5°	1465.6	1486.2	1475.9	1464.3	1441.1	1416.7	1392.2	1366.4	1365.1	1362.6	1374.2
25°	1343.2	1360.0	1342.0	1323.9	1307.2	1290.4	1273.7	1257.0	1255.7	1254.4	1259.5
27.5°	1241.5	1257.0	1240.2	1223.5	1209.3	1195.1	1182.3	1169.4	1166.8	1164.2	1165.5
30°	1153.9	1168.1	1153.9	1138.5	1128.2	1116.6	1107.6	1098.5	1097.3	1096.0	1096.0
32.5°	1075.4	1089.5	1079.2	1068.9	1059.9	1050.9	1044.5	1038.0	1031.6	1025.1	1011.0
35°	1007.1	1021.3	1014.8	1007.1	996.8	986.5	974.9	962.0	945.3	927.3	919.5
37.5°	949.2	963.3	956.9	950.4	936.3	922.1	901.5	879.6	874.5	868.0	866.7
40°	902.8	924.7	911.8	897.6	875.7	853.9	843.6	833.2	830.7	828.1	825.5
42.5°	851.3	884.8	861.6	838.4	817.8	797.2	794.6	792.0	790.7	789.5	789.5
45°	786.9	822.9	799.8	775.3	763.7	752.1	752.1	752.1	753.4	753.4	756.0
47.5°	726.4	748.2	736.7	725.1	718.6	712.2	713.5	714.8	718.6	721.2	727.6
50°	674.8	682.6	685.1	686.4	682.6	678.7	681.3	682.6	686.4	689.0	694.2
52.5°	637.5	649.1	649.1	647.8	647.8	647.8	650.4	652.9	656.8	660.7	665.8
55°	613.0	629.8	624.6	619.5	620.8	620.8	623.3	625.9	629.8	632.3	640.1
57.5°	589.8	607.9	602.7	597.6	597.6	597.6	598.9	600.1	604.0	606.6	611.7
60°	562.8	580.8	575.7	569.2	570.5	571.8	573.1	573.1	575.7	577.0	577.0
62.5°	530.6	548.6	543.5	537.0	540.9	543.5	543.5	543.5	546.1	547.3	543.5
65°	497.1	513.9	508.7	503.6	508.7	512.6	515.1	516.4	515.1	513.9	510.0
67.5°	461.1	477.8	472.6	466.2	472.6	477.8	482.9	486.8	482.9	479.1	473.9
70°	422.4	439.2	432.7	426.3	432.7	439.2	444.3	449.5	444.3	439.2	437.9
72.5°	381.2	400.5	392.8	385.1	392.8	400.5	403.1	405.7	401.8	398.0	395.4
75°	336.1	355.5	349.0	341.3	347.7	354.2	355.5	356.7	356.7	355.5	347.7
77.5°	288.5	303.9	300.1	296.2	300.1	303.9	303.9	303.9	305.2	305.2	294.9
80°	231.8	240.8	242.1	243.4	244.7	246.0	244.7	243.4	240.8	238.3	231.8
82.5°	172.6	172.6	182.9	191.9	191.9	190.6	189.3	186.7	181.6	175.1	161.0
85°	109.5	103.0	119.8	135.2	135.2	133.9	131.4	127.5	117.2	105.6	94.0
87.5°	37.3	30.9	47.7	64.4	65.7	65.7	63.1	60.5	50.2	38.6	29.6
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: P320474
 CATALOG NUMBER: GLEON-SA0A-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: P320474

CATALOG NUMBER: GLEON-SA0A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5
2.5°	8494.8	8511.5	8527.0	8653.2	8778.1	8924.9	9071.7	9183.8	9294.5	9409.1	9523.8
5°	6793.5	6814.1	6834.7	6988.0	7139.9	7344.7	7549.5	7725.9	7902.3	8109.7	8317.0
7.5°	5035.6	5080.6	5124.4	5288.0	5450.2	5670.5	5889.4	6119.9	6349.2	6619.6	6890.1
10°	3955.0	4040.0	4123.7	4291.2	4458.6	4676.2	4892.6	5133.4	5374.3	5640.9	5906.2
12.5°	3201.6	3315.0	3427.0	3627.9	3828.8	4089.0	4347.8	4615.7	4882.3	5116.7	5351.1
15°	2529.4	2653.0	2775.4	2987.8	3200.3	3486.3	3770.9	4063.2	4354.3	4635.0	4915.8
17.5°	1973.0	2074.8	2175.2	2355.5	2534.5	2811.4	3088.3	3394.8	3701.3	4043.9	4385.2
20°	1591.8	1634.3	1676.8	1806.9	1935.7	2161.0	2385.1	2698.1	3011.0	3420.6	3830.1
22.5°	1394.8	1416.7	1437.3	1500.4	1562.2	1707.7	1852.0	2128.8	2404.4	2851.3	3296.9
25°	1276.3	1293.0	1309.8	1351.0	1392.2	1461.7	1531.3	1725.7	1920.2	2359.4	2797.2
27.5°	1169.4	1195.1	1219.6	1238.9	1257.0	1304.6	1351.0	1478.5	1606.0	2015.5	2423.8
30°	1092.1	1101.1	1110.1	1139.8	1168.1	1217.0	1266.0	1354.8	1443.7	1790.1	2135.3
32.5°	1002.0	1014.8	1027.7	1058.6	1089.5	1134.6	1179.7	1251.8	1322.6	1618.8	1913.8
35°	920.8	933.7	946.6	977.5	1007.1	1056.0	1103.7	1164.2	1223.5	1481.0	1738.6
37.5°	870.6	883.5	896.4	923.4	949.2	998.1	1045.7	1093.4	1139.8	1378.0	1616.3
40°	828.1	841.0	853.9	879.6	904.1	951.7	998.1	1038.0	1077.9	1300.7	1523.5
42.5°	790.7	804.9	819.1	844.8	869.3	911.8	954.3	1007.1	1058.6	1233.8	1407.6
45°	759.8	774.0	786.9	815.2	843.6	884.8	926.0	999.4	1072.8	1199.0	1325.2
47.5°	731.5	747.0	761.1	792.0	822.9	874.5	924.7	986.5	1047.0	1172.0	1296.9
50°	704.5	722.5	740.5	777.9	813.9	900.2	985.2	994.2	1002.0	1150.1	1296.9
52.5°	678.7	699.3	719.9	766.3	811.4	911.8	1012.3	980.1	946.6	1108.9	1271.1
55°	652.9	671.0	687.7	744.4	801.1	874.5	947.9	905.4	861.6	1031.6	1201.6
57.5°	618.2	637.5	655.5	716.1	776.6	828.1	878.3	839.7	799.8	944.0	1087.0
60°	582.1	604.0	625.9	703.2	779.2	770.1	759.8	752.1	743.1	846.1	949.2
62.5°	549.9	573.1	596.3	696.7	797.2	735.4	673.6	680.0	685.1	761.1	837.1
65°	517.7	540.9	562.8	613.0	663.3	638.8	614.3	624.6	633.6	708.3	783.0
67.5°	481.7	502.3	521.6	538.3	555.1	557.6	560.2	570.5	580.8	669.7	757.3
70°	441.7	458.5	475.2	486.8	497.1	502.3	506.1	519.0	531.9	628.5	725.1
72.5°	396.7	410.8	423.7	434.0	444.3	448.2	450.8	463.6	476.5	579.5	682.6
75°	347.7	359.3	369.6	378.6	387.6	392.8	398.0	407.0	416.0	528.0	638.8
77.5°	293.6	305.2	315.5	323.3	329.7	334.8	338.7	350.3	361.9	455.9	548.6
80°	229.2	243.4	256.3	262.7	267.9	269.2	269.2	279.5	289.8	356.7	422.4
82.5°	162.3	177.7	191.9	197.0	202.2	202.2	202.2	213.8	225.4	270.5	314.2
85°	95.3	112.0	127.5	132.7	137.8	140.4	141.7	146.8	150.7	182.9	213.8
87.5°	29.6	43.8	56.7	59.2	61.8	67.0	72.1	73.4	73.4	95.3	117.2
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: P320474
 CATALOG NUMBER: GLEON-SA0A-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: P320474

CATALOG NUMBER: GLEON-SA0A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5	9813.5
2.5°	9655.1	9786.5	9939.7	10091.7	10221.8	10351.9	10460.0
5°	8581.0	8845.1	9168.3	9490.3	9777.5	10064.7	10398.2
7.5°	7231.4	7572.7	7991.2	8409.8	8815.4	9219.8	9732.4
10°	6253.9	6600.3	7043.3	7485.1	7941.0	8395.6	8975.1
12.5°	5633.1	5913.9	6342.7	6771.6	7307.4	7841.8	8399.5
15°	5223.6	5530.1	5947.4	6364.6	6950.6	7536.6	8177.9
17.5°	4787.0	5187.5	5722.0	6256.5	6950.6	7643.5	8399.5
20°	4329.8	4828.2	5521.1	6214.0	7148.9	8082.6	9047.3
22.5°	3873.9	4450.9	5339.5	6226.8	7449.0	8669.9	9971.9
25°	3463.1	4128.9	5228.7	6327.3	7885.6	9442.6	11057.6
27.5°	3151.4	3877.8	5183.7	6488.3	8439.4	10390.5	12238.6
30°	2874.5	3613.8	5129.6	6645.4	8972.6	11298.4	13162.0
32.5°	2635.0	3356.2	5025.3	6693.0	9344.8	11996.5	13943.7
35°	2446.9	3155.3	4850.1	6544.9	9577.9	12610.8	14757.7
37.5°	2284.7	2953.1	4650.5	6347.9	9785.2	13222.5	15673.3
40°	2130.1	2736.7	4479.2	6220.4	10071.1	13921.8	16640.5
42.5°	1983.3	2559.0	4341.4	6123.8	10336.4	14547.7	17486.6
45°	1873.8	2422.5	4219.0	6014.3	10507.7	15001.1	18124.1
47.5°	1819.8	2341.3	4153.4	5964.1	10679.0	15392.6	18653.4
50°	1812.0	2327.2	4228.1	6129.0	11049.9	15969.5	19258.7
52.5°	1810.7	2350.4	4443.1	6535.9	11738.9	16940.6	19914.3
55°	1783.7	2364.5	4699.4	7033.0	12663.6	18292.8	21092.7
57.5°	1701.3	2315.6	4963.4	7610.0	13641.1	19670.9	22420.5
60°	1573.8	2197.1	5181.1	8163.8	14297.9	20430.7	22931.7
62.5°	1414.1	1989.8	5253.2	8515.4	14279.9	20044.3	22416.6
65°	1277.6	1772.1	5016.2	8259.1	13557.4	18854.4	21397.9
67.5°	1156.5	1554.5	4423.8	7291.9	12257.9	17222.6	20102.3
70°	1068.9	1411.5	3660.1	5908.7	10631.3	15352.6	18601.9
72.5°	1013.6	1343.2	2984.0	4623.4	8627.4	12630.1	15911.6
75°	937.6	1236.4	2341.3	3445.0	6602.9	9760.7	12018.4
77.5°	795.9	1041.9	1764.4	2486.9	4845.0	7201.7	8358.2
80°	614.3	804.9	1213.2	1621.4	3334.3	5047.1	5698.8
82.5°	437.9	561.5	735.4	909.2	2215.1	3519.7	3573.8
85°	270.5	327.1	421.1	515.1	1465.6	2416.0	2012.9
87.5°	145.5	173.9	222.8	270.5	468.8	667.1	383.8
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: P320474
 CATALOG NUMBER: GLEON-SA0A-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.

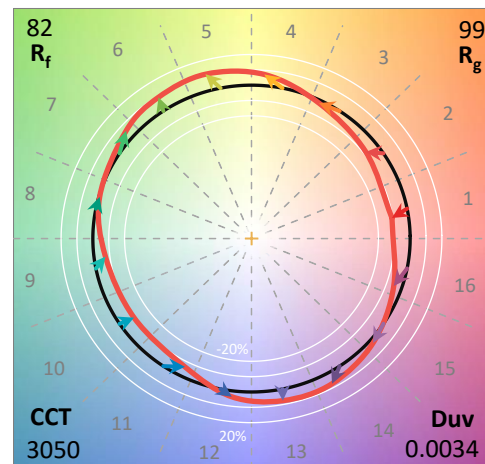
Test Information

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

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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

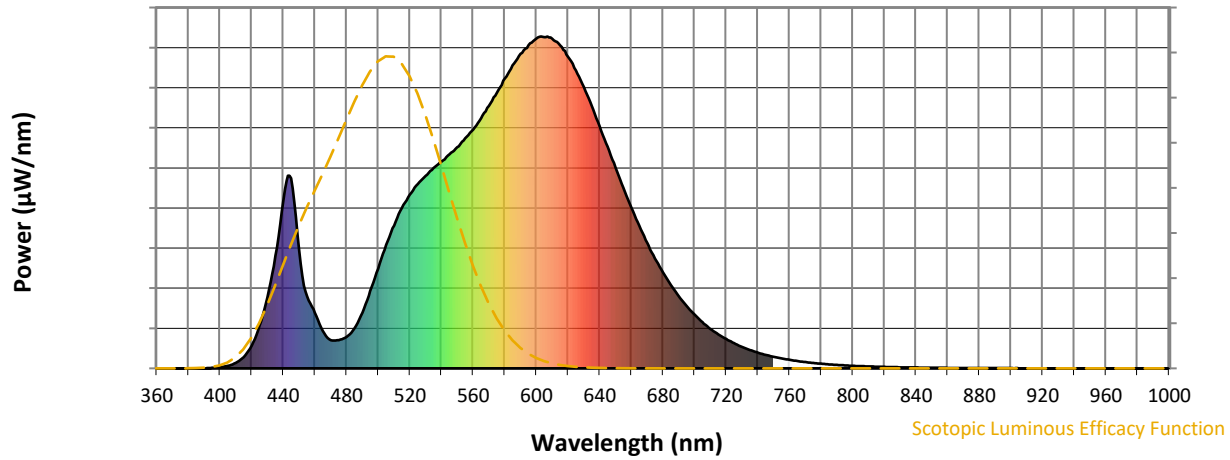


Photopic Lumens: NR

λ (nm)	Power W/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

Scotopic Flux vs. Wavelength


Scotopic Lumens: NR
S/P: 1.27

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

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			

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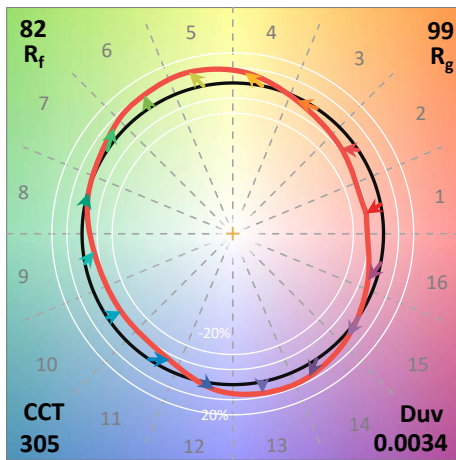
TM-30-18

Summary

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



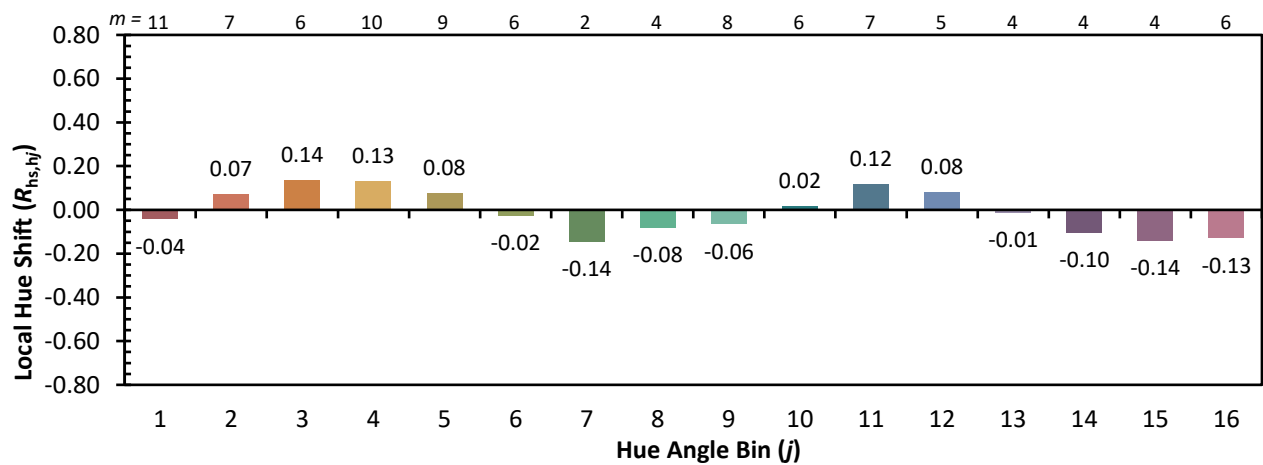
Color Vector Graphics

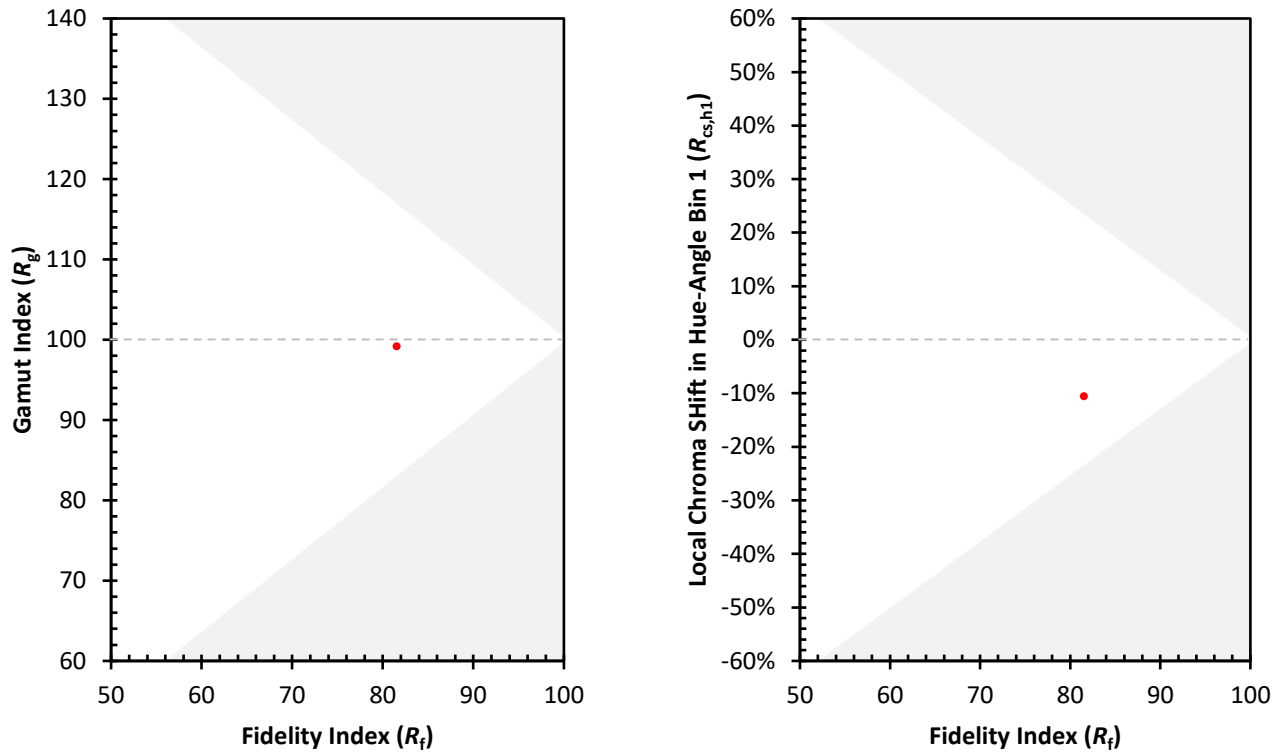


Individual Sample Fidelity Index ($R_{f,i}$)

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)