

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: P320493

Luminaire Tested: **GLEON-SA9C-830-U-SLL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320493
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-SA9C-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44158 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

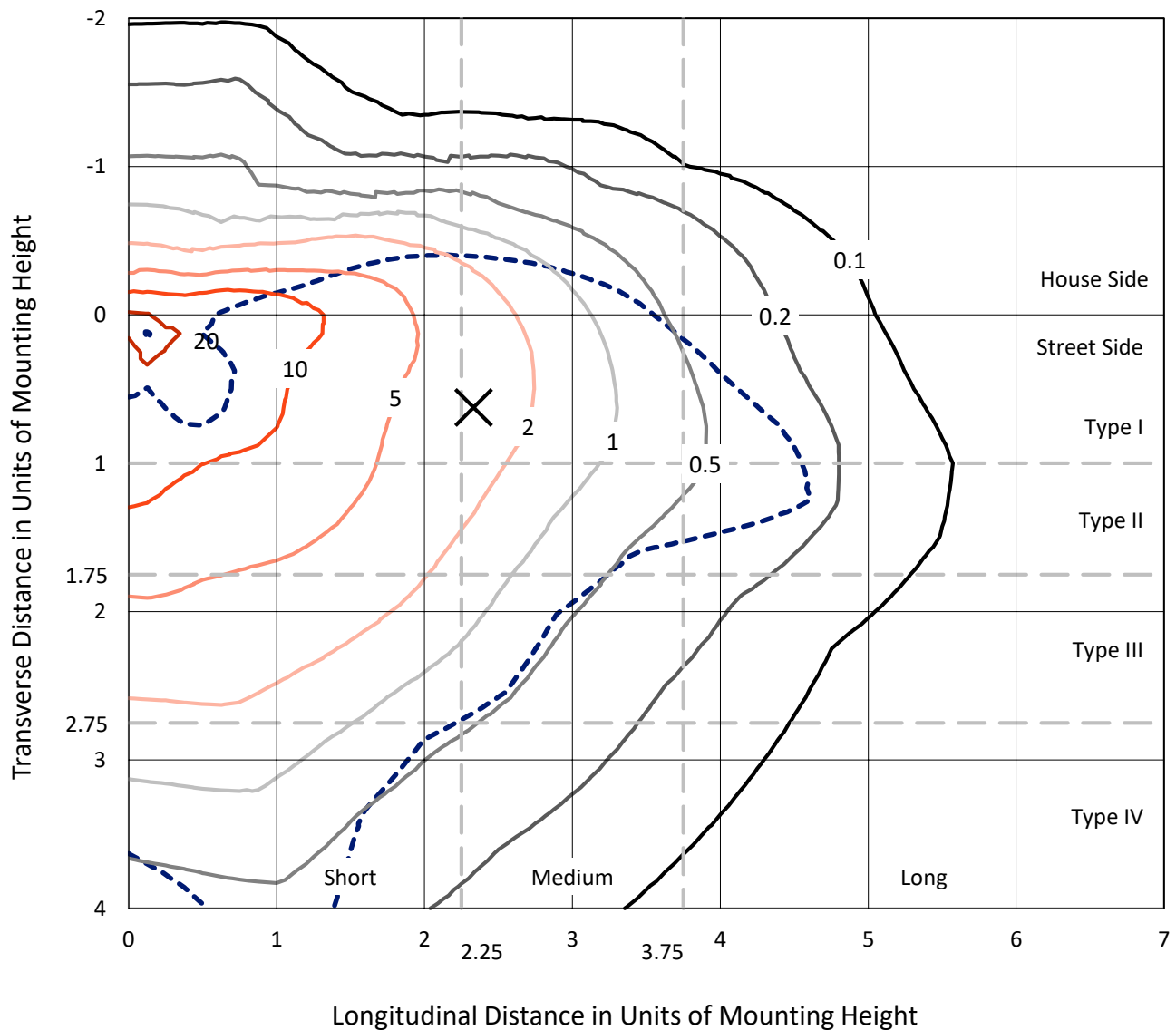
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

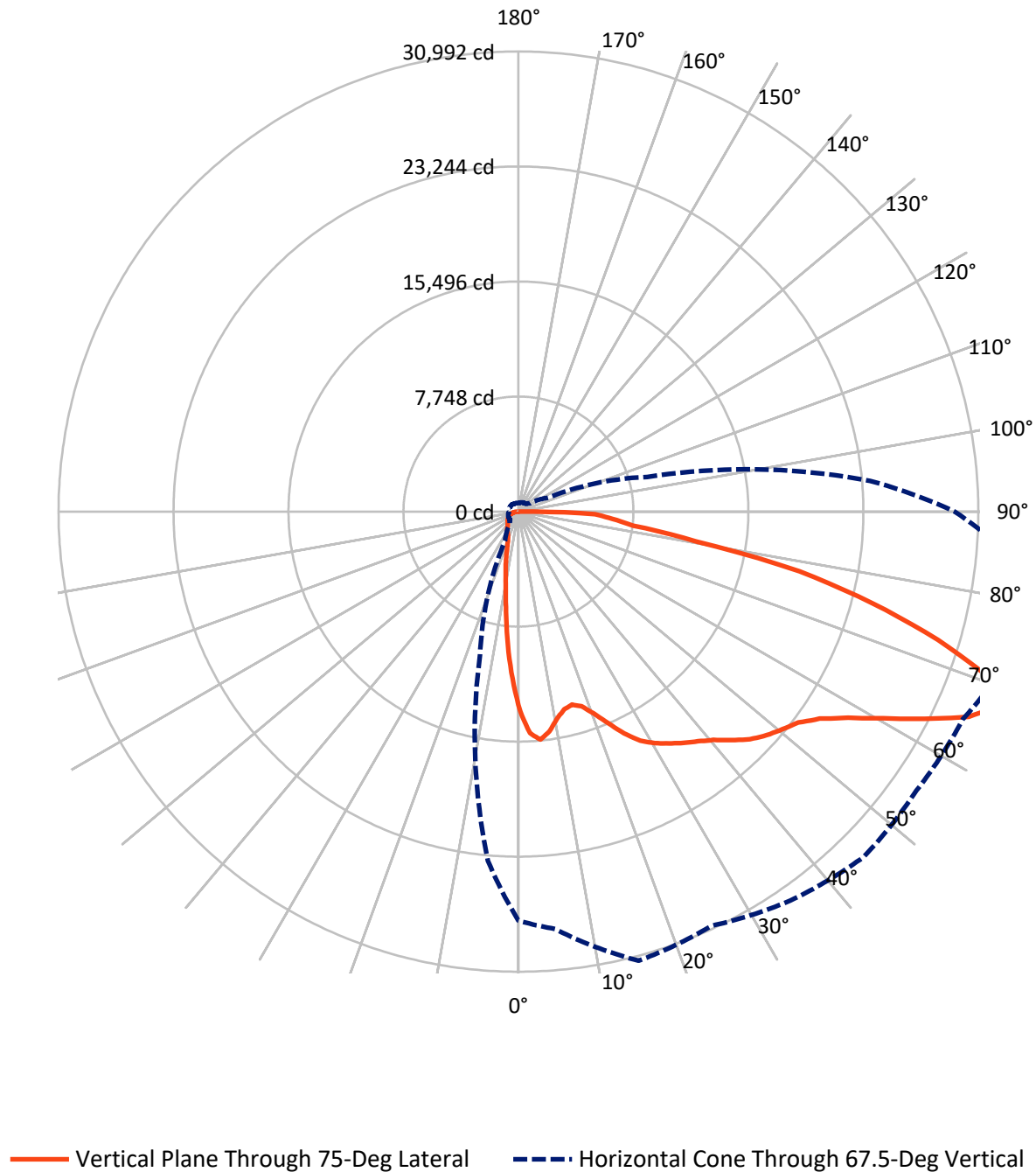
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.1 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	7777.3	0.0	7777.3
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	36380.7	0.0	36380.7
	% Fixture	82.4	0.0	82.4
Total	Lumens	44158.0	0.0	44158.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1038.3	2.4
10°-20°	2156.9	4.9
20°-30°	3067.6	6.9
30°-40°	4420.3	10.0
40°-50°	6229.5	14.1
50°-60°	8660.1	19.6
60°-70°	10472.7	23.7
70°-80°	6437.4	14.6
80°-90°	1675.1	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°	44158.0	100.0
0°-180°	44158.0	100.0

Coefficient of Utilization



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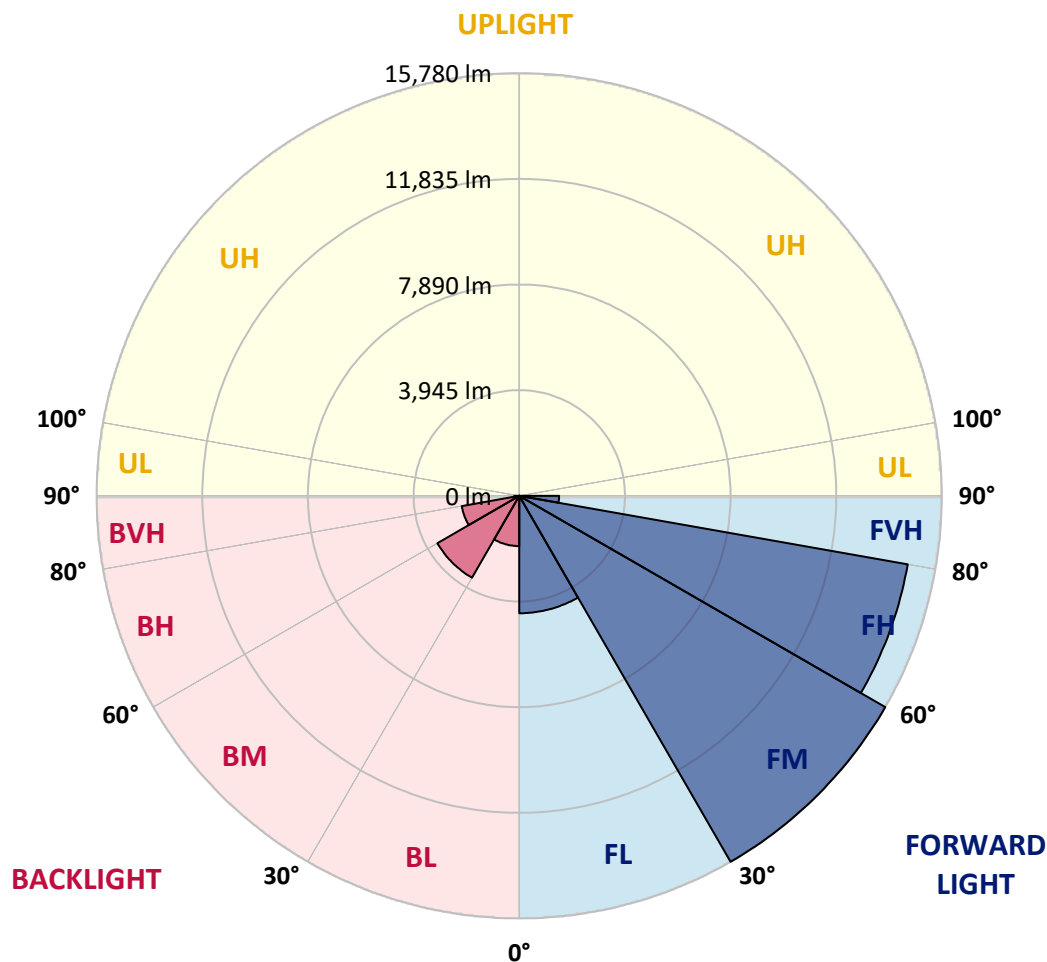
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4384.4	9.9			
FM	(30°-60°)	15779.7	35.7			
FH	(60°-80°)	14729.6	33.4			G5
FVH	(80°-90°)	1486.9	3.4			G5
BL	(0°-30°)	1878.3	4.3	B3/2500		
BM	(30°-60°)	3530.3	8.0	B3/5000		
BH	(60°-80°)	2180.5	4.9	B3/2500		G3/2500
BVH	(80°-90°)	188.2	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°	13452.9	13452.9	13452.9	13452.9	13452.9	13452.9	13452.9	13452.9	13452.9	13452.9	13452.9
2.5°	14339.2	14528.1	14658.8	14787.6	14888.3	14987.1	15131.9	15276.7	15304.9	15331.4	15274.9
5°	14254.5	14715.3	15107.2	15497.4	15859.3	16221.2	16438.4	16655.5	16699.7	16743.8	16607.9
7.5°	13341.7	14021.4	14701.1	15380.8	16004.1	16627.3	17006.8	17384.7	17471.2	17555.9	17333.5
10°	12303.6	13094.5	13929.6	14764.7	15585.6	16406.6	16955.6	17504.7	17614.2	17723.6	17446.5
12.5°	11514.4	12377.8	13269.3	14160.9	15027.7	15892.8	16461.3	17029.8	17165.7	17301.7	17100.4
15°	11210.8	12157.1	12995.7	13834.3	14589.9	15343.8	15809.9	16274.2	16330.7	16385.4	16353.6
17.5°	11514.4	12557.8	13317.0	14074.4	14485.7	14895.3	15082.5	15267.9	15329.6	15389.7	15470.9
20°	12402.5	13528.9	14063.8	14597.0	14579.3	14559.9	14469.9	14378.1	14362.2	14346.3	14575.8
22.5°	13670.1	14978.3	15191.9	15403.8	14907.7	14411.6	14109.7	13806.0	13746.0	13684.2	13927.9
25°	15158.4	16551.4	16512.5	16471.9	15527.4	14581.1	14005.5	13430.0	13362.9	13295.8	13504.1
27.5°	16777.3	18108.5	17854.3	17600.0	16316.5	15033.0	14198.0	13362.9	13295.8	13228.7	13412.3
30°	18043.2	19250.8	18842.9	18435.1	16982.1	15529.1	14536.9	13544.7	13435.3	13324.1	13550.0
32.5°	19114.8	20142.3	19595.0	19047.7	17522.4	15997.0	14923.6	13850.2	13678.9	13507.7	13809.6
35°	20230.6	21032.1	20262.4	19490.9	18004.3	16516.0	15380.8	14243.9	14033.8	13823.7	14238.6
37.5°	21485.9	22151.5	21046.3	19939.3	18546.3	17153.4	16065.8	14976.5	14761.2	14545.8	15075.4
40°	22811.7	23366.1	21891.9	20417.8	19139.5	17861.3	17013.9	16164.7	15959.9	15753.4	16396.0
42.5°	23971.7	24376.0	22679.3	20982.7	19854.6	18724.7	18127.9	17529.4	17527.7	17524.1	18175.6
45°	24845.6	25196.9	23336.1	21473.5	20551.9	19628.6	19317.9	19007.1	19256.1	19505.0	20094.7
47.5°	25571.2	25809.5	23886.9	21962.5	21349.9	20737.3	20783.2	20829.1	21335.8	21842.5	22222.1
50°	26401.0	26208.5	24386.5	22562.8	22373.9	22185.0	22598.1	23009.5	23592.1	24172.9	24430.7
52.5°	27299.6	26789.4	25064.5	23337.9	23549.7	23761.6	24601.9	25442.3	26030.2	26618.1	26715.2
55°	28915.0	28132.9	26310.9	24487.2	24895.0	25301.1	26535.1	27767.4	28226.5	28685.5	28720.8
57.5°	30735.2	30041.4	28057.0	26072.6	26510.4	26948.3	28373.0	29796.0	30292.1	30786.4	30717.5
60°	31436.1	31469.6	29714.8	27958.1	28399.5	28840.8	30228.5	31616.2	32186.4	32754.9	32603.1
62.5°	30729.9	31557.9	30620.4	29681.2	30082.0	30481.0	31840.4	33199.8	33784.2	34368.6	34103.7
65°	29333.4	30154.4	30574.5	30994.7	31127.1	31259.6	32528.9	33796.5	34245.0	34691.6	34557.5
67.5°	27557.3	28221.2	29771.3	31319.6	31053.0	30786.4	31381.4	31976.3	32437.1	32897.9	32822.0
70°	25500.6	26291.5	28358.9	30426.2	29116.3	27804.5	27559.1	27313.7	27811.6	28307.7	28000.5
72.5°	21812.5	23005.9	25211.0	27414.3	25000.9	22587.5	21748.9	20910.3	21540.6	22170.9	21681.8
75°	16475.4	18059.1	20495.4	22930.0	20050.5	17171.0	16051.7	14932.4	15474.4	16016.4	15681.0
77.5°	11458.0	13444.1	15843.4	18242.7	15315.5	12386.6	11555.1	10721.7	10884.2	11044.8	10988.3
80°	7812.2	9118.7	10792.4	12464.3	10515.2	8566.1	8631.4	8695.0	8619.1	8541.4	8654.4
82.5°	4899.2	5819.0	7111.3	8401.9	7367.3	6332.8	6926.0	7519.2	7227.9	6934.8	7044.3
85°	2759.4	3320.9	4584.9	5847.3	5450.0	5051.0	5398.8	5744.9	5292.9	4840.9	5040.4
87.5°	526.1	875.7	2537.0	4196.5	3809.9	3423.3	2974.8	2526.4	1927.9	1329.4	1942.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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°	13452.9	13452.9	13452.9	13452.9	13452.9	13452.9	13452.9	13452.9	13452.9	13452.9	13452.9
2.5°	15218.4	15188.4	15158.4	15050.7	14941.2	14778.8	14644.6	14411.6	14284.5	14092.0	13899.6
5°	16470.1	16279.5	16088.8	15760.4	15430.3	15063.1	14641.1	14173.3	13820.2	13361.1	12902.1
7.5°	17111.0	16666.1	16219.4	15589.2	14957.1	14388.6	13721.3	13099.8	12570.2	11973.5	11376.7
10°	17169.3	16501.9	15832.8	15013.6	14192.7	13502.4	12734.4	12044.1	11408.5	10723.5	10036.7
12.5°	16897.4	16187.7	15476.2	14574.0	13670.1	12886.2	12060.0	11286.7	10582.3	9828.4	9072.8
15°	16321.8	15755.1	15186.6	14341.0	13495.3	12704.4	11902.9	10986.6	10190.3	9418.8	8645.5
17.5°	15550.3	15282.0	15011.9	14401.0	13788.4	13103.4	12326.6	11251.4	10319.2	9480.6	8642.0
20°	14803.5	14902.4	14999.5	14755.9	14512.2	13963.2	13285.2	12077.6	10887.7	9791.3	8693.2
22.5°	14169.7	14644.6	15117.8	15306.7	15493.8	15163.7	14634.0	13237.6	11662.7	10230.9	8799.1
25°	13710.7	14498.1	15285.5	15914.0	16540.8	16394.2	15986.4	14646.4	12690.3	10864.8	9037.5
27.5°	13595.9	14561.7	15527.4	16501.9	17474.7	17610.6	17497.7	16131.2	13915.5	11652.2	9387.0
30°	13776.0	14754.1	15730.4	16916.8	18101.4	18643.4	18795.3	17368.8	15315.5	12570.2	9823.1
32.5°	14111.5	15070.1	16028.8	17321.1	18611.7	19430.8	19914.6	18500.4	16291.8	13262.3	10230.9
35°	14653.5	15550.3	16447.2	17792.5	19137.8	20197.1	21079.8	19669.2	17158.7	13746.0	10331.6
37.5°	15603.3	16374.8	17146.3	18389.2	19630.3	21003.9	22329.8	20956.2	18096.1	14212.1	10326.3
40°	17038.6	17584.2	18127.9	19178.4	20227.1	21955.5	23745.7	22391.6	19132.5	14717.0	10301.6
42.5°	18827.1	19107.8	19386.7	20218.3	21049.8	22949.4	25030.9	23795.1	20121.2	15186.6	10252.1
45°	20682.6	20756.7	20830.9	21355.2	21877.8	23736.9	25906.6	24849.1	20984.5	15594.5	10202.7
47.5°	22599.9	22345.7	22091.4	22299.8	22508.1	24340.6	26531.6	25648.9	21851.3	16046.4	10239.8
50°	24688.4	23980.5	23272.5	23163.1	23053.6	24944.4	27267.8	26665.8	22893.0	16705.0	10517.0
52.5°	26810.5	25643.6	24476.6	24044.0	23609.7	25664.8	28244.1	27931.6	24379.5	17725.4	11069.5
55°	28756.1	27271.3	25786.6	25204.0	24621.4	26766.4	29435.8	29790.7	26284.4	19030.1	11774.0
57.5°	30646.9	28964.4	27281.9	26741.7	26201.5	28385.4	30945.3	31459.1	28208.8	20281.8	12353.0
60°	32451.2	30786.4	29119.8	28687.3	28252.9	30398.0	32576.6	32202.3	29201.0	20867.9	12533.1
62.5°	33838.9	32514.8	31190.7	30963.0	30733.4	32433.6	33830.1	31912.8	28570.7	20290.6	12010.5
65°	34423.3	33669.4	32913.8	33127.4	33339.3	33973.1	34142.6	31065.3	26589.9	18673.5	10757.1
67.5°	32744.3	32897.9	33051.5	33948.4	34843.5	34407.4	33213.9	29395.2	23770.4	16381.9	8993.3
70°	27691.5	28613.1	29532.9	31655.0	33775.4	32807.9	30726.4	26397.4	20377.1	13742.5	7106.0
72.5°	21191.0	22227.4	23261.9	26411.5	29559.4	28667.8	26118.5	21681.8	16337.7	10974.2	5608.9
75°	15343.8	16514.3	17683.0	21157.5	24631.9	23394.3	19536.8	15523.8	12409.5	8377.2	4343.1
77.5°	10930.1	11713.9	12497.8	15929.9	19360.2	17344.1	13004.5	10446.3	8589.0	5822.5	3054.3
80°	8767.4	8527.3	8287.2	10199.2	12111.2	11775.7	8601.4	6708.8	5944.4	3901.7	1859.0
82.5°	7152.0	6565.8	5979.7	6880.1	7780.5	7731.0	5969.1	4922.2	4424.3	2711.8	999.3
85°	5238.2	5003.4	4768.6	5564.8	6361.0	5681.3	4042.9	3128.4	3449.7	1996.8	543.8
87.5°	2554.6	2918.3	3280.3	4219.5	5157.0	3871.7	1227.0	607.3	840.4	552.6	263.1
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: P320493
 CATALOG NUMBER: GLEON-SA9C-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: P320493

CATALOG NUMBER: GLEON-SA9C-830-U-SLL

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	13452.9	13452.9	13452.9	13452.9	13452.9	13452.9	13452.9	13452.9	13452.9	13452.9	13452.9
2.5°	13756.6	13611.8	13447.6	13283.5	13096.3	12907.4	12796.2	12683.2	12561.4	12439.6	12301.9
5°	12598.5	12294.8	11950.5	11606.3	11265.5	10924.8	10741.2	10557.6	10363.4	10167.4	9997.9
7.5°	10935.4	10492.2	10015.6	9537.1	9113.4	8687.9	8424.9	8160.0	7919.9	7678.1	7475.0
10°	9471.8	8906.8	8428.4	7948.2	7628.6	7309.1	7067.2	6825.3	6592.3	6357.5	6133.3
12.5°	8507.8	7942.9	7639.2	7335.6	7070.7	6805.9	6527.0	6246.3	5926.7	5605.4	5370.6
15°	8131.8	7618.0	7280.8	6941.9	6587.0	6230.4	5887.9	5545.4	5167.6	4789.7	4523.2
17.5°	7969.4	7296.7	6825.3	6352.2	5884.3	5416.5	5019.3	4622.0	4208.9	3795.8	3525.7
20°	7798.1	6903.0	6271.0	5637.2	5036.9	4436.6	3986.4	3536.3	3167.3	2798.3	2591.7
22.5°	7642.8	6484.6	5691.9	4897.4	4187.7	3478.0	3036.6	2593.5	2367.5	2141.5	2058.5
25°	7579.2	6119.1	5144.6	4170.1	3421.5	2671.2	2356.9	2042.7	1956.1	1867.9	1825.5
27.5°	7589.8	5792.5	4683.8	3573.3	2898.9	2224.5	2009.1	1793.7	1740.8	1686.0	1659.5
30°	7630.4	5437.7	4249.5	3061.3	2505.2	1949.1	1809.6	1668.4	1611.9	1555.4	1521.8
32.5°	7676.3	5119.9	3914.1	2706.5	2252.7	1797.3	1682.5	1566.0	1511.2	1456.5	1423.0
35°	7596.9	4860.4	3684.6	2508.7	2090.3	1670.1	1573.0	1474.2	1414.1	1354.1	1322.3
37.5°	7462.7	4599.1	3506.2	2411.6	1984.4	1555.4	1484.8	1412.4	1350.6	1287.0	1257.0
40°	7340.9	4378.4	3373.8	2367.5	1926.1	1483.0	1423.0	1362.9	1299.4	1234.1	1198.8
42.5°	7242.0	4230.1	3243.2	2256.3	1873.2	1488.3	1403.6	1317.0	1255.3	1193.5	1154.6
45°	7167.8	4133.0	3140.8	2148.6	1823.7	1498.9	1391.2	1283.5	1221.7	1158.2	1112.3
47.5°	7160.8	4081.8	3068.4	2055.0	1730.2	1403.6	1359.4	1315.3	1225.2	1133.4	1080.5
50°	7257.9	3998.8	2983.7	1966.7	1640.1	1313.5	1373.5	1431.8	1278.2	1122.8	1055.8
52.5°	7460.9	3852.3	2849.5	1846.7	1530.7	1212.9	1306.5	1398.3	1265.8	1131.7	1045.2
55°	7706.3	3636.9	2646.5	1654.3	1385.9	1115.8	1198.8	1280.0	1197.0	1112.3	1008.1
57.5°	7859.9	3365.0	2390.5	1415.9	1223.5	1031.0	1078.7	1124.6	1091.1	1057.5	951.6
60°	7768.1	3003.1	2102.7	1200.5	1080.5	960.4	951.6	941.0	990.4	1039.9	918.0
62.5°	7319.7	2628.8	1848.5	1068.1	978.1	886.3	866.8	845.7	926.9	1006.3	877.4
65°	6562.3	2367.5	1687.8	1008.1	907.5	806.8	785.6	764.5	789.2	813.9	753.9
67.5°	5600.1	2206.8	1596.0	985.1	863.3	739.7	715.0	690.3	685.0	679.7	658.5
70°	4607.9	2108.0	1536.0	964.0	815.7	665.6	642.6	619.7	612.6	603.8	587.9
72.5°	3852.3	2095.6	1528.9	962.2	776.8	591.4	570.2	549.1	540.2	529.6	517.3
75°	3154.9	1966.7	1451.2	935.7	723.8	510.2	490.8	471.4	464.3	455.5	444.9
77.5°	2341.0	1627.8	1219.9	812.1	619.7	427.2	407.8	386.6	384.9	381.3	372.5
80°	1518.3	1177.6	872.1	566.7	452.0	335.4	319.6	301.9	303.7	305.4	298.4
82.5°	843.9	686.8	533.2	379.6	309.0	238.3	231.3	222.5	227.7	231.3	222.5
85°	444.9	346.0	286.0	226.0	178.3	130.6	130.6	128.9	135.9	143.0	135.9
87.5°	192.4	121.8	104.2	84.7	47.7	8.8	10.6	10.6	14.1	17.7	15.9
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: P320493
 CATALOG NUMBER: GLEON-SA9C-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: P320493

CATALOG NUMBER: GLEON-SA9C-830-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	13452.9	13452.9	13452.9	13452.9	13452.9	13452.9	13452.9	13452.9	13452.9	13452.9	13452.9
2.5°	12162.4	12033.5	11902.9	11759.8	11786.3	11676.9	11567.4	11498.6	11429.7	11408.5	11387.3
5°	9828.4	9681.9	9533.6	9401.2	9515.9	9438.2	9360.6	9350.0	9337.6	9337.6	9335.8
7.5°	7272.0	7114.9	6956.0	6846.5	6959.5	6945.4	6931.3	7007.2	7083.1	7144.9	7204.9
10°	5909.1	5718.4	5525.9	5363.5	5335.3	5254.1	5171.1	5188.7	5204.6	5271.7	5338.8
12.5°	5135.8	4908.0	4680.3	4489.6	4403.1	4268.9	4133.0	4048.2	3963.5	3972.3	3979.4
15°	4254.8	4034.1	3811.7	3647.5	3592.7	3488.6	3384.4	3278.5	3170.8	3126.7	3080.8
17.5°	3253.8	3077.2	2898.9	2789.5	2789.5	2759.4	2729.4	2676.5	2621.7	2577.6	2531.7
20°	2385.2	2291.6	2196.3	2150.4	2164.5	2166.2	2166.2	2192.7	2219.2	2205.1	2191.0
22.5°	1973.8	1940.3	1906.7	1887.3	1894.4	1896.1	1897.9	1922.6	1945.6	1963.2	1979.1
25°	1781.4	1760.2	1739.0	1731.9	1747.8	1749.6	1749.6	1765.5	1781.4	1799.0	1816.7
27.5°	1631.3	1622.5	1613.6	1601.3	1617.2	1617.2	1615.4	1633.1	1649.0	1664.8	1679.0
30°	1488.3	1491.8	1493.6	1490.1	1500.7	1507.7	1513.0	1525.4	1536.0	1548.3	1560.7
32.5°	1387.7	1382.4	1377.1	1373.5	1396.5	1408.9	1421.2	1433.6	1444.2	1449.5	1454.8
35°	1290.6	1278.2	1265.8	1257.0	1278.2	1294.1	1310.0	1332.9	1354.1	1357.7	1361.2
37.5°	1225.2	1209.4	1193.5	1182.9	1191.7	1198.8	1205.8	1230.5	1255.3	1269.4	1281.7
40°	1163.4	1147.6	1131.7	1122.8	1128.1	1129.9	1131.7	1144.0	1154.6	1181.1	1205.8
42.5°	1114.0	1094.6	1075.2	1064.6	1068.1	1071.6	1073.4	1071.6	1069.9	1094.6	1119.3
45°	1064.6	1043.4	1022.2	1009.9	1011.6	1011.6	1011.6	1008.1	1002.8	1015.1	1027.5
47.5°	1025.7	1001.0	976.3	964.0	960.4	956.9	953.4	951.6	948.1	956.9	964.0
50°	986.9	960.4	932.2	918.0	909.2	905.7	902.2	900.4	896.9	905.7	912.8
52.5°	956.9	925.1	893.3	870.4	861.6	856.3	851.0	852.7	852.7	856.3	858.0
55°	903.9	875.7	845.7	829.8	813.9	810.4	806.8	812.1	815.7	815.7	815.7
57.5°	845.7	819.2	790.9	780.3	766.2	766.2	764.5	771.5	776.8	780.3	783.9
60°	794.5	764.5	734.4	725.6	720.3	718.5	716.8	725.6	732.7	739.7	746.8
62.5°	746.8	715.0	683.2	672.6	670.9	672.6	672.6	681.5	688.5	695.6	702.7
65°	693.8	662.1	628.5	617.9	621.4	626.7	632.0	639.1	644.4	651.5	658.5
67.5°	635.6	609.1	580.8	570.2	572.0	579.1	586.1	591.4	595.0	602.0	609.1
70°	572.0	549.1	526.1	519.1	517.3	526.1	533.2	536.7	540.2	549.1	556.1
72.5°	503.2	483.7	464.3	459.0	460.8	466.1	471.4	476.7	480.2	489.0	496.1
75°	432.5	414.9	397.2	393.7	397.2	402.5	407.8	411.4	414.9	425.5	434.3
77.5°	363.7	344.3	323.1	321.3	326.6	331.9	335.4	340.7	346.0	360.2	374.3
80°	291.3	270.1	247.2	245.4	250.7	256.0	261.3	266.6	271.9	289.5	305.4
82.5°	213.6	188.9	164.2	160.7	178.3	183.6	188.9	197.7	204.8	220.7	236.6
85°	128.9	104.2	79.4	77.7	93.6	102.4	111.2	121.8	130.6	144.8	158.9
87.5°	14.1	7.1	0.0	0.0	1.8	8.8	15.9	24.7	33.5	47.7	60.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320493

CATALOG NUMBER: GLEON-SA9C-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: P320493

CATALOG NUMBER: GLEON-SA9C-830-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	13452.9	13452.9	13452.9	13452.9	13452.9	13452.9	13452.9	13452.9	13452.9	13452.9	13452.9
2.5°	11309.7	11230.2	11311.4	11390.9	11424.4	11458.0	11371.4	11283.2	11420.9	11556.8	11592.1
5°	9265.2	9192.8	9247.6	9300.5	9182.3	9064.0	9051.6	9037.5	9139.9	9242.3	9258.2
7.5°	7182.0	7159.0	7210.2	7261.4	7111.3	6959.5	6885.4	6811.2	6835.9	6860.6	6857.1
10°	5354.7	5368.8	5432.4	5494.2	5377.6	5261.1	5209.9	5158.7	5215.2	5270.0	5321.2
12.5°	4011.2	4041.2	4108.3	4173.6	4125.9	4076.5	4081.8	4087.1	4152.4	4216.0	4272.5
15°	3116.1	3151.4	3199.0	3244.9	3246.7	3246.7	3292.6	3336.8	3331.5	3326.2	3365.0
17.5°	2579.4	2625.3	2630.6	2635.9	2637.6	2639.4	2635.9	2632.3	2605.8	2579.4	2609.4
20°	2208.6	2224.5	2238.6	2251.0	2235.1	2217.4	2173.3	2129.2	2111.5	2093.9	2122.1
22.5°	2009.1	2037.4	2023.2	2007.3	1975.6	1942.0	1908.5	1873.2	1871.4	1867.9	1883.8
25°	1841.4	1864.3	1839.6	1814.9	1792.0	1769.0	1746.1	1723.1	1721.3	1719.6	1726.6
27.5°	1701.9	1723.1	1700.2	1677.2	1657.8	1638.4	1620.7	1603.1	1599.5	1596.0	1597.8
30°	1581.9	1601.3	1581.9	1560.7	1546.6	1530.7	1518.3	1506.0	1504.2	1502.4	1502.4
32.5°	1474.2	1493.6	1479.5	1465.3	1453.0	1440.6	1431.8	1423.0	1414.1	1405.3	1385.9
35°	1380.6	1400.0	1391.2	1380.6	1366.5	1352.4	1336.5	1318.8	1295.9	1271.1	1260.6
37.5°	1301.2	1320.6	1311.8	1302.9	1283.5	1264.1	1235.8	1205.8	1198.8	1189.9	1188.2
40°	1237.6	1267.6	1250.0	1230.5	1200.5	1170.5	1156.4	1142.3	1138.7	1135.2	1131.7
42.5°	1167.0	1212.9	1181.1	1149.3	1121.1	1092.8	1089.3	1085.8	1084.0	1082.2	1082.2
45°	1078.7	1128.1	1096.4	1062.8	1046.9	1031.0	1031.0	1031.0	1032.8	1032.8	1036.3
47.5°	995.7	1025.7	1009.9	994.0	985.1	976.3	978.1	979.8	985.1	988.7	997.5
50°	925.1	935.7	939.2	941.0	935.7	930.4	933.9	935.7	941.0	944.5	951.6
52.5°	873.9	889.8	889.8	888.0	888.0	888.0	891.6	895.1	900.4	905.7	912.8
55°	840.4	863.3	856.3	849.2	851.0	851.0	854.5	858.0	863.3	866.8	877.4
57.5°	808.6	833.3	826.2	819.2	819.2	819.2	820.9	822.7	828.0	831.5	838.6
60°	771.5	796.2	789.2	780.3	782.1	783.9	785.6	785.6	789.2	790.9	790.9
62.5°	727.4	752.1	745.0	736.2	741.5	745.0	745.0	745.0	748.6	750.3	745.0
65°	681.5	704.4	697.4	690.3	697.4	702.7	706.2	708.0	706.2	704.4	699.1
67.5°	632.0	655.0	647.9	639.1	647.9	655.0	662.1	667.4	662.1	656.8	649.7
70°	579.1	602.0	593.2	584.4	593.2	602.0	609.1	616.2	609.1	602.0	600.3
72.5°	522.6	549.1	538.5	527.9	538.5	549.1	552.6	556.1	550.8	545.5	542.0
75°	460.8	487.3	478.4	467.9	476.7	485.5	487.3	489.0	489.0	487.3	476.7
77.5°	395.5	416.7	411.4	406.1	411.4	416.7	416.7	416.7	418.4	418.4	404.3
80°	317.8	330.1	331.9	333.7	335.4	337.2	335.4	333.7	330.1	326.6	317.8
82.5°	236.6	236.6	250.7	263.1	263.1	261.3	259.5	256.0	248.9	240.1	220.7
85°	150.1	141.2	164.2	185.4	185.4	183.6	180.1	174.8	160.7	144.8	128.9
87.5°	51.2	42.4	65.3	88.3	90.0	90.0	86.5	83.0	68.9	53.0	40.6
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: P320493
 CATALOG NUMBER: GLEON-SA9C-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: P320493

CATALOG NUMBER: GLEON-SA9C-830-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	13452.9	13452.9	13452.9	13452.9	13452.9	13452.9	13452.9	13452.9	13452.9	13452.9	13452.9
2.5°	11645.1	11668.0	11689.2	11862.2	12033.5	12234.8	12436.0	12589.6	12741.5	12898.6	13055.7
5°	9312.9	9341.1	9369.4	9579.5	9787.8	10068.5	10349.2	10591.1	10833.0	11117.2	11401.5
7.5°	6903.0	6964.8	7024.8	7249.1	7471.5	7773.4	8073.5	8389.6	8703.8	9074.6	9445.3
10°	5421.8	5538.3	5653.1	5882.6	6112.1	6410.5	6707.1	7037.2	7367.3	7732.8	8096.5
12.5°	4389.0	4544.3	4697.9	4973.4	5248.8	5605.4	5960.3	6327.5	6692.9	7014.2	7335.6
15°	3467.4	3636.9	3804.6	4095.9	4387.2	4779.1	5169.3	5570.1	5969.1	6354.0	6738.8
17.5°	2704.7	2844.2	2981.9	3229.1	3474.5	3854.0	4233.6	4653.8	5074.0	5543.6	6011.5
20°	2182.1	2240.4	2298.7	2477.0	2653.5	2962.5	3269.7	3698.7	4127.7	4689.1	5250.5
22.5°	1912.0	1942.0	1970.3	2056.8	2141.5	2341.0	2538.8	2918.3	3296.1	3908.8	4519.6
25°	1749.6	1772.5	1795.5	1852.0	1908.5	2003.8	2099.2	2365.7	2632.3	3234.4	3834.6
27.5°	1603.1	1638.4	1671.9	1698.4	1723.1	1788.4	1852.0	2026.8	2201.6	2763.0	3322.6
30°	1497.1	1509.5	1521.8	1562.4	1601.3	1668.4	1735.5	1857.3	1979.1	2454.0	2927.2
32.5°	1373.5	1391.2	1408.9	1451.2	1493.6	1555.4	1617.2	1716.0	1813.1	2219.2	2623.5
35°	1262.3	1280.0	1297.6	1340.0	1380.6	1447.7	1513.0	1596.0	1677.2	2030.3	2383.4
37.5°	1193.5	1211.1	1228.8	1265.8	1301.2	1368.2	1433.6	1498.9	1562.4	1889.1	2215.7
40°	1135.2	1152.9	1170.5	1205.8	1239.4	1304.7	1368.2	1423.0	1477.7	1783.1	2088.6
42.5°	1084.0	1103.4	1122.8	1158.2	1191.7	1250.0	1308.2	1380.6	1451.2	1691.3	1929.7
45°	1041.6	1061.1	1078.7	1117.5	1156.4	1212.9	1269.4	1370.0	1470.6	1643.7	1816.7
47.5°	1002.8	1024.0	1043.4	1085.8	1128.1	1198.8	1267.6	1352.4	1435.3	1606.6	1777.8
50°	965.7	990.4	1015.1	1066.3	1115.8	1234.1	1350.6	1362.9	1373.5	1576.6	1777.8
52.5°	930.4	958.7	986.9	1050.5	1112.3	1250.0	1387.7	1343.5	1297.6	1520.1	1742.5
55°	895.1	919.8	942.8	1020.4	1098.1	1198.8	1299.4	1241.1	1181.1	1414.1	1647.2
57.5°	847.4	873.9	898.6	981.6	1064.6	1135.2	1204.1	1151.1	1096.4	1294.1	1490.1
60°	798.0	828.0	858.0	964.0	1068.1	1055.8	1041.6	1031.0	1018.7	1159.9	1301.2
62.5°	753.9	785.6	817.4	955.1	1092.8	1008.1	923.3	932.2	939.2	1043.4	1147.6
65°	709.7	741.5	771.5	840.4	909.2	875.7	842.1	856.3	868.6	971.0	1073.4
67.5°	660.3	688.5	715.0	738.0	760.9	764.5	768.0	782.1	796.2	918.0	1038.1
70°	605.6	628.5	651.5	667.4	681.5	688.5	693.8	711.5	729.1	861.6	994.0
72.5°	543.8	563.2	580.8	595.0	609.1	614.4	617.9	635.6	653.2	794.5	935.7
75°	476.7	492.6	506.7	519.1	531.4	538.5	545.5	557.9	570.2	723.8	875.7
77.5°	402.5	418.4	432.5	443.1	452.0	459.0	464.3	480.2	496.1	625.0	752.1
80°	314.3	333.7	351.3	360.2	367.2	369.0	369.0	383.1	397.2	489.0	579.1
82.5°	222.5	243.6	263.1	270.1	277.2	277.2	277.2	293.1	309.0	370.8	430.8
85°	130.6	153.6	174.8	181.8	188.9	192.4	194.2	201.3	206.6	250.7	293.1
87.5°	40.6	60.0	77.7	81.2	84.7	91.8	98.9	100.6	100.6	130.6	160.7
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: P320493
 CATALOG NUMBER: GLEON-SA9C-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: P320493

CATALOG NUMBER: GLEON-SA9C-830-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	13452.9	13452.9	13452.9	13452.9	13452.9	13452.9	13452.9
2.5°	13235.8	13415.9	13626.0	13834.3	14012.6	14190.9	14339.2
5°	11763.4	12125.3	12568.4	13009.8	13403.5	13797.2	14254.5
7.5°	9913.2	10381.0	10954.8	11528.6	12084.7	12639.1	13341.7
10°	8573.2	9048.1	9655.4	10261.0	10885.9	11509.2	12303.6
12.5°	7722.2	8107.1	8695.0	9282.9	10017.3	10750.0	11514.4
15°	7160.8	7581.0	8153.0	8725.0	9528.3	10331.6	11210.8
17.5°	6562.3	7111.3	7844.0	8576.7	9528.3	10478.1	11514.4
20°	5935.5	6618.8	7568.6	8518.4	9800.2	11080.1	12402.5
22.5°	5310.6	6101.5	7319.7	8536.1	10211.5	11885.2	13670.1
25°	4747.4	5660.1	7167.8	8673.8	10810.0	12944.5	15158.4
27.5°	4320.1	5315.9	7106.0	8894.5	11569.2	14243.9	16777.3
30°	3940.5	4953.9	7031.9	9109.9	12300.1	15488.5	18043.2
32.5°	3612.2	4600.8	6888.9	9175.2	12810.3	16445.4	19114.8
35°	3354.4	4325.4	6648.8	8972.2	13129.9	17287.6	20230.6
37.5°	3132.0	4048.2	6375.1	8702.0	13414.1	18126.2	21485.9
40°	2920.1	3751.6	6140.3	8527.3	13806.0	19084.8	22811.7
42.5°	2718.8	3508.0	5951.4	8394.8	14169.7	19942.8	23971.7
45°	2568.8	3320.9	5783.7	8244.8	14404.5	20564.3	24845.6
47.5°	2494.6	3209.6	5693.7	8175.9	14639.3	21101.0	25571.2
50°	2484.0	3190.2	5796.1	8401.9	15147.8	21891.9	26401.0
52.5°	2482.3	3222.0	6090.9	8959.8	16092.3	23223.1	27299.6
55°	2445.2	3241.4	6442.2	9641.3	17359.9	25076.8	28915.0
57.5°	2332.2	3174.3	6804.2	10432.2	18699.9	26965.9	30735.2
60°	2157.4	3011.9	7102.5	11191.4	19600.3	28007.5	31436.1
62.5°	1938.5	2727.7	7201.4	11673.3	19575.6	27477.9	30729.9
65°	1751.4	2429.3	6876.5	11322.0	18585.2	25846.6	29333.4
67.5°	1585.4	2130.9	6064.4	9996.1	16803.8	23609.7	27557.3
70°	1465.3	1935.0	5017.5	8100.0	14574.0	21046.3	25500.6
72.5°	1389.4	1841.4	4090.6	6338.1	11826.9	17314.0	21812.5
75°	1285.3	1694.9	3209.6	4722.7	9051.6	13380.6	16475.4
77.5°	1091.1	1428.3	2418.7	3409.1	6641.7	9872.6	11458.0
80°	842.1	1103.4	1663.1	2222.7	4570.8	6918.9	7812.2
82.5°	600.3	769.7	1008.1	1246.4	3036.6	4825.1	4899.2
85°	370.8	448.4	577.3	706.2	2009.1	3312.0	2759.4
87.5°	199.5	238.3	305.4	370.8	642.6	914.5	526.1
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: P320493
 CATALOG NUMBER: GLEON-SA9C-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 $\text{W}^{\wedge}/\text{nm}$	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			

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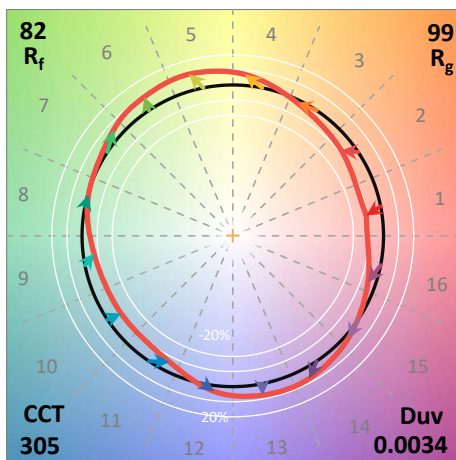
TM-30-18

Summary

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

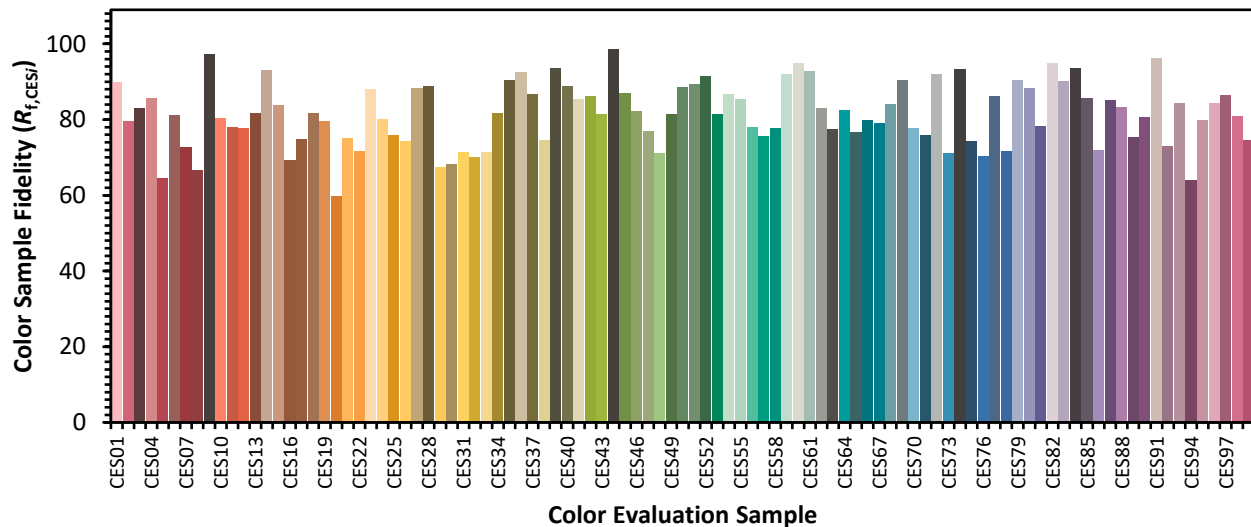


Color Vector Graphics



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

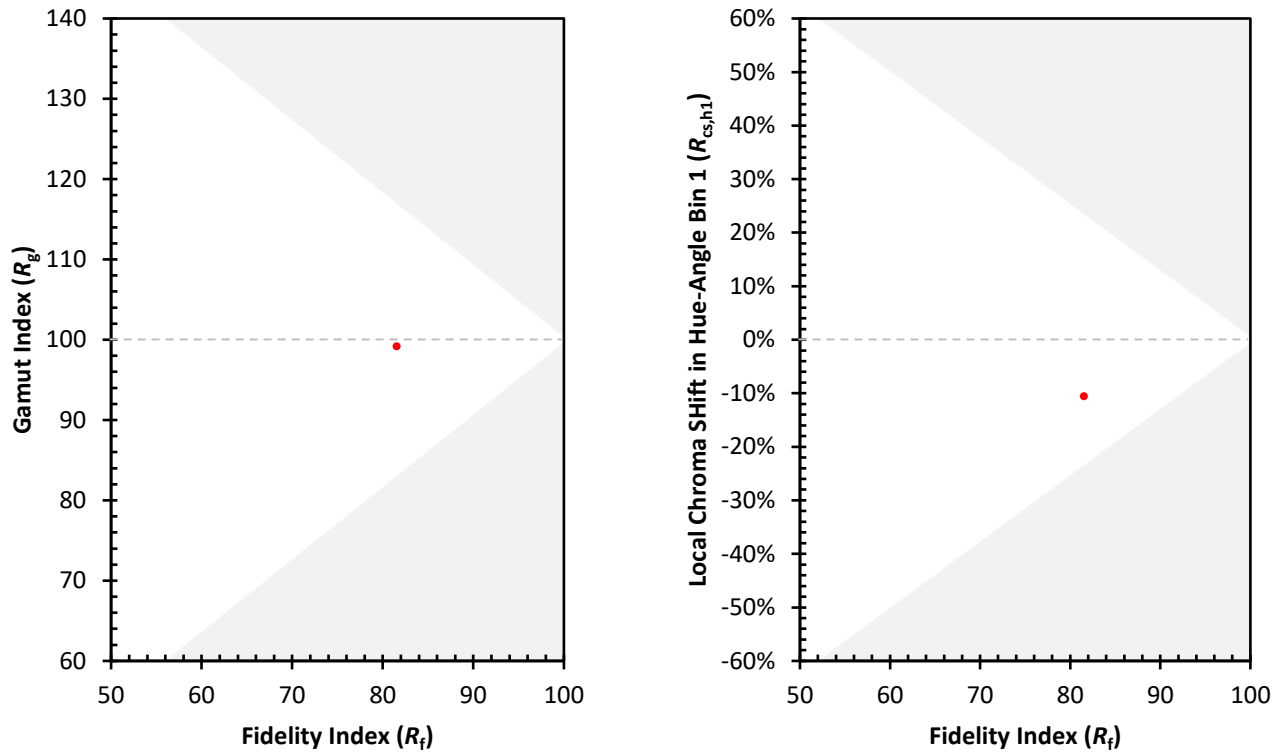
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 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)