

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: P320484

Luminaire Tested: **GLEON-SA0B-830-U-SLL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320484
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-SA0B-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39500 lumens
Efficiency: N/A
Efficacy: 94.3 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): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

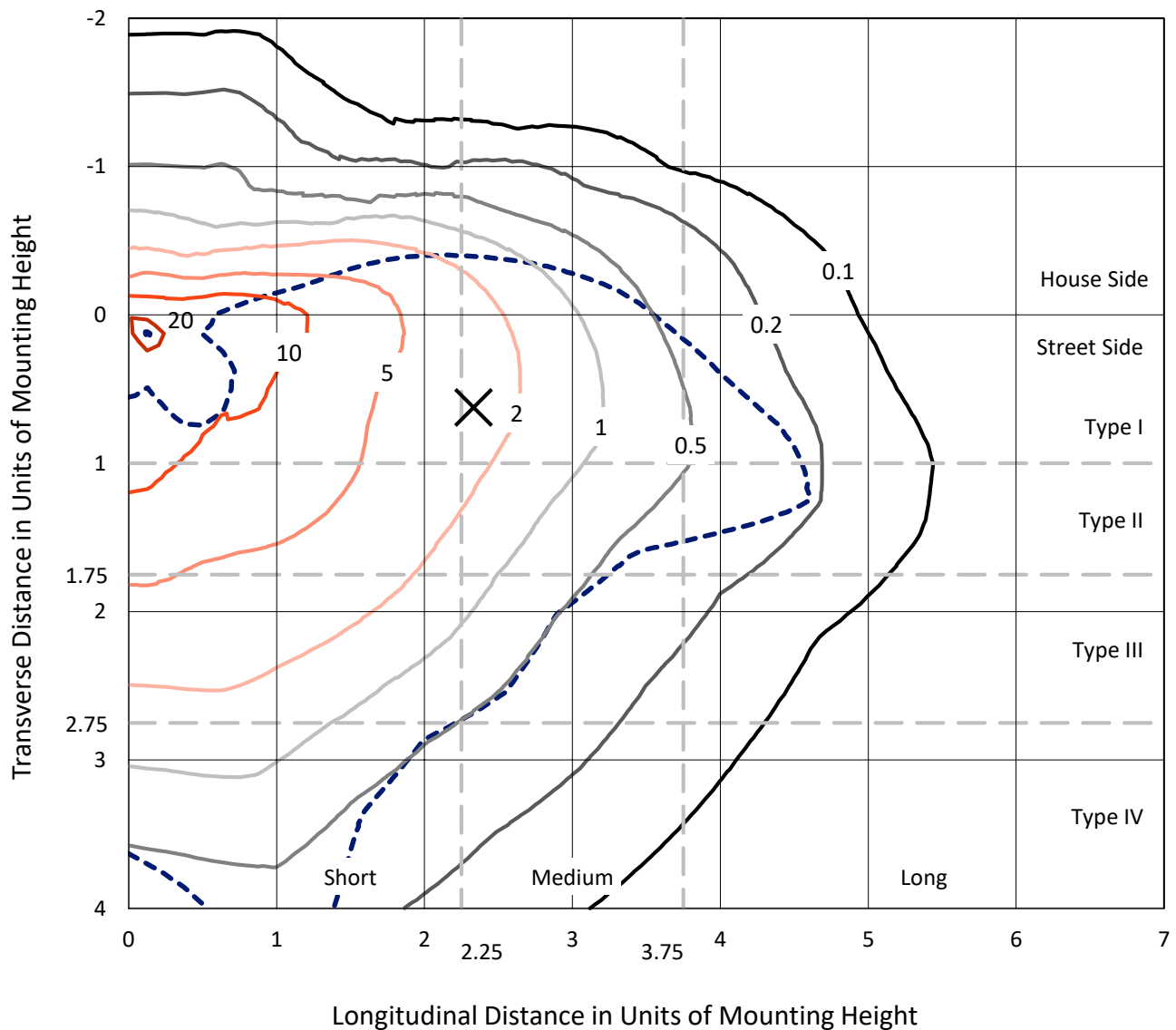


REPORT NUMBER: P320484

CATALOG NUMBER: GLEON-SA0B-830-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

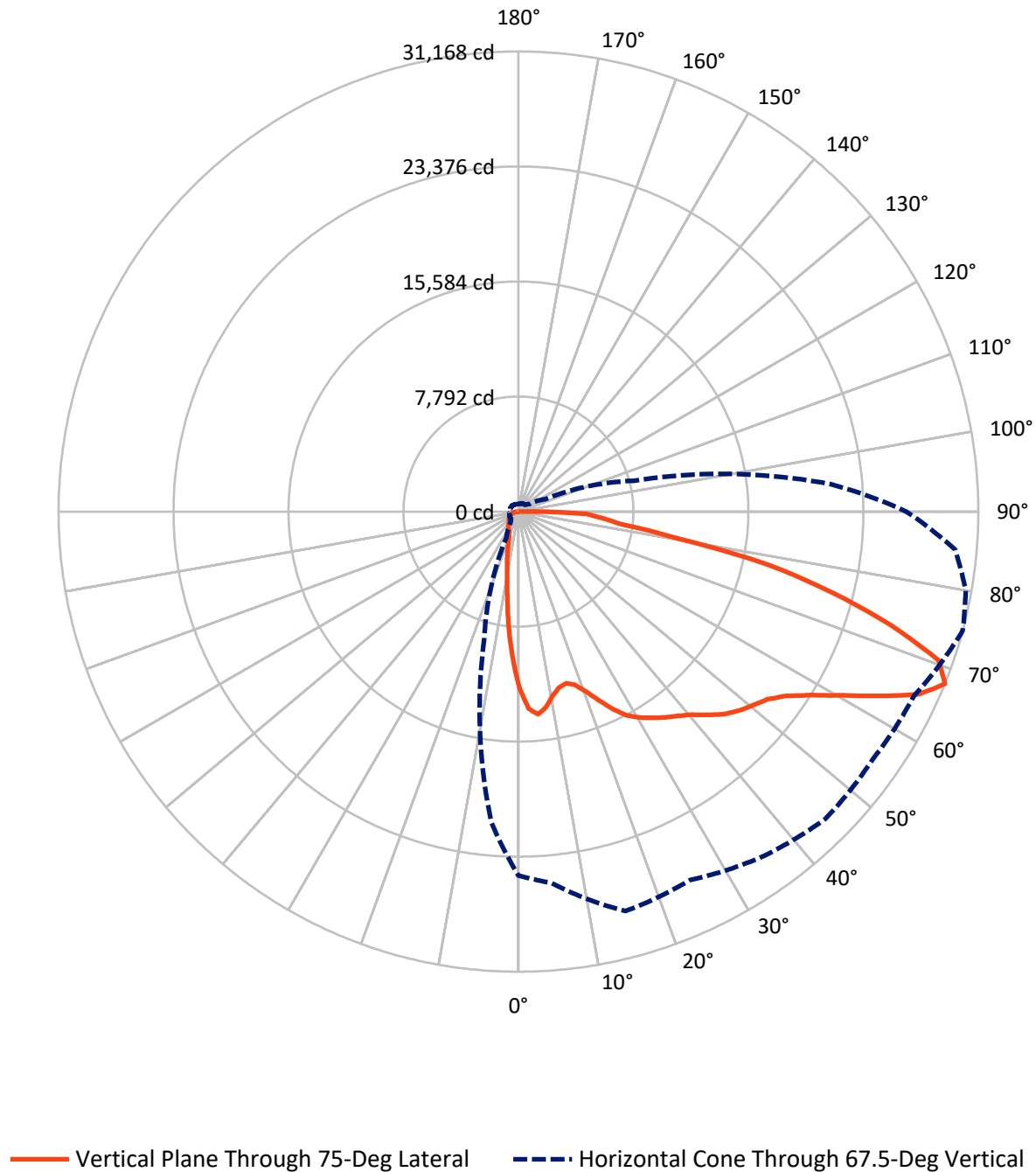
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P320484
CATALOG NUMBER: GLEON-SA0B-830-U-SLL

Luminous Intensity Polar Plot



REPORT NUMBER: P320484

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6956.9	0.0	6956.9
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	32543.1	0.0	32543.1
	% Fixture	82.4	0.0	82.4
Total	Lumens	39500.0	0.0	39500.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	928.7	2.4
10°-20°	1929.4	4.9
20°-30°	2744.0	6.9
30°-40°	3954.1	10.0
40°-50°	5572.4	14.1
50°-60°	7746.6	19.6
60°-70°	9368.0	23.7
70°-80°	5758.4	14.6
80°-90°	1498.4	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°	39500.0	100.0
0°-180°	39500.0	100.0

Coefficient of Utilization



REPORT NUMBER: P320484

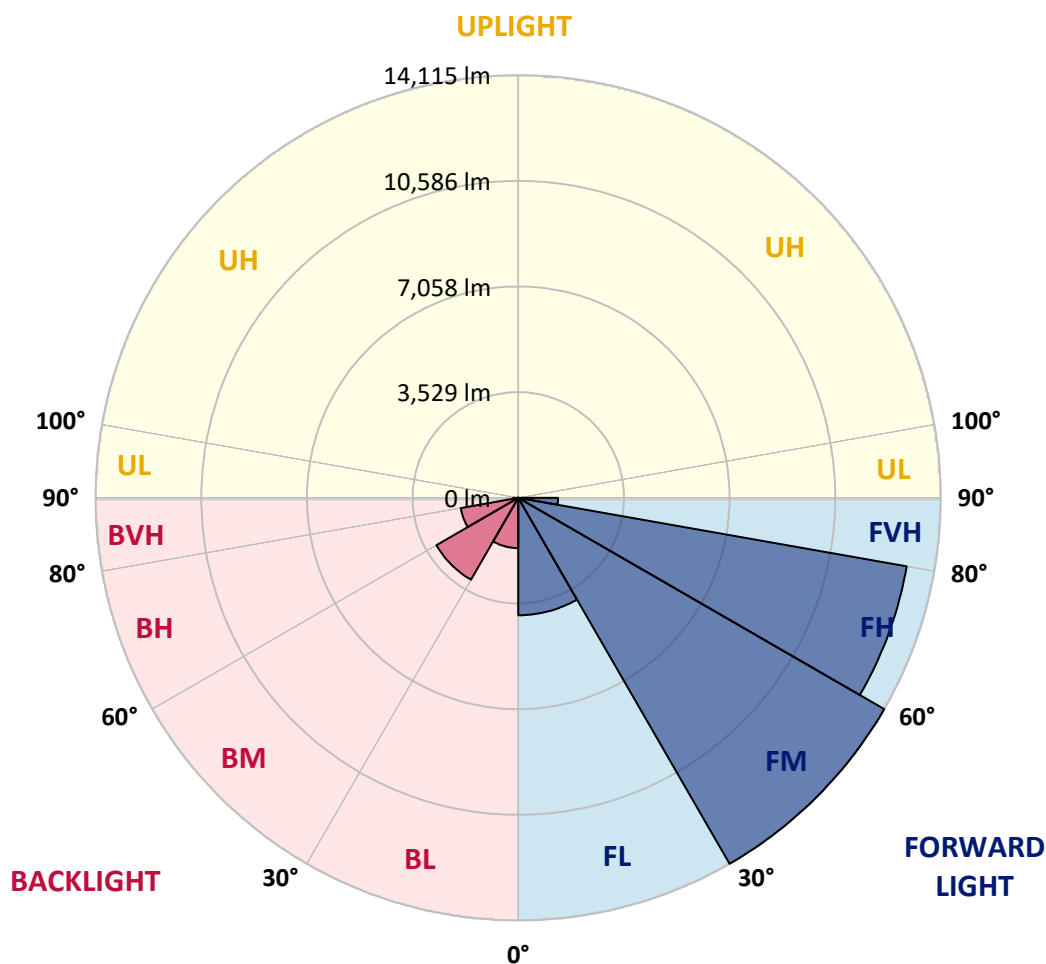
CATALOG NUMBER: GLEON-SA0B-830-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3921.9	9.9			
FM	(30°-60°)	14115.2	35.7			
FH	(60°-80°)	13175.9	33.4			G5
FVH	(80°-90°)	1330.1	3.4			G5
BL	(0°-30°)	1680.2	4.3	B3/2500		
BM	(30°-60°)	3157.9	8.0	B3/5000		
BH	(60°-80°)	1950.5	4.9	B3/2500		G3/2500
BVH	(80°-90°)	168.4	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





REPORT NUMBER: P320484

CATALOG NUMBER: GLEON-SA0B-830-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	12033.9	12033.9	12033.9	12033.9	12033.9	12033.9	12033.9	12033.9	12033.9	12033.9	12033.9
2.5°	12826.6	12995.6	13112.5	13227.8	13317.8	13406.2	13535.7	13665.2	13690.5	13714.2	13663.6
5°	12750.8	13163.0	13513.6	13862.6	14186.4	14510.1	14704.4	14898.6	14938.1	14977.6	14856.0
7.5°	11934.4	12542.4	13150.4	13758.4	14315.9	14873.3	15212.9	15550.8	15628.2	15704.0	15505.0
10°	11005.8	11713.3	12460.3	13207.2	13941.6	14675.9	15167.1	15658.2	15756.1	15854.1	15606.1
12.5°	10299.8	11072.1	11869.6	12667.1	13442.5	14216.4	14724.9	15233.4	15355.0	15476.6	15296.6
15°	10028.2	10874.7	11624.8	12375.0	13050.9	13725.2	14142.2	14557.5	14608.0	14657.0	14628.6
17.5°	10299.8	11233.2	11912.3	12589.8	12957.7	13324.1	13491.5	13657.3	13712.6	13766.3	13838.9
20°	11094.2	12101.8	12580.3	13057.2	13041.4	13024.0	12943.5	12861.4	12847.2	12833.0	13038.3
22.5°	12228.1	13398.3	13589.4	13778.9	13335.2	12891.4	12621.3	12349.7	12296.0	12240.7	12458.7
25°	13559.4	14805.4	14770.7	14734.4	13889.5	13043.0	12528.2	12013.3	11953.3	11893.3	12079.7
27.5°	15007.6	16198.3	15970.9	15743.5	14595.4	13447.3	12700.3	11953.3	11893.3	11833.3	11997.5
30°	16139.9	17220.1	16855.3	16490.5	15190.8	13891.1	13003.5	12116.0	12018.1	11918.6	12120.7
32.5°	17098.5	18017.6	17528.1	17038.5	15674.0	14309.6	13349.4	12389.2	12236.0	12082.8	12352.9
35°	18096.6	18813.6	18125.0	17434.9	16105.2	14773.9	13758.4	12741.4	12553.4	12365.5	12736.6
37.5°	19219.4	19814.8	18826.2	17836.0	16590.0	15344.0	14371.1	13396.7	13204.1	13011.4	13485.2
40°	20405.4	20901.3	19582.7	18264.0	17120.6	15977.2	15219.2	14459.6	14276.4	14091.6	14666.5
42.5°	21443.0	21804.7	20287.0	18769.3	17760.2	16749.5	16215.7	15680.3	15678.8	15675.6	16258.3
45°	22224.7	22539.0	20874.5	19208.4	18384.0	17558.1	17280.1	17002.2	17224.8	17447.5	17975.0
47.5°	22873.8	23087.0	21367.2	19645.8	19097.8	18549.8	18590.9	18632.0	19085.2	19538.4	19878.0
50°	23616.1	23443.9	21814.1	20182.8	20013.8	19844.8	20214.4	20582.3	21103.5	21623.0	21853.6
52.5°	24419.9	23963.5	22420.6	20876.1	21065.6	21255.1	22006.8	22758.5	23284.4	23810.3	23897.2
55°	25864.9	25165.3	23535.5	21904.2	22269.0	22632.2	23736.1	24838.4	25249.0	25659.6	25691.2
57.5°	27493.1	26872.5	25097.4	23322.3	23714.0	24105.6	25380.1	26652.9	27096.7	27538.9	27477.3
60°	28120.1	28150.1	26580.3	25009.0	25403.8	25798.6	27039.9	28281.2	28791.2	29299.8	29163.9
62.5°	27488.4	28229.0	27390.5	26550.3	26908.8	27265.7	28481.7	29697.7	30220.5	30743.2	30506.3
65°	26239.2	26973.5	27349.4	27725.3	27843.7	27962.1	29097.6	30231.5	30632.6	31032.2	30912.2
67.5°	24650.5	25244.3	26630.8	28015.8	27777.4	27538.9	28071.1	28603.3	29015.5	29427.7	29359.8
70°	22810.6	23518.1	25367.4	27216.7	26044.9	24871.6	24652.0	24432.5	24877.9	25321.6	25046.9
72.5°	19511.6	20579.2	22551.6	24522.5	22363.7	20204.9	19454.7	18704.6	19268.4	19832.2	19394.7
75°	14737.5	16154.1	18333.5	20511.3	17935.5	15359.8	14358.5	13357.3	13842.1	14326.9	14026.9
77.5°	10249.3	12026.0	14172.2	16318.4	13700.0	11080.0	10336.2	9590.8	9736.1	9879.8	9829.2
80°	6988.2	8156.8	9653.9	11149.5	9406.0	7662.5	7720.9	7777.8	7709.9	7640.4	7741.5
82.5°	4382.4	5205.2	6361.2	7515.6	6590.2	5664.8	6195.4	6726.0	6465.4	6203.3	6301.2
85°	2468.4	2970.6	4101.3	5230.5	4875.1	4518.2	4829.3	5138.9	4734.6	4330.3	4508.7
87.5°	470.6	783.3	2269.4	3753.9	3408.0	3062.2	2661.0	2259.9	1724.5	1189.2	1737.2
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: P320484
 CATALOG NUMBER: GLEON-SA0B-830-U-SLL

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P320484

CATALOG NUMBER: GLEON-SA0B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	12033.9	12033.9	12033.9	12033.9	12033.9	12033.9	12033.9	12033.9	12033.9	12033.9	12033.9
2.5°	13613.1	13586.3	13559.4	13463.1	13365.2	13219.9	13099.9	12891.4	12777.7	12605.5	12433.4
5°	14732.8	14562.2	14391.7	14097.9	13802.6	13474.1	13096.7	12678.2	12362.3	11951.7	11541.1
7.5°	15306.1	14908.1	14508.5	13944.7	13379.4	12870.9	12273.9	11718.0	11244.2	10710.5	10176.7
10°	15358.2	14761.2	14162.7	13429.9	12695.6	12078.1	11391.1	10773.6	10205.1	9592.3	8978.0
12.5°	15115.0	14480.1	13843.7	13036.7	12228.1	11526.9	10787.8	10096.1	9466.0	8791.7	8115.7
15°	14600.1	14093.2	13584.7	12828.2	12071.8	11364.3	10647.3	9827.7	9115.4	8425.3	7733.6
17.5°	13910.0	13670.0	13428.3	12881.9	12333.9	11721.2	11026.3	10064.5	9230.7	8480.6	7730.4
20°	13242.0	13330.4	13417.3	13199.3	12981.4	12490.3	11883.8	10803.6	9739.2	8758.5	7776.2
22.5°	12675.0	13099.9	13523.1	13692.1	13859.5	13564.2	13090.4	11841.2	10432.5	9151.7	7871.0
25°	12264.4	12968.8	13673.1	14235.3	14796.0	14664.9	14300.1	13101.4	11351.6	9718.7	8084.2
27.5°	12161.8	13025.6	13889.5	14761.2	15631.4	15753.0	15651.9	14429.6	12447.6	10423.0	8396.9
30°	12322.9	13197.8	14071.1	15132.3	16192.0	16676.8	16812.7	15536.6	13700.0	11244.2	8786.9
32.5°	12622.9	13480.5	14338.0	15494.0	16648.4	17381.2	17813.9	16548.9	14573.3	11863.3	9151.7
35°	13107.7	13910.0	14712.3	15915.6	17119.0	18066.6	18856.2	17594.4	15348.7	12296.0	9241.8
37.5°	13957.4	14647.5	15337.6	16449.4	17559.6	18788.3	19974.3	18745.7	16187.3	12712.9	9237.0
40°	15241.3	15729.3	16215.7	17155.4	18093.4	19639.5	21240.9	20029.6	17114.3	13164.6	9214.9
42.5°	16841.1	17092.2	17341.7	18085.5	18829.4	20528.6	22390.6	21285.1	17998.7	13584.7	9170.7
45°	18500.9	18567.2	18633.5	19102.6	19570.0	21233.0	23173.9	22227.9	18770.9	13949.5	9126.5
47.5°	20215.9	19988.5	19761.1	19947.5	20133.8	21773.1	23732.9	22943.3	19546.3	14353.8	9159.6
50°	22084.2	21450.9	20817.6	20719.7	20621.8	22313.2	24391.5	23852.9	20478.1	14942.8	9407.6
52.5°	23982.4	22938.6	21894.7	21507.8	21119.3	22957.5	25264.8	24985.3	21807.8	15855.6	9901.9
55°	25722.8	24394.6	23066.5	22545.3	22024.2	23943.0	26330.8	26648.2	23511.8	17022.7	10532.0
57.5°	27414.1	25909.1	24404.1	23920.9	23437.6	25391.1	27681.0	28140.6	25233.2	18142.4	11050.0
60°	29028.1	27538.9	26048.1	25661.2	25272.7	27191.5	29140.3	28805.5	26120.7	18666.7	11211.1
62.5°	30269.4	29085.0	27900.6	27696.8	27491.5	29012.3	30261.5	28546.5	25556.9	18150.3	10743.6
65°	30792.2	30117.8	29441.9	29633.0	29822.5	30389.4	30541.1	27788.4	23785.0	16703.7	9622.4
67.5°	29290.3	29427.7	29565.1	30367.3	31168.0	30777.9	29710.4	26294.5	21263.0	14653.8	8044.7
70°	24770.5	25594.9	26417.6	28315.9	30212.6	29347.1	27485.2	23612.9	18227.7	12292.9	6356.5
72.5°	18955.7	19882.7	20808.2	23625.5	26441.3	25643.8	23363.4	19394.7	14614.3	9816.6	5017.3
75°	13725.2	14772.3	15817.7	18925.7	22033.7	20926.6	17475.9	13886.3	11100.5	7493.5	3884.9
77.5°	9777.1	10478.3	11179.5	14249.5	17318.0	15514.5	11632.7	9344.4	7683.0	5208.4	2732.1
80°	7842.5	7627.8	7413.0	9123.3	10833.6	10533.6	7694.1	6001.1	5317.3	3490.1	1662.9
82.5°	6397.5	5873.2	5348.9	6154.3	6959.7	6915.5	5339.4	4402.9	3957.6	2425.7	893.9
85°	4685.6	4475.6	4265.5	4977.8	5690.0	5082.0	3616.5	2798.4	3085.8	1786.1	486.4
87.5°	2285.2	2610.5	2934.2	3774.4	4613.0	3463.3	1097.6	543.3	751.7	494.3	235.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320484
 CATALOG NUMBER: GLEON-SA0B-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: P320484

CATALOG NUMBER: GLEON-SA0B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	12033.9	12033.9	12033.9	12033.9	12033.9	12033.9	12033.9	12033.9	12033.9	12033.9	12033.9
2.5°	12305.5	12176.0	12029.1	11882.3	11714.9	11545.9	11446.4	11345.3	11236.3	11127.4	11004.2
5°	11269.5	10997.9	10689.9	10382.0	10077.2	9772.4	9608.1	9443.9	9270.2	9094.9	8943.3
7.5°	9781.9	9385.5	8959.1	8531.1	8152.1	7771.5	7536.2	7299.3	7084.5	6868.1	6686.5
10°	8472.7	7967.3	7539.3	7109.8	6823.9	6538.1	6321.7	6105.4	5896.9	5686.9	5486.3
12.5°	7610.4	7105.0	6833.4	6561.8	6324.9	6088.0	5838.5	5587.4	5301.5	5014.1	4804.1
15°	7274.0	6814.4	6512.8	6209.6	5892.2	5573.2	5266.8	4960.4	4622.5	4284.5	4046.0
17.5°	7128.7	6527.0	6105.4	5682.1	5263.6	4845.1	4489.8	4134.5	3764.9	3395.4	3153.8
20°	6975.5	6174.9	5609.5	5042.5	4505.6	3968.6	3565.9	3163.2	2833.2	2503.1	2318.3
22.5°	6836.6	5800.6	5091.5	4380.8	3746.0	3111.1	2716.3	2319.9	2117.8	1915.6	1841.4
25°	6779.7	5473.7	4601.9	3730.2	3060.6	2389.4	2108.3	1827.2	1749.8	1670.8	1632.9
27.5°	6789.2	5181.5	4189.7	3196.4	2593.1	1989.9	1797.2	1604.5	1557.1	1508.2	1484.5
30°	6825.5	4864.1	3801.2	2738.4	2241.0	1743.5	1618.7	1492.4	1441.9	1391.3	1361.3
32.5°	6866.6	4579.8	3501.2	2421.0	2015.1	1607.7	1505.0	1400.8	1351.8	1302.9	1272.9
35°	6795.5	4347.7	3295.9	2244.1	1869.8	1494.0	1407.1	1318.7	1265.0	1211.3	1182.9
37.5°	6675.5	4113.9	3136.4	2157.3	1775.1	1391.3	1328.1	1263.4	1208.1	1151.3	1124.4
40°	6566.5	3916.5	3017.9	2117.8	1723.0	1326.6	1272.9	1219.2	1162.3	1103.9	1072.3
42.5°	6478.1	3783.9	2901.1	2018.3	1675.6	1331.3	1255.5	1178.1	1122.8	1067.6	1032.8
45°	6411.7	3697.0	2809.5	1921.9	1631.4	1340.8	1244.4	1148.1	1092.8	1036.0	994.9
47.5°	6405.4	3651.2	2744.7	1838.2	1547.7	1255.5	1216.0	1176.5	1096.0	1013.9	966.5
50°	6492.3	3577.0	2668.9	1759.3	1467.1	1175.0	1228.7	1280.8	1143.4	1004.4	944.4
52.5°	6673.9	3445.9	2548.9	1651.9	1369.2	1084.9	1168.6	1250.8	1132.3	1012.3	934.9
55°	6893.4	3253.2	2367.3	1479.8	1239.7	998.1	1072.3	1145.0	1070.7	994.9	901.7
57.5°	7030.8	3010.0	2138.3	1266.6	1094.4	922.3	964.9	1006.0	976.0	946.0	851.2
60°	6948.7	2686.3	1880.9	1073.9	966.5	859.1	851.2	841.7	886.0	930.2	821.2
62.5°	6547.6	2351.5	1653.5	955.4	874.9	792.8	775.4	756.5	829.1	900.2	784.9
65°	5870.1	2117.8	1509.8	901.7	811.7	721.7	702.8	683.8	705.9	728.0	674.3
67.5°	5009.4	1974.1	1427.6	881.2	772.3	661.7	639.6	617.5	612.7	608.0	589.1
70°	4121.8	1885.6	1373.9	862.3	729.6	595.4	574.8	554.3	548.0	540.1	525.9
72.5°	3445.9	1874.6	1367.6	860.7	694.9	529.0	510.1	491.1	483.2	473.8	462.7
75°	2822.1	1759.3	1298.1	837.0	647.5	456.4	439.0	421.7	415.3	407.4	398.0
77.5°	2094.1	1456.1	1091.3	726.5	554.3	382.2	364.8	345.9	344.3	341.1	333.2
80°	1358.2	1053.4	780.1	506.9	404.3	300.1	285.8	270.1	271.6	273.2	266.9
82.5°	754.9	614.3	476.9	339.5	276.4	213.2	206.9	199.0	203.7	206.9	199.0
85°	398.0	309.5	255.8	202.1	159.5	116.9	116.9	115.3	121.6	127.9	121.6
87.5°	172.1	109.0	93.2	75.8	42.6	7.9	9.5	9.5	12.6	15.8	14.2
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: P320484
 CATALOG NUMBER: GLEON-SA0B-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: P320484

CATALOG NUMBER: GLEON-SA0B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	12033.9	12033.9	12033.9	12033.9	12033.9	12033.9	12033.9	12033.9	12033.9	12033.9	12033.9
2.5°	10879.4	10764.1	10647.3	10519.4	10543.1	10445.1	10347.2	10285.6	10224.0	10205.1	10186.1
5°	8791.7	8660.6	8527.9	8409.5	8512.1	8442.7	8373.2	8363.7	8352.6	8352.6	8351.1
7.5°	6504.9	6364.4	6222.2	6124.3	6225.4	6212.8	6200.1	6268.0	6335.9	6391.2	6444.9
10°	5285.7	5115.2	4943.0	4797.8	4772.5	4699.8	4625.6	4641.4	4655.6	4715.6	4775.6
12.5°	4594.0	4390.3	4186.6	4016.0	3938.6	3818.6	3697.0	3621.2	3545.4	3553.3	3559.6
15°	3806.0	3608.6	3409.6	3262.7	3213.8	3120.6	3027.4	2932.7	2836.3	2796.8	2755.8
17.5°	2910.6	2752.6	2593.1	2495.2	2495.2	2468.4	2441.5	2394.1	2345.2	2305.7	2264.6
20°	2133.6	2049.9	1964.6	1923.5	1936.2	1937.7	1937.7	1961.4	1985.1	1972.5	1959.8
22.5°	1765.6	1735.6	1705.6	1688.2	1694.5	1696.1	1697.7	1719.8	1740.3	1756.1	1770.3
25°	1593.5	1574.5	1555.6	1549.2	1563.5	1565.0	1565.0	1579.2	1593.5	1609.3	1625.0
27.5°	1459.2	1451.3	1443.4	1432.4	1446.6	1446.6	1445.0	1460.8	1475.0	1489.2	1501.9
30°	1331.3	1334.5	1336.0	1332.9	1342.4	1348.7	1353.4	1364.5	1373.9	1385.0	1396.1
32.5°	1241.3	1236.6	1231.8	1228.7	1249.2	1260.2	1271.3	1282.3	1291.8	1296.6	1301.3
35°	1154.4	1143.4	1132.3	1124.4	1143.4	1157.6	1171.8	1192.3	1211.3	1214.4	1217.6
37.5°	1096.0	1081.8	1067.6	1058.1	1066.0	1072.3	1078.6	1100.7	1122.8	1135.5	1146.5
40°	1040.7	1026.5	1012.3	1004.4	1009.1	1010.7	1012.3	1023.4	1032.8	1056.5	1078.6
42.5°	996.5	979.1	961.8	952.3	955.4	958.6	960.2	958.6	957.0	979.1	1001.2
45°	952.3	933.3	914.4	903.3	904.9	904.9	904.9	901.7	897.0	908.1	919.1
47.5°	917.5	895.4	873.3	862.3	859.1	856.0	852.8	851.2	848.1	856.0	862.3
50°	882.8	859.1	833.8	821.2	813.3	810.2	807.0	805.4	802.3	810.2	816.5
52.5°	856.0	827.5	799.1	778.6	770.7	765.9	761.2	762.8	762.8	765.9	767.5
55°	808.6	783.3	756.5	742.2	728.0	724.9	721.7	726.5	729.6	729.6	729.6
57.5°	756.5	732.8	707.5	698.0	685.4	685.4	683.8	690.1	694.9	698.0	701.2
60°	710.7	683.8	657.0	649.1	644.3	642.8	641.2	649.1	655.4	661.7	668.0
62.5°	668.0	639.6	611.2	601.7	600.1	601.7	601.7	609.6	615.9	622.2	628.5
65°	620.6	592.2	562.2	552.7	555.9	560.6	565.4	571.7	576.4	582.7	589.1
67.5°	568.5	544.8	519.6	510.1	511.7	518.0	524.3	529.0	532.2	538.5	544.8
70°	511.7	491.1	470.6	464.3	462.7	470.6	476.9	480.1	483.2	491.1	497.5
72.5°	450.1	432.7	415.3	410.6	412.2	416.9	421.7	426.4	429.6	437.5	443.8
75°	386.9	371.1	355.3	352.2	355.3	360.1	364.8	368.0	371.1	380.6	388.5
77.5°	325.3	308.0	289.0	287.4	292.2	296.9	300.1	304.8	309.5	322.2	334.8
80°	260.6	241.6	221.1	219.5	224.3	229.0	233.7	238.5	243.2	259.0	273.2
82.5°	191.1	169.0	146.9	143.7	159.5	164.2	169.0	176.9	183.2	197.4	211.6
85°	115.3	93.2	71.1	69.5	83.7	91.6	99.5	109.0	116.9	129.5	142.1
87.5°	12.6	6.3	0.0	0.0	1.6	7.9	14.2	22.1	30.0	42.6	53.7
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: P320484
 CATALOG NUMBER: GLEON-SA0B-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: P320484

CATALOG NUMBER: GLEON-SA0B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	12033.9	12033.9	12033.9	12033.9	12033.9	12033.9	12033.9	12033.9	12033.9	12033.9	12033.9
2.5°	10116.7	10045.6	10118.2	10189.3	10219.3	10249.3	10171.9	10093.0	10216.1	10337.7	10369.3
5°	8287.9	8223.1	8272.1	8319.5	8213.7	8107.9	8096.8	8084.2	8175.8	8267.4	8281.6
7.5°	6424.4	6403.8	6449.6	6495.4	6361.2	6225.4	6159.1	6092.7	6114.8	6137.0	6133.8
10°	4789.9	4802.5	4859.3	4914.6	4810.4	4706.2	4660.4	4614.6	4665.1	4714.1	4759.8
12.5°	3588.0	3614.9	3674.9	3733.3	3690.7	3646.5	3651.2	3656.0	3714.4	3771.2	3821.8
15°	2787.4	2819.0	2861.6	2902.7	2904.2	2904.2	2945.3	2984.8	2980.0	2975.3	3010.0
17.5°	2307.3	2348.3	2353.1	2357.8	2359.4	2361.0	2357.8	2354.7	2331.0	2307.3	2334.1
20°	1975.6	1989.9	2002.5	2013.5	1999.3	1983.5	1944.1	1904.6	1888.8	1873.0	1898.3
22.5°	1797.2	1822.5	1809.8	1795.6	1767.2	1737.2	1707.2	1675.6	1674.0	1670.8	1685.1
25°	1647.2	1667.7	1645.6	1623.5	1602.9	1582.4	1561.9	1541.3	1539.8	1538.2	1544.5
27.5°	1522.4	1541.3	1520.8	1500.3	1482.9	1465.5	1449.7	1434.0	1430.8	1427.6	1429.2
30°	1415.0	1432.4	1415.0	1396.1	1383.4	1369.2	1358.2	1347.1	1345.5	1343.9	1343.9
32.5°	1318.7	1336.0	1323.4	1310.8	1299.7	1288.7	1280.8	1272.9	1265.0	1257.1	1239.7
35°	1235.0	1252.3	1244.4	1235.0	1222.3	1209.7	1195.5	1179.7	1159.2	1137.1	1127.6
37.5°	1163.9	1181.3	1173.4	1165.5	1148.1	1130.7	1105.5	1078.6	1072.3	1064.4	1062.8
40°	1107.1	1133.9	1118.1	1100.7	1073.9	1047.0	1034.4	1021.8	1018.6	1015.5	1012.3
42.5°	1043.9	1084.9	1056.5	1028.1	1002.8	977.6	974.4	971.2	969.7	968.1	968.1
45°	964.9	1009.1	980.7	950.7	936.5	922.3	922.3	922.3	923.9	923.9	927.0
47.5°	890.7	917.5	903.3	889.1	881.2	873.3	874.9	876.5	881.2	884.4	892.3
50°	827.5	837.0	840.2	841.7	837.0	832.3	835.4	837.0	841.7	844.9	851.2
52.5°	781.7	795.9	795.9	794.4	794.4	794.4	797.5	800.7	805.4	810.2	816.5
55°	751.7	772.3	765.9	759.6	761.2	761.2	764.4	767.5	772.3	775.4	784.9
57.5°	723.3	745.4	739.1	732.8	732.8	732.8	734.3	735.9	740.7	743.8	750.1
60°	690.1	712.2	705.9	698.0	699.6	701.2	702.8	702.8	705.9	707.5	707.5
62.5°	650.6	672.8	666.4	658.5	663.3	666.4	666.4	666.4	669.6	671.2	666.4
65°	609.6	630.1	623.8	617.5	623.8	628.5	631.7	633.3	631.7	630.1	625.4
67.5°	565.4	585.9	579.6	571.7	579.6	585.9	592.2	597.0	592.2	587.5	581.2
70°	518.0	538.5	530.6	522.7	530.6	538.5	544.8	551.2	544.8	538.5	536.9
72.5°	467.5	491.1	481.7	472.2	481.7	491.1	494.3	497.5	492.7	488.0	484.8
75°	412.2	435.9	428.0	418.5	426.4	434.3	435.9	437.5	437.5	435.9	426.4
77.5°	353.8	372.7	368.0	363.2	368.0	372.7	372.7	372.7	374.3	374.3	361.6
80°	284.3	295.3	296.9	298.5	300.1	301.6	300.1	298.5	295.3	292.2	284.3
82.5°	211.6	211.6	224.3	235.3	235.3	233.7	232.1	229.0	222.7	214.8	197.4
85°	134.2	126.3	146.9	165.8	165.8	164.2	161.1	156.3	143.7	129.5	115.3
87.5°	45.8	37.9	58.4	79.0	80.5	80.5	77.4	74.2	61.6	47.4	36.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320484
 CATALOG NUMBER: GLEON-SA0B-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: P320484

CATALOG NUMBER: GLEON-SA0B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	12033.9	12033.9	12033.9	12033.9	12033.9	12033.9	12033.9	12033.9	12033.9	12033.9	12033.9
2.5°	10416.7	10437.2	10456.2	10611.0	10764.1	10944.2	11124.2	11261.6	11397.4	11538.0	11678.5
5°	8330.5	8355.8	8381.1	8569.0	8755.3	9006.4	9257.5	9473.9	9690.3	9944.5	10198.8
7.5°	6174.9	6230.1	6283.8	6484.4	6683.4	6953.4	7221.9	7504.6	7785.7	8117.3	8449.0
10°	4849.9	4954.1	5056.7	5262.1	5467.4	5734.2	5999.6	6294.9	6590.2	6917.1	7242.4
12.5°	3926.0	4065.0	4202.4	4448.7	4695.1	5014.1	5331.5	5660.0	5986.9	6274.3	6561.8
15°	3101.6	3253.2	3403.3	3663.9	3924.4	4275.0	4624.0	4982.5	5339.4	5683.7	6028.0
17.5°	2419.4	2544.2	2667.3	2888.4	3108.0	3447.5	3787.0	4162.9	4538.8	4958.8	5377.3
20°	1951.9	2004.1	2056.2	2215.7	2373.6	2650.0	2924.8	3308.5	3692.3	4194.5	4696.7
22.5°	1710.3	1737.2	1762.4	1839.8	1915.6	2094.1	2271.0	2610.5	2948.5	3496.5	4042.9
25°	1565.0	1585.6	1606.1	1656.6	1707.2	1792.4	1877.7	2116.2	2354.7	2893.2	3430.1
27.5°	1434.0	1465.5	1495.5	1519.2	1541.3	1599.8	1656.6	1813.0	1969.3	2471.5	2972.1
30°	1339.2	1350.3	1361.3	1397.6	1432.4	1492.4	1552.4	1661.4	1770.3	2195.2	2618.4
32.5°	1228.7	1244.4	1260.2	1298.1	1336.0	1391.3	1446.6	1535.0	1621.9	1985.1	2346.8
35°	1129.2	1145.0	1160.7	1198.6	1235.0	1295.0	1353.4	1427.6	1500.3	1816.1	2132.0
37.5°	1067.6	1083.4	1099.2	1132.3	1163.9	1223.9	1282.3	1340.8	1397.6	1689.8	1982.0
40°	1015.5	1031.2	1047.0	1078.6	1108.6	1167.1	1223.9	1272.9	1321.8	1595.0	1868.2
42.5°	969.7	987.0	1004.4	1036.0	1066.0	1118.1	1170.2	1235.0	1298.1	1512.9	1726.1
45°	931.8	949.1	964.9	999.7	1034.4	1084.9	1135.5	1225.5	1315.5	1470.3	1625.0
47.5°	897.0	916.0	933.3	971.2	1009.1	1072.3	1133.9	1209.7	1283.9	1437.1	1590.3
50°	863.8	886.0	908.1	953.9	998.1	1103.9	1208.1	1219.2	1228.7	1410.3	1590.3
52.5°	832.3	857.5	882.8	939.7	994.9	1118.1	1241.3	1201.8	1160.7	1359.7	1558.7
55°	800.7	822.8	843.3	912.8	982.3	1072.3	1162.3	1110.2	1056.5	1265.0	1473.4
57.5°	758.0	781.7	803.8	878.1	952.3	1015.5	1077.0	1029.7	980.7	1157.6	1332.9
60°	713.8	740.7	767.5	862.3	955.4	944.4	931.8	922.3	911.2	1037.6	1163.9
62.5°	674.3	702.8	731.2	854.4	977.6	901.7	825.9	833.8	840.2	933.3	1026.5
65°	634.9	663.3	690.1	751.7	813.3	783.3	753.3	765.9	777.0	868.6	960.2
67.5°	590.6	615.9	639.6	660.1	680.7	683.8	687.0	699.6	712.2	821.2	928.6
70°	541.7	562.2	582.7	597.0	609.6	615.9	620.6	636.4	652.2	770.7	889.1
72.5°	486.4	503.8	519.6	532.2	544.8	549.6	552.7	568.5	584.3	710.7	837.0
75°	426.4	440.6	453.2	464.3	475.4	481.7	488.0	499.0	510.1	647.5	783.3
77.5°	360.1	374.3	386.9	396.4	404.3	410.6	415.3	429.6	443.8	559.1	672.8
80°	281.1	298.5	314.3	322.2	328.5	330.1	330.1	342.7	355.3	437.5	518.0
82.5°	199.0	217.9	235.3	241.6	247.9	247.9	247.9	262.2	276.4	331.6	385.3
85°	116.9	137.4	156.3	162.7	169.0	172.1	173.7	180.0	184.8	224.3	262.2
87.5°	36.3	53.7	69.5	72.6	75.8	82.1	88.4	90.0	90.0	116.9	143.7
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: P320484
 CATALOG NUMBER: GLEON-SA0B-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: P320484

CATALOG NUMBER: GLEON-SA0B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	12033.9	12033.9	12033.9	12033.9	12033.9	12033.9	12033.9
2.5°	11839.6	12000.7	12188.6	12375.0	12534.5	12694.0	12826.6
5°	10522.5	10846.3	11242.7	11637.5	11989.6	12341.8	12750.8
7.5°	8867.5	9286.0	9799.2	10312.5	10809.9	11305.8	11934.4
10°	7668.8	8093.6	8636.9	9178.6	9737.6	10295.1	11005.8
12.5°	6907.6	7251.9	7777.8	8303.7	8960.6	9616.0	10299.8
15°	6405.4	6781.3	7293.0	7804.6	8523.2	9241.8	10028.2
17.5°	5870.1	6361.2	7016.6	7672.0	8523.2	9372.8	10299.8
20°	5309.4	5920.6	6770.2	7619.9	8766.4	9911.4	11094.2
22.5°	4750.4	5457.9	6547.6	7635.7	9134.4	10631.5	12228.1
25°	4246.6	5063.1	6411.7	7758.8	9669.7	11579.0	13559.4
27.5°	3864.4	4755.1	6356.5	7956.2	10348.8	12741.4	15007.6
30°	3524.9	4431.4	6290.1	8148.9	11002.6	13854.7	16139.9
32.5°	3231.1	4115.5	6162.2	8207.3	11459.0	14710.7	17098.5
35°	3000.6	3869.2	5947.4	8025.7	11744.9	15464.0	18096.6
37.5°	2801.6	3621.2	5702.7	7784.1	11999.1	16214.1	19219.4
40°	2612.1	3355.9	5492.6	7627.8	12349.7	17071.7	20405.4
42.5°	2432.0	3138.0	5323.6	7509.3	12675.0	17839.2	21443.0
45°	2297.8	2970.6	5173.6	7375.1	12885.1	18395.1	22224.7
47.5°	2231.5	2871.1	5093.1	7313.5	13095.1	18875.2	22873.8
50°	2222.0	2853.7	5184.7	7515.6	13549.9	19582.7	23616.1
52.5°	2220.4	2882.1	5448.4	8014.7	14394.8	20773.4	24419.9
55°	2187.3	2899.5	5762.7	8624.3	15528.7	22431.6	25864.9
57.5°	2086.2	2839.5	6086.4	9331.8	16727.4	24121.4	27493.1
60°	1929.8	2694.2	6353.3	10010.8	17532.8	25053.2	28120.1
62.5°	1734.0	2439.9	6441.7	10442.0	17510.7	24579.4	27488.4
65°	1566.6	2173.0	6151.2	10127.7	16624.7	23120.2	26239.2
67.5°	1418.2	1906.2	5424.7	8941.7	15031.3	21119.3	24650.5
70°	1310.8	1730.9	4488.2	7245.6	13036.7	18826.2	22810.6
72.5°	1242.9	1647.2	3659.1	5669.5	10579.4	15487.7	19511.6
75°	1149.7	1516.1	2871.1	4224.5	8096.8	11969.1	14737.5
77.5°	976.0	1277.6	2163.6	3049.5	5941.1	8831.1	10249.3
80°	753.3	987.0	1487.7	1988.3	4088.7	6189.1	6988.2
82.5°	536.9	688.6	901.7	1114.9	2716.3	4316.1	4382.4
85°	331.6	401.1	516.4	631.7	1797.2	2962.7	2468.4
87.5°	178.5	213.2	273.2	331.6	574.8	818.0	470.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320484
 CATALOG NUMBER: GLEON-SA0B-830-U-SLL

CANDELA DISTRIBUTION (continued):

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

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

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

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

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

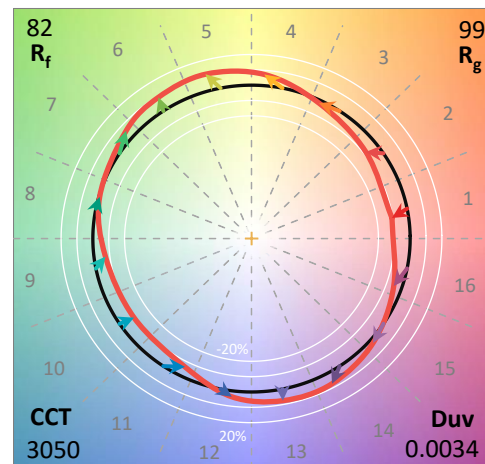
Test Information

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

Spectral Parameters

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

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



Test Conditions

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

REPORT NUMBER: SP1-2408-195-9

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

REPORT NUMBER: SP1-2408-195-9

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

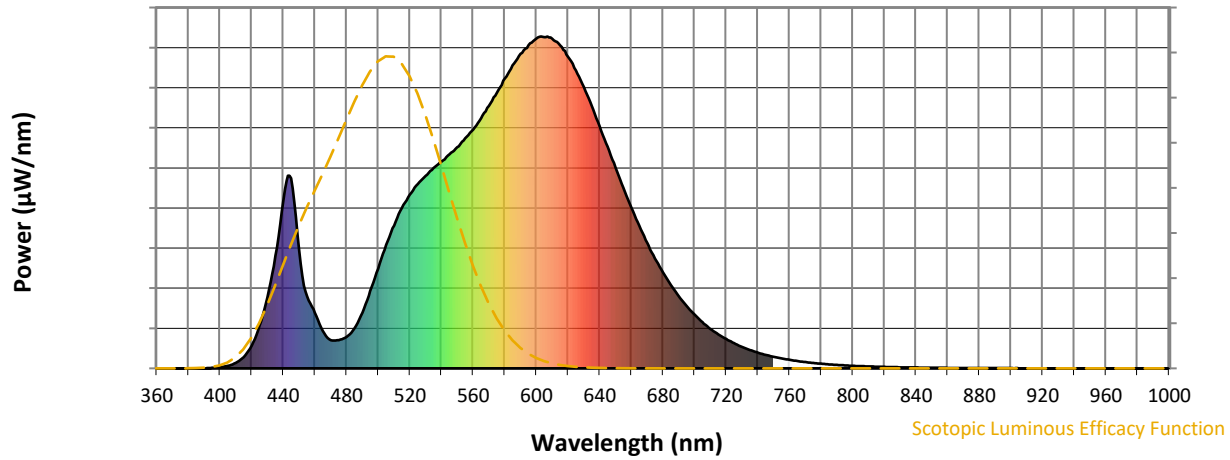


Photopic Lumens: NR

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

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength


Scotopic Lumens: NR
S/P: 1.27

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

REPORT NUMBER: SP1-2408-195-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.32

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

REPORT NUMBER: SP1-2408-195-9

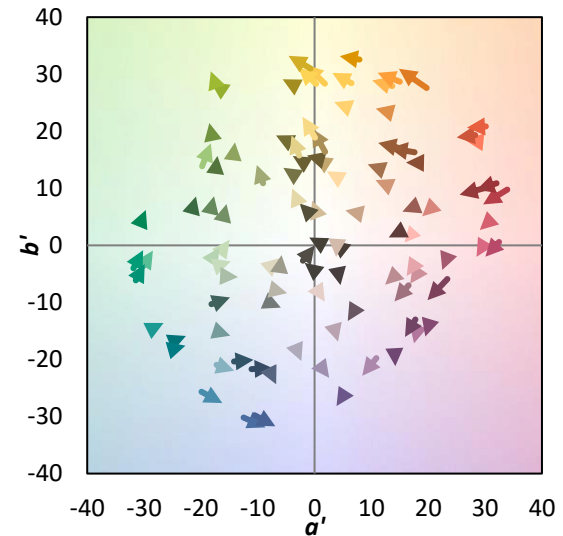
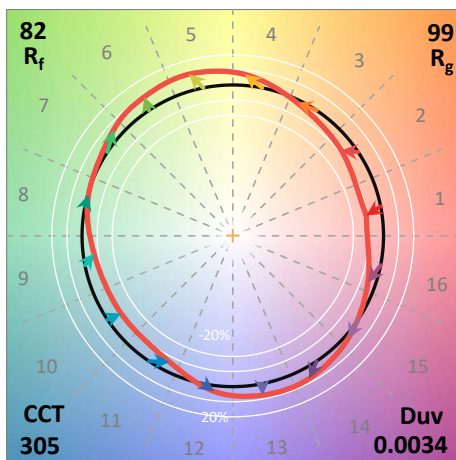
TM-30-18

Summary

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

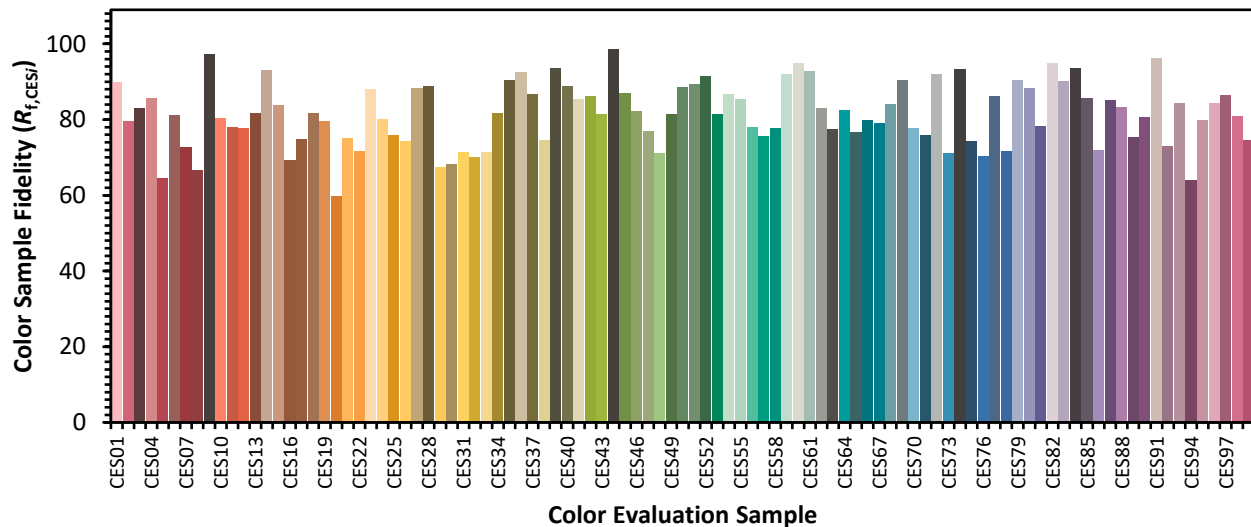


Color Vector Graphics



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

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



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)