

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P320478

Luminaire Tested: **GLEON-SA4B-830-U-SLL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320478
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-SA4B-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 16099 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

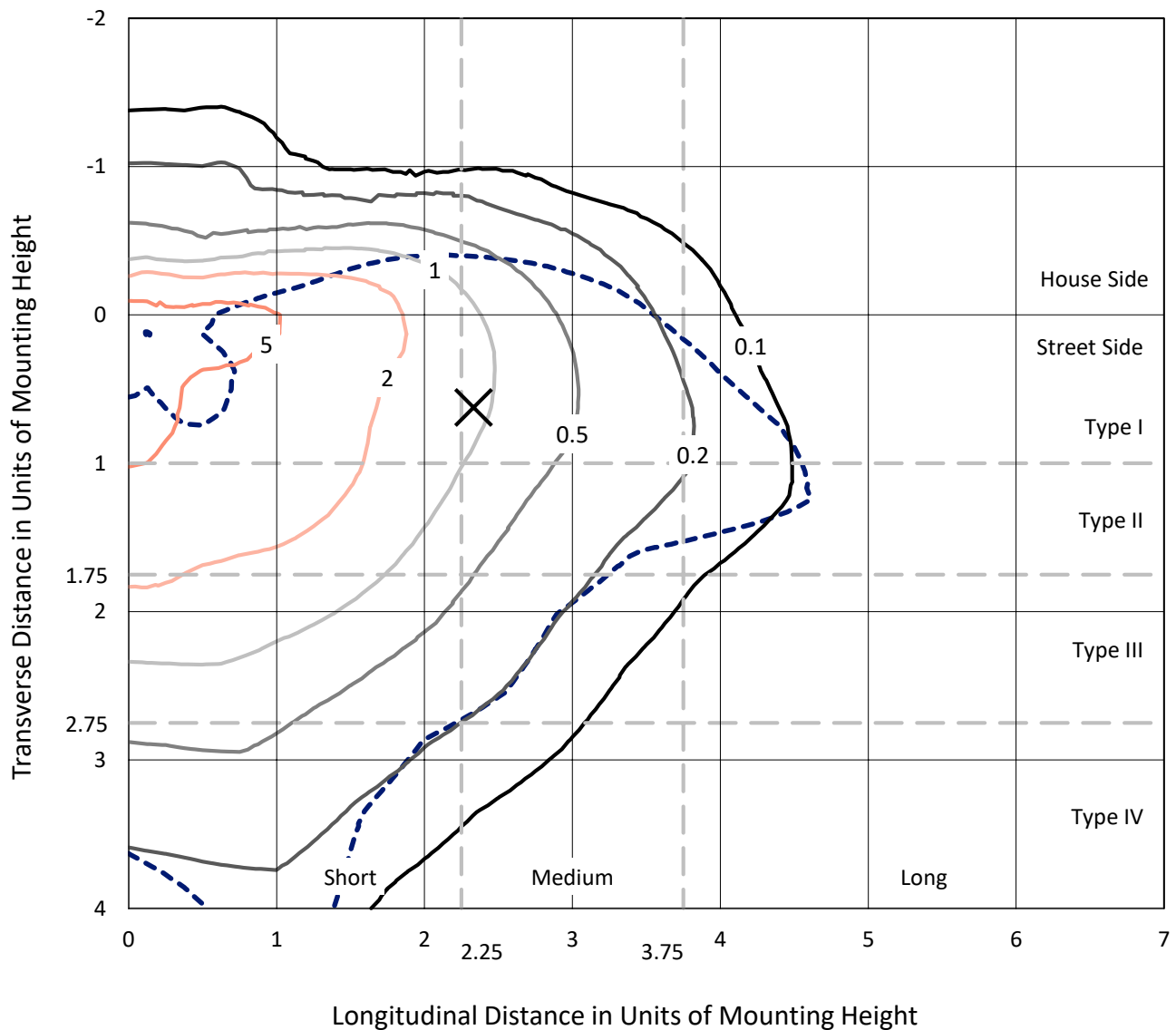
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

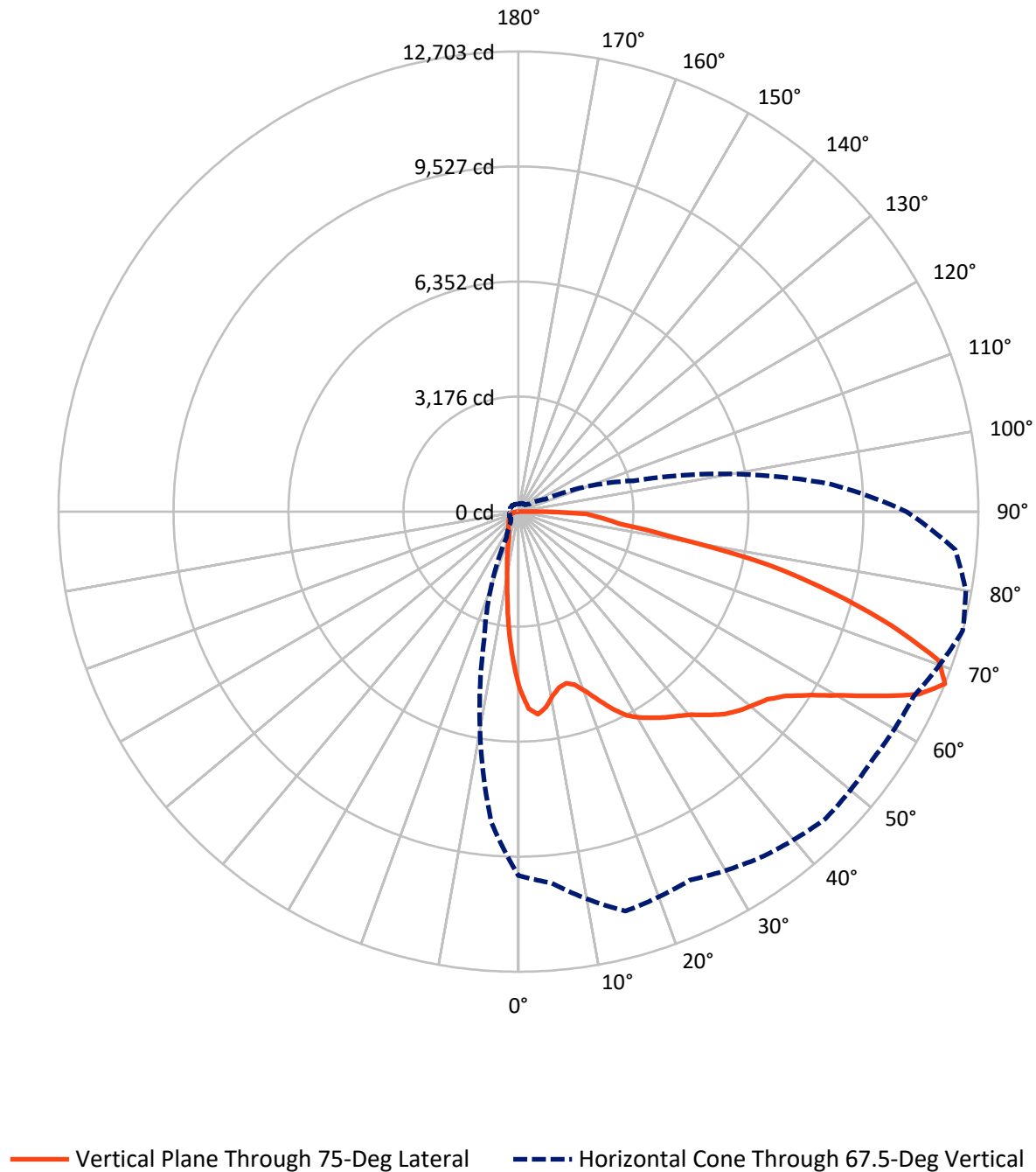
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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	2835.4	0.0	2835.4
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	13263.6	0.0	13263.6
	% Fixture	82.4	0.0	82.4
Total	Lumens	16099.0	0.0	16099.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.5	2.4
10°-20°	786.4	4.9
20°-30°	1118.4	6.9
30°-40°	1611.6	10.0
40°-50°	2271.1	14.1
50°-60°	3157.3	19.6
60°-70°	3818.1	23.7
70°-80°	2346.9	14.6
80°-90°	610.7	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°	16099.0	100.0
0°-180°	16099.0	100.0

Coefficient of Utilization



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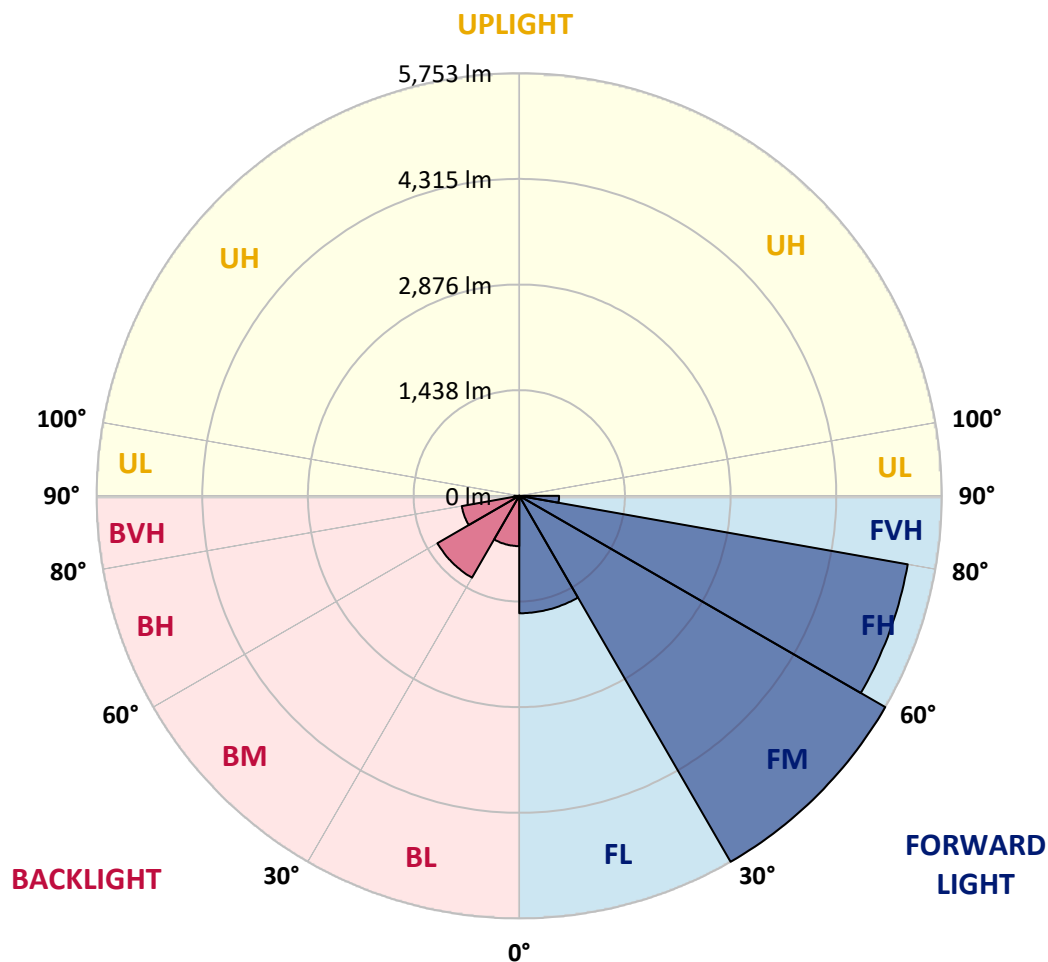
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1598.5	9.9			
FM	(30°-60°)	5752.9	35.7			
FH	(60°-80°)	5370.1	33.4			G3/7500
FVH	(80°-90°)	542.1	3.4			G4/750
BL	(0°-30°)	684.8	4.3	B2/1000		
BM	(30°-60°)	1287.1	8.0	B2/2500		
BH	(60°-80°)	795.0	4.9	B2/1000		G2/1000
BVH	(80°-90°)	68.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4904.6	4904.6	4904.6	4904.6	4904.6	4904.6	4904.6	4904.6	4904.6	4904.6	4904.6
2.5°	5227.7	5296.6	5344.3	5391.2	5427.9	5464.0	5516.7	5569.5	5579.8	5589.5	5568.9
5°	5196.9	5364.8	5507.7	5650.0	5781.9	5913.9	5993.1	6072.2	6088.3	6104.4	6054.8
7.5°	4864.1	5111.9	5359.7	5607.5	5834.7	6061.9	6200.3	6338.1	6369.6	6400.5	6319.4
10°	4485.6	4774.0	5078.4	5382.9	5682.2	5981.5	6181.6	6381.8	6421.7	6461.6	6360.6
12.5°	4197.9	4512.7	4837.7	5162.7	5478.8	5794.2	6001.4	6208.7	6258.2	6307.8	6234.4
15°	4087.2	4432.2	4737.9	5043.7	5319.1	5594.0	5763.9	5933.2	5953.8	5973.7	5962.2
17.5°	4197.9	4578.3	4855.1	5131.2	5281.2	5430.5	5498.7	5566.3	5588.8	5610.7	5640.3
20°	4521.7	4932.3	5127.3	5321.7	5315.3	5308.2	5275.4	5241.9	5236.1	5230.3	5314.0
22.5°	4983.8	5460.8	5538.6	5615.9	5435.0	5254.1	5144.1	5033.4	5011.5	4989.0	5077.8
25°	5526.4	6034.2	6020.1	6005.3	5660.9	5315.9	5106.1	4896.3	4871.8	4847.4	4923.3
27.5°	6116.6	6601.9	6509.3	6416.6	5948.6	5480.7	5176.3	4871.8	4847.4	4822.9	4889.8
30°	6578.1	7018.4	6869.7	6721.0	6191.3	5661.6	5299.8	4938.1	4898.2	4857.6	4940.0
32.5°	6968.8	7343.4	7143.9	6944.4	6388.3	5832.1	5440.8	5049.5	4987.0	4924.6	5034.7
35°	7375.6	7667.8	7387.2	7105.9	6564.0	6021.4	5607.5	5193.0	5116.4	5039.8	5191.1
37.5°	7833.3	8075.9	7673.0	7269.4	6761.6	6253.7	5857.2	5460.1	5381.6	5303.1	5496.2
40°	8316.6	8518.7	7981.3	7443.8	6977.8	6511.8	6202.9	5893.3	5818.6	5743.3	5977.6
42.5°	8739.5	8886.9	8268.4	7649.8	7238.5	6826.6	6609.0	6390.8	6390.2	6388.9	6626.4
45°	9058.1	9186.2	8507.8	7828.8	7492.8	7156.1	7042.9	6929.6	7020.3	7111.1	7326.1
47.5°	9322.7	9409.6	8708.6	8007.0	7783.7	7560.3	7577.1	7593.8	7778.5	7963.3	8101.7
50°	9625.2	9555.0	8890.8	8225.9	8157.0	8088.1	8238.8	8388.7	8601.1	8812.9	8906.9
52.5°	9952.8	9766.8	9137.9	8508.4	8585.7	8662.9	8969.3	9275.7	9490.0	9704.4	9739.8
55°	10541.7	10256.6	9592.4	8927.5	9076.2	9224.2	9674.1	10123.4	10290.7	10458.1	10470.9
57.5°	11205.4	10952.4	10228.9	9505.5	9665.1	9824.7	10344.1	10862.9	11043.8	11224.0	11198.9
60°	11460.9	11473.1	10833.3	10192.9	10353.8	10514.7	11020.6	11526.5	11734.4	11941.7	11886.3
62.5°	11203.4	11505.3	11163.5	10821.1	10967.2	11112.7	11608.3	12103.9	12316.9	12530.0	12433.4
65°	10694.3	10993.6	11146.8	11300.0	11348.2	11396.5	11859.3	12321.4	12484.9	12647.8	12598.9
67.5°	10046.8	10288.8	10853.9	11418.4	11321.2	11224.0	11440.9	11657.8	11825.8	11993.8	11966.2
70°	9296.9	9585.3	10339.0	11092.7	10615.1	10136.9	10047.4	9958.0	10139.5	10320.3	10208.3
72.5°	7952.3	8387.4	9191.4	9994.6	9114.8	8234.9	7929.2	7623.4	7853.2	8083.0	7904.7
75°	6006.6	6583.9	7472.2	8359.8	7310.0	6260.2	5852.1	5444.0	5641.6	5839.2	5716.9
77.5°	4177.3	4901.4	5776.1	6650.9	5583.7	4515.9	4212.7	3908.9	3968.1	4026.7	4006.1
80°	2848.2	3324.5	3934.7	4544.2	3833.6	3123.0	3146.8	3170.0	3142.3	3114.0	3155.2
82.5°	1786.1	2121.5	2592.6	3063.1	2686.0	2308.8	2525.1	2741.3	2635.1	2528.3	2568.2
85°	1006.0	1210.7	1671.6	2131.8	1987.0	1841.5	1968.3	2094.4	1929.7	1764.9	1837.6
87.5°	191.8	319.3	924.9	1530.0	1389.0	1248.0	1084.6	921.1	702.9	484.7	708.0
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°	4904.6	4904.6	4904.6	4904.6	4904.6	4904.6	4904.6	4904.6	4904.6	4904.6	4904.6
2.5°	5548.3	5537.3	5526.4	5487.1	5447.2	5388.0	5339.1	5254.1	5207.8	5137.6	5067.5
5°	6004.6	5935.1	5865.6	5745.9	5625.5	5491.6	5337.8	5167.2	5038.5	4871.2	4703.8
7.5°	6238.3	6076.1	5913.2	5683.5	5453.0	5245.8	5002.5	4775.9	4582.8	4365.3	4147.7
10°	6259.5	6016.2	5772.3	5473.6	5174.3	4922.7	4642.7	4391.0	4159.3	3909.5	3659.2
12.5°	6160.4	5901.7	5642.3	5313.4	4983.8	4698.0	4396.8	4114.9	3858.1	3583.2	3307.7
15°	5950.6	5744.0	5536.7	5228.4	4920.1	4631.7	4339.5	4005.5	3715.2	3433.9	3152.0
17.5°	5669.3	5571.5	5473.0	5250.3	5026.9	4777.2	4494.0	4102.0	3762.2	3456.4	3150.7
20°	5397.0	5433.1	5468.5	5379.7	5290.8	5090.7	4843.5	4403.2	3969.4	3569.7	3169.3
22.5°	5166.0	5339.1	5511.6	5580.5	5648.7	5528.3	5335.2	4826.1	4252.0	3730.0	3208.0
25°	4998.6	5285.7	5572.7	5801.9	6030.4	5977.0	5828.3	5339.7	4626.6	3961.0	3294.9
27.5°	4956.8	5308.8	5660.9	6016.2	6370.9	6420.4	6379.2	5881.1	5073.3	4248.1	3422.3
30°	5022.4	5379.0	5734.9	6167.5	6599.4	6797.0	6852.3	6332.3	5583.7	4582.8	3581.3
32.5°	5144.7	5494.2	5843.7	6314.9	6785.4	7084.0	7260.4	6744.8	5939.6	4835.1	3730.0
35°	5342.3	5669.3	5996.3	6486.7	6977.2	7363.4	7685.2	7170.9	6255.7	5011.5	3766.7
37.5°	5688.6	5969.9	6251.2	6704.3	7156.8	7657.5	8140.9	7640.2	6597.4	5181.4	3764.7
40°	6211.9	6410.8	6609.0	6992.0	7374.3	8004.5	8657.1	8163.5	6975.3	5365.5	3755.7
42.5°	6863.9	6966.3	7068.0	7371.1	7674.3	8366.8	9125.7	8675.2	7335.7	5536.7	3737.7
45°	7540.4	7567.4	7594.5	7785.6	7976.1	8653.9	9445.0	9059.4	7650.5	5685.4	3719.7
47.5°	8239.4	8146.7	8054.0	8130.0	8205.9	8874.0	9672.8	9351.0	7966.5	5850.2	3733.2
50°	9000.8	8742.7	8484.6	8444.7	8404.8	9094.2	9941.2	9721.7	8346.2	6090.2	3834.2
52.5°	9774.5	9349.1	8923.6	8765.9	8607.6	9356.8	10297.2	10183.2	8888.2	6462.3	4035.7
55°	10483.8	9942.5	9401.2	9188.8	8976.4	9758.4	10731.6	10861.0	9582.7	6937.9	4292.5
57.5°	11173.2	10559.8	9946.4	9749.4	9552.5	10348.7	11281.9	11469.3	10284.3	7394.3	4503.6
60°	11831.0	11224.0	10616.4	10458.7	10300.4	11082.4	11876.7	11740.2	10646.0	7608.0	4569.3
62.5°	12336.9	11854.2	11371.4	11288.4	11204.7	11824.5	12333.7	11634.7	10416.2	7397.5	4378.8
65°	12549.9	12275.1	11999.6	12077.5	12154.7	12385.8	12447.6	11325.7	9694.1	6807.9	3921.8
67.5°	11937.8	11993.8	12049.8	12376.8	12703.1	12544.2	12109.0	10716.8	8666.1	5972.5	3278.8
70°	10095.7	10431.7	10767.0	11540.7	12313.7	11961.0	11202.1	9623.9	7429.0	5010.2	2590.7
72.5°	7725.8	8103.6	8480.8	9629.0	10776.7	10451.6	9522.2	7904.7	5956.4	4000.9	2044.9
75°	5594.0	6020.7	6446.8	7713.5	8980.2	8529.0	7122.7	5659.6	4524.2	3054.1	1583.4
77.5°	3984.9	4270.6	4556.4	5807.7	7058.3	6323.2	4741.1	3808.5	3131.4	2122.8	1113.5
80°	3196.4	3108.8	3021.3	3718.4	4415.5	4293.2	3135.9	2445.9	2167.2	1422.5	677.8
82.5°	2607.4	2393.7	2180.1	2508.3	2836.6	2818.6	2176.2	1794.5	1613.0	988.7	364.3
85°	1909.7	1824.1	1738.5	2028.8	2319.1	2071.3	1474.0	1140.6	1257.7	728.0	198.2
87.5°	931.4	1064.0	1195.9	1538.3	1880.1	1411.5	447.3	221.4	306.4	201.5	95.9
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: P320478
 CATALOG NUMBER: GLEON-SA4B-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: P320478

CATALOG NUMBER: GLEON-SA4B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4904.6	4904.6	4904.6	4904.6	4904.6	4904.6	4904.6	4904.6	4904.6	4904.6	4904.6
2.5°	5015.3	4962.6	4902.7	4842.8	4774.6	4705.7	4665.2	4624.0	4579.6	4535.2	4485.0
5°	4593.1	4482.4	4356.9	4231.4	4107.1	3982.9	3916.0	3849.0	3778.2	3706.8	3645.0
7.5°	3986.8	3825.2	3651.4	3477.0	3322.5	3167.4	3071.5	2975.0	2887.4	2799.2	2725.2
10°	3453.2	3247.2	3072.8	2897.7	2781.2	2664.7	2576.5	2488.4	2403.4	2317.8	2236.1
12.5°	3101.8	2895.8	2785.1	2674.4	2577.8	2481.3	2379.6	2277.2	2160.7	2043.6	1958.0
15°	2964.7	2777.4	2654.4	2530.8	2401.5	2271.5	2146.6	2021.7	1884.0	1746.2	1649.0
17.5°	2905.4	2660.2	2488.4	2315.9	2145.3	1974.7	1829.9	1685.1	1534.5	1383.9	1285.4
20°	2843.0	2516.7	2286.3	2055.2	1836.3	1617.5	1453.4	1289.2	1154.7	1020.2	944.9
22.5°	2786.4	2364.1	2075.1	1785.5	1526.7	1268.0	1107.1	945.5	863.1	780.8	750.5
25°	2763.2	2230.9	1875.6	1520.3	1247.4	973.8	859.3	744.7	713.2	681.0	665.5
27.5°	2767.1	2111.8	1707.6	1302.8	1056.9	811.0	732.5	654.0	634.6	614.7	605.0
30°	2781.9	1982.5	1549.3	1116.1	913.3	710.6	659.7	608.3	587.7	567.1	554.8
32.5°	2798.6	1866.6	1427.0	986.7	821.3	655.2	613.4	570.9	551.0	531.0	518.8
35°	2769.6	1772.0	1343.3	914.6	762.1	608.9	573.5	537.5	515.6	493.7	482.1
37.5°	2720.7	1676.7	1278.3	879.2	723.5	567.1	541.3	514.9	492.4	469.2	458.3
40°	2676.3	1596.3	1230.0	863.1	702.2	540.7	518.8	496.9	473.7	449.9	437.0
42.5°	2640.3	1542.2	1182.4	822.6	682.9	542.6	511.7	480.2	457.6	435.1	420.9
45°	2613.2	1506.8	1145.1	783.3	664.9	546.5	507.2	467.9	445.4	422.2	405.5
47.5°	2610.7	1488.1	1118.7	749.2	630.8	511.7	495.6	479.5	446.7	413.2	393.9
50°	2646.1	1457.9	1087.8	717.0	598.0	478.9	500.8	522.0	466.0	409.4	384.9
52.5°	2720.1	1404.5	1038.9	673.3	558.0	442.2	476.3	509.8	461.5	412.6	381.0
55°	2809.5	1325.9	964.8	603.1	505.3	406.8	437.0	466.6	436.4	405.5	367.5
57.5°	2865.5	1226.8	871.5	516.2	446.1	375.9	393.3	410.0	397.8	385.5	346.9
60°	2832.1	1094.9	766.6	437.7	393.9	350.1	346.9	343.1	361.1	379.1	334.7
62.5°	2668.6	958.4	673.9	389.4	356.6	323.1	316.0	308.3	337.9	366.9	319.9
65°	2392.5	863.1	615.3	367.5	330.8	294.1	286.4	278.7	287.7	296.7	274.8
67.5°	2041.7	804.6	581.9	359.2	314.7	269.7	260.7	251.7	249.7	247.8	240.1
70°	1679.9	768.5	560.0	351.4	297.4	242.7	234.3	225.9	223.3	220.1	214.3
72.5°	1404.5	764.0	557.4	350.8	283.2	215.6	207.9	200.2	197.0	193.1	188.6
75°	1150.2	717.0	529.1	341.1	263.9	186.0	178.9	171.9	169.3	166.1	162.2
77.5°	853.5	593.4	444.8	296.1	225.9	155.8	148.7	141.0	140.3	139.0	135.8
80°	553.5	429.3	318.0	206.6	164.8	122.3	116.5	110.1	110.7	111.4	108.8
82.5°	307.7	250.4	194.4	138.4	112.6	86.9	84.3	81.1	83.0	84.3	81.1
85°	162.2	126.2	104.3	82.4	65.0	47.6	47.6	47.0	49.6	52.1	49.6
87.5°	70.2	44.4	38.0	30.9	17.4	3.2	3.9	3.9	5.1	6.4	5.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320478
 CATALOG NUMBER: GLEON-SA4B-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: P320478

CATALOG NUMBER: GLEON-SA4B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4904.6	4904.6	4904.6	4904.6	4904.6	4904.6	4904.6	4904.6	4904.6	4904.6	4904.6
2.5°	4434.1	4387.1	4339.5	4287.4	4297.0	4257.1	4217.2	4192.1	4167.0	4159.3	4151.6
5°	3583.2	3529.8	3475.7	3427.5	3469.3	3441.0	3412.6	3408.8	3404.3	3404.3	3403.6
7.5°	2651.2	2593.9	2536.0	2496.1	2537.3	2532.1	2527.0	2554.7	2582.3	2604.9	2626.7
10°	2154.3	2084.8	2014.6	1955.4	1945.1	1915.5	1885.3	1891.7	1897.5	1921.9	1946.4
12.5°	1872.4	1789.4	1706.3	1636.8	1605.3	1556.4	1506.8	1475.9	1445.0	1448.2	1450.8
15°	1551.2	1470.7	1389.6	1329.8	1309.8	1271.9	1233.9	1195.3	1156.0	1139.9	1123.2
17.5°	1186.3	1121.9	1056.9	1017.0	1017.0	1006.0	995.1	975.8	955.8	939.7	923.0
20°	869.6	835.5	800.7	784.0	789.1	789.8	789.8	799.4	809.1	803.9	798.8
22.5°	719.6	707.4	695.1	688.1	690.6	691.3	691.9	700.9	709.3	715.7	721.5
25°	649.4	641.7	634.0	631.4	637.2	637.9	637.9	643.7	649.4	655.9	662.3
27.5°	594.7	591.5	588.3	583.8	589.6	589.6	588.9	595.4	601.2	607.0	612.1
30°	542.6	543.9	544.5	543.2	547.1	549.7	551.6	556.1	560.0	564.5	569.0
32.5°	505.9	504.0	502.0	500.8	509.1	513.6	518.1	522.6	526.5	528.4	530.4
35°	470.5	466.0	461.5	458.3	466.0	471.8	477.6	486.0	493.7	495.0	496.3
37.5°	446.7	440.9	435.1	431.2	434.5	437.0	439.6	448.6	457.6	462.8	467.3
40°	424.2	418.4	412.6	409.4	411.3	411.9	412.6	417.1	420.9	430.6	439.6
42.5°	406.1	399.1	392.0	388.1	389.4	390.7	391.3	390.7	390.1	399.1	408.1
45°	388.1	380.4	372.7	368.2	368.8	368.8	368.8	367.5	365.6	370.1	374.6
47.5°	374.0	365.0	355.9	351.4	350.1	348.9	347.6	346.9	345.6	348.9	351.4
50°	359.8	350.1	339.8	334.7	331.5	330.2	328.9	328.3	327.0	330.2	332.8
52.5°	348.9	337.3	325.7	317.3	314.1	312.2	310.2	310.9	310.9	312.2	312.8
55°	329.6	319.3	308.3	302.5	296.7	295.4	294.1	296.1	297.4	297.4	297.4
57.5°	308.3	298.7	288.4	284.5	279.3	279.3	278.7	281.3	283.2	284.5	285.8
60°	289.6	278.7	267.8	264.5	262.6	262.0	261.3	264.5	267.1	269.7	272.3
62.5°	272.3	260.7	249.1	245.2	244.6	245.2	245.2	248.5	251.0	253.6	256.2
65°	253.0	241.4	229.1	225.3	226.6	228.5	230.4	233.0	234.9	237.5	240.1
67.5°	231.7	222.1	211.8	207.9	208.5	211.1	213.7	215.6	216.9	219.5	222.1
70°	208.5	200.2	191.8	189.2	188.6	191.8	194.4	195.7	197.0	200.2	202.8
72.5°	183.4	176.4	169.3	167.3	168.0	169.9	171.9	173.8	175.1	178.3	180.9
75°	157.7	151.3	144.8	143.5	144.8	146.8	148.7	150.0	151.3	155.1	158.3
77.5°	132.6	125.5	117.8	117.1	119.1	121.0	122.3	124.2	126.2	131.3	136.5
80°	106.2	98.5	90.1	89.5	91.4	93.3	95.3	97.2	99.1	105.6	111.4
82.5°	77.9	68.9	59.9	58.6	65.0	66.9	68.9	72.1	74.7	80.5	86.2
85°	47.0	38.0	29.0	28.3	34.1	37.3	40.6	44.4	47.6	52.8	57.9
87.5°	5.1	2.6	0.0	0.0	0.6	3.2	5.8	9.0	12.2	17.4	21.9
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: P320478
 CATALOG NUMBER: GLEON-SA4B-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: P320478

CATALOG NUMBER: GLEON-SA4B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4904.6	4904.6	4904.6	4904.6	4904.6	4904.6	4904.6	4904.6	4904.6	4904.6	4904.6
2.5°	4123.2	4094.3	4123.9	4152.8	4165.1	4177.3	4145.8	4113.6	4163.8	4213.4	4226.2
5°	3377.9	3351.5	3371.5	3390.8	3347.6	3304.5	3300.0	3294.9	3332.2	3369.5	3375.3
7.5°	2618.4	2610.0	2628.7	2647.3	2592.6	2537.3	2510.2	2483.2	2492.2	2501.2	2499.9
10°	1952.2	1957.3	1980.5	2003.0	1960.6	1918.1	1899.4	1880.8	1901.4	1921.3	1940.0
12.5°	1462.4	1473.3	1497.8	1521.6	1504.2	1486.2	1488.1	1490.1	1513.9	1537.0	1557.6
15°	1136.0	1148.9	1166.3	1183.0	1183.7	1183.7	1200.4	1216.5	1214.6	1212.6	1226.8
17.5°	940.4	957.1	959.0	961.0	961.6	962.3	961.0	959.7	950.0	940.4	951.3
20°	805.2	811.0	816.2	820.7	814.9	808.4	792.3	776.2	769.8	763.4	773.7
22.5°	732.5	742.8	737.6	731.8	720.2	708.0	695.8	682.9	682.3	681.0	686.8
25°	671.3	679.7	670.7	661.7	653.3	644.9	636.6	628.2	627.6	626.9	629.5
27.5°	620.5	628.2	619.8	611.5	604.4	597.3	590.9	584.4	583.1	581.9	582.5
30°	576.7	583.8	576.7	569.0	563.8	558.0	553.5	549.0	548.4	547.7	547.7
32.5°	537.5	544.5	539.4	534.2	529.7	525.2	522.0	518.8	515.6	512.3	505.3
35°	503.3	510.4	507.2	503.3	498.2	493.0	487.2	480.8	472.4	463.4	459.6
37.5°	474.4	481.5	478.2	475.0	467.9	460.9	450.6	439.6	437.0	433.8	433.2
40°	451.2	462.1	455.7	448.6	437.7	426.7	421.6	416.4	415.2	413.9	412.6
42.5°	425.5	442.2	430.6	419.0	408.7	398.4	397.1	395.8	395.2	394.6	394.6
45°	393.3	411.3	399.7	387.5	381.7	375.9	375.9	375.9	376.5	376.5	377.8
47.5°	363.0	374.0	368.2	362.4	359.2	355.9	356.6	357.2	359.2	360.4	363.7
50°	337.3	341.1	342.4	343.1	341.1	339.2	340.5	341.1	343.1	344.4	346.9
52.5°	318.6	324.4	324.4	323.8	323.8	323.8	325.0	326.3	328.3	330.2	332.8
55°	306.4	314.7	312.2	309.6	310.2	310.2	311.5	312.8	314.7	316.0	319.9
57.5°	294.8	303.8	301.2	298.7	298.7	298.7	299.3	299.9	301.9	303.2	305.7
60°	281.3	290.3	287.7	284.5	285.1	285.8	286.4	286.4	287.7	288.4	288.4
62.5°	265.2	274.2	271.6	268.4	270.3	271.6	271.6	271.6	272.9	273.6	271.6
65°	248.5	256.8	254.2	251.7	254.2	256.2	257.5	258.1	257.5	256.8	254.9
67.5°	230.4	238.8	236.2	233.0	236.2	238.8	241.4	243.3	241.4	239.4	236.9
70°	211.1	219.5	216.3	213.0	216.3	219.5	222.1	224.6	222.1	219.5	218.8
72.5°	190.5	200.2	196.3	192.5	196.3	200.2	201.5	202.8	200.8	198.9	197.6
75°	168.0	177.6	174.4	170.6	173.8	177.0	177.6	178.3	178.3	177.6	173.8
77.5°	144.2	151.9	150.0	148.0	150.0	151.9	151.9	151.9	152.5	152.5	147.4
80°	115.9	120.4	121.0	121.7	122.3	122.9	122.3	121.7	120.4	119.1	115.9
82.5°	86.2	86.2	91.4	95.9	95.9	95.3	94.6	93.3	90.8	87.5	80.5
85°	54.7	51.5	59.9	67.6	67.6	66.9	65.7	63.7	58.6	52.8	47.0
87.5°	18.7	15.4	23.8	32.2	32.8	32.8	31.5	30.3	25.1	19.3	14.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320478
 CATALOG NUMBER: GLEON-SA4B-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: P320478

CATALOG NUMBER: GLEON-SA4B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4904.6	4904.6	4904.6	4904.6	4904.6	4904.6	4904.6	4904.6	4904.6	4904.6	4904.6
2.5°	4245.5	4253.9	4261.6	4324.7	4387.1	4460.5	4533.9	4589.9	4645.2	4702.5	4759.8
5°	3395.3	3405.6	3415.9	3492.5	3568.4	3670.8	3773.1	3861.3	3949.5	4053.1	4156.7
7.5°	2516.7	2539.2	2561.1	2642.8	2723.9	2834.0	2943.4	3058.6	3173.2	3308.4	3443.5
10°	1976.7	2019.1	2061.0	2144.7	2228.3	2337.1	2445.2	2565.6	2686.0	2819.2	2951.8
12.5°	1600.1	1656.8	1712.8	1813.2	1913.6	2043.6	2173.0	2306.9	2440.1	2557.2	2674.4
15°	1264.1	1325.9	1387.1	1493.3	1599.5	1742.4	1884.6	2030.7	2176.2	2316.5	2456.8
17.5°	986.1	1036.9	1087.1	1177.2	1266.7	1405.1	1543.5	1696.7	1849.9	2021.1	2191.6
20°	795.6	816.8	838.0	903.0	967.4	1080.0	1192.0	1348.5	1504.9	1709.5	1914.2
22.5°	697.1	708.0	718.3	749.9	780.8	853.5	925.6	1064.0	1201.7	1425.0	1647.8
25°	637.9	646.2	654.6	675.2	695.8	730.5	765.3	862.5	959.7	1179.2	1398.0
27.5°	584.4	597.3	609.5	619.2	628.2	652.0	675.2	738.9	802.6	1007.3	1211.4
30°	545.8	550.3	554.8	569.6	583.8	608.3	632.7	677.1	721.5	894.7	1067.2
32.5°	500.8	507.2	513.6	529.1	544.5	567.1	589.6	625.6	661.0	809.1	956.5
35°	460.2	466.6	473.1	488.5	503.3	527.8	551.6	581.9	611.5	740.2	868.9
37.5°	435.1	441.5	448.0	461.5	474.4	498.8	522.6	546.5	569.6	688.7	807.8
40°	413.9	420.3	426.7	439.6	451.8	475.7	498.8	518.8	538.7	650.1	761.4
42.5°	395.2	402.3	409.4	422.2	434.5	455.7	476.9	503.3	529.1	616.6	703.5
45°	379.8	386.8	393.3	407.4	421.6	442.2	462.8	499.5	536.2	599.2	662.3
47.5°	365.6	373.3	380.4	395.8	411.3	437.0	462.1	493.0	523.3	585.7	648.2
50°	352.1	361.1	370.1	388.8	406.8	449.9	492.4	496.9	500.8	574.8	648.2
52.5°	339.2	349.5	359.8	383.0	405.5	455.7	505.9	489.8	473.1	554.2	635.3
55°	326.3	335.3	343.7	372.0	400.4	437.0	473.7	452.5	430.6	515.6	600.5
57.5°	309.0	318.6	327.6	357.9	388.1	413.9	439.0	419.7	399.7	471.8	543.2
60°	290.9	301.9	312.8	351.4	389.4	384.9	379.8	375.9	371.4	422.9	474.4
62.5°	274.8	286.4	298.0	348.2	398.4	367.5	336.6	339.8	342.4	380.4	418.4
65°	258.7	270.3	281.3	306.4	331.5	319.3	307.0	312.2	316.7	354.0	391.3
67.5°	240.7	251.0	260.7	269.0	277.4	278.7	280.0	285.1	290.3	334.7	378.5
70°	220.8	229.1	237.5	243.3	248.5	251.0	253.0	259.4	265.8	314.1	362.4
72.5°	198.2	205.3	211.8	216.9	222.1	224.0	225.3	231.7	238.2	289.6	341.1
75°	173.8	179.6	184.7	189.2	193.7	196.3	198.9	203.4	207.9	263.9	319.3
77.5°	146.8	152.5	157.7	161.6	164.8	167.3	169.3	175.1	180.9	227.9	274.2
80°	114.6	121.7	128.1	131.3	133.9	134.5	134.5	139.7	144.8	178.3	211.1
82.5°	81.1	88.8	95.9	98.5	101.1	101.1	101.1	106.8	112.6	135.2	157.1
85°	47.6	56.0	63.7	66.3	68.9	70.2	70.8	73.4	75.3	91.4	106.8
87.5°	14.8	21.9	28.3	29.6	30.9	33.5	36.0	36.7	36.7	47.6	58.6
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: P320478
 CATALOG NUMBER: GLEON-SA4B-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: P320478

CATALOG NUMBER: GLEON-SA4B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4904.6	4904.6	4904.6	4904.6	4904.6	4904.6	4904.6
2.5°	4825.5	4891.1	4967.7	5043.7	5108.7	5173.7	5227.7
5°	4288.7	4420.6	4582.2	4743.1	4886.6	5030.1	5196.9
7.5°	3614.1	3784.7	3993.9	4203.1	4405.8	4607.9	4864.1
10°	3125.6	3298.7	3520.1	3740.9	3968.8	4196.0	4485.6
12.5°	2815.3	2955.7	3170.0	3384.3	3652.1	3919.2	4197.9
15°	2610.7	2763.8	2972.4	3180.9	3473.8	3766.7	4087.2
17.5°	2392.5	2592.6	2859.8	3126.9	3473.8	3820.1	4197.9
20°	2164.0	2413.1	2759.3	3105.6	3572.9	4039.6	4521.7
22.5°	1936.1	2224.5	2668.6	3112.1	3722.9	4333.1	4983.8
25°	1730.8	2063.6	2613.2	3162.3	3941.1	4719.3	5526.4
27.5°	1575.0	1938.0	2590.7	3242.7	4217.9	5193.0	6116.6
30°	1436.6	1806.1	2563.7	3321.2	4484.3	5646.8	6578.1
32.5°	1316.9	1677.4	2511.5	3345.1	4670.3	5995.6	6968.8
35°	1222.9	1576.9	2424.0	3271.0	4786.8	6302.7	7375.6
37.5°	1141.8	1475.9	2324.2	3172.6	4890.5	6608.4	7833.3
40°	1064.6	1367.8	2238.6	3108.8	5033.4	6957.9	8316.6
42.5°	991.2	1278.9	2169.8	3060.6	5166.0	7270.7	8739.5
45°	936.5	1210.7	2108.6	3005.9	5251.6	7497.3	9058.1
47.5°	909.5	1170.2	2075.8	2980.8	5337.2	7692.9	9322.7
50°	905.6	1163.1	2113.1	3063.1	5522.5	7981.3	9625.2
52.5°	905.0	1174.7	2220.6	3266.5	5866.9	8466.6	9952.8
55°	891.5	1181.7	2348.7	3515.0	6329.0	9142.4	10541.7
57.5°	850.3	1157.3	2480.6	3803.3	6817.6	9831.2	11205.4
60°	786.5	1098.1	2589.4	4080.1	7145.8	10210.9	11460.9
62.5°	706.7	994.4	2625.5	4255.8	7136.8	10017.8	11203.4
65°	638.5	885.7	2507.0	4127.7	6775.7	9423.1	10694.3
67.5°	578.0	776.9	2210.9	3644.4	6126.3	8607.6	10046.8
70°	534.2	705.4	1829.3	2953.1	5313.4	7673.0	9296.9
72.5°	506.6	671.3	1491.3	2310.7	4311.8	6312.3	7952.3
75°	468.6	617.9	1170.2	1721.8	3300.0	4878.2	6006.6
77.5°	397.8	520.7	881.8	1242.9	2421.4	3599.3	4177.3
80°	307.0	402.3	606.3	810.4	1666.4	2522.5	2848.2
82.5°	218.8	280.6	367.5	454.4	1107.1	1759.1	1786.1
85°	135.2	163.5	210.5	257.5	732.5	1207.5	1006.0
87.5°	72.7	86.9	111.4	135.2	234.3	333.4	191.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320478
 CATALOG NUMBER: GLEON-SA4B-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

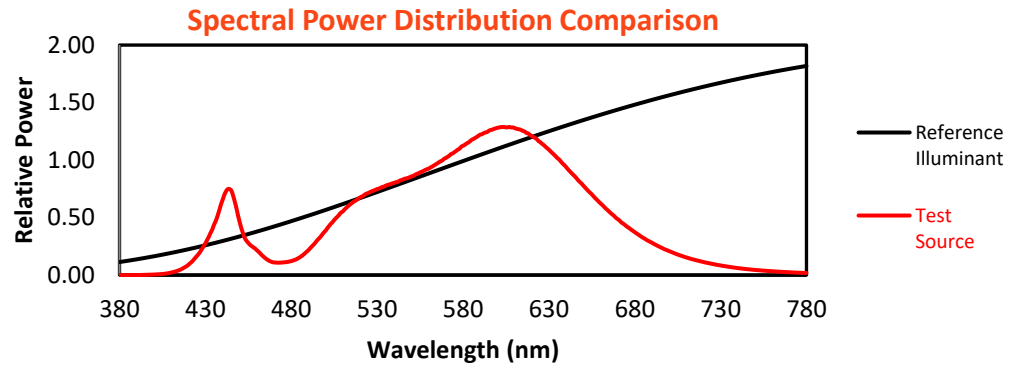
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	168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

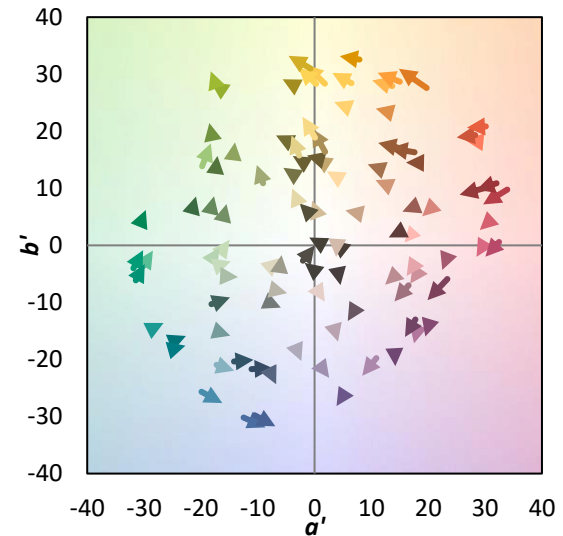
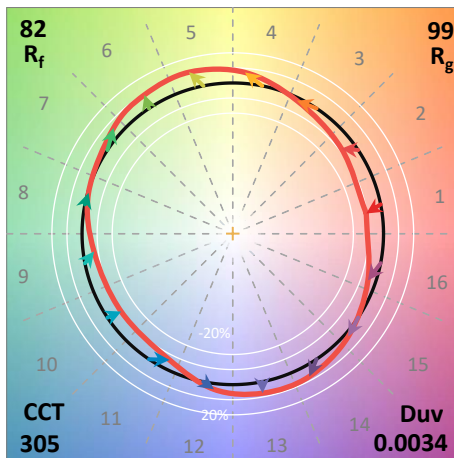
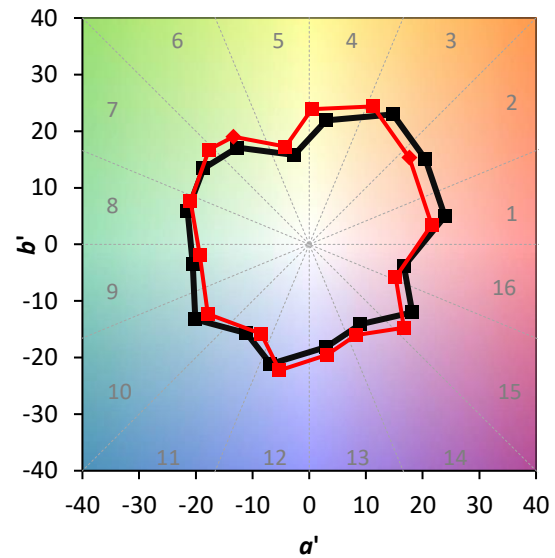
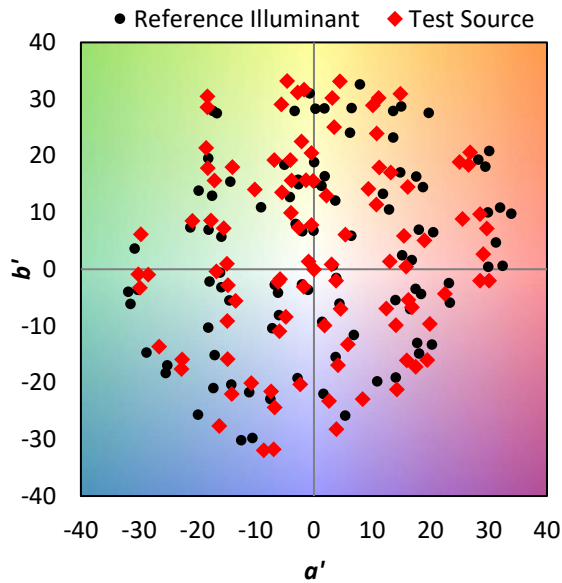
TM-30-18

Summary

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

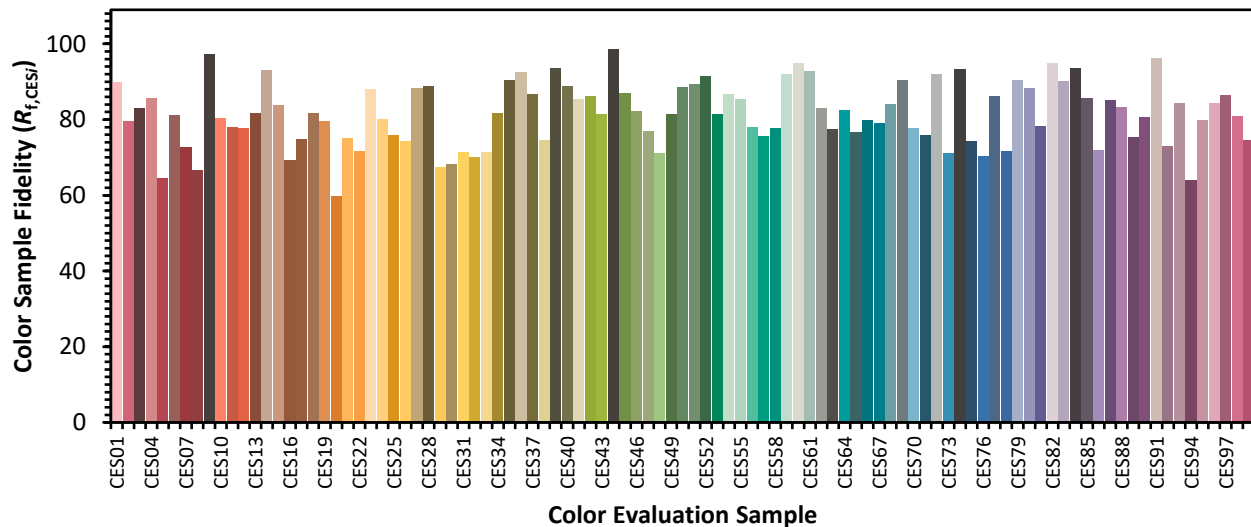


Color Vector Graphics

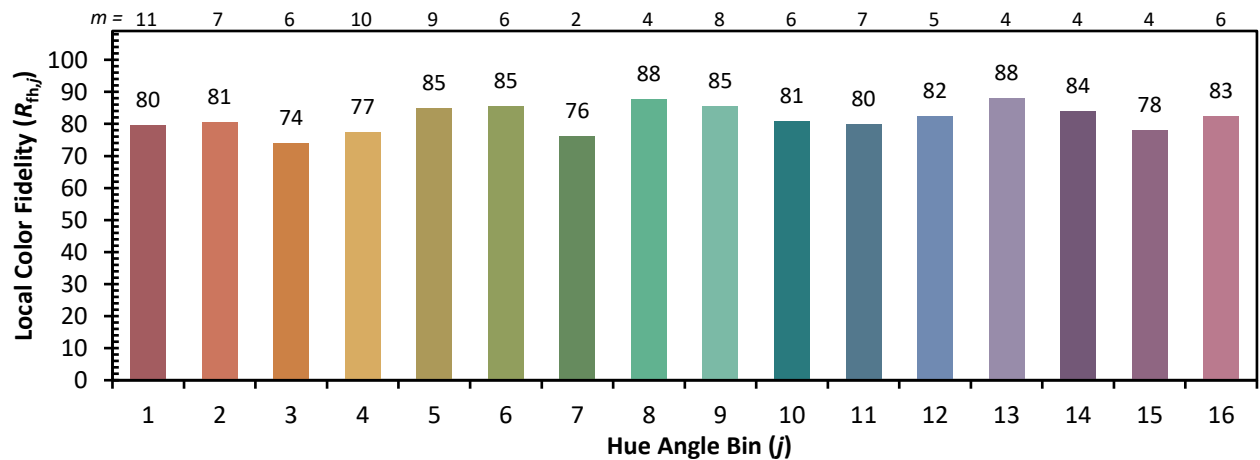


Individual Sample Fidelity Index ($R_{f,i}$)

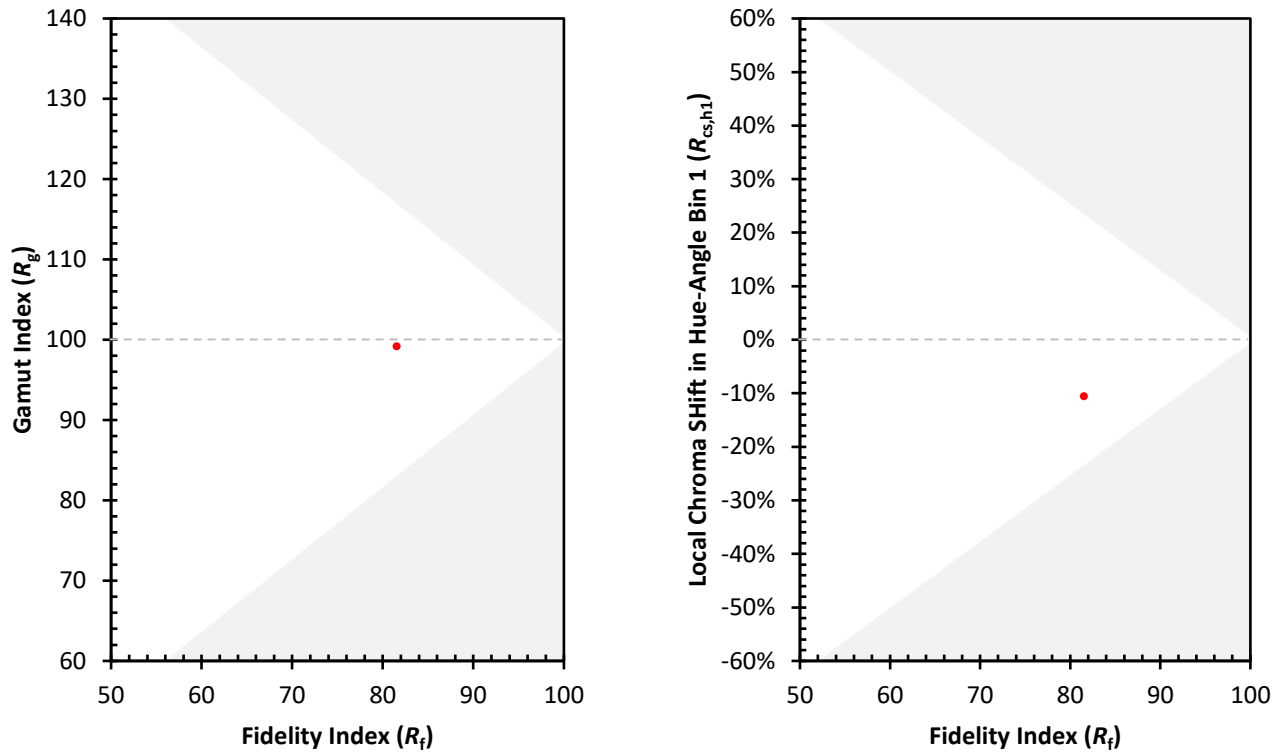
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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