

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: P320798

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320798
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-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16099 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

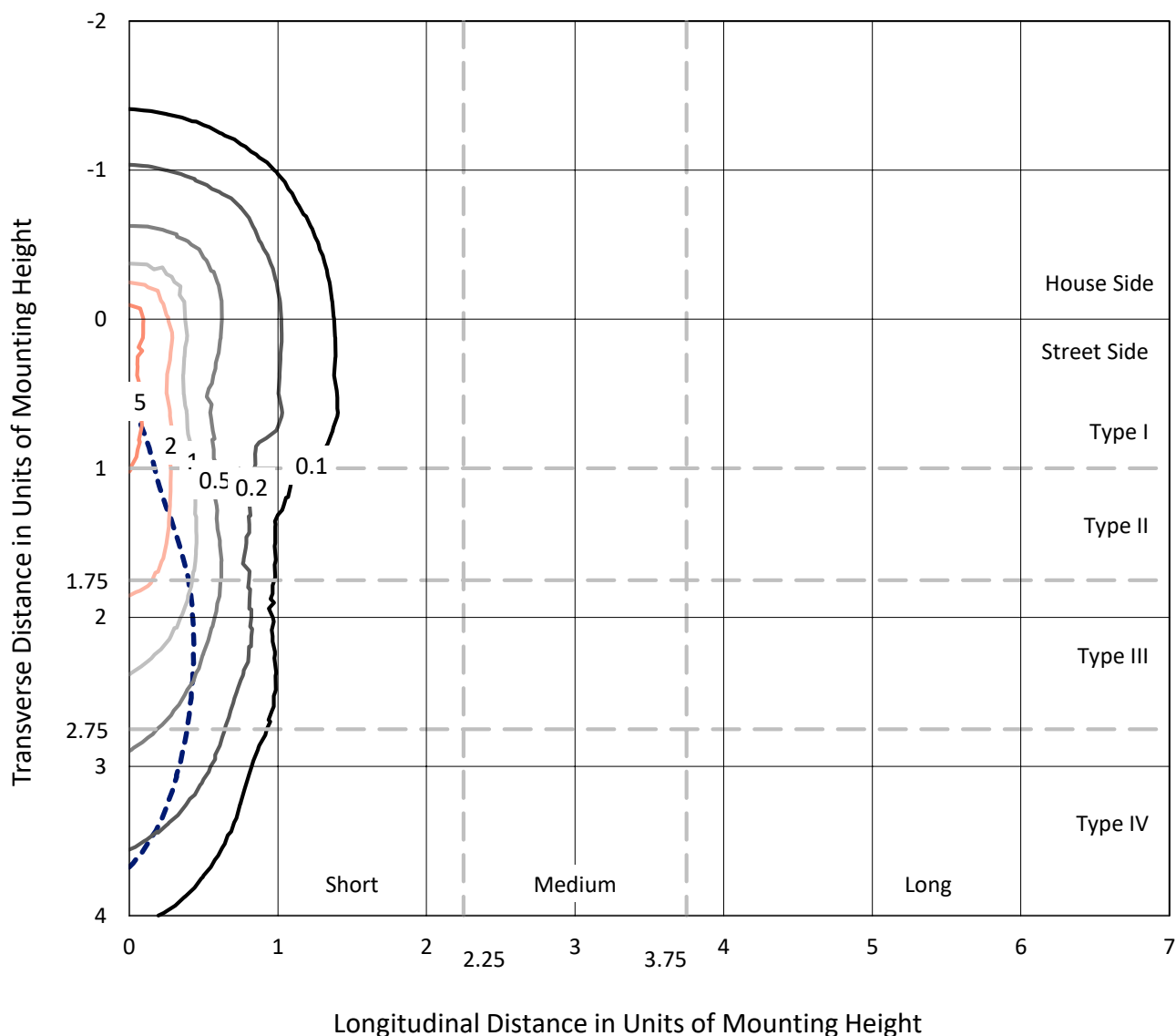
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

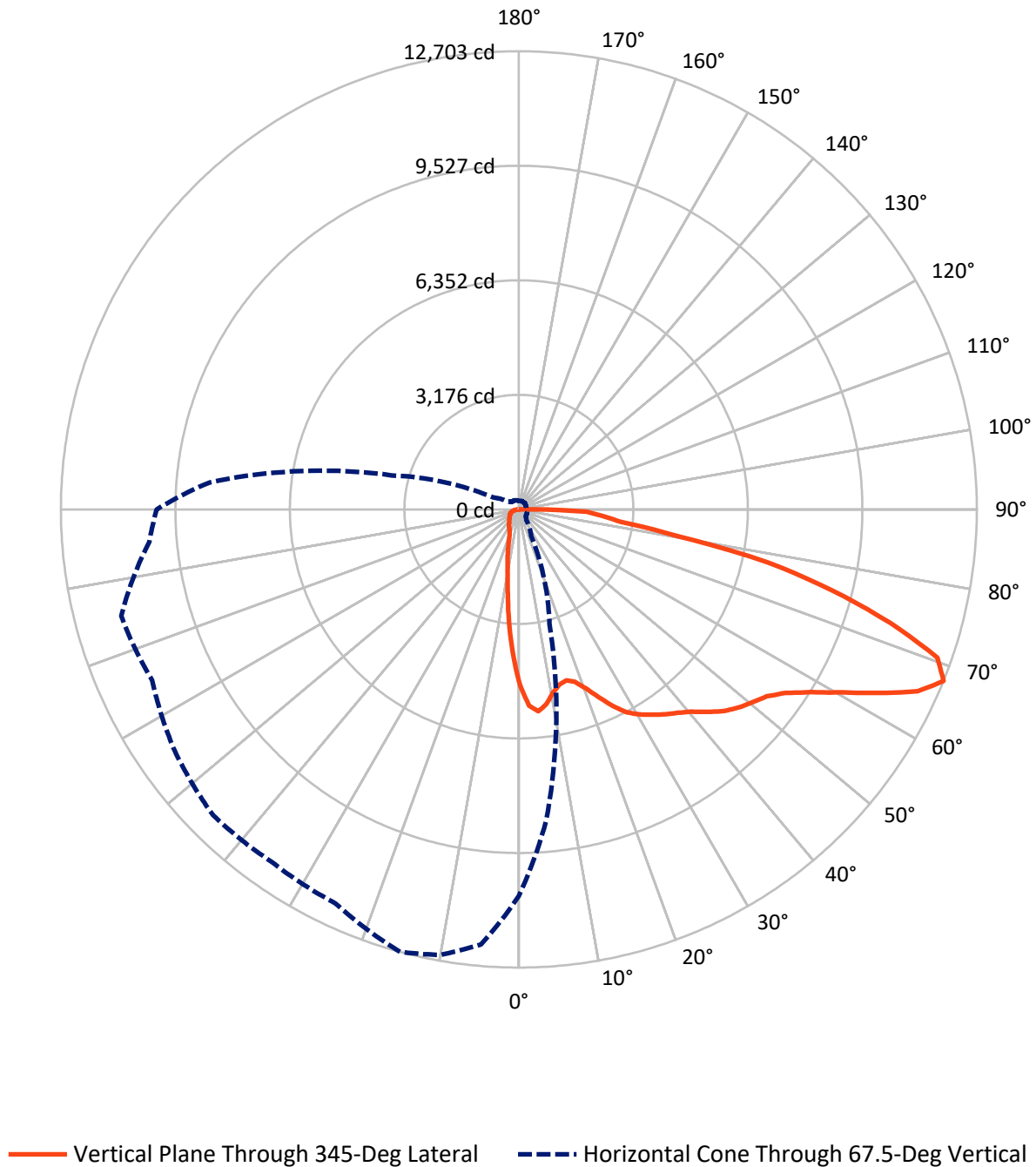
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2783.2	0.0	2783.2
	% Fixture	17.3	0.0	17.3
Street Side	Lumens	13315.8	0.0	13315.8
	% Fixture	82.7	0.0	82.7
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°	2271.2	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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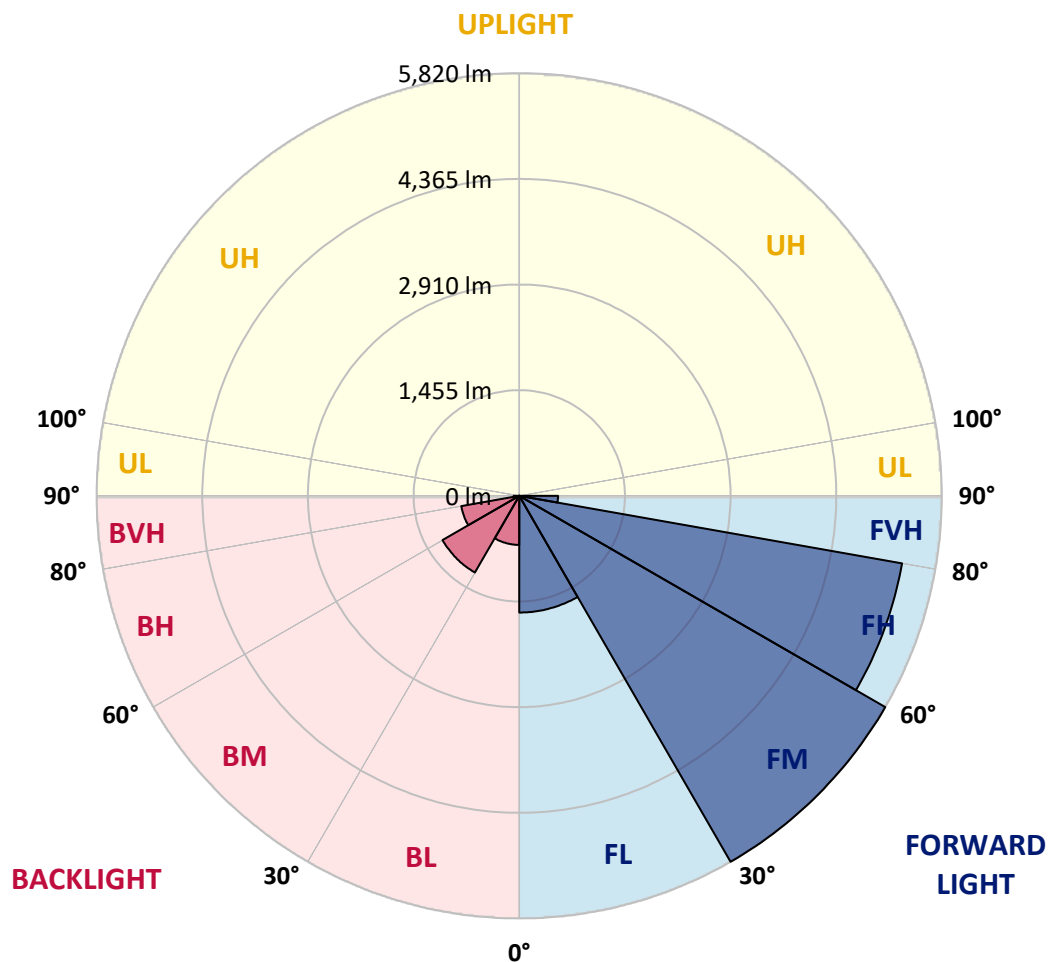
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1607.5	10.0			
FM	(30°-60°)	5820.2	36.2			
FH	(60°-80°)	5354.0	33.3			G3/7500
FVH	(80°-90°)	534.1	3.3			G4/750
BL	(0°-30°)	675.7	4.2	B2/1000		
BM	(30°-60°)	1219.8	7.6	B2/2500		
BH	(60°-80°)	811.1	5.0	B2/1000		G2/1000
BVH	(80°-90°)	76.6	0.5			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 IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4904.7	4904.7	4904.7	4904.7	4904.7	4904.7	4904.7	4904.7	4904.7	4904.7	4904.7
2.5°	5254.2	5207.8	5137.7	5067.5	5015.4	4962.6	4902.7	4842.9	4774.7	4705.8	4665.2
5°	5167.3	5038.6	4871.2	4703.9	4593.1	4482.4	4356.9	4231.4	4107.2	3983.0	3916.0
7.5°	4775.9	4582.8	4365.3	4147.7	3986.8	3825.3	3651.5	3477.0	3322.6	3167.4	3071.5
10°	4391.0	4159.3	3909.6	3659.2	3453.2	3247.3	3072.8	2897.7	2781.2	2664.7	2576.6
12.5°	4114.9	3858.1	3583.2	3307.8	3101.8	2895.8	2785.1	2674.4	2577.8	2481.3	2379.6
15°	4005.5	3715.2	3433.9	3152.0	2964.7	2777.4	2654.4	2530.9	2401.5	2271.5	2146.6
17.5°	4102.0	3762.2	3456.4	3150.7	2905.5	2660.2	2488.4	2315.9	2145.3	1974.7	1829.9
20°	4403.3	3969.4	3569.7	3169.4	2843.0	2516.7	2286.3	2055.2	1836.4	1617.5	1453.4
22.5°	4826.1	4252.0	3730.0	3208.0	2786.4	2364.2	2075.2	1785.5	1526.8	1268.0	1107.1
25°	5339.8	4626.6	3961.1	3294.9	2763.2	2230.9	1875.6	1520.3	1247.4	973.9	859.3
27.5°	5881.1	5073.3	4248.1	3422.3	2767.1	2111.8	1707.6	1302.8	1056.9	811.0	732.5
30°	6332.3	5583.7	4582.8	3581.3	2781.9	1982.5	1549.3	1116.1	913.4	710.6	659.7
32.5°	6744.9	5939.7	4835.2	3730.0	2798.6	1866.6	1427.0	986.7	821.3	655.2	613.4
35°	7171.0	6255.7	5011.5	3766.7	2769.7	1772.0	1343.3	914.6	762.1	608.9	573.5
37.5°	7640.2	6597.5	5181.4	3764.8	2720.7	1676.7	1278.3	879.2	723.5	567.1	541.3
40°	8163.5	6975.3	5365.5	3755.7	2676.3	1596.3	1230.0	863.1	702.2	540.7	518.8
42.5°	8675.2	7335.8	5536.7	3737.7	2640.3	1542.2	1182.4	822.6	682.9	542.6	511.7
45°	9059.5	7650.5	5685.4	3719.7	2613.3	1506.8	1145.1	783.3	664.9	546.5	507.2
47.5°	9351.1	7966.6	5850.2	3733.2	2610.7	1488.1	1118.7	749.2	630.8	511.7	495.6
50°	9721.8	8346.3	6090.3	3834.3	2646.1	1457.9	1087.8	717.0	598.0	478.9	500.8
52.5°	10183.3	8888.3	6462.3	4035.7	2720.1	1404.5	1038.9	673.3	558.1	442.2	476.3
55°	10861.1	9582.8	6938.0	4292.6	2809.6	1325.9	964.8	603.1	505.3	406.8	437.0
57.5°	11469.3	10284.4	7394.3	4503.7	2865.6	1226.8	871.5	516.2	446.1	375.9	393.3
60°	11740.3	10646.1	7608.0	4569.3	2832.1	1094.9	766.6	437.7	393.9	350.1	346.9
62.5°	11634.8	10416.3	7397.6	4378.8	2668.6	958.4	673.9	389.4	356.6	323.1	316.0
65°	11325.8	9694.1	6808.0	3921.8	2392.5	863.1	615.3	367.5	330.8	294.2	286.4
67.5°	10716.9	8666.2	5972.5	3278.8	2041.7	804.6	581.9	359.2	314.7	269.7	260.7
70°	9624.0	7429.1	5010.2	2590.7	1679.9	768.5	560.0	351.4	297.4	242.7	234.3
72.5°	7904.8	5956.4	4001.0	2044.9	1404.5	764.0	557.4	350.8	283.2	215.6	207.9
75°	5659.7	4524.3	3054.2	1583.4	1150.2	717.0	529.1	341.1	263.9	186.0	178.9
77.5°	3808.5	3131.4	2122.8	1113.5	853.5	593.5	444.8	296.1	225.9	155.8	148.7
80°	2445.9	2167.2	1422.5	677.8	553.5	429.3	318.0	206.6	164.8	122.3	116.5
82.5°	1794.5	1613.0	988.7	364.3	307.7	250.4	194.4	138.4	112.6	86.9	84.3
85°	1140.6	1257.7	728.0	198.2	162.2	126.2	104.3	82.4	65.0	47.6	47.6
87.5°	221.4	306.4	201.5	95.9	70.2	44.4	38.0	30.9	17.4	3.2	3.9
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



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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°	4904.7	4904.7	4904.7	4904.7	4904.7	4904.7	4904.7	4904.7	4904.7	4904.7	4904.7
2.5°	4624.0	4579.6	4535.2	4485.0	4434.2	4387.2	4339.5	4287.4	4297.1	4257.2	4217.2
5°	3849.1	3778.3	3706.8	3645.0	3583.2	3529.8	3475.8	3427.5	3469.3	3441.0	3412.7
7.5°	2975.0	2887.4	2799.3	2725.2	2651.2	2593.9	2536.0	2496.1	2537.3	2532.1	2527.0
10°	2488.4	2403.4	2317.8	2236.1	2154.3	2084.8	2014.6	1955.4	1945.1	1915.5	1885.3
12.5°	2277.3	2160.8	2043.6	1958.0	1872.4	1789.4	1706.3	1636.8	1605.3	1556.4	1506.8
15°	2021.7	1884.0	1746.2	1649.1	1551.2	1470.8	1389.7	1329.8	1309.8	1271.9	1233.9
17.5°	1685.1	1534.5	1383.9	1285.4	1186.3	1121.9	1056.9	1017.0	1017.0	1006.0	995.1
20°	1289.2	1154.7	1020.2	944.9	869.6	835.5	800.7	784.0	789.1	789.8	789.8
22.5°	945.5	863.1	780.8	750.5	719.6	707.4	695.2	688.1	690.6	691.3	691.9
25°	744.7	713.2	681.0	665.5	649.5	641.7	634.0	631.4	637.2	637.9	637.9
27.5°	654.0	634.6	614.7	605.0	594.7	591.5	588.3	583.8	589.6	589.6	588.9
30°	608.3	587.7	567.1	554.8	542.6	543.9	544.5	543.2	547.1	549.7	551.6
32.5°	570.9	551.0	531.0	518.8	505.9	504.0	502.1	500.8	509.1	513.6	518.1
35°	537.5	515.6	493.7	482.1	470.5	466.0	461.5	458.3	466.0	471.8	477.6
37.5°	514.9	492.4	469.2	458.3	446.7	440.9	435.1	431.3	434.5	437.0	439.6
40°	496.9	473.7	449.9	437.0	424.2	418.4	412.6	409.4	411.3	411.9	412.6
42.5°	480.2	457.6	435.1	421.0	406.1	399.1	392.0	388.1	389.4	390.7	391.3
45°	467.9	445.4	422.2	405.5	388.1	380.4	372.7	368.2	368.8	368.8	368.8
47.5°	479.5	446.7	413.2	393.9	374.0	365.0	355.9	351.4	350.1	348.9	347.6
50°	522.0	466.0	409.4	384.9	359.8	350.1	339.9	334.7	331.5	330.2	328.9
52.5°	509.8	461.5	412.6	381.0	348.9	337.3	325.7	317.3	314.1	312.2	310.2
55°	466.7	436.4	405.5	367.5	329.6	319.3	308.3	302.5	296.7	295.4	294.2
57.5°	410.0	397.8	385.6	346.9	308.3	298.7	288.4	284.5	279.3	279.3	278.7
60°	343.1	361.1	379.1	334.7	289.6	278.7	267.8	264.5	262.6	262.0	261.3
62.5°	308.3	337.9	366.9	319.9	272.3	260.7	249.1	245.2	244.6	245.2	245.2
65°	278.7	287.7	296.7	274.8	253.0	241.4	229.1	225.3	226.6	228.5	230.4
67.5°	251.7	249.7	247.8	240.1	231.7	222.1	211.8	207.9	208.5	211.1	213.7
70°	225.9	223.3	220.1	214.3	208.5	200.2	191.8	189.2	188.6	191.8	194.4
72.5°	200.2	197.0	193.1	188.6	183.4	176.4	169.3	167.4	168.0	169.9	171.9
75°	171.9	169.3	166.1	162.2	157.7	151.3	144.8	143.5	144.8	146.8	148.7
77.5°	141.0	140.3	139.0	135.8	132.6	125.5	117.8	117.1	119.1	121.0	122.3
80°	110.1	110.7	111.4	108.8	106.2	98.5	90.1	89.5	91.4	93.3	95.3
82.5°	81.1	83.0	84.3	81.1	77.9	68.9	59.9	58.6	65.0	66.9	68.9
85°	47.0	49.6	52.1	49.6	47.0	38.0	29.0	28.3	34.1	37.3	40.6
87.5°	3.9	5.1	6.4	5.8	5.1	2.6	0.0	0.0	0.6	3.2	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



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

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P320798

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

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4904.7	4904.7	4904.7	4904.7	4904.7	4904.7	4904.7	4904.7	4904.7	4904.7	4904.7
2.5°	4192.1	4167.0	4159.3	4151.6	4123.3	4094.3	4123.9	4152.9	4165.1	4177.3	4145.8
5°	3408.8	3404.3	3404.3	3403.7	3377.9	3351.5	3371.5	3390.8	3347.7	3304.5	3300.0
7.5°	2554.7	2582.4	2604.9	2626.8	2618.4	2610.0	2628.7	2647.4	2592.7	2537.3	2510.3
10°	1891.7	1897.5	1922.0	1946.4	1952.2	1957.4	1980.5	2003.1	1960.6	1918.1	1899.4
12.5°	1475.9	1445.0	1448.2	1450.8	1462.4	1473.3	1497.8	1521.6	1504.2	1486.2	1488.1
15°	1195.3	1156.0	1139.9	1123.2	1136.1	1148.9	1166.3	1183.0	1183.7	1183.7	1200.4
17.5°	975.8	955.8	939.7	923.0	940.4	957.1	959.1	961.0	961.6	962.3	961.0
20°	799.4	809.1	803.9	798.8	805.2	811.0	816.2	820.7	814.9	808.4	792.3
22.5°	700.9	709.3	715.7	721.5	732.5	742.8	737.6	731.8	720.3	708.0	695.8
25°	643.7	649.5	655.9	662.3	671.3	679.7	670.7	661.7	653.3	644.9	636.6
27.5°	595.4	601.2	607.0	612.1	620.5	628.2	619.8	611.5	604.4	597.3	590.9
30°	556.1	560.0	564.5	569.0	576.7	583.8	576.7	569.0	563.8	558.1	553.5
32.5°	522.7	526.5	528.4	530.4	537.5	544.5	539.4	534.2	529.7	525.2	522.0
35°	486.0	493.7	495.0	496.3	503.3	510.4	507.2	503.3	498.2	493.0	487.2
37.5°	448.6	457.6	462.8	467.3	474.4	481.5	478.2	475.0	467.9	460.9	450.6
40°	417.1	421.0	430.6	439.6	451.2	462.1	455.7	448.6	437.7	426.7	421.6
42.5°	390.7	390.1	399.1	408.1	425.5	442.2	430.6	419.0	408.7	398.4	397.1
45°	367.5	365.6	370.1	374.6	393.3	411.3	399.7	387.5	381.7	375.9	375.9
47.5°	346.9	345.6	348.9	351.4	363.0	374.0	368.2	362.4	359.2	355.9	356.6
50°	328.3	327.0	330.2	332.8	337.3	341.1	342.4	343.1	341.1	339.2	340.5
52.5°	310.9	310.9	312.2	312.8	318.6	324.4	324.4	323.8	323.8	323.8	325.0
55°	296.1	297.4	297.4	297.4	306.4	314.7	312.2	309.6	310.2	310.2	311.5
57.5°	281.3	283.2	284.5	285.8	294.8	303.8	301.2	298.7	298.7	298.7	299.3
60°	264.5	267.1	269.7	272.3	281.3	290.3	287.7	284.5	285.1	285.8	286.4
62.5°	248.5	251.0	253.6	256.2	265.2	274.2	271.6	268.4	270.3	271.6	271.6
65°	233.0	234.9	237.5	240.1	248.5	256.8	254.2	251.7	254.2	256.2	257.5
67.5°	215.6	216.9	219.5	222.1	230.4	238.8	236.2	233.0	236.2	238.8	241.4
70°	195.7	197.0	200.2	202.8	211.1	219.5	216.3	213.1	216.3	219.5	222.1
72.5°	173.8	175.1	178.3	180.9	190.5	200.2	196.3	192.5	196.3	200.2	201.5
75°	150.0	151.3	155.1	158.3	168.0	177.6	174.4	170.6	173.8	177.0	177.6
77.5°	124.2	126.2	131.3	136.5	144.2	151.9	150.0	148.0	150.0	151.9	151.9
80°	97.2	99.1	105.6	111.4	115.9	120.4	121.0	121.7	122.3	122.9	122.3
82.5°	72.1	74.7	80.5	86.3	86.3	86.3	91.4	95.9	95.9	95.3	94.6
85°	44.4	47.6	52.8	57.9	54.7	51.5	59.9	67.6	67.6	66.9	65.7
87.5°	9.0	12.2	17.4	21.9	18.7	15.4	23.8	32.2	32.8	32.8	31.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320798
 CATALOG NUMBER: GLEON-SA4B-830-U-SLR

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P320798

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4904.7	4904.7	4904.7	4904.7	4904.7	4904.7	4904.7	4904.7	4904.7	4904.7	4904.7
2.5°	4113.6	4163.8	4213.4	4226.3	4245.6	4253.9	4261.7	4324.7	4387.2	4460.5	4533.9
5°	3294.9	3332.2	3369.5	3375.3	3395.3	3405.6	3415.9	3492.5	3568.4	3670.8	3773.1
7.5°	2483.2	2492.2	2501.3	2500.0	2516.7	2539.2	2561.1	2642.9	2724.0	2834.0	2943.4
10°	1880.8	1901.4	1921.3	1940.0	1976.7	2019.2	2061.0	2144.7	2228.3	2337.1	2445.3
12.5°	1490.1	1513.9	1537.1	1557.7	1600.1	1656.8	1712.8	1813.2	1913.6	2043.6	2173.0
15°	1216.5	1214.6	1212.7	1226.8	1264.1	1325.9	1387.1	1493.3	1599.5	1742.4	1884.6
17.5°	959.7	950.0	940.4	951.3	986.1	1036.9	1087.1	1177.2	1266.7	1405.1	1543.5
20°	776.3	769.8	763.4	773.7	795.6	816.8	838.0	903.1	967.4	1080.1	1192.1
22.5°	682.9	682.3	681.0	686.8	697.1	708.0	718.3	749.9	780.8	853.5	925.6
25°	628.2	627.6	626.9	629.5	637.9	646.2	654.6	675.2	695.8	730.6	765.3
27.5°	584.4	583.2	581.9	582.5	584.4	597.3	609.5	619.2	628.2	652.0	675.2
30°	549.0	548.4	547.8	547.8	545.8	550.3	554.8	569.6	583.8	608.3	632.7
32.5°	518.8	515.6	512.4	505.3	500.8	507.2	513.6	529.1	544.5	567.1	589.6
35°	480.8	472.4	463.4	459.6	460.2	466.7	473.1	488.5	503.3	527.8	551.6
37.5°	439.6	437.0	433.8	433.2	435.1	441.5	448.0	461.5	474.4	498.8	522.7
40°	416.4	415.2	413.9	412.6	413.9	420.3	426.7	439.6	451.8	475.7	498.8
42.5°	395.8	395.2	394.6	394.6	395.2	402.3	409.4	422.2	434.5	455.7	477.0
45°	375.9	376.5	376.5	377.8	379.8	386.8	393.3	407.4	421.6	442.2	462.8
47.5°	357.2	359.2	360.4	363.7	365.6	373.3	380.4	395.8	411.3	437.0	462.1
50°	341.1	343.1	344.4	346.9	352.1	361.1	370.1	388.8	406.8	449.9	492.4
52.5°	326.3	328.3	330.2	332.8	339.2	349.5	359.8	383.0	405.5	455.7	505.9
55°	312.8	314.7	316.0	319.9	326.3	335.3	343.7	372.0	400.4	437.0	473.7
57.5°	299.9	301.9	303.2	305.7	309.0	318.6	327.6	357.9	388.1	413.9	439.0
60°	286.4	287.7	288.4	288.4	290.9	301.9	312.8	351.4	389.4	384.9	379.8
62.5°	271.6	272.9	273.6	271.6	274.8	286.4	298.0	348.2	398.4	367.5	336.6
65°	258.1	257.5	256.8	254.9	258.8	270.3	281.3	306.4	331.5	319.3	307.0
67.5°	243.3	241.4	239.4	236.9	240.7	251.0	260.7	269.0	277.4	278.7	280.0
70°	224.6	222.1	219.5	218.8	220.8	229.1	237.5	243.3	248.5	251.0	253.0
72.5°	202.8	200.8	198.9	197.6	198.2	205.3	211.8	216.9	222.1	224.0	225.3
75°	178.3	178.3	177.6	173.8	173.8	179.6	184.7	189.2	193.7	196.3	198.9
77.5°	151.9	152.5	152.5	147.4	146.8	152.5	157.7	161.6	164.8	167.4	169.3
80°	121.7	120.4	119.1	115.9	114.6	121.7	128.1	131.3	133.9	134.5	134.5
82.5°	93.3	90.8	87.5	80.5	81.1	88.8	95.9	98.5	101.1	101.1	101.1
85°	63.7	58.6	52.8	47.0	47.6	56.0	63.7	66.3	68.9	70.2	70.8
87.5°	30.3	25.1	19.3	14.8	14.8	21.9	28.3	29.6	30.9	33.5	36.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320798
 CATALOG NUMBER: GLEON-SA4B-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P320798

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4904.7	4904.7	4904.7	4904.7	4904.7	4904.7	4904.7	4904.7	4904.7	4904.7	4904.7
2.5°	4589.9	4645.3	4702.6	4759.8	4825.5	4891.2	4967.8	5043.7	5108.7	5173.7	5227.8
5°	3861.3	3949.5	4053.1	4156.7	4288.7	4420.6	4582.2	4743.1	4886.6	5030.2	5196.9
7.5°	3058.7	3173.2	3308.4	3443.6	3614.1	3784.7	3993.9	4203.1	4405.8	4607.9	4864.1
10°	2565.6	2686.0	2819.2	2951.8	3125.6	3298.7	3520.2	3740.9	3968.8	4196.0	4485.7
12.5°	2306.9	2440.1	2557.3	2674.4	2815.4	2955.7	3170.0	3384.4	3652.1	3919.2	4197.9
15°	2030.7	2176.2	2316.5	2456.8	2610.7	2763.9	2972.4	3181.0	3473.8	3766.7	4087.2
17.5°	1696.7	1849.9	2021.1	2191.7	2392.5	2592.7	2859.8	3126.9	3473.8	3820.1	4197.9
20°	1348.5	1504.9	1709.6	1914.2	2164.0	2413.1	2759.4	3105.6	3572.9	4039.6	4521.7
22.5°	1064.0	1201.7	1425.1	1647.8	1936.1	2224.5	2668.6	3112.1	3722.9	4333.1	4983.8
25°	862.5	959.7	1179.2	1398.0	1730.8	2063.6	2613.3	3162.3	3941.1	4719.3	5526.4
27.5°	738.9	802.6	1007.3	1211.4	1575.0	1938.1	2590.7	3242.7	4217.9	5193.0	6116.7
30°	677.1	721.5	894.7	1067.2	1436.6	1806.1	2563.7	3321.3	4484.4	5646.8	6578.2
32.5°	625.6	661.0	809.1	956.5	1316.9	1677.4	2511.6	3345.1	4670.4	5995.7	6968.9
35°	581.9	611.5	740.2	868.9	1222.9	1577.0	2424.0	3271.1	4786.9	6302.7	7375.7
37.5°	546.5	569.6	688.7	807.8	1141.8	1475.9	2324.2	3172.6	4890.5	6608.4	7833.3
40°	518.8	538.7	650.1	761.4	1064.6	1367.8	2238.6	3108.9	5033.4	6957.9	8316.7
42.5°	503.3	529.1	616.6	703.5	991.2	1278.9	2169.8	3060.6	5166.0	7270.8	8739.6
45°	499.5	536.2	599.2	662.3	936.5	1210.7	2108.6	3005.9	5251.6	7497.3	9058.2
47.5°	493.0	523.3	585.7	648.2	909.5	1170.2	2075.8	2980.8	5337.2	7693.0	9322.7
50°	496.9	500.8	574.8	648.2	905.6	1163.1	2113.1	3063.2	5522.6	7981.4	9625.3
52.5°	489.8	473.1	554.2	635.3	905.0	1174.7	2220.6	3266.6	5866.9	8466.7	9952.9
55°	452.5	430.6	515.6	600.5	891.5	1181.8	2348.7	3515.0	6329.1	9142.5	10541.8
57.5°	419.7	399.7	471.8	543.2	850.3	1157.3	2480.7	3803.4	6817.6	9831.2	11205.4
60°	375.9	371.4	422.9	474.4	786.5	1098.1	2589.4	4080.1	7145.9	10211.0	11461.0
62.5°	339.9	342.4	380.4	418.4	706.7	994.5	2625.5	4255.9	7136.9	10017.9	11203.5
65°	312.2	316.7	354.0	391.3	638.5	885.7	2507.0	4127.8	6775.8	9423.1	10694.4
67.5°	285.1	290.3	334.7	378.5	578.0	776.9	2211.0	3644.4	6126.3	8607.6	10046.9
70°	259.4	265.8	314.1	362.4	534.2	705.4	1829.3	2953.1	5313.4	7673.0	9297.0
72.5°	231.7	238.2	289.6	341.1	506.6	671.3	1491.4	2310.7	4311.9	6312.4	7952.4
75°	203.4	207.9	263.9	319.3	468.6	617.9	1170.2	1721.8	3300.0	4878.3	6006.6
77.5°	175.1	180.9	227.9	274.2	397.8	520.7	881.8	1242.9	2421.4	3599.3	4177.3
80°	139.7	144.8	178.3	211.1	307.0	402.3	606.3	810.4	1666.4	2522.5	2848.2
82.5°	106.8	112.6	135.2	157.1	218.8	280.6	367.5	454.4	1107.1	1759.1	1786.2
85°	73.4	75.3	91.4	106.8	135.2	163.5	210.5	257.5	732.5	1207.5	1006.0
87.5°	36.7	36.7	47.6	58.6	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	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: P320798
 CATALOG NUMBER: GLEON-SA4B-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P320798

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

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4904.7	4904.7	4904.7	4904.7	4904.7	4904.7	4904.7	4904.7	4904.7	4904.7	4904.7
2.5°	5296.7	5343.6	5391.3	5427.3	5464.0	5516.8	5569.6	5579.2	5589.5	5568.9	5548.3
5°	5364.9	5507.1	5650.0	5782.0	5913.9	5993.1	6072.3	6088.4	6104.4	6054.9	6004.7
7.5°	5111.9	5359.7	5607.5	5834.8	6062.0	6199.7	6338.1	6369.0	6400.5	6319.4	6238.3
10°	4774.0	5078.5	5382.9	5682.2	5981.5	6181.7	6381.9	6421.8	6461.7	6360.6	6259.6
12.5°	4512.7	4837.7	5162.8	5478.2	5794.2	6001.5	6208.7	6258.3	6307.8	6234.5	6160.4
15°	4432.2	4738.0	5043.7	5318.5	5594.0	5763.3	5933.2	5953.2	5973.8	5962.2	5950.6
17.5°	4578.3	4854.5	5131.2	5280.6	5430.5	5498.1	5566.4	5588.2	5610.8	5639.7	5669.3
20°	4932.3	5126.7	5321.8	5315.3	5308.2	5275.4	5241.9	5236.2	5230.4	5313.4	5397.1
22.5°	5460.8	5538.0	5615.9	5435.0	5254.2	5144.1	5033.4	5011.5	4989.0	5077.2	5166.0
25°	6034.3	6020.1	6005.3	5661.0	5316.0	5106.1	4896.3	4871.8	4847.4	4922.7	4998.6
27.5°	6602.0	6509.3	6416.6	5948.7	5480.7	5176.3	4871.8	4847.4	4822.9	4889.9	4956.8
30°	7018.4	6869.8	6721.1	6191.3	5661.6	5299.9	4938.1	4898.2	4857.7	4940.1	5022.5
32.5°	7343.5	7144.0	6944.4	6388.3	5832.2	5440.8	5049.5	4987.1	4924.6	5034.7	5144.8
35°	7667.9	7387.3	7106.0	6564.0	6021.4	5607.5	5193.0	5116.4	5039.8	5191.1	5342.4
37.5°	8076.0	7673.0	7269.5	6761.6	6253.8	5857.3	5460.1	5381.6	5303.1	5495.5	5688.6
40°	8518.8	7981.4	7443.9	6977.9	6511.9	6202.9	5893.3	5818.7	5743.4	5977.6	6211.9
42.5°	8887.0	8268.4	7649.9	7238.6	6826.6	6609.1	6390.9	6390.2	6388.9	6626.5	6864.0
45°	9186.3	8507.9	7828.8	7492.8	7156.2	7042.9	6929.6	7020.4	7111.1	7325.5	7540.5
47.5°	9409.6	8708.7	8007.1	7783.8	7560.4	7577.1	7593.9	7778.6	7963.3	8101.1	8239.5
50°	9555.1	8890.8	8225.9	8157.1	8088.2	8238.2	8388.8	8600.6	8813.0	8906.9	9000.9
52.5°	9766.9	9138.0	8508.5	8585.8	8663.0	8969.4	9275.8	9490.1	9704.4	9739.2	9774.6
55°	10256.7	9592.4	8927.5	9075.6	9224.3	9673.5	10123.4	10290.8	10458.2	10471.0	10483.9
57.5°	10952.5	10229.0	9505.5	9665.2	9824.8	10343.6	10863.0	11043.2	11224.1	11199.0	11173.3
60°	11473.2	10833.4	10193.0	10353.9	10514.8	11020.7	11526.6	11733.9	11941.8	11886.4	11831.1
62.5°	11505.4	11163.6	10821.2	10966.6	11112.8	11608.4	12104.0	12317.0	12530.1	12433.5	12337.0
65°	10993.7	11146.9	11300.1	11348.3	11396.6	11858.7	12321.5	12484.4	12647.9	12599.0	12550.0
67.5°	10288.9	10853.4	11418.5	11321.3	11224.1	11441.0	11657.9	11825.9	11993.9	11966.2	11937.9
70°	9585.4	10339.1	11092.8	10615.2	10137.0	10047.5	9958.0	10138.9	10320.4	10208.4	10095.8
72.5°	8387.5	9190.8	9994.7	9114.8	8235.0	7929.2	7623.5	7853.3	8083.1	7904.8	7725.8
75°	6584.0	7471.6	8359.8	7310.0	6260.2	5852.1	5444.1	5641.7	5839.3	5717.0	5594.0
77.5°	4901.5	5776.2	6650.9	5583.7	4515.9	4212.7	3908.9	3967.5	4026.7	4006.1	3984.9
80°	3324.5	3934.0	4544.2	3833.6	3123.0	3146.2	3170.0	3142.3	3114.0	3155.2	3196.4
82.5°	2121.5	2592.0	3063.2	2686.0	2308.8	2525.1	2741.3	2635.1	2528.3	2567.6	2607.5
85°	1210.7	1670.9	2131.8	1987.0	1841.5	1967.7	2094.5	1929.7	1764.9	1837.0	1909.7
87.5°	319.3	924.3	1530.0	1389.0	1248.1	1084.6	921.1	702.9	484.7	708.0	931.4
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: P320798
 CATALOG NUMBER: GLEON-SA4B-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P320798

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

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4904.7	4904.7	4904.7	4904.7	4904.7	4904.7	4904.7
2.5°	5537.4	5526.4	5487.2	5447.3	5388.1	5339.1	5254.2
5°	5935.2	5865.7	5745.9	5625.6	5491.7	5337.9	5167.3
7.5°	6076.1	5913.3	5683.5	5453.1	5245.8	5002.5	4775.9
10°	6016.3	5772.3	5473.7	5174.4	4922.7	4642.7	4391.0
12.5°	5901.7	5642.3	5313.4	4983.8	4697.4	4396.8	4114.9
15°	5744.0	5536.7	5228.4	4920.1	4631.8	4339.5	4005.5
17.5°	5571.5	5473.0	5250.3	5027.0	4777.2	4494.0	4102.0
20°	5432.5	5468.5	5379.7	5290.9	5090.7	4843.5	4403.3
22.5°	5338.5	5511.6	5579.9	5648.7	5528.4	5335.3	4826.1
25°	5285.7	5572.8	5801.3	6030.4	5977.0	5828.3	5339.8
27.5°	5308.9	5661.0	6015.6	6370.9	6420.5	6379.3	5881.1
30°	5378.4	5735.0	6166.9	6599.4	6797.0	6852.4	6332.3
32.5°	5494.3	5843.8	6314.3	6785.4	7084.1	7260.5	6744.9
35°	5669.3	5996.3	6486.8	6977.2	7363.4	7685.3	7171.0
37.5°	5969.9	6251.2	6703.7	7156.8	7657.6	8141.0	7640.2
40°	6410.2	6609.1	6991.4	7374.4	8004.5	8657.2	8163.5
42.5°	6965.7	7068.0	7371.2	7674.3	8366.9	9125.8	8675.2
45°	7567.5	7594.5	7785.0	7976.2	8654.0	9445.0	9059.5
47.5°	8146.8	8054.1	8130.0	8206.0	8874.1	9672.9	9351.1
50°	8742.8	8484.7	8444.8	8404.9	9094.2	9941.3	9721.8
52.5°	9349.1	8923.7	8766.0	8607.6	9356.9	10297.2	10183.3
55°	9942.6	9401.3	9188.9	8976.5	9758.5	10731.7	10861.1
57.5°	10559.8	9946.4	9749.5	9552.5	10348.7	11282.0	11469.3
60°	11224.1	10616.5	10458.8	10300.5	11082.5	11876.8	11740.3
62.5°	11854.2	11371.5	11288.5	11204.8	11824.6	12333.8	11634.8
65°	12275.2	11999.7	12076.9	12154.8	12385.9	12447.7	11325.8
67.5°	11993.9	12049.9	12376.3	12703.2	12544.2	12109.1	10716.9
70°	10431.1	10767.1	11540.1	12313.8	11961.1	11202.2	9624.0
72.5°	8103.0	8480.8	9628.5	10776.8	10451.7	9522.3	7904.8
75°	6020.1	6446.9	7713.6	8980.3	8529.1	7122.7	5659.7
77.5°	4270.7	4556.5	5807.1	7058.4	6322.6	4741.2	3808.5
80°	3108.9	3021.3	3718.4	4415.5	4293.2	3135.9	2445.9
82.5°	2393.8	2180.1	2508.3	2836.6	2818.6	2176.2	1794.5
85°	1824.1	1738.5	2028.8	2319.1	2070.6	1474.0	1140.6
87.5°	1063.3	1195.9	1537.7	1880.1	1410.9	447.3	221.4
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: P320798
 CATALOG NUMBER: GLEON-SA4B-830-U-SLR

CANDELA DISTRIBUTION (continued):

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

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

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

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

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

Test Information

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

Spectral Parameters

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

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



Test Conditions

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

REPORT NUMBER: SP1-2408-195-9

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

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CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

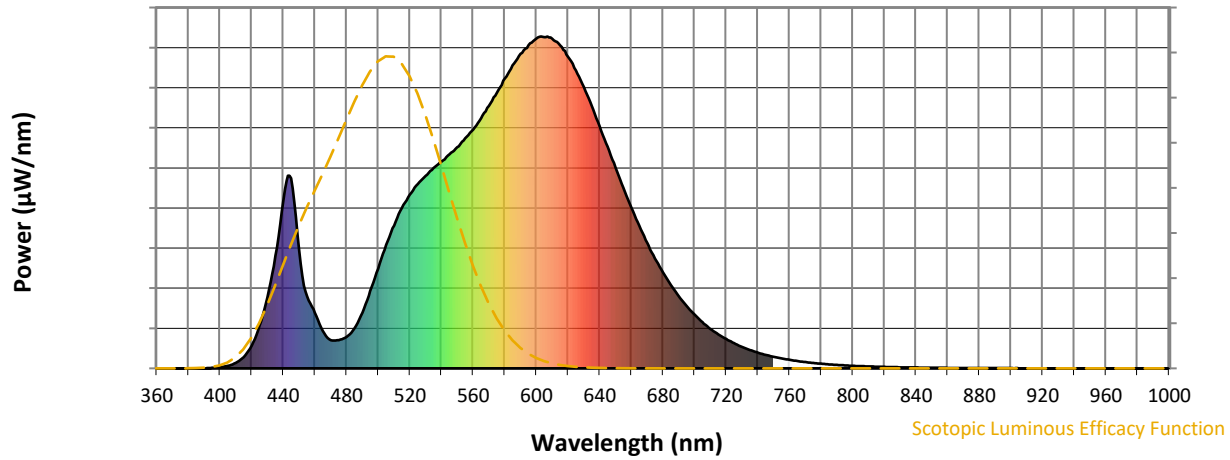


Photopic Lumens: NR

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

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength


Scotopic Lumens: NR
S/P: 1.27

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

REPORT NUMBER: SP1-2408-195-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.32

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

REPORT NUMBER: SP1-2408-195-9

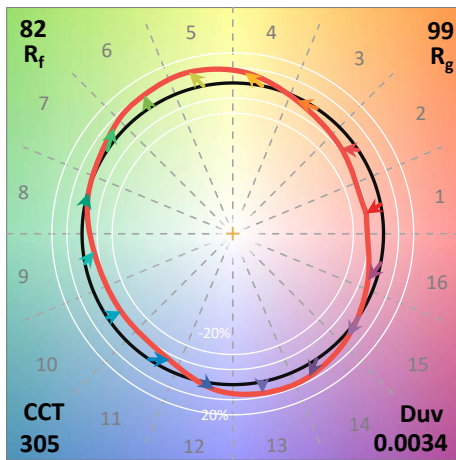
TM-30-18

Summary

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

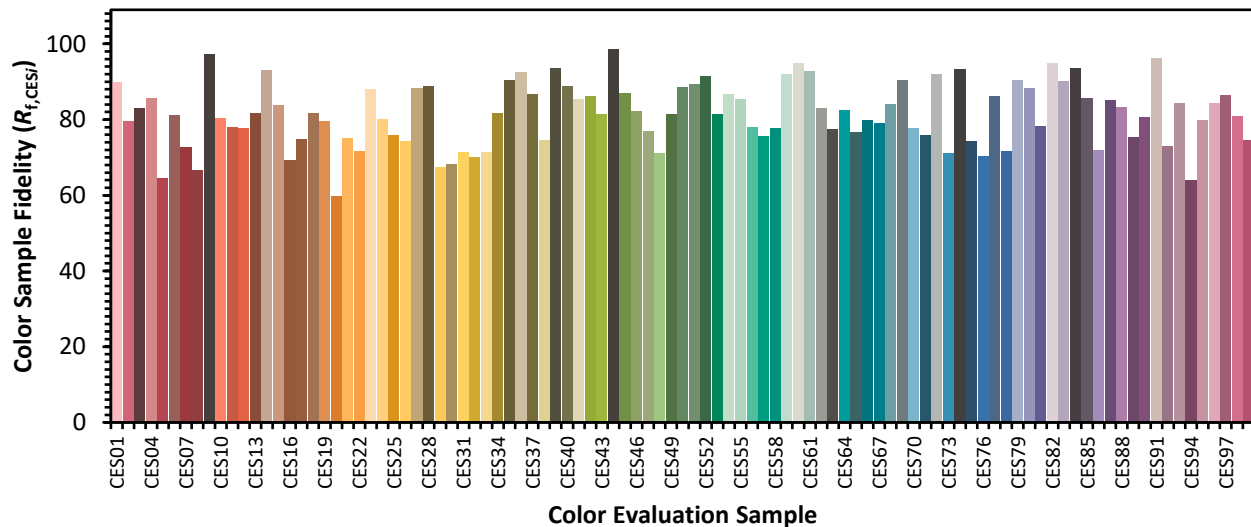


Color Vector Graphics



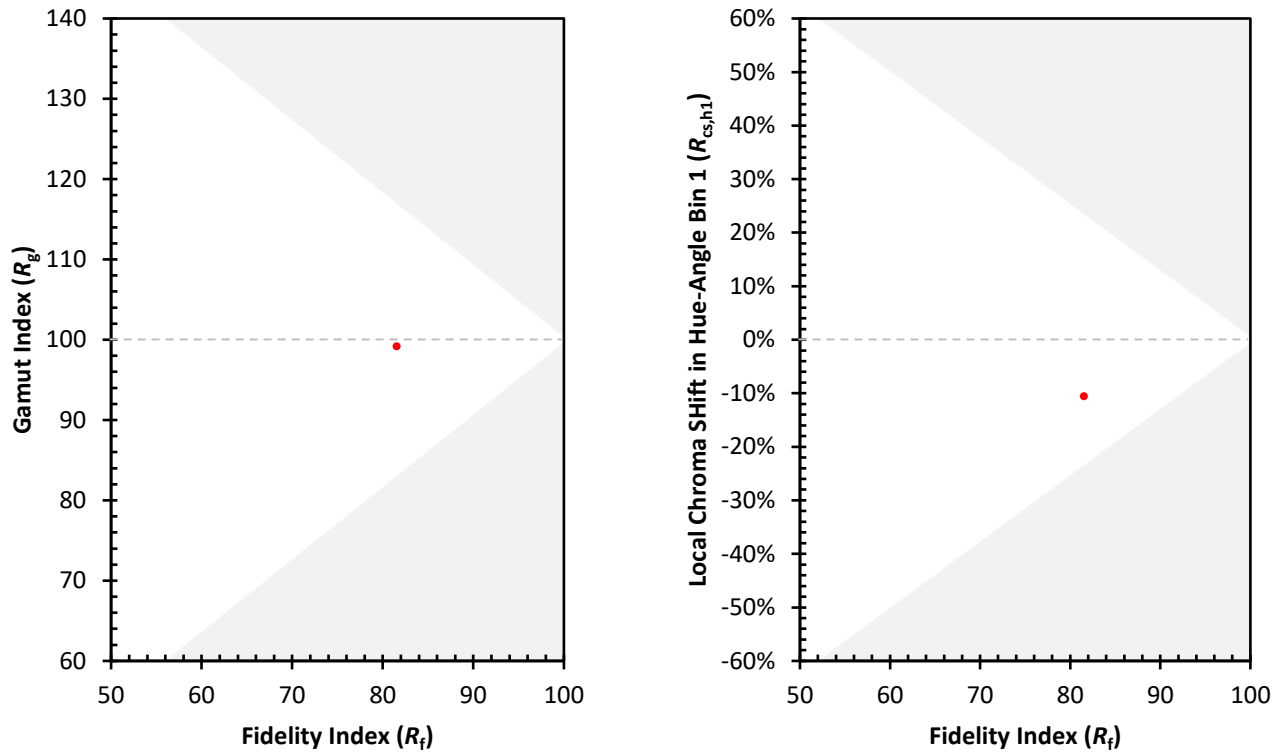
Individual Sample Fidelity Index ($R_{f,i}$)

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)