

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: P320818

Luminaire Tested: **GLEON-SA4D-830-U-SLR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320818
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-SA4D-830-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA 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: 21857 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

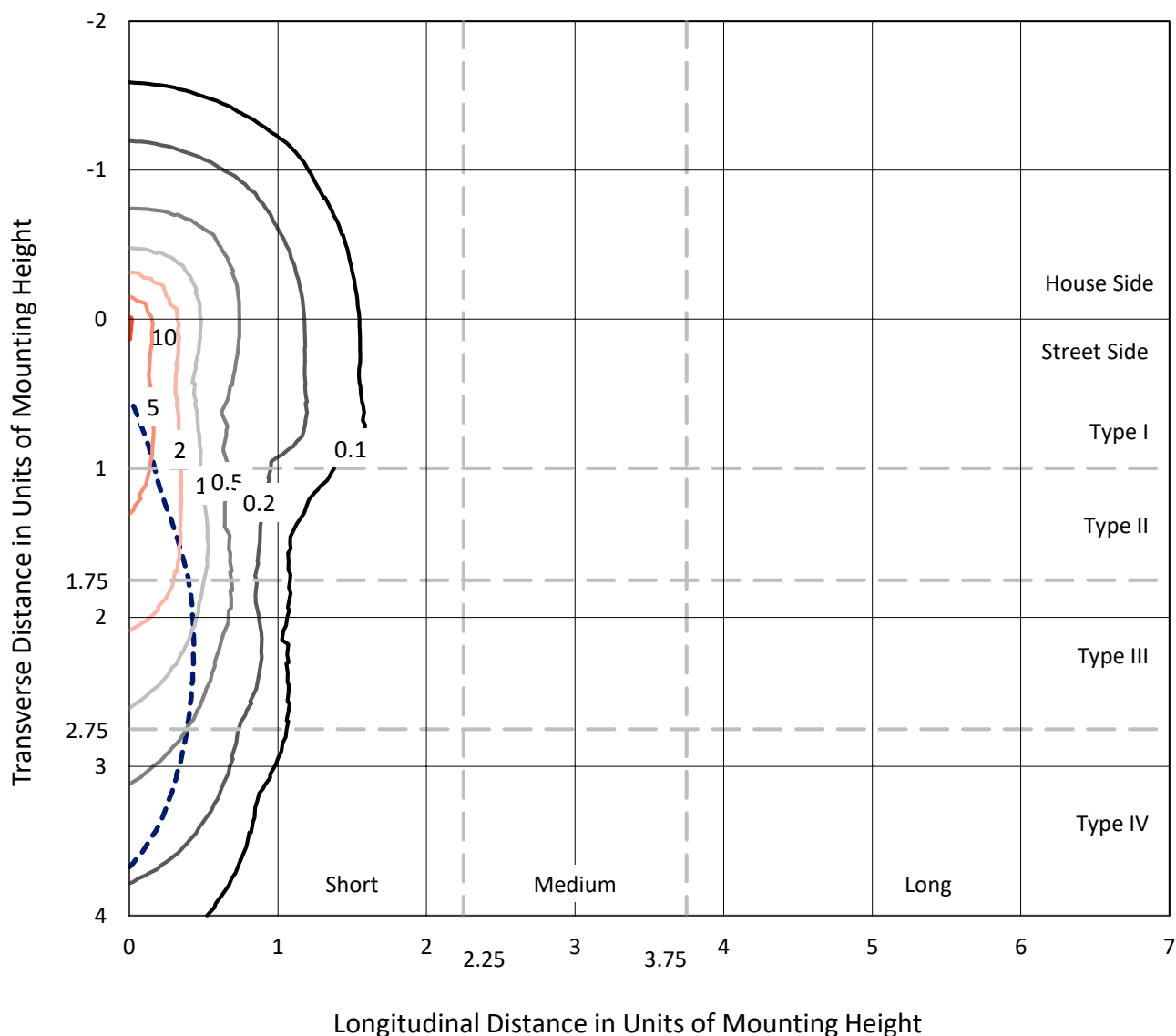
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

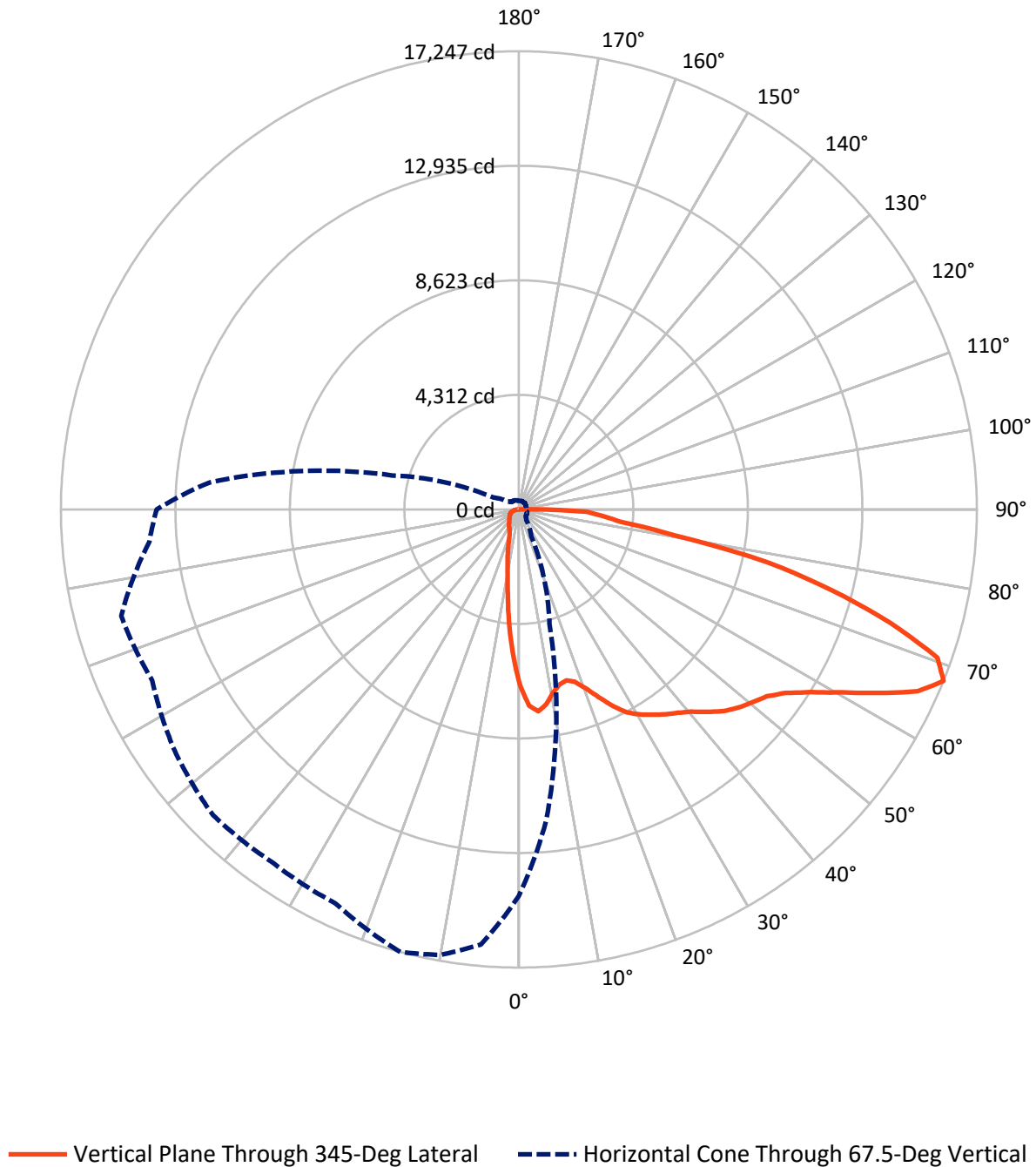
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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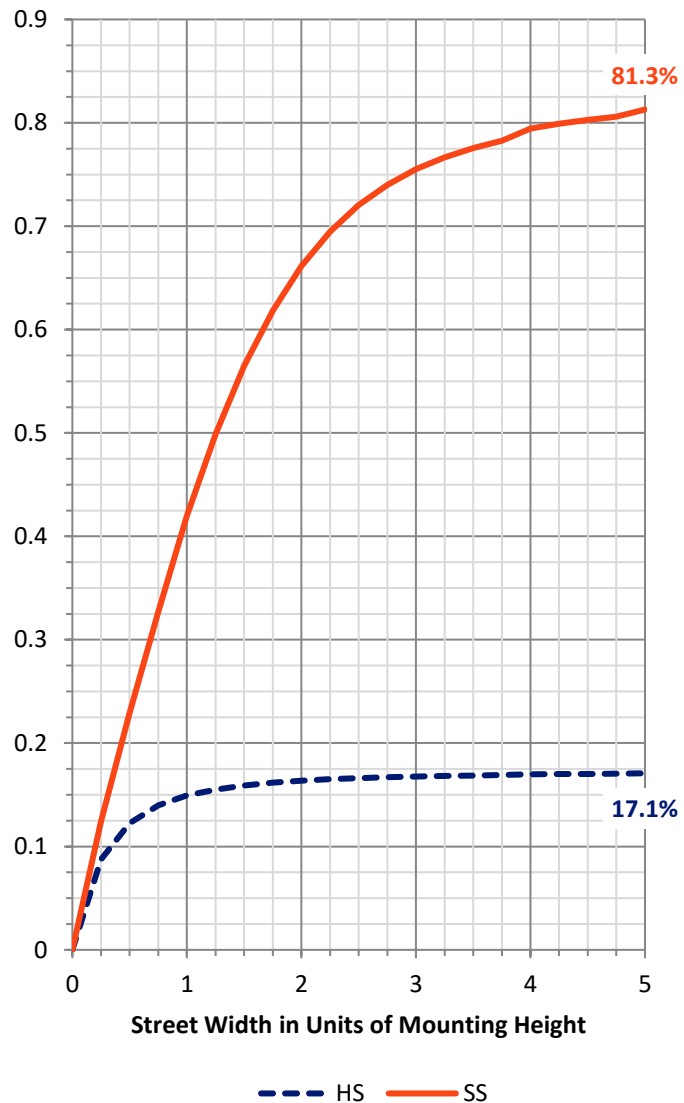
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3778.6	0.0	3778.6
	% Fixture	17.3	0.0	17.3
Street Side	Lumens	18078.4	0.0	18078.4
	% Fixture	82.7	0.0	82.7
Total	Lumens	21857.0	0.0	21857.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.9	2.4
10°-20°	1067.6	4.9
20°-30°	1518.4	6.9
30°-40°	2188.0	10.0
40°-50°	3083.5	14.1
50°-60°	4286.5	19.6
60°-70°	5183.7	23.7
70°-80°	3186.3	14.6
80°-90°	829.1	3.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	21857.0	100.0
0°-180°	21857.0	100.0

Coefficient of Utilization



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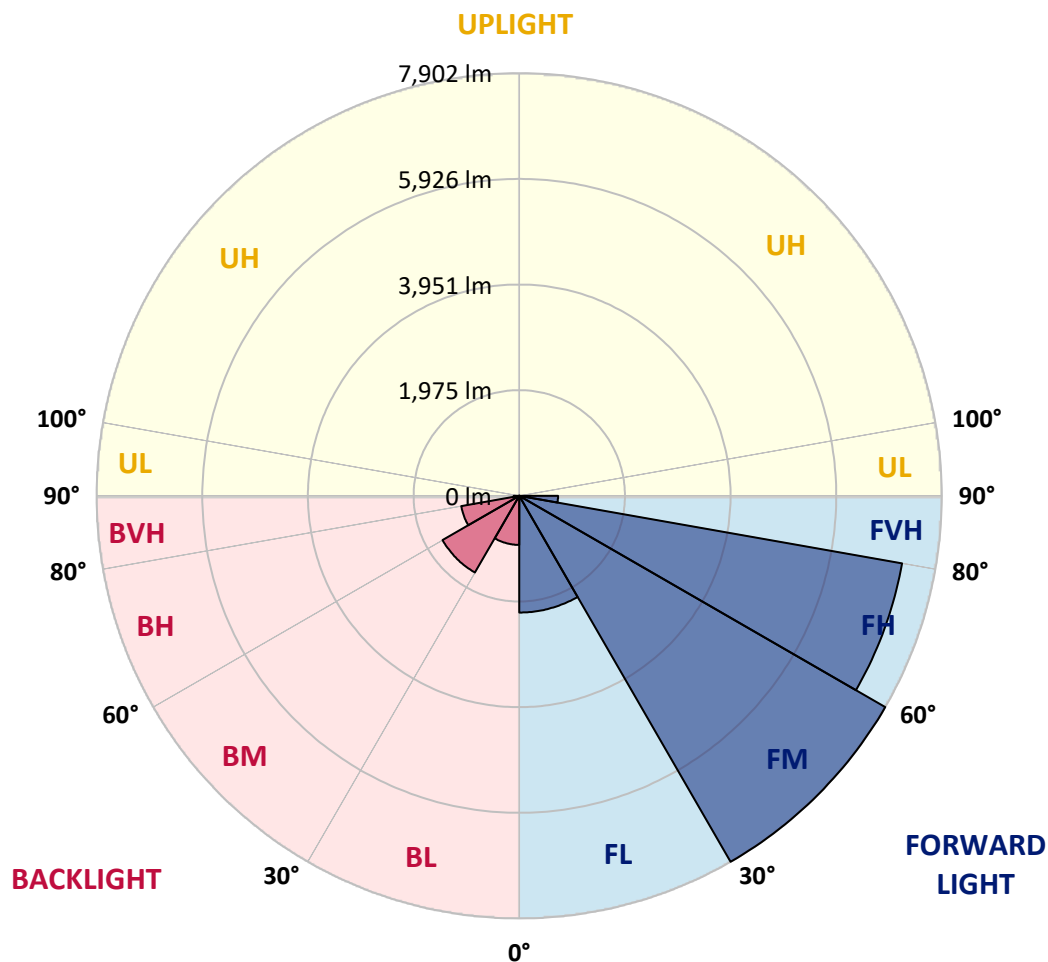
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2182.5	10.0			
FM	(30°-60°)	7901.9	36.2			
FH	(60°-80°)	7268.9	33.3			G3/7500
FVH	(80°-90°)	725.2	3.3			G4/750
BL	(0°-30°)	917.4	4.2	B2/1000		
BM	(30°-60°)	1656.1	7.6	B2/2500		
BH	(60°-80°)	1101.1	5.0	B3/2500		G3/2500
BVH	(80°-90°)	103.9	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	6658.9	6658.9	6658.9	6658.9	6658.9	6658.9	6658.9	6658.9	6658.9	6658.9	6658.9
2.5°	7133.4	7070.5	6975.2	6880.0	6809.2	6737.5	6656.3	6575.0	6482.4	6388.9	6333.8
5°	7015.4	6840.7	6613.4	6386.2	6235.9	6085.6	5915.2	5744.8	5576.2	5407.5	5316.6
7.5°	6484.1	6222.0	5926.6	5631.2	5412.7	5193.4	4957.5	4720.6	4510.9	4300.3	4170.1
10°	5961.5	5646.9	5307.9	4967.9	4688.3	4408.7	4171.9	3934.2	3776.0	3617.8	3498.1
12.5°	5586.6	5238.0	4864.8	4490.8	4211.2	3931.5	3781.2	3630.9	3499.8	3368.8	3230.7
15°	5438.1	5044.0	4662.1	4279.3	4025.0	3770.7	3603.8	3436.1	3260.4	3083.9	2914.4
17.5°	5569.2	5107.8	4692.7	4277.6	3944.6	3611.7	3378.4	3144.2	2912.6	2681.0	2484.4
20°	5978.1	5389.2	4846.5	4302.9	3859.9	3416.8	3104.0	2790.3	2493.2	2196.0	1973.2
22.5°	6552.3	5772.8	5064.1	4355.4	3783.0	3209.7	2817.4	2424.1	2072.8	1721.5	1503.1
25°	7249.6	6281.4	5377.8	4473.3	3751.5	3028.8	2546.5	2064.1	1693.6	1322.2	1166.6
27.5°	7984.5	6887.8	5767.5	4646.4	3756.8	2867.2	2318.4	1768.7	1434.9	1101.1	994.5
30°	8597.1	7580.8	6222.0	4862.2	3776.9	2691.5	2103.4	1515.3	1240.0	964.8	895.7
32.5°	9157.3	8064.1	6564.5	5064.1	3799.6	2534.2	1937.4	1339.6	1115.1	889.6	832.8
35°	9735.8	8493.1	6803.9	5113.9	3760.3	2405.8	1823.8	1241.8	1034.7	826.7	778.6
37.5°	10372.8	8957.2	7034.7	5111.3	3693.8	2276.4	1735.5	1193.7	982.2	769.9	734.9
40°	11083.3	9470.1	7284.6	5099.0	3633.5	2167.2	1670.0	1171.9	953.4	734.1	704.3
42.5°	11778.0	9959.5	7517.0	5074.6	3584.6	2093.8	1605.3	1116.8	927.2	736.7	694.7
45°	12299.7	10386.8	7718.9	5050.1	3547.9	2045.7	1554.6	1063.5	902.7	741.9	688.6
47.5°	12695.6	10815.9	7942.6	5068.4	3544.4	2020.4	1518.8	1017.2	856.4	694.7	672.9
50°	13198.9	11331.5	8268.6	5205.6	3592.5	1979.3	1476.8	973.5	811.8	650.2	679.9
52.5°	13825.5	12067.3	8773.7	5479.2	3693.0	1906.8	1410.4	914.1	757.6	600.3	646.7
55°	14745.7	13010.2	9419.4	5827.8	3814.4	1800.2	1309.9	818.8	686.0	552.3	593.4
57.5°	15571.5	13962.7	10039.0	6114.5	3890.5	1665.6	1183.2	700.8	605.6	510.3	533.9
60°	15939.4	14453.8	10329.1	6203.6	3845.0	1486.5	1040.8	594.2	534.8	475.4	471.0
62.5°	15796.1	14141.8	10043.4	5944.9	3623.1	1301.2	914.9	528.7	484.1	438.7	429.1
65°	15376.6	13161.4	9242.9	5324.5	3248.2	1171.9	835.4	499.0	449.2	399.4	388.9
67.5°	14549.9	11765.8	8108.6	4451.5	2771.9	1092.3	790.0	487.6	427.3	366.2	353.9
70°	13066.1	10086.2	6802.2	3517.3	2280.8	1043.4	760.3	477.1	403.7	329.4	318.1
72.5°	10732.0	8086.8	5432.0	2776.3	1906.8	1037.3	756.8	476.3	384.5	292.7	282.3
75°	7683.9	6142.4	4146.5	2149.7	1561.6	973.5	718.3	463.2	358.3	252.5	242.9
77.5°	5170.7	4251.4	2882.0	1511.8	1158.8	805.7	603.8	402.0	306.7	211.5	201.9
80°	3320.7	2942.3	1931.3	920.2	751.5	582.9	431.7	280.5	223.7	166.0	158.2
82.5°	2436.3	2189.9	1342.3	494.6	417.7	339.9	263.9	187.9	152.9	118.0	114.5
85°	1548.5	1707.5	988.3	269.2	220.2	171.3	141.6	111.9	88.3	64.7	64.7
87.5°	300.6	416.0	273.5	130.2	95.3	60.3	51.6	41.9	23.6	4.4	5.2
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



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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°	6658.9	6658.9	6658.9	6658.9	6658.9	6658.9	6658.9	6658.9	6658.9	6658.9	6658.9
2.5°	6277.9	6217.6	6157.3	6089.1	6020.1	5956.3	5891.6	5820.8	5834.0	5779.8	5725.6
5°	5225.7	5129.6	5032.6	4948.7	4864.8	4792.3	4718.9	4653.4	4710.2	4671.7	4633.3
7.5°	4039.0	3920.2	3800.5	3700.0	3599.5	3521.7	3443.0	3388.9	3444.8	3437.8	3430.8
10°	3378.4	3263.0	3146.8	3035.8	2924.8	2830.5	2735.2	2654.8	2640.8	2600.6	2559.6
12.5°	3091.8	2933.6	2774.5	2658.3	2542.1	2429.4	2316.6	2222.3	2179.4	2113.0	2045.7
15°	2744.8	2557.8	2370.8	2238.9	2106.0	1996.8	1886.7	1805.4	1778.3	1726.8	1675.2
17.5°	2287.8	2083.3	1878.8	1745.1	1610.5	1523.2	1434.9	1380.7	1380.7	1365.9	1351.0
20°	1750.4	1567.7	1385.1	1282.8	1180.6	1134.3	1087.1	1064.4	1071.4	1072.2	1072.2
22.5°	1283.7	1171.9	1060.0	1018.9	977.0	960.4	943.8	934.2	937.7	938.5	939.4
25°	1011.1	968.2	924.6	903.6	881.7	871.2	860.8	857.3	865.1	866.0	866.0
27.5°	887.9	861.6	834.5	821.4	807.5	803.1	798.7	792.6	800.5	800.5	799.6
30°	825.8	797.8	769.9	753.3	736.7	738.4	739.3	737.5	742.8	746.3	748.9
32.5°	775.1	748.0	720.9	704.3	686.9	684.2	681.6	679.9	691.2	697.3	703.5
35°	729.7	700.0	670.3	654.5	638.8	632.7	626.6	622.2	632.7	640.5	648.4
37.5°	699.1	668.5	637.1	622.2	606.5	598.6	590.7	585.5	589.9	593.4	596.9
40°	674.6	643.2	610.8	593.4	575.9	568.0	560.2	555.8	558.4	559.3	560.2
42.5°	651.9	621.3	590.7	571.5	551.4	541.8	532.2	526.9	528.7	530.4	531.3
45°	635.3	604.7	573.3	550.5	526.9	516.5	506.0	499.9	500.7	500.7	500.7
47.5°	651.0	606.5	561.0	534.8	507.7	495.5	483.2	477.1	475.4	473.6	471.9
50°	708.7	632.7	555.8	522.6	488.5	475.4	461.4	454.4	450.0	448.3	446.5
52.5°	692.1	626.6	560.2	517.3	473.6	457.9	442.2	430.8	426.4	423.8	421.2
55°	633.6	592.5	550.5	499.0	447.4	433.4	418.6	410.7	402.9	401.1	399.4
57.5°	556.7	540.1	523.4	471.0	418.6	405.5	391.5	386.3	379.3	379.3	378.4
60°	465.8	490.2	514.7	454.4	393.2	378.4	363.5	359.2	356.5	355.7	354.8
62.5°	418.6	458.8	498.1	434.3	369.6	353.9	338.2	332.9	332.1	332.9	332.9
65°	378.4	390.6	402.9	373.1	343.4	327.7	311.1	305.9	307.6	310.2	312.8
67.5°	341.7	339.1	336.4	326.0	314.6	301.5	287.5	282.3	283.1	286.6	290.1
70°	306.7	303.2	298.9	291.0	283.1	271.8	260.4	256.9	256.0	260.4	263.9
72.5°	271.8	267.4	262.2	256.0	249.1	239.4	229.8	227.2	228.1	230.7	233.3
75°	233.3	229.8	225.5	220.2	214.1	205.4	196.6	194.9	196.6	199.2	201.9
77.5°	191.4	190.5	188.8	184.4	180.0	170.4	159.9	159.0	161.7	164.3	166.0
80°	149.4	150.3	151.2	147.7	144.2	133.7	122.3	121.5	124.1	126.7	129.3
82.5°	110.1	112.7	114.5	110.1	105.7	93.5	81.3	79.5	88.3	90.9	93.5
85°	63.8	67.3	70.8	67.3	63.8	51.6	39.3	38.5	46.3	50.7	55.1
87.5°	5.2	7.0	8.7	7.9	7.0	3.5	0.0	0.0	0.9	4.4	7.9
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: P320818
 CATALOG NUMBER: GLEON-SA4D-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: P320818

CATALOG NUMBER: GLEON-SA4D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6658.9	6658.9	6658.9	6658.9	6658.9	6658.9	6658.9	6658.9	6658.9	6658.9	6658.9
2.5°	5691.5	5657.4	5646.9	5636.5	5598.0	5558.7	5598.9	5638.2	5654.8	5671.4	5628.6
5°	4628.0	4621.9	4621.9	4621.0	4586.1	4550.2	4577.3	4603.5	4545.0	4486.4	4480.3
7.5°	3468.4	3506.0	3536.6	3566.3	3554.9	3543.5	3568.9	3594.2	3519.9	3444.8	3408.1
10°	2568.3	2576.2	2609.4	2642.6	2650.4	2657.4	2688.9	2719.5	2661.8	2604.1	2578.8
12.5°	2003.8	1961.8	1966.2	1969.7	1985.4	2000.3	2033.5	2065.8	2042.2	2017.8	2020.4
15°	1622.8	1569.5	1547.6	1524.9	1542.4	1559.9	1583.5	1606.2	1607.0	1607.0	1629.8
17.5°	1324.8	1297.7	1275.8	1253.1	1276.7	1299.4	1302.1	1304.7	1305.6	1306.4	1304.7
20°	1085.3	1098.5	1091.5	1084.5	1093.2	1101.1	1108.1	1114.2	1106.3	1097.6	1075.7
22.5°	951.6	963.0	971.7	979.6	994.5	1008.4	1001.5	993.6	977.9	961.3	944.7
25°	873.9	881.7	890.5	899.2	911.4	922.8	910.6	898.3	887.0	875.6	864.3
27.5°	808.3	816.2	824.1	831.1	842.4	852.9	841.5	830.2	820.6	811.0	802.2
30°	755.0	760.3	766.4	772.5	783.0	792.6	783.0	772.5	765.5	757.6	751.5
32.5°	709.6	714.8	717.4	720.1	729.7	739.3	732.3	725.3	719.2	713.1	708.7
35°	659.8	670.3	672.0	673.8	683.4	693.0	688.6	683.4	676.4	669.4	661.5
37.5°	609.1	621.3	628.3	634.4	644.0	653.7	649.3	644.9	635.3	625.7	611.7
40°	566.3	571.5	584.6	596.9	612.6	627.4	618.7	609.1	594.2	579.4	572.4
42.5°	530.4	529.6	541.8	554.0	577.6	600.3	584.6	568.9	554.9	540.9	539.2
45°	499.0	496.4	502.5	508.6	533.9	558.4	542.7	526.1	518.2	510.3	510.3
47.5°	471.0	469.3	473.6	477.1	492.9	507.7	499.9	492.0	487.6	483.2	484.1
50°	445.7	443.9	448.3	451.8	457.9	463.2	464.9	465.8	463.2	460.5	462.3
52.5°	422.1	422.1	423.8	424.7	432.6	440.4	440.4	439.6	439.6	439.6	441.3
55°	402.0	403.7	403.7	403.7	416.0	427.3	423.8	420.3	421.2	421.2	423.0
57.5°	381.9	384.5	386.3	388.0	400.2	412.5	409.0	405.5	405.5	405.5	406.3
60°	359.2	362.7	366.2	369.6	381.9	394.1	390.6	386.3	387.1	388.0	388.9
62.5°	337.3	340.8	344.3	347.8	360.0	372.3	368.8	364.4	367.0	368.8	368.8
65°	316.3	319.0	322.5	326.0	337.3	348.7	345.2	341.7	345.2	347.8	349.5
67.5°	292.7	294.5	298.0	301.5	312.8	324.2	320.7	316.3	320.7	324.2	327.7
70°	265.7	267.4	271.8	275.3	286.6	298.0	293.6	289.3	293.6	298.0	301.5
72.5°	235.9	237.7	242.1	245.6	258.7	271.8	266.5	261.3	266.5	271.8	273.5
75°	203.6	205.4	210.6	215.0	228.1	241.2	236.8	231.6	235.9	240.3	241.2
77.5°	168.7	171.3	178.3	185.3	195.7	206.2	203.6	201.0	203.6	206.2	206.2
80°	132.0	134.6	143.3	151.2	157.3	163.4	164.3	165.2	166.0	166.9	166.0
82.5°	97.9	101.4	109.2	117.1	117.1	117.1	124.1	130.2	130.2	129.3	128.5
85°	60.3	64.7	71.7	78.6	74.3	69.9	81.3	91.8	91.8	90.9	89.1
87.5°	12.2	16.6	23.6	29.7	25.3	21.0	32.3	43.7	44.6	44.6	42.8
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: P320818
 CATALOG NUMBER: GLEON-SA4D-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: P320818

CATALOG NUMBER: GLEON-SA4D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	6658.9	6658.9	6658.9	6658.9	6658.9	6658.9	6658.9	6658.9	6658.9	6658.9	6658.9
2.5°	5584.9	5653.1	5720.4	5737.8	5764.0	5775.4	5785.9	5871.5	5956.3	6055.9	6155.5
5°	4473.3	4524.0	4574.7	4582.6	4609.7	4623.6	4637.6	4741.6	4844.7	4983.7	5122.6
7.5°	3371.4	3383.6	3395.9	3394.1	3416.8	3447.4	3477.1	3588.1	3698.2	3847.6	3996.2
10°	2553.4	2581.4	2608.5	2633.8	2683.7	2741.3	2798.1	2911.7	3025.3	3173.0	3319.8
12.5°	2023.0	2055.3	2086.8	2114.8	2172.4	2249.3	2325.4	2461.7	2598.0	2774.5	2950.2
15°	1651.6	1649.0	1646.4	1665.6	1716.3	1800.2	1883.2	2027.4	2171.6	2365.6	2558.7
17.5°	1302.9	1289.8	1276.7	1291.6	1338.8	1407.8	1476.0	1598.3	1719.8	1907.7	2095.5
20°	1053.9	1045.1	1036.4	1050.4	1080.1	1108.9	1137.8	1226.0	1313.4	1466.4	1618.4
22.5°	927.2	926.3	924.6	932.4	946.4	961.3	975.2	1018.1	1060.0	1158.8	1256.6
25°	852.9	852.0	851.1	854.6	866.0	877.4	888.7	916.7	944.7	991.8	1039.0
27.5°	793.5	791.7	790.0	790.9	793.5	811.0	827.6	840.7	852.9	885.2	916.7
30°	745.4	744.5	743.7	743.7	741.0	747.2	753.3	773.4	792.6	825.8	859.0
32.5°	704.3	700.0	695.6	686.0	679.9	688.6	697.3	718.3	739.3	769.9	800.5
35°	652.8	641.4	629.2	623.9	624.8	633.6	642.3	663.3	683.4	716.6	748.9
37.5°	596.9	593.4	589.0	588.1	590.7	599.5	608.2	626.6	644.0	677.2	709.6
40°	565.4	563.6	561.9	560.2	561.9	570.6	579.4	596.9	613.5	645.8	677.2
42.5°	537.4	536.6	535.7	535.7	536.6	546.2	555.8	573.3	589.9	618.7	647.5
45°	510.3	511.2	511.2	513.0	515.6	525.2	533.9	553.2	572.4	600.3	628.3
47.5°	485.0	487.6	489.4	493.7	496.4	506.8	516.5	537.4	558.4	593.4	627.4
50°	463.2	465.8	467.5	471.0	478.0	490.2	502.5	527.8	552.3	610.8	668.5
52.5°	443.1	445.7	448.3	451.8	460.5	474.5	488.5	520.0	550.5	618.7	686.9
55°	424.7	427.3	429.1	434.3	443.1	455.3	466.6	505.1	543.5	593.4	643.2
57.5°	407.2	409.8	411.6	415.1	419.5	432.6	444.8	485.9	526.9	561.9	596.0
60°	388.9	390.6	391.5	391.5	395.0	409.8	424.7	477.1	528.7	522.6	515.6
62.5°	368.8	370.5	371.4	368.8	373.1	388.9	404.6	472.8	540.9	499.0	457.0
65°	350.4	349.5	348.7	346.1	351.3	367.0	381.9	416.0	450.0	433.4	416.8
67.5°	330.3	327.7	325.1	321.6	326.8	340.8	353.9	365.3	376.6	378.4	380.1
70°	305.0	301.5	298.0	297.1	299.7	311.1	322.5	330.3	337.3	340.8	343.4
72.5°	275.3	272.6	270.0	268.3	269.2	278.8	287.5	294.5	301.5	304.1	305.9
75°	242.1	242.1	241.2	235.9	235.9	243.8	250.8	256.9	263.0	266.5	270.0
77.5°	206.2	207.1	207.1	200.1	199.2	207.1	214.1	219.3	223.7	227.2	229.8
80°	165.2	163.4	161.7	157.3	155.5	165.2	173.9	178.3	181.8	182.6	182.6
82.5°	126.7	123.2	118.8	109.2	110.1	120.6	130.2	133.7	137.2	137.2	137.2
85°	86.5	79.5	71.7	63.8	64.7	76.0	86.5	90.0	93.5	95.3	96.1
87.5°	41.1	34.1	26.2	20.1	20.1	29.7	38.5	40.2	41.9	45.4	48.9
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: P320818
 CATALOG NUMBER: GLEON-SA4D-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: P320818

CATALOG NUMBER: GLEON-SA4D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	6658.9	6658.9	6658.9	6658.9	6658.9	6658.9	6658.9	6658.9	6658.9	6658.9	6658.9
2.5°	6231.6	6306.7	6384.5	6462.3	6551.4	6640.5	6744.5	6847.6	6935.9	7024.2	7097.6
5°	5242.3	5362.1	5502.8	5643.4	5822.6	6001.7	6221.1	6439.5	6634.4	6829.3	7055.6
7.5°	4152.6	4308.2	4491.7	4675.2	4906.8	5138.4	5422.4	5706.4	5981.6	6256.0	6603.8
10°	3483.2	3646.7	3827.5	4007.6	4243.5	4478.6	4779.2	5078.9	5388.3	5696.8	6090.0
12.5°	3131.9	3312.8	3471.9	3630.9	3822.3	4012.8	4303.8	4594.8	4958.3	5321.0	5699.4
15°	2757.1	2954.6	3145.1	3335.6	3544.4	3752.4	4035.5	4318.7	4716.3	5113.9	5549.1
17.5°	2303.5	2511.5	2744.0	2975.5	3248.2	3519.9	3882.6	4245.3	4716.3	5186.4	5699.4
20°	1830.8	2043.1	2321.0	2598.9	2937.9	3276.1	3746.3	4216.4	4850.9	5484.4	6138.9
22.5°	1444.5	1631.5	1934.7	2237.1	2628.6	3020.1	3623.1	4225.2	5054.5	5882.9	6766.4
25°	1171.0	1302.9	1600.9	1898.0	2349.8	2801.6	3547.9	4293.3	5350.7	6407.2	7503.0
27.5°	1003.2	1089.7	1367.6	1644.6	2138.4	2631.2	3517.3	4402.6	5726.5	7050.4	8304.4
30°	919.3	979.6	1214.7	1448.9	1950.5	2452.1	3480.6	4509.2	6088.2	7666.5	8930.9
32.5°	849.4	897.5	1098.5	1298.6	1787.9	2277.3	3409.8	4541.5	6340.8	8140.1	9461.4
35°	790.0	830.2	1005.0	1179.7	1660.4	2141.0	3291.0	4441.0	6499.0	8556.9	10013.7
37.5°	741.9	773.4	935.0	1096.7	1550.2	2003.8	3155.5	4307.3	6639.7	8972.0	10635.0
40°	704.3	731.4	882.6	1033.8	1445.4	1857.0	3039.3	4220.8	6833.7	9446.5	11291.3
42.5°	683.4	718.3	837.2	955.1	1345.8	1736.4	2945.8	4155.3	7013.7	9871.2	11865.4
45°	678.1	727.9	813.6	899.2	1271.5	1643.7	2862.8	4081.0	7129.9	10178.8	12298.0
47.5°	669.4	710.5	795.2	880.0	1234.8	1588.7	2818.2	4046.9	7246.1	10444.5	12657.1
50°	674.6	679.9	780.4	880.0	1229.5	1579.1	2868.9	4158.7	7497.8	10836.0	13067.8
52.5°	665.0	642.3	752.4	862.5	1228.7	1594.8	3014.9	4434.9	7965.3	11494.9	13512.6
55°	614.3	584.6	700.0	815.3	1210.3	1604.4	3188.8	4772.2	8592.8	12412.4	14312.2
57.5°	569.8	542.7	640.5	737.5	1154.4	1571.2	3367.9	5163.7	9256.0	13347.5	15213.2
60°	510.3	504.2	574.1	644.0	1067.9	1490.8	3515.6	5539.5	9701.7	13863.1	15560.1
62.5°	461.4	464.9	516.5	568.0	959.5	1350.1	3564.5	5778.0	9689.5	13600.9	15210.6
65°	423.8	429.9	480.6	531.3	866.9	1202.4	3403.7	5604.1	9199.2	12793.5	14519.3
67.5°	387.1	394.1	454.4	513.8	784.7	1054.8	3001.7	4947.8	8317.5	11686.3	13640.2
70°	352.2	360.9	426.4	492.0	725.3	957.8	2483.5	4009.3	7213.8	10417.4	12622.2
72.5°	314.6	323.3	393.2	463.2	687.7	911.4	2024.8	3137.2	5854.1	8570.0	10796.7
75°	276.1	282.3	358.3	433.4	636.2	838.9	1588.7	2337.6	4480.3	6623.1	8155.0
77.5°	237.7	245.6	309.3	372.3	540.1	707.0	1197.2	1687.4	3287.5	4886.7	5671.4
80°	189.6	196.6	242.1	286.6	416.8	546.2	823.2	1100.2	2262.4	3424.7	3866.9
82.5°	145.1	152.9	183.5	213.2	297.1	381.0	499.0	617.0	1503.1	2388.3	2425.0
85°	99.6	102.2	124.1	145.1	183.5	222.0	285.8	349.5	994.5	1639.4	1365.9
87.5°	49.8	49.8	64.7	79.5	98.7	118.0	151.2	183.5	318.1	452.7	260.4
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: P320818
 CATALOG NUMBER: GLEON-SA4D-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: P320818

CATALOG NUMBER: GLEON-SA4D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	6658.9	6658.9	6658.9	6658.9	6658.9	6658.9	6658.9	6658.9	6658.9	6658.9	6658.9
2.5°	7191.1	7254.9	7319.5	7368.5	7418.3	7489.9	7561.6	7574.7	7588.7	7560.7	7532.8
5°	7283.7	7476.8	7670.8	7850.0	8029.1	8136.6	8244.1	8265.9	8287.8	8220.5	8152.3
7.5°	6940.3	7276.7	7613.2	7921.6	8230.1	8417.1	8605.0	8646.9	8689.8	8579.7	8469.5
10°	6481.5	6894.8	7308.2	7714.5	8120.9	8392.6	8664.4	8718.6	8772.8	8635.6	8498.4
12.5°	6126.7	6568.0	7009.3	7437.5	7866.6	8148.0	8429.3	8496.6	8563.9	8464.3	8363.8
15°	6017.5	6432.6	6847.6	7220.8	7594.8	7824.6	8055.3	8082.4	8110.4	8094.7	8078.9
17.5°	6215.8	6590.7	6966.5	7169.2	7372.8	7464.6	7557.2	7586.9	7617.5	7656.8	7697.0
20°	6696.5	6960.4	7225.2	7216.4	7206.8	7162.2	7116.8	7108.9	7101.1	7213.8	7327.4
22.5°	7413.9	7518.8	7624.5	7379.0	7133.4	6984.0	6833.7	6803.9	6773.4	6893.1	7013.7
25°	8192.5	8173.3	8153.2	7685.7	7217.3	6932.4	6647.5	6614.3	6581.1	6683.4	6786.5
27.5°	8963.3	8837.4	8711.6	8076.3	7441.0	7027.7	6614.3	6581.1	6547.9	6638.8	6729.7
30°	9528.7	9326.8	9124.9	8405.8	7686.6	7195.4	6704.3	6650.1	6595.1	6706.9	6818.8
32.5°	9970.0	9699.1	9428.2	8673.2	7918.1	7386.8	6855.5	6770.7	6686.0	6835.4	6984.8
35°	10410.4	10029.4	9647.5	8911.7	8175.1	7613.2	7050.4	6946.4	6842.4	7047.8	7253.1
37.5°	10964.4	10417.4	9869.5	9180.0	8490.5	7952.2	7413.0	7306.4	7199.8	7461.1	7723.3
40°	11565.7	10836.0	10106.3	9473.6	8840.9	8421.5	8001.2	7899.8	7797.5	8115.6	8433.7
42.5°	12065.5	11225.7	10385.9	9827.5	9268.3	8972.9	8676.7	8675.8	8674.0	8996.5	9318.9
45°	12471.9	11550.8	10628.9	10172.7	9715.7	9561.9	9408.1	9531.3	9654.5	9945.5	10237.4
47.5°	12775.1	11823.5	10870.9	10567.7	10264.5	10287.2	10309.9	10560.7	10811.5	10998.5	11186.4
50°	12972.6	12070.8	11168.1	11074.5	10981.0	11184.7	11389.1	11676.6	11965.0	12092.6	12220.2
52.5°	13260.1	12406.3	11551.7	11656.5	11761.4	12177.4	12593.3	12884.3	13175.3	13222.5	13270.6
55°	13925.1	13023.3	12120.6	12321.6	12523.4	13133.4	13744.2	13971.4	14198.6	14216.1	14233.6
57.5°	14869.8	13887.5	12905.3	13122.0	13338.7	14043.1	14748.3	14993.0	15238.5	15204.5	15169.5
60°	15576.7	14708.1	13838.6	14057.1	14275.5	14962.4	15649.3	15930.6	16212.9	16137.8	16062.6
62.5°	15620.4	15156.4	14691.5	14889.0	15087.4	15760.2	16433.1	16722.4	17011.6	16880.5	16749.5
65°	14925.7	15133.7	15341.7	15407.2	15472.7	16100.2	16728.5	16949.6	17171.5	17105.1	17038.7
67.5°	13968.8	14735.2	15502.4	15370.5	15238.5	15533.0	15827.5	16055.6	16283.7	16246.1	16207.7
70°	13013.7	14037.0	15060.3	14411.9	13762.6	13641.1	13519.6	13765.2	14011.6	13859.6	13706.6
72.5°	11387.4	12478.0	13569.4	12374.9	11180.3	10765.2	10350.1	10662.1	10974.1	10732.0	10489.1
75°	8938.8	10143.9	11349.8	9924.5	8499.3	7945.2	7391.2	7659.5	7927.7	7761.7	7594.8
77.5°	6654.5	7842.1	9029.7	7580.8	6131.1	5719.5	5307.0	5386.5	5466.9	5439.0	5410.1
80°	4513.5	5341.1	6169.5	5204.8	4240.0	4271.5	4303.8	4266.2	4227.8	4283.7	4339.6
82.5°	2880.3	3519.1	4158.7	3646.7	3134.6	3428.2	3721.8	3577.6	3432.6	3485.9	3540.0
85°	1643.7	2268.6	2894.3	2697.6	2500.1	2671.4	2843.6	2619.9	2396.2	2494.0	2592.8
87.5°	433.4	1254.9	2077.2	1885.8	1694.4	1472.5	1250.5	954.3	658.0	961.3	1264.5
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: P320818
 CATALOG NUMBER: GLEON-SA4D-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: P320818

CATALOG NUMBER: GLEON-SA4D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	6658.9	6658.9	6658.9	6658.9	6658.9	6658.9	6658.9
2.5°	7517.9	7503.0	7449.7	7395.6	7315.2	7248.7	7133.4
5°	8058.0	7963.6	7801.0	7637.6	7455.9	7247.0	7015.4
7.5°	8249.3	8028.2	7716.3	7403.4	7122.0	6791.7	6484.1
10°	8168.1	7836.9	7431.4	7025.0	6683.4	6303.2	5961.5
12.5°	8012.5	7660.3	7213.8	6766.4	6377.5	5969.4	5586.6
15°	7798.4	7517.0	7098.4	6679.9	6288.4	5891.6	5438.1
17.5°	7564.2	7430.5	7128.2	6824.9	6485.9	6101.4	5569.2
20°	7375.5	7424.4	7303.8	7183.2	6911.4	6575.9	5978.1
22.5°	7247.9	7482.9	7575.6	7669.1	7505.7	7243.5	6552.3
25°	7176.2	7566.0	7876.2	8187.3	8114.8	7912.9	7249.6
27.5°	7207.7	7685.7	8167.2	8649.6	8716.8	8660.9	7984.5
30°	7302.1	7786.2	8372.5	8959.8	9228.1	9303.2	8597.1
32.5°	7459.4	7933.9	8572.7	9212.3	9617.8	9857.2	9157.3
35°	7697.0	8141.0	8806.9	9472.7	9997.1	10434.0	9735.8
37.5°	8105.1	8487.0	9101.4	9716.6	10396.4	11052.7	10372.8
40°	8702.9	8972.9	9492.0	10011.9	10867.4	11753.5	11083.3
42.5°	9457.0	9596.0	10007.6	10419.1	11359.4	12389.7	11778.0
45°	10274.1	10310.8	10569.5	10829.0	11749.2	12823.2	12299.7
47.5°	11060.6	10934.7	11037.8	11141.0	12048.0	13132.5	12695.6
50°	11869.8	11519.3	11465.2	11411.0	12346.9	13496.9	13198.9
52.5°	12693.0	12115.3	11901.2	11686.3	12703.4	13980.2	13825.5
55°	13498.7	12763.7	12475.4	12187.0	13248.7	14570.0	14745.7
57.5°	14336.7	13503.9	13236.5	12969.1	14050.1	15317.2	15571.5
60°	15238.5	14413.6	14199.5	13984.5	15046.3	16124.6	15939.4
62.5°	16094.1	15438.7	15325.9	15212.3	16053.9	16745.1	15796.1
65°	16665.6	16291.6	16396.4	16502.2	16815.9	16899.8	15376.6
67.5°	16283.7	16359.7	16802.8	17246.7	17030.8	16440.1	14549.9
70°	14161.9	14618.1	15667.6	16718.0	16239.1	15208.8	13066.1
72.5°	11001.1	11514.1	13072.2	14631.2	14189.9	12928.0	10732.0
75°	8173.3	8752.7	10472.5	12192.2	11579.6	9670.2	7683.9
77.5°	5798.1	6186.1	7884.1	9582.9	8584.0	6436.9	5170.7
80°	4220.8	4101.9	5048.3	5994.7	5828.7	4257.5	3320.7
82.5°	3249.9	2959.8	3405.5	3851.1	3826.7	2954.6	2436.3
85°	2476.5	2360.3	2754.4	3148.6	2811.2	2001.2	1548.5
87.5°	1443.6	1623.6	2087.7	2552.6	1915.5	607.3	300.6
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: P320818
 CATALOG NUMBER: GLEON-SA4D-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.

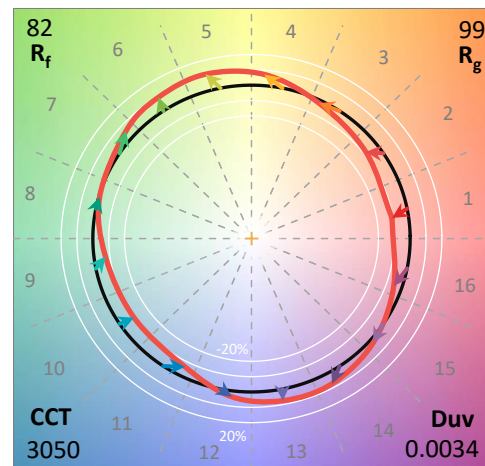
Test Information

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
 Rf: 81.5
 Rg: 99.2

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



Test Conditions

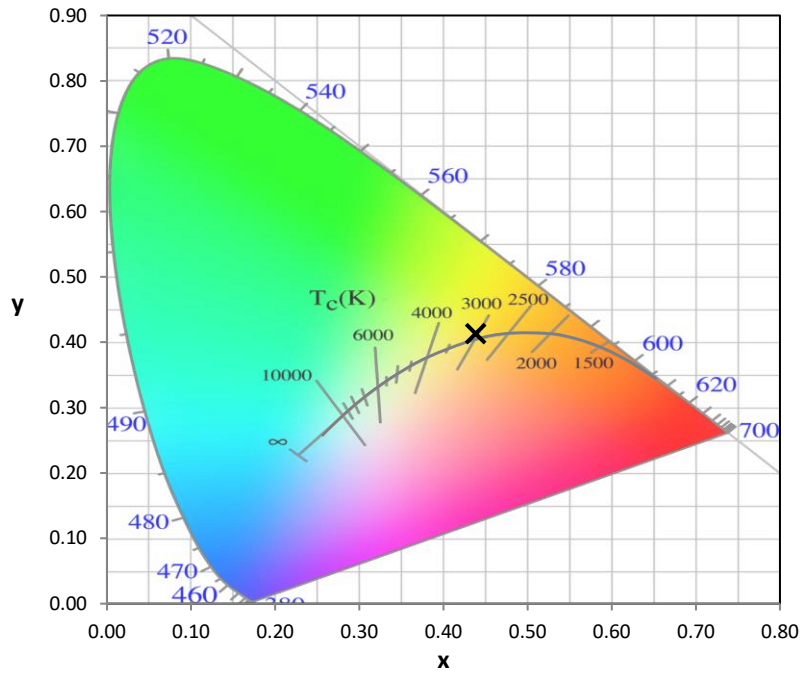
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

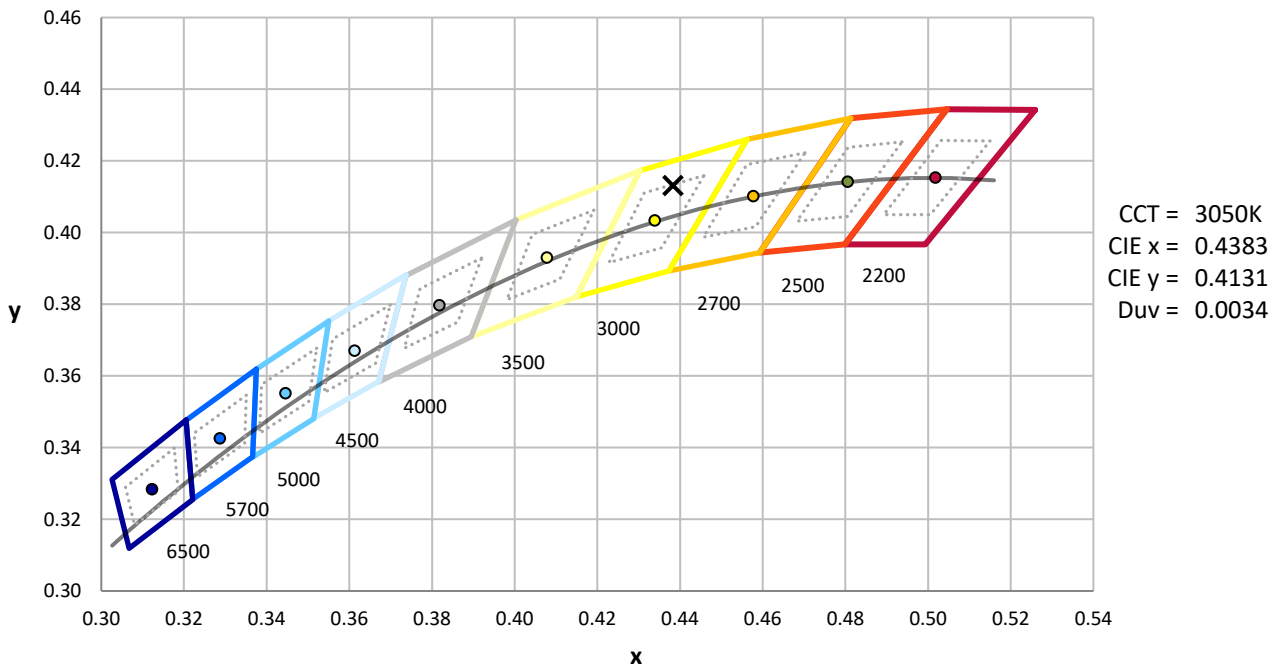
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



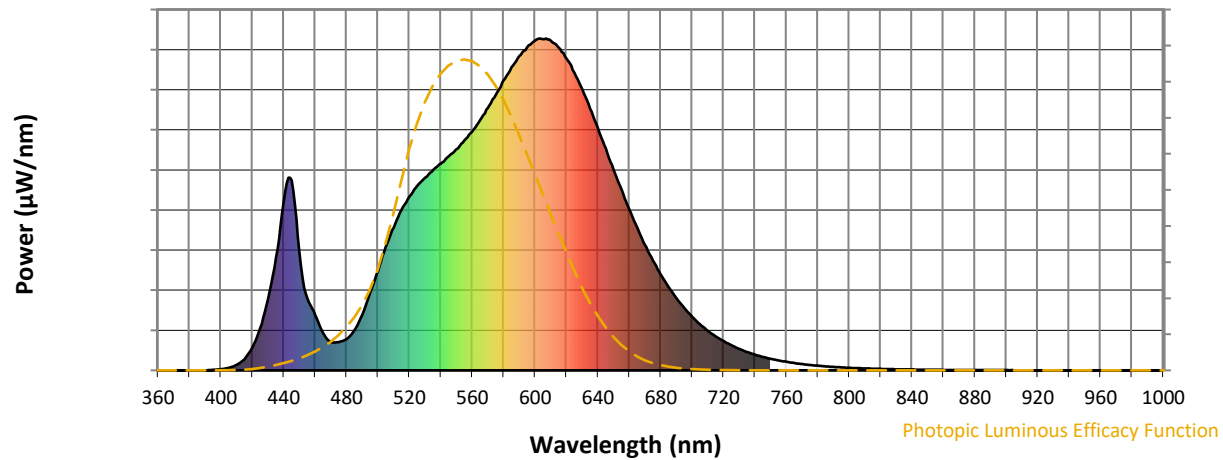
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

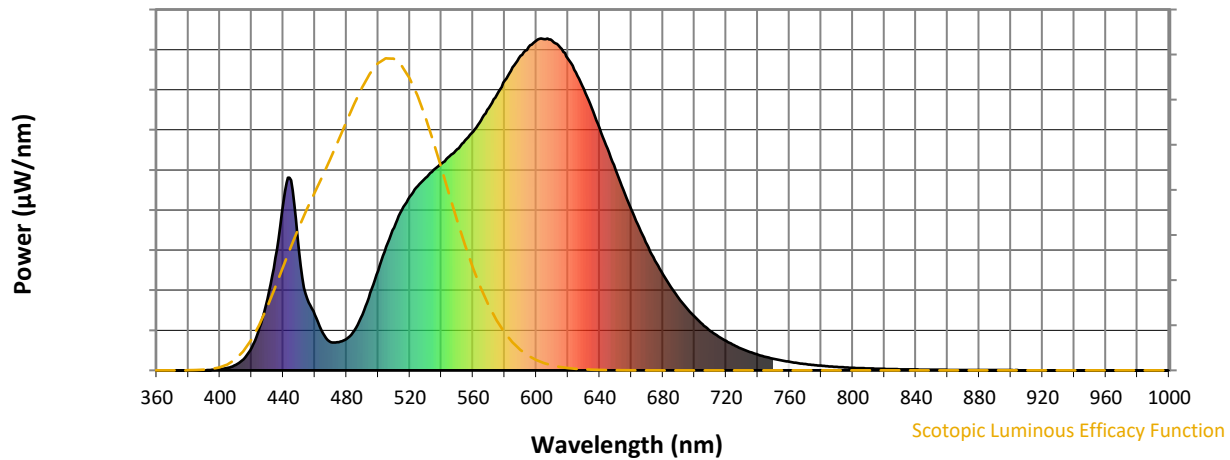


Photopic Lumens: NR

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

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength



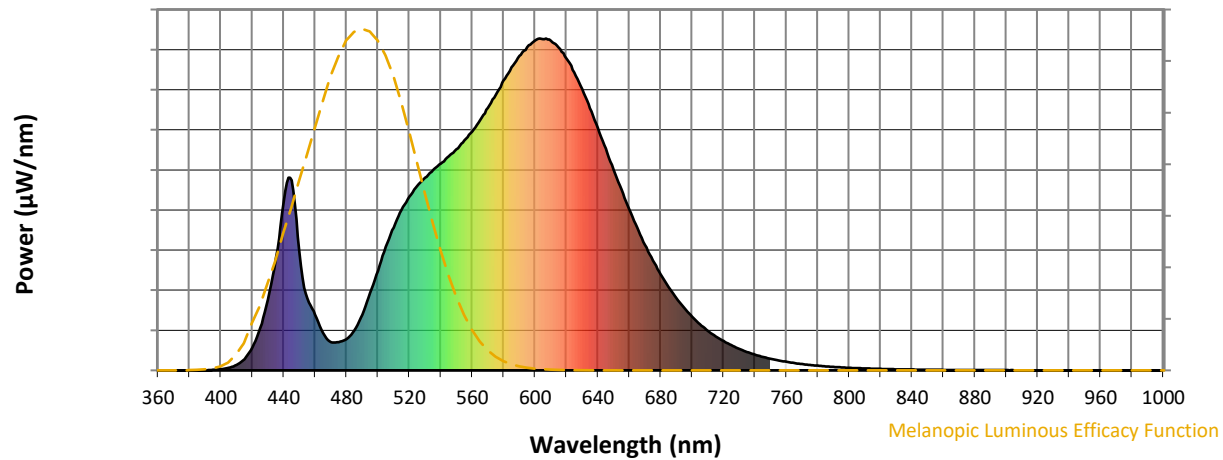
Scotopic Lumens: NR

S/P: 1.27

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

REPORT NUMBER: SP1-2408-195-9

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.32

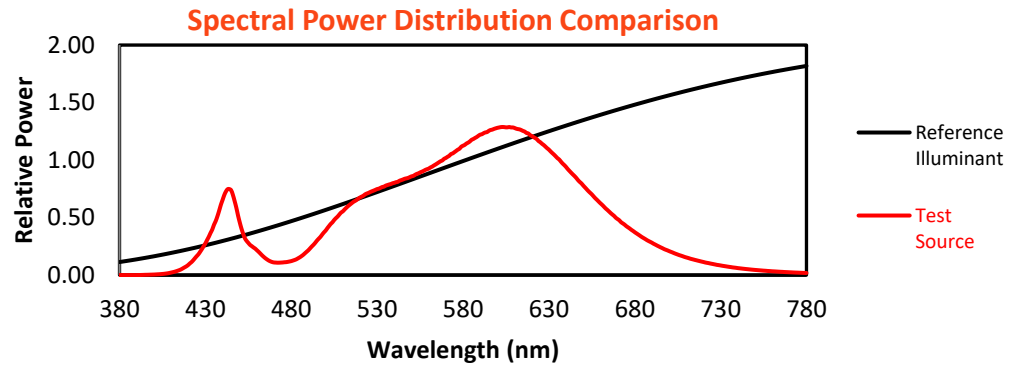
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940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

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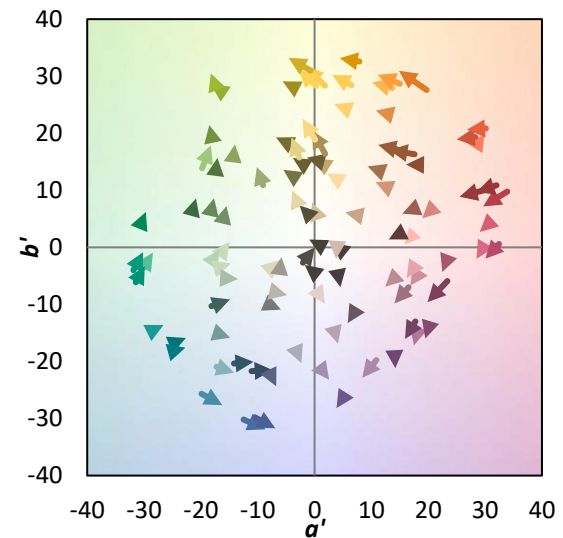
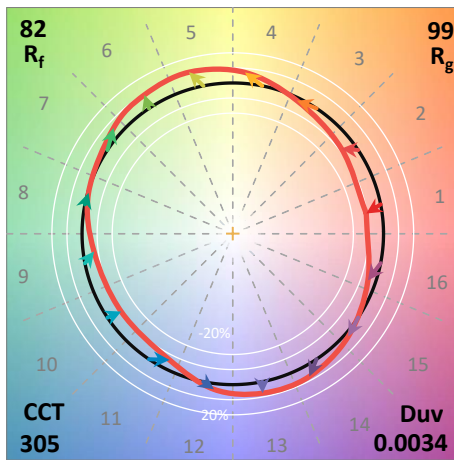
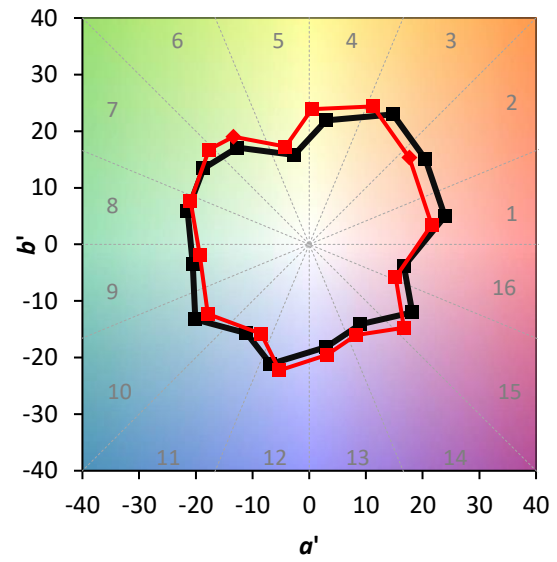
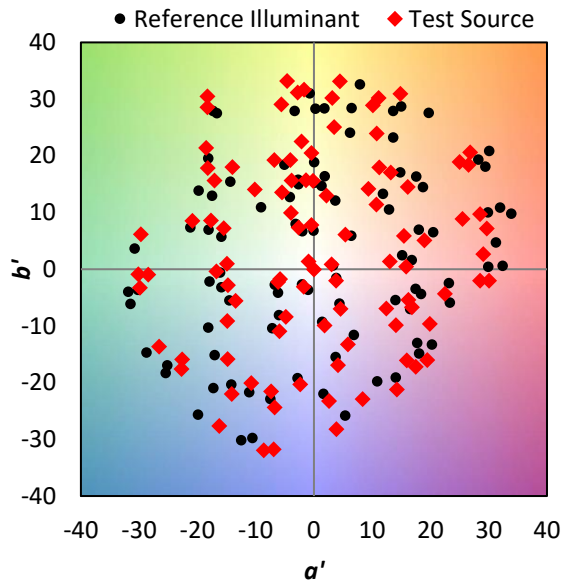
TM-30-18

Summary

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

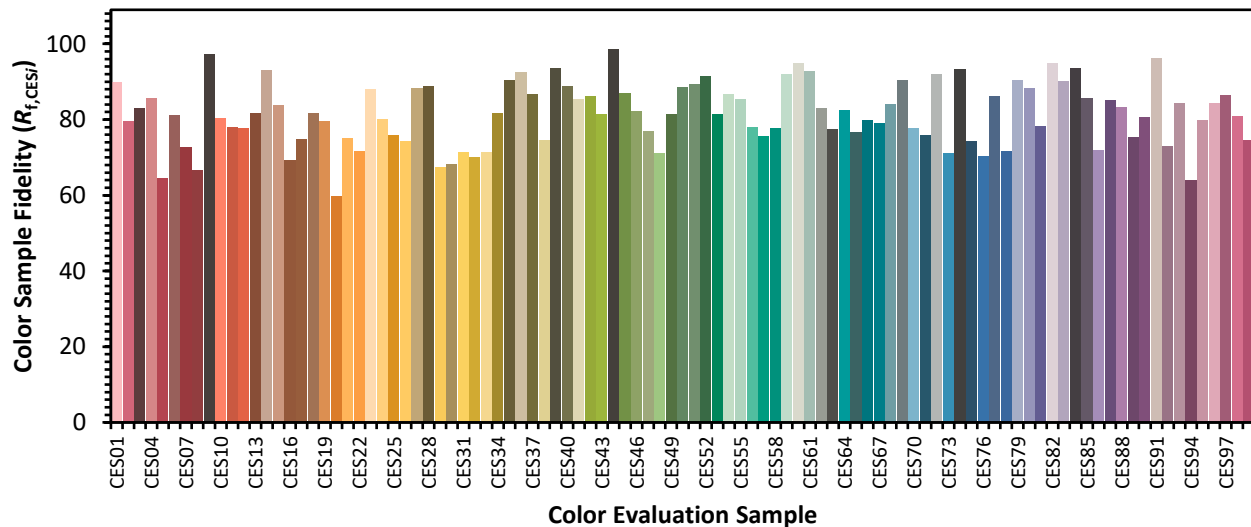


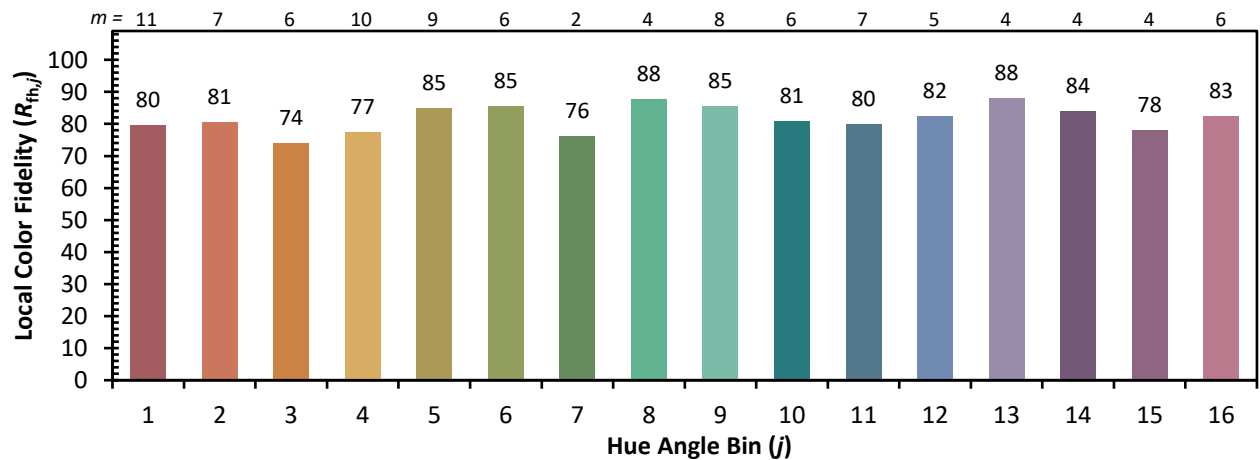
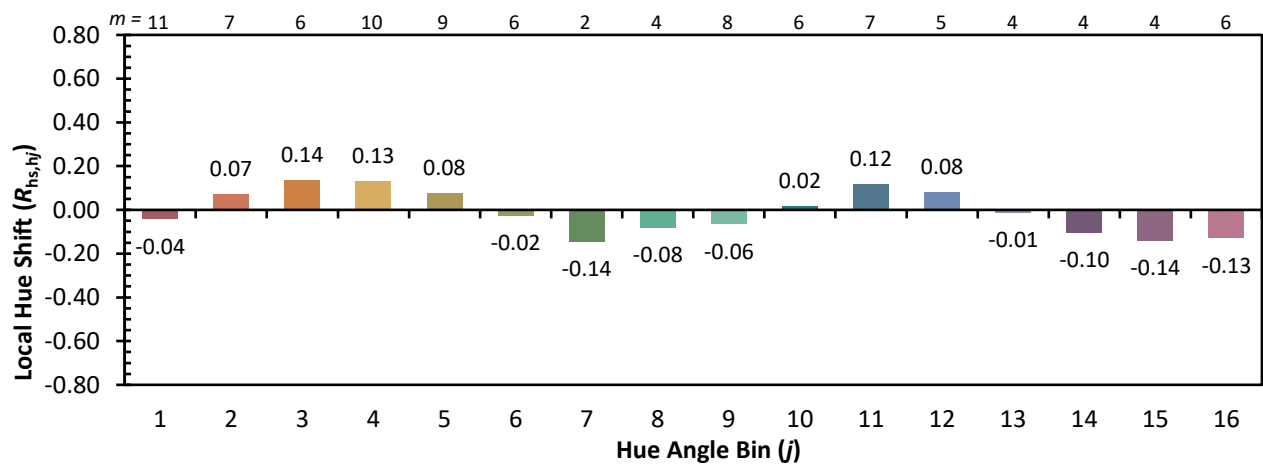
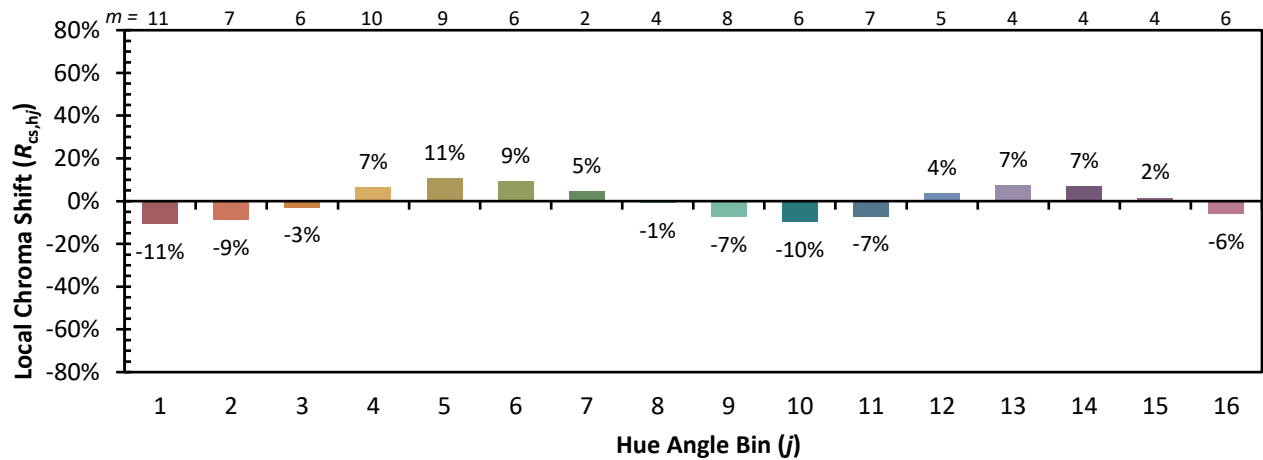
Color Vector Graphics



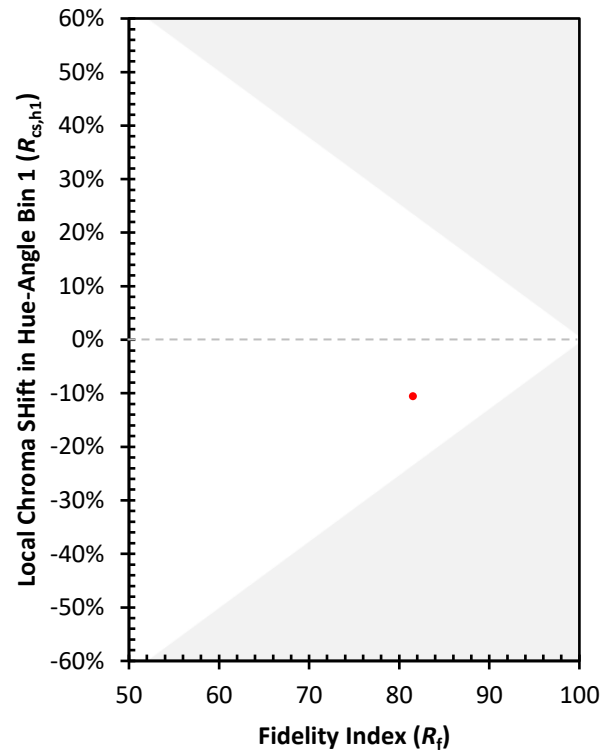
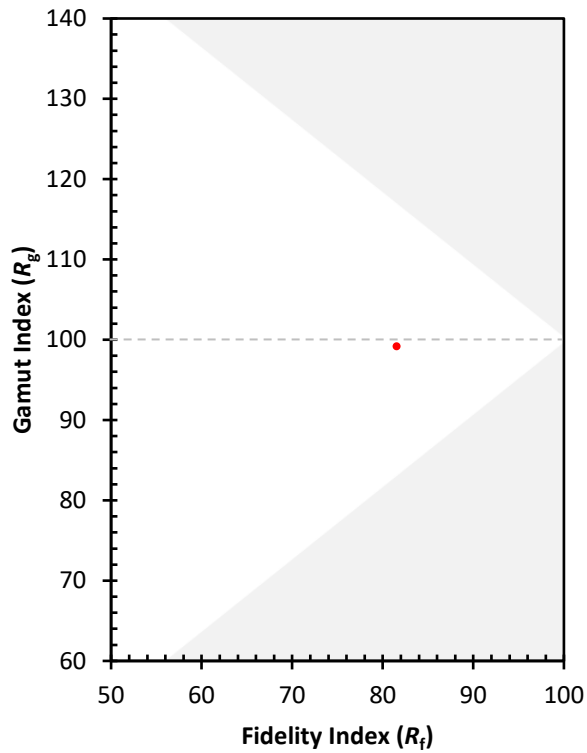
Individual Sample Fidelity Index ($R_{f,i}$)

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



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)