

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: P320799

Luminaire Tested: **GLEON-SA5B-830-U-SLR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320799
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-SA5B-830-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 19946 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

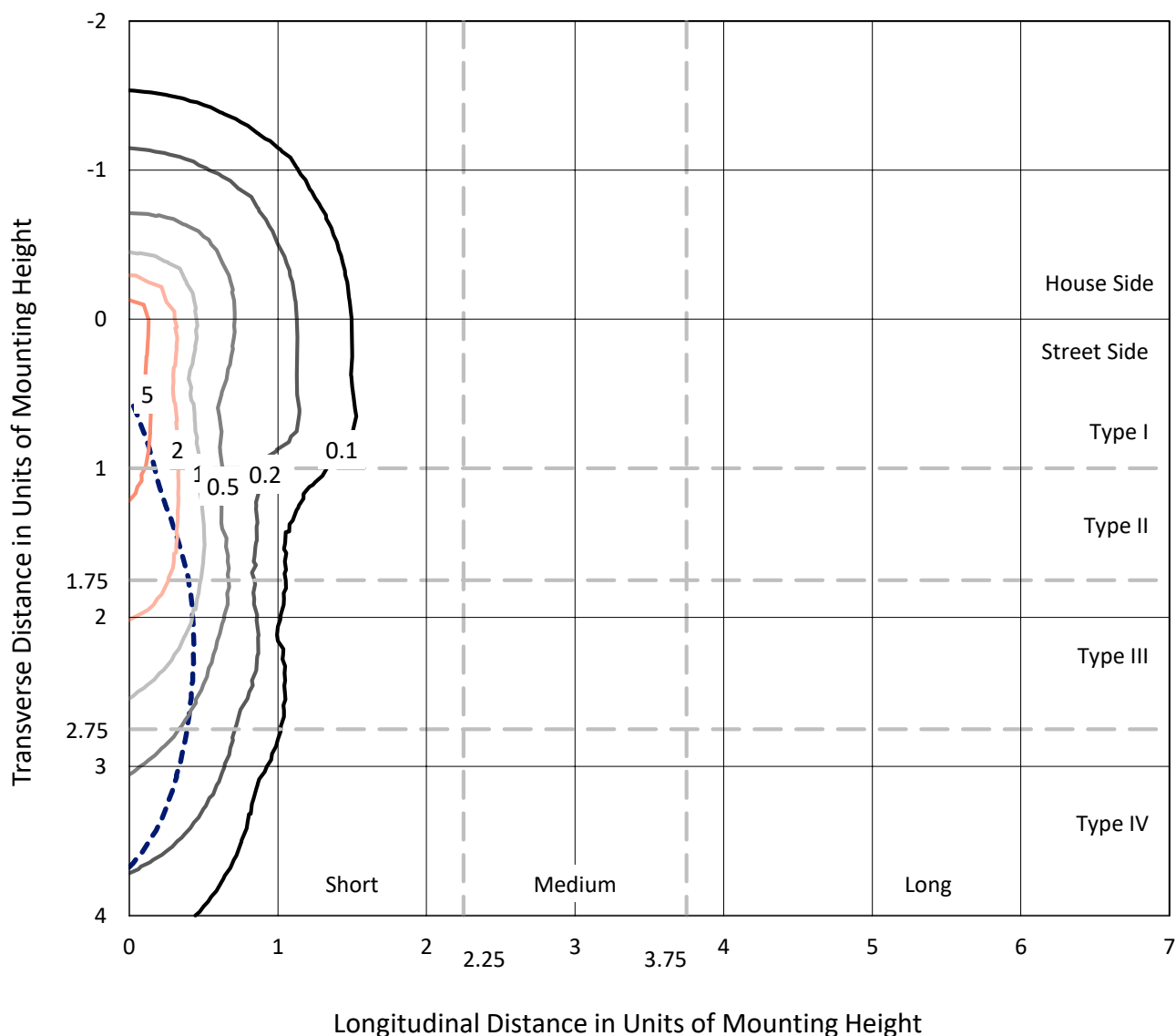
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

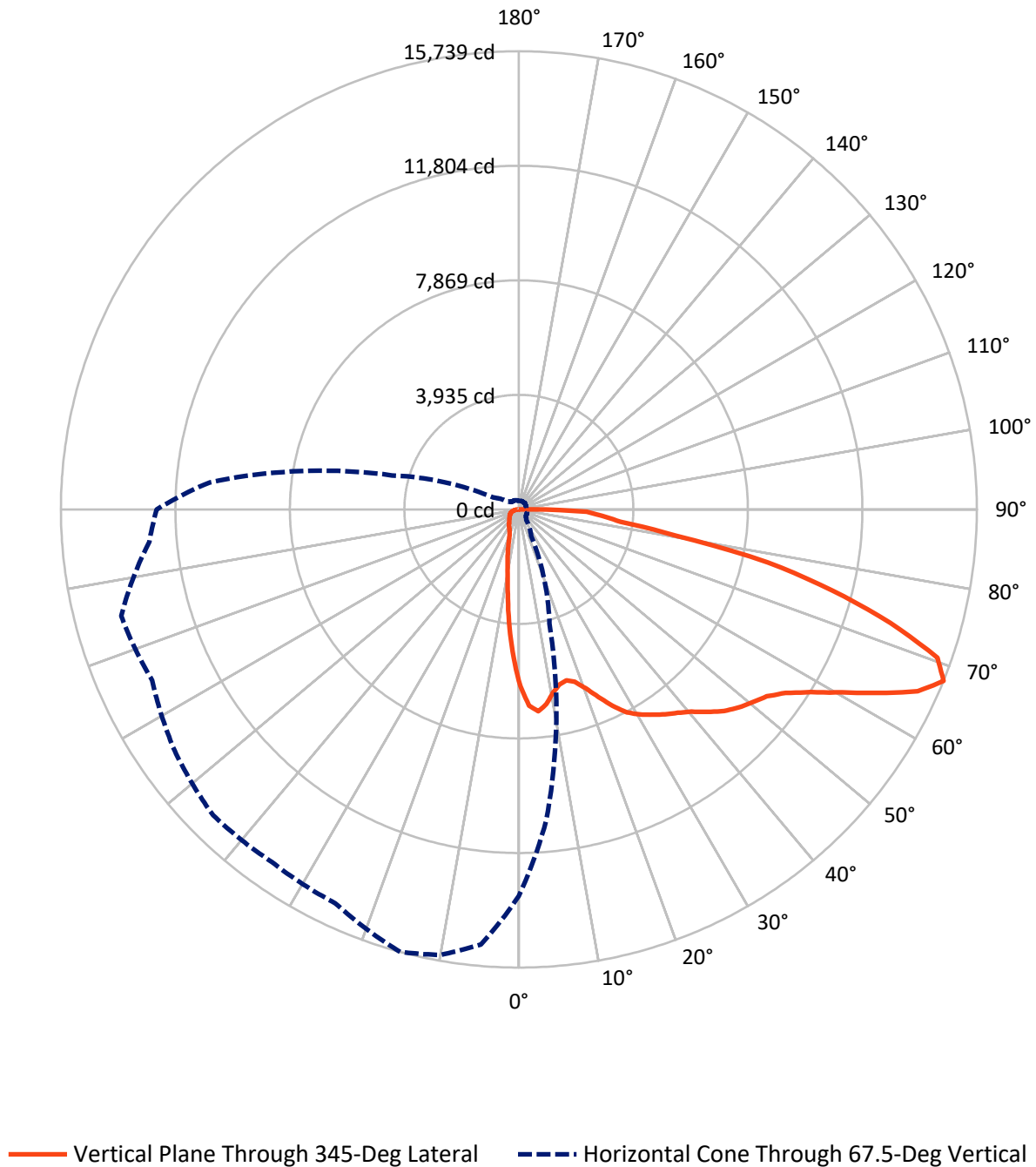
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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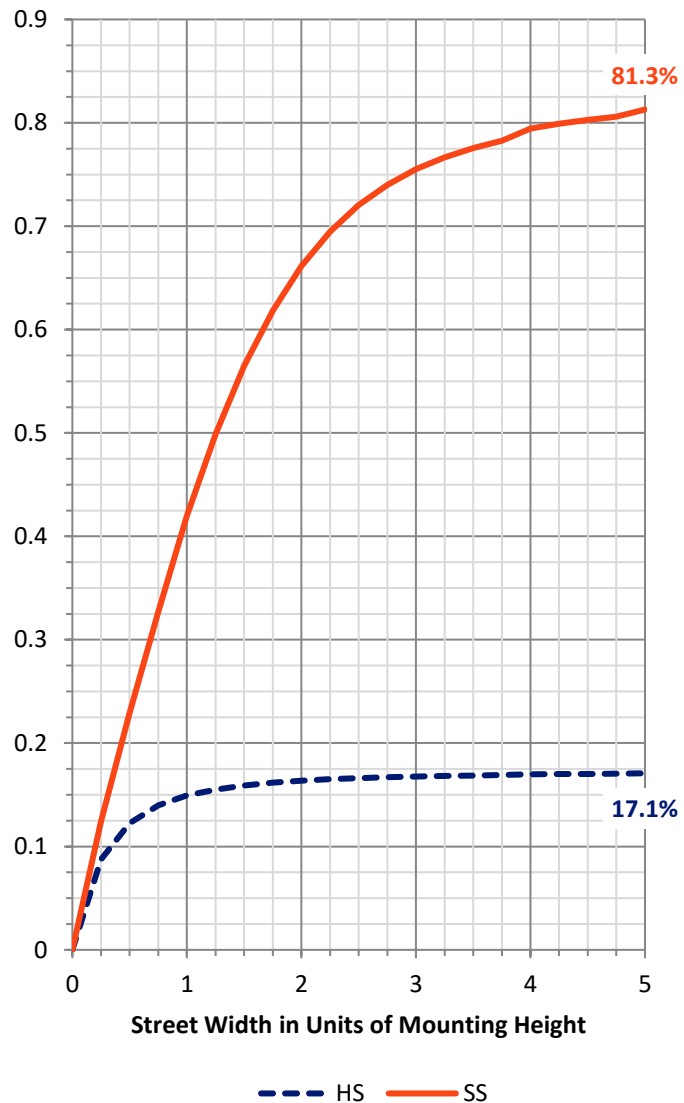
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3448.2	0.0	3448.2
	% Fixture	17.3	0.0	17.3
Street Side	Lumens	16497.8	0.0	16497.8
	% Fixture	82.7	0.0	82.7
Total	Lumens	19946.0	0.0	19946.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.0	2.4
10°-20°	974.3	4.9
20°-30°	1385.6	6.9
30°-40°	1996.7	10.0
40°-50°	2813.9	14.1
50°-60°	3911.8	19.6
60°-70°	4730.5	23.7
70°-80°	2907.7	14.6
80°-90°	756.6	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°	19946.0	100.0
0°-180°	19946.0	100.0

Coefficient of Utilization



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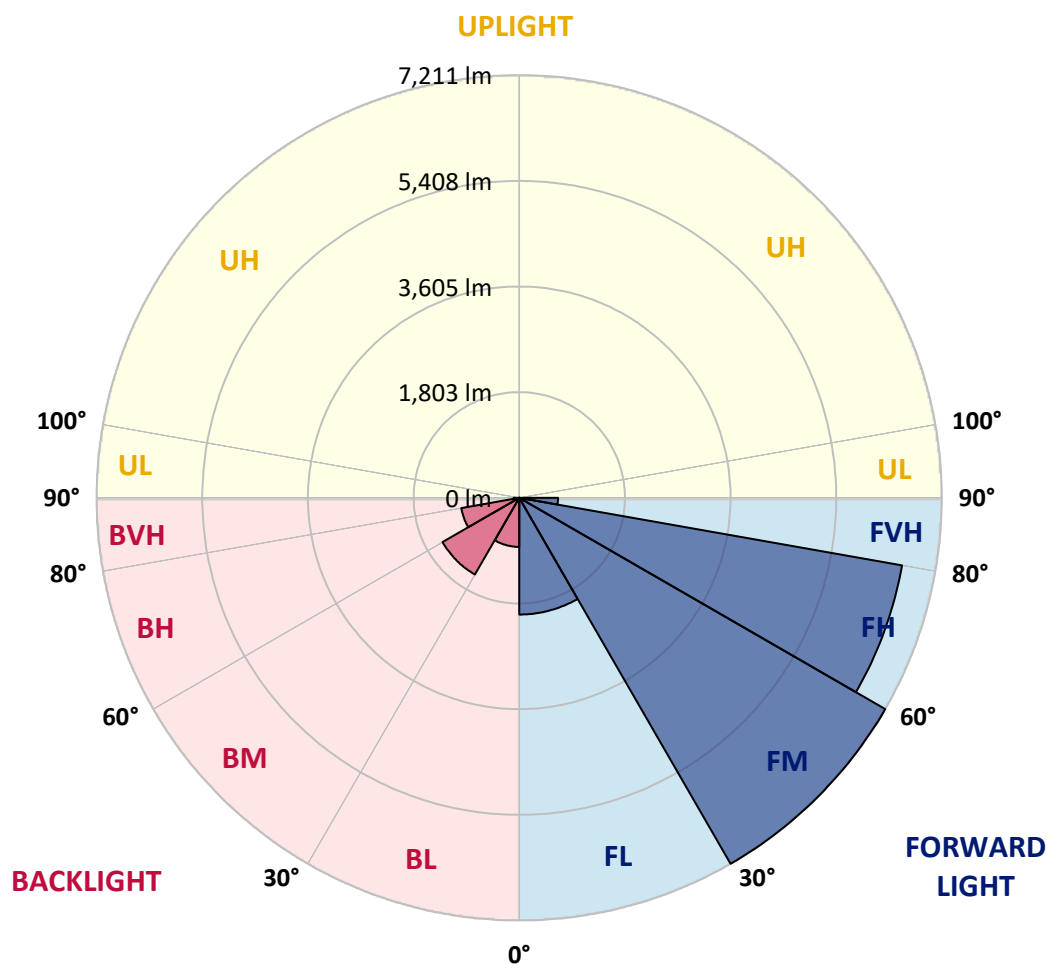
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1991.7	10.0			
FM	(30°-60°)	7211.0	36.2			
FH	(60°-80°)	6633.4	33.3			G3/7500
FVH	(80°-90°)	661.8	3.3			G4/750
BL	(0°-30°)	837.2	4.2	B2/1000		
BM	(30°-60°)	1511.3	7.6	B2/2500		
BH	(60°-80°)	1004.9	5.0	B3/2500		G3/2500
BVH	(80°-90°)	94.8	0.5			G1/100
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°	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7
2.5°	6509.7	6452.3	6365.4	6278.4	6213.9	6148.5	6074.3	6000.1	5915.6	5830.3	5780.0
5°	6402.1	6242.6	6035.2	5827.9	5690.7	5553.5	5398.0	5242.5	5088.6	4934.7	4851.8
7.5°	5917.2	5678.0	5408.4	5138.9	4939.5	4739.3	4524.0	4307.9	4116.5	3924.3	3805.5
10°	5440.3	5153.2	4843.8	4533.6	4278.4	4023.2	3807.1	3590.2	3445.8	3301.5	3192.3
12.5°	5098.2	4780.0	4439.5	4098.2	3843.0	3587.8	3450.6	3313.5	3193.8	3074.2	2948.2
15°	4962.6	4603.0	4254.5	3905.2	3673.1	3441.1	3288.7	3135.6	2975.3	2814.3	2659.5
17.5°	5082.2	4661.2	4282.4	3903.6	3599.8	3295.9	3083.0	2869.3	2658.0	2446.6	2267.2
20°	5455.5	4918.0	4422.7	3926.7	3522.4	3118.1	2832.6	2546.3	2275.2	2004.0	1800.7
22.5°	5979.4	5268.1	4621.3	3974.6	3452.2	2929.1	2571.0	2212.2	1891.6	1571.0	1371.6
25°	6615.8	5732.2	4907.6	4082.2	3423.5	2764.0	2323.8	1883.6	1545.5	1206.6	1064.6
27.5°	7286.4	6285.6	5263.3	4240.1	3428.3	2616.5	2115.7	1614.1	1309.4	1004.8	907.5
30°	7845.5	6918.0	5678.0	4437.1	3446.6	2456.2	1919.5	1382.8	1131.6	880.4	817.4
32.5°	8356.6	7359.0	5990.6	4621.3	3467.4	2312.6	1768.0	1222.5	1017.6	811.8	760.0
35°	8884.6	7750.6	6209.1	4666.8	3431.5	2195.4	1664.3	1133.2	944.2	754.4	710.5
37.5°	9465.9	8174.0	6419.6	4664.4	3370.9	2077.4	1583.8	1089.3	896.4	702.6	670.7
40°	10114.3	8642.1	6647.7	4653.2	3315.9	1977.7	1524.0	1069.4	870.0	669.9	642.8
42.5°	10748.2	9088.7	6859.8	4630.9	3271.2	1910.7	1464.9	1019.2	846.1	672.3	634.0
45°	11224.3	9478.7	7044.0	4608.6	3237.7	1866.9	1418.7	970.5	823.8	677.0	628.4
47.5°	11585.6	9870.2	7248.2	4625.3	3234.5	1843.7	1386.0	928.2	781.5	634.0	614.0
50°	12044.9	10340.7	7545.6	4750.5	3278.4	1806.3	1347.7	888.4	740.8	593.3	620.4
52.5°	12616.7	11012.2	8006.6	5000.1	3370.1	1740.1	1287.1	834.1	691.4	547.9	590.1
55°	13456.4	11872.7	8595.9	5318.3	3480.9	1642.8	1195.4	747.2	626.0	504.0	541.5
57.5°	14210.0	12741.9	9161.3	5579.9	3550.3	1520.0	1079.8	639.6	552.6	465.7	487.3
60°	14545.8	13190.1	9426.0	5661.2	3508.8	1356.5	949.8	542.3	488.0	433.8	429.8
62.5°	14415.0	12905.4	9165.3	5425.2	3306.3	1187.4	834.9	482.5	441.8	400.3	391.6
65°	14032.2	12010.6	8434.8	4859.0	2964.2	1069.4	762.4	455.4	409.9	364.4	354.9
67.5°	13277.8	10737.1	7399.7	4062.3	2529.6	996.8	720.9	445.0	390.0	334.1	323.0
70°	11923.7	9204.3	6207.5	3209.8	2081.4	952.2	693.8	435.4	368.4	300.6	290.3
72.5°	9793.7	7379.7	4957.0	2533.5	1740.1	946.6	690.6	434.6	350.9	267.2	257.6
75°	7012.1	5605.4	3784.0	1961.8	1425.1	888.4	655.5	422.7	327.0	230.5	221.7
77.5°	4718.6	3879.7	2630.0	1379.6	1057.4	735.3	551.0	366.8	279.9	193.0	184.2
80°	3030.4	2685.1	1762.4	839.7	685.8	531.9	393.9	256.0	204.2	151.5	144.3
82.5°	2223.3	1998.4	1224.9	451.4	381.2	310.2	240.8	171.5	139.6	107.7	104.5
85°	1413.1	1558.2	901.9	245.6	201.0	156.3	129.2	102.1	80.5	59.0	59.0
87.5°	274.3	379.6	249.6	118.8	86.9	55.0	47.1	38.3	21.5	4.0	4.8
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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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°	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7
2.5°	5729.0	5674.0	5618.9	5556.7	5493.7	5435.5	5376.5	5311.9	5323.9	5274.4	5225.0
5°	4768.8	4681.1	4592.6	4516.0	4439.5	4373.3	4306.3	4246.5	4298.3	4263.3	4228.2
7.5°	3685.9	3577.4	3468.2	3376.5	3284.8	3213.8	3142.0	3092.6	3143.6	3137.2	3130.8
10°	3083.0	2977.7	2871.7	2770.4	2669.1	2583.0	2496.1	2422.7	2409.9	2373.3	2335.8
12.5°	2821.4	2677.1	2532.0	2425.9	2319.8	2217.0	2114.1	2028.0	1988.9	1928.3	1866.9
15°	2504.8	2334.2	2163.5	2043.1	1921.9	1822.2	1721.7	1647.6	1622.8	1575.8	1528.7
17.5°	2087.8	1901.2	1714.6	1592.5	1469.7	1390.0	1309.4	1260.0	1260.0	1246.4	1232.9
20°	1597.3	1430.7	1264.0	1170.7	1077.4	1035.1	992.0	971.3	977.7	978.5	978.5
22.5°	1171.5	1069.4	967.3	929.8	891.6	876.4	861.3	852.5	855.7	856.5	857.3
25°	922.7	883.6	843.7	824.6	804.6	795.1	785.5	782.3	789.5	790.3	790.3
27.5°	810.2	786.3	761.6	749.6	736.9	732.9	728.9	723.3	730.5	730.5	729.7
30°	753.6	728.1	702.6	687.4	672.3	673.9	674.7	673.1	677.8	681.0	683.4
32.5°	707.4	682.6	657.9	642.8	626.8	624.4	622.0	620.4	630.8	636.4	642.0
35°	665.9	638.8	611.7	597.3	582.9	577.4	571.8	567.8	577.4	584.5	591.7
37.5°	638.0	610.1	581.4	567.8	553.4	546.3	539.1	534.3	538.3	541.5	544.7
40°	615.6	586.9	557.4	541.5	525.5	518.4	511.2	507.2	509.6	510.4	511.2
42.5°	594.9	567.0	539.1	521.5	503.2	494.4	485.7	480.9	482.5	484.1	484.9
45°	579.8	551.8	523.1	502.4	480.9	471.3	461.7	456.2	456.9	456.9	456.9
47.5°	594.1	553.4	512.0	488.0	463.3	452.2	441.0	435.4	433.8	432.2	430.6
50°	646.7	577.4	507.2	476.9	445.8	433.8	421.1	414.7	410.7	409.1	407.5
52.5°	631.6	571.8	511.2	472.1	432.2	417.9	403.5	393.2	389.2	386.8	384.4
55°	578.2	540.7	502.4	455.4	408.3	395.5	382.0	374.8	367.6	366.0	364.4
57.5°	508.0	492.8	477.7	429.8	382.0	370.0	357.3	352.5	346.1	346.1	345.3
60°	425.0	447.4	469.7	414.7	358.9	345.3	331.7	327.8	325.4	324.6	323.8
62.5°	382.0	418.7	454.6	396.3	337.3	323.0	308.6	303.8	303.0	303.8	303.8
65°	345.3	356.5	367.6	340.5	313.4	299.0	283.9	279.1	280.7	283.1	285.5
67.5°	311.8	309.4	307.0	297.5	287.1	275.1	262.4	257.6	258.4	261.6	264.8
70°	279.9	276.7	272.7	265.6	258.4	248.0	237.6	234.5	233.7	237.6	240.8
72.5°	248.0	244.0	239.2	233.7	227.3	218.5	209.7	207.3	208.1	210.5	212.9
75°	212.9	209.7	205.7	201.0	195.4	187.4	179.4	177.8	179.4	181.8	184.2
77.5°	174.6	173.8	172.3	168.3	164.3	155.5	145.9	145.1	147.5	149.9	151.5
80°	136.4	137.2	138.0	134.8	131.6	122.0	111.6	110.8	113.2	115.6	118.0
82.5°	100.5	102.9	104.5	100.5	96.5	85.3	74.2	72.6	80.5	82.9	85.3
85°	58.2	61.4	64.6	61.4	58.2	47.1	35.9	35.1	42.3	46.3	50.2
87.5°	4.8	6.4	8.0	7.2	6.4	3.2	0.0	0.0	0.8	4.0	7.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320799
 CATALOG NUMBER: GLEON-SA5B-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: P320799

CATALOG NUMBER: GLEON-SA5B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7
2.5°	5193.9	5162.8	5153.2	5143.7	5108.6	5072.7	5109.4	5145.2	5160.4	5175.6	5136.5
5°	4223.4	4217.8	4217.8	4217.0	4185.1	4152.4	4177.1	4201.0	4147.6	4094.2	4088.6
7.5°	3165.1	3199.4	3227.3	3254.5	3244.1	3233.7	3256.8	3280.0	3212.2	3143.6	3110.1
10°	2343.8	2350.9	2381.2	2411.5	2418.7	2425.1	2453.8	2481.7	2429.1	2376.4	2353.3
12.5°	1828.6	1790.3	1794.3	1797.5	1811.8	1825.4	1855.7	1885.2	1863.7	1841.3	1843.7
15°	1480.9	1432.2	1412.3	1391.6	1407.5	1423.5	1445.0	1465.7	1466.5	1466.5	1487.3
17.5°	1209.0	1184.2	1164.3	1143.6	1165.1	1185.8	1188.2	1190.6	1191.4	1192.2	1190.6
20°	990.5	1002.4	996.0	989.7	997.6	1004.8	1011.2	1016.8	1009.6	1001.6	981.7
22.5°	868.4	878.8	886.8	894.0	907.5	920.3	913.9	906.7	892.4	877.2	862.1
25°	797.5	804.6	812.6	820.6	831.8	842.1	831.0	819.8	809.4	799.1	788.7
27.5°	737.7	744.8	752.0	758.4	768.8	778.3	768.0	757.6	748.8	740.0	732.1
30°	689.0	693.8	699.4	705.0	714.5	723.3	714.5	705.0	698.6	691.4	685.8
32.5°	647.5	652.3	654.7	657.1	665.9	674.7	668.3	661.9	656.3	650.7	646.7
35°	602.1	611.7	613.3	614.8	623.6	632.4	628.4	623.6	617.2	610.9	603.7
37.5°	555.8	567.0	573.4	579.0	587.7	596.5	592.5	588.5	579.8	571.0	558.2
40°	516.8	521.5	533.5	544.7	559.0	572.6	564.6	555.8	542.3	528.7	522.3
42.5°	484.1	483.3	494.4	505.6	527.1	547.9	533.5	519.2	506.4	493.6	492.0
45°	455.4	453.0	458.5	464.1	487.3	509.6	495.2	480.1	472.9	465.7	465.7
47.5°	429.8	428.2	432.2	435.4	449.8	463.3	456.2	449.0	445.0	441.0	441.8
50°	406.7	405.1	409.1	412.3	417.9	422.7	424.3	425.0	422.7	420.3	421.9
52.5°	385.2	385.2	386.8	387.6	394.7	401.9	401.9	401.1	401.1	401.1	402.7
55°	366.8	368.4	368.4	368.4	379.6	390.0	386.8	383.6	384.4	384.4	386.0
57.5°	348.5	350.9	352.5	354.1	365.2	376.4	373.2	370.0	370.0	370.0	370.8
60°	327.8	330.9	334.1	337.3	348.5	359.7	356.5	352.5	353.3	354.1	354.9
62.5°	307.8	311.0	314.2	317.4	328.6	339.7	336.5	332.5	334.9	336.5	336.5
65°	288.7	291.1	294.3	297.5	307.8	318.2	315.0	311.8	315.0	317.4	319.0
67.5°	267.2	268.7	271.9	275.1	285.5	295.9	292.7	288.7	292.7	295.9	299.0
70°	242.4	244.0	248.0	251.2	261.6	271.9	267.9	264.0	267.9	271.9	275.1
72.5°	215.3	216.9	220.9	224.1	236.0	248.0	243.2	238.4	243.2	248.0	249.6
75°	185.8	187.4	192.2	196.2	208.1	220.1	216.1	211.3	215.3	219.3	220.1
77.5°	153.9	156.3	162.7	169.1	178.6	188.2	185.8	183.4	185.8	188.2	188.2
80°	120.4	122.8	130.8	138.0	143.5	149.1	149.9	150.7	151.5	152.3	151.5
82.5°	89.3	92.5	99.7	106.9	106.9	106.9	113.2	118.8	118.8	118.0	117.2
85°	55.0	59.0	65.4	71.8	67.8	63.8	74.2	83.7	83.7	82.9	81.3
87.5°	11.2	15.2	21.5	27.1	23.1	19.1	29.5	39.9	40.7	40.7	39.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320799
 CATALOG NUMBER: GLEON-SA5B-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: P320799

CATALOG NUMBER: GLEON-SA5B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7
2.5°	5096.6	5158.8	5220.2	5236.2	5260.1	5270.4	5280.0	5358.2	5435.5	5526.4	5617.3
5°	4082.2	4128.5	4174.7	4181.9	4206.6	4219.4	4232.1	4327.0	4421.1	4547.9	4674.7
7.5°	3076.6	3087.8	3099.0	3097.4	3118.1	3146.0	3173.1	3274.4	3374.9	3511.2	3646.8
10°	2330.2	2355.7	2380.4	2403.6	2449.0	2501.6	2553.5	2657.2	2760.8	2895.6	3029.6
12.5°	1846.1	1875.6	1904.3	1929.9	1982.5	2052.7	2122.1	2246.5	2370.9	2532.0	2692.2
15°	1507.2	1504.8	1502.4	1520.0	1566.2	1642.8	1718.5	1850.1	1981.7	2158.7	2335.0
17.5°	1189.0	1177.1	1165.1	1178.7	1221.7	1284.7	1346.9	1458.6	1569.4	1740.9	1912.3
20°	961.7	953.8	945.8	958.6	985.7	1012.0	1038.3	1118.8	1198.6	1338.1	1476.9
22.5°	846.1	845.3	843.7	850.9	863.7	877.2	890.0	929.0	967.3	1057.4	1146.8
25°	778.3	777.5	776.7	779.9	790.3	800.7	811.0	836.5	862.1	905.1	948.2
27.5°	724.1	722.5	720.9	721.7	724.1	740.0	755.2	767.2	778.3	807.8	836.5
30°	680.2	679.4	678.6	678.6	676.3	681.8	687.4	705.8	723.3	753.6	783.9
32.5°	642.8	638.8	634.8	626.0	620.4	628.4	636.4	655.5	674.7	702.6	730.5
35°	595.7	585.3	574.2	569.4	570.2	578.2	586.1	605.3	623.6	653.9	683.4
37.5°	544.7	541.5	537.5	536.7	539.1	547.1	555.0	571.8	587.7	618.0	647.5
40°	516.0	514.4	512.8	511.2	512.8	520.7	528.7	544.7	559.8	589.3	618.0
42.5°	490.4	489.6	488.8	488.8	489.6	498.4	507.2	523.1	538.3	564.6	590.9
45°	465.7	466.5	466.5	468.1	470.5	479.3	487.3	504.8	522.3	547.9	573.4
47.5°	442.6	445.0	446.6	450.6	453.0	462.5	471.3	490.4	509.6	541.5	572.6
50°	422.7	425.0	426.6	429.8	436.2	447.4	458.5	481.7	504.0	557.4	610.1
52.5°	404.3	406.7	409.1	412.3	420.3	433.0	445.8	474.5	502.4	564.6	626.8
55°	387.6	390.0	391.6	396.3	404.3	415.5	425.8	460.9	496.0	541.5	586.9
57.5°	371.6	374.0	375.6	378.8	382.8	394.7	405.9	443.4	480.9	512.8	543.9
60°	354.9	356.5	357.3	357.3	360.5	374.0	387.6	435.4	482.5	476.9	470.5
62.5°	336.5	338.1	338.9	336.5	340.5	354.9	369.2	431.4	493.6	455.4	417.1
65°	319.8	319.0	318.2	315.8	320.6	334.9	348.5	379.6	410.7	395.5	380.4
67.5°	301.4	299.0	296.7	293.5	298.3	311.0	323.0	333.3	343.7	345.3	346.9
70°	278.3	275.1	271.9	271.1	273.5	283.9	294.3	301.4	307.8	311.0	313.4
72.5°	251.2	248.8	246.4	244.8	245.6	254.4	262.4	268.7	275.1	277.5	279.1
75°	220.9	220.9	220.1	215.3	215.3	222.5	228.9	234.5	240.0	243.2	246.4
77.5°	188.2	189.0	189.0	182.6	181.8	189.0	195.4	200.2	204.2	207.3	209.7
80°	150.7	149.1	147.5	143.5	141.9	150.7	158.7	162.7	165.9	166.7	166.7
82.5°	115.6	112.4	108.5	99.7	100.5	110.1	118.8	122.0	125.2	125.2	125.2
85°	78.9	72.6	65.4	58.2	59.0	69.4	78.9	82.1	85.3	86.9	87.7
87.5°	37.5	31.1	23.9	18.3	18.3	27.1	35.1	36.7	38.3	41.5	44.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320799

CATALOG NUMBER: GLEON-SA5B-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: P320799

CATALOG NUMBER: GLEON-SA5B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7
2.5°	5686.7	5755.3	5826.3	5897.3	5978.6	6059.9	6154.8	6248.9	6329.5	6410.0	6477.0
5°	4784.0	4893.2	5021.6	5150.0	5313.5	5477.0	5677.2	5876.5	6054.4	6232.2	6438.7
7.5°	3789.6	3931.5	4099.0	4266.4	4477.8	4689.1	4948.3	5207.4	5458.7	5709.1	6026.4
10°	3178.7	3327.8	3492.9	3657.2	3872.5	4087.0	4361.3	4634.9	4917.2	5198.7	5557.5
12.5°	2858.1	3023.2	3168.3	3313.5	3488.1	3662.0	3927.5	4193.1	4524.8	4855.8	5201.1
15°	2516.0	2696.2	2870.1	3043.9	3234.5	3424.3	3682.7	3941.1	4303.9	4666.8	5063.9
17.5°	2102.1	2291.9	2504.0	2715.4	2964.2	3212.2	3543.1	3874.1	4303.9	4733.0	5201.1
20°	1670.7	1864.5	2118.1	2371.7	2681.1	2989.7	3418.7	3847.8	4426.7	5004.9	5602.2
22.5°	1318.2	1488.9	1765.6	2041.5	2398.8	2756.0	3306.3	3855.7	4612.5	5368.5	6174.8
25°	1068.6	1189.0	1461.0	1732.1	2144.4	2556.7	3237.7	3917.9	4882.9	5847.0	6847.0
27.5°	915.5	994.4	1248.0	1500.8	1951.4	2401.2	3209.8	4017.6	5225.8	6434.0	7578.3
30°	838.9	894.0	1108.5	1322.2	1779.9	2237.7	3176.3	4114.9	5555.9	6996.2	8150.1
32.5°	775.1	819.0	1002.4	1185.0	1631.6	2078.2	3111.7	4144.4	5786.4	7428.4	8634.2
35°	720.9	757.6	917.1	1076.6	1515.2	1953.8	3003.3	4052.7	5930.8	7808.8	9138.2
37.5°	677.0	705.8	853.3	1000.8	1414.7	1828.6	2879.6	3930.7	6059.1	8187.6	9705.2
40°	642.8	667.5	805.4	943.4	1319.0	1694.6	2773.6	3851.8	6236.2	8620.6	10304.1
42.5°	623.6	655.5	764.0	871.6	1228.1	1584.6	2688.3	3791.9	6400.5	9008.2	10828.0
45°	618.8	664.3	742.4	820.6	1160.3	1500.0	2612.5	3724.2	6506.5	9288.9	11222.7
47.5°	610.9	648.3	725.7	803.0	1126.8	1449.8	2571.8	3693.1	6612.6	9531.3	11550.5
50°	615.6	620.4	712.1	803.0	1122.0	1441.0	2618.1	3795.1	6842.3	9888.6	11925.3
52.5°	606.9	586.1	686.6	787.1	1121.2	1455.4	2751.3	4047.1	7268.9	10489.9	12331.2
55°	560.6	533.5	638.8	744.0	1104.5	1464.1	2910.0	4355.0	7841.5	11327.2	13060.9
57.5°	519.9	495.2	584.5	673.1	1053.5	1433.8	3073.4	4712.2	8446.8	12180.5	13883.1
60°	465.7	460.1	523.9	587.7	974.5	1360.5	3208.2	5055.1	8853.5	12651.0	14199.7
62.5°	421.1	424.3	471.3	518.4	875.6	1232.1	3252.9	5272.8	8842.3	12411.8	13880.7
65°	386.8	392.4	438.6	484.9	791.1	1097.3	3106.1	5114.1	8394.9	11674.9	13249.9
67.5°	353.3	359.7	414.7	468.9	716.1	962.5	2739.3	4515.2	7590.3	10664.5	12447.6
70°	321.4	329.4	389.2	449.0	661.9	874.0	2266.4	3658.8	6583.1	9506.6	11518.6
72.5°	287.1	295.1	358.9	422.7	627.6	831.8	1847.7	2862.9	5342.2	7820.7	9852.7
75°	252.0	257.6	327.0	395.5	580.6	765.6	1449.8	2133.2	4088.6	6044.0	7441.9
77.5°	216.9	224.1	282.3	339.7	492.8	645.1	1092.5	1539.9	3000.1	4459.4	5175.6
80°	173.1	179.4	220.9	261.6	380.4	498.4	751.2	1004.0	2064.6	3125.3	3528.8
82.5°	132.4	139.6	167.5	194.6	271.1	347.7	455.4	563.0	1371.6	2179.5	2213.0
85°	90.9	93.3	113.2	132.4	167.5	202.6	260.8	319.0	907.5	1496.0	1246.4
87.5°	45.5	45.5	59.0	72.6	90.1	107.7	138.0	167.5	290.3	413.1	237.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320799
 CATALOG NUMBER: GLEON-SA5B-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: P320799

CATALOG NUMBER: GLEON-SA5B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7
2.5°	6562.3	6620.6	6679.6	6724.2	6769.7	6835.1	6900.5	6912.4	6925.2	6899.7	6874.2
5°	6646.9	6823.1	7000.2	7163.6	7327.1	7425.2	7523.3	7543.2	7563.2	7501.8	7439.6
7.5°	6333.5	6640.5	6947.5	7229.0	7510.5	7681.2	7852.6	7890.9	7930.0	7829.5	7729.0
10°	5914.8	6292.0	6669.2	7040.0	7410.8	7658.9	7906.9	7956.3	8005.8	7880.6	7755.4
12.5°	5591.0	5993.8	6396.5	6787.2	7178.8	7435.6	7692.4	7753.8	7815.2	7724.3	7632.5
15°	5491.3	5870.1	6248.9	6589.5	6930.8	7140.5	7351.0	7375.8	7401.3	7386.9	7372.6
17.5°	5672.4	6014.5	6357.4	6542.4	6728.2	6812.0	6896.5	6923.6	6951.5	6987.4	7024.1
20°	6111.0	6351.8	6593.4	6585.5	6576.7	6536.0	6494.6	6487.4	6480.2	6583.1	6686.7
22.5°	6765.7	6861.4	6957.9	6733.8	6509.7	6373.3	6236.2	6209.1	6181.2	6290.4	6400.5
25°	7476.2	7458.7	7440.4	7013.7	6586.3	6326.3	6066.3	6036.0	6005.7	6099.0	6193.1
27.5°	8179.6	8064.8	7949.9	7370.2	6790.4	6413.2	6036.0	6005.7	5975.4	6058.3	6141.3
30°	8695.6	8511.3	8327.1	7670.8	7014.5	6566.3	6118.2	6068.7	6018.5	6120.5	6222.6
32.5°	9098.3	8851.1	8603.9	7914.8	7225.8	6741.0	6256.1	6178.8	6101.4	6237.8	6374.1
35°	9500.2	9152.5	8804.0	8132.6	7460.3	6947.5	6434.0	6339.1	6244.2	6431.6	6619.0
37.5°	10005.8	9506.6	9006.6	8377.4	7748.2	7256.9	6764.9	6667.6	6570.3	6808.8	7048.0
40°	10554.5	9888.6	9222.7	8645.3	8068.0	7685.2	7301.6	7209.1	7115.8	7406.1	7696.3
42.5°	11010.6	10244.2	9477.9	8968.3	8457.9	8188.4	7918.0	7917.2	7915.6	8209.9	8504.2
45°	11381.4	10540.9	9699.6	9283.3	8866.2	8725.9	8585.5	8698.0	8810.4	9076.0	9342.3
47.5°	11658.1	10789.7	9920.5	9643.8	9367.0	9387.8	9408.5	9637.4	9866.2	10036.9	10208.4
50°	11838.4	11015.4	10191.6	10106.3	10021.0	10206.8	10393.4	10655.7	10918.9	11035.3	11151.8
52.5°	12100.7	11321.6	10541.7	10637.4	10733.1	11112.7	11492.3	11757.8	12023.4	12066.5	12110.3
55°	12707.6	11884.6	11060.8	11244.3	11428.5	11985.1	12542.5	12749.9	12957.2	12973.2	12989.1
57.5°	13569.7	12673.3	11777.0	11974.7	12172.5	12815.3	13458.8	13682.1	13906.2	13875.1	13843.2
60°	14214.8	13422.1	12628.7	12828.0	13027.4	13654.2	14281.0	14537.8	14795.4	14726.8	14658.2
62.5°	14254.7	13831.2	13407.0	13587.2	13768.2	14382.3	14996.3	15260.3	15524.3	15404.6	15285.0
65°	13620.7	13810.5	14000.3	14060.1	14119.9	14692.5	15265.9	15467.6	15670.2	15609.6	15549.0
67.5°	12747.5	13446.9	14147.0	14026.6	13906.2	14174.9	14443.7	14651.8	14860.0	14825.7	14790.6
70°	11875.9	12809.7	13743.5	13151.8	12559.3	12448.4	12337.6	12561.7	12786.6	12647.8	12508.2
72.5°	10391.8	11387.0	12383.0	11292.9	10202.8	9824.0	9445.2	9729.9	10014.6	9793.7	9572.0
75°	8157.3	9257.0	10357.5	9056.8	7756.1	7250.6	6745.0	6989.8	7234.6	7083.1	6930.8
77.5°	6072.7	7156.5	8240.2	6918.0	5595.0	5219.4	4843.0	4915.6	4988.9	4963.4	4937.1
80°	4118.9	4874.1	5630.1	4749.7	3869.3	3898.0	3927.5	3893.2	3858.1	3909.2	3960.2
82.5°	2628.4	3211.4	3795.1	3327.8	2860.5	3128.5	3396.4	3264.8	3132.4	3181.1	3230.5
85°	1500.0	2070.2	2641.2	2461.8	2281.5	2437.9	2595.0	2390.8	2186.7	2276.0	2366.1
87.5°	395.5	1145.2	1895.6	1720.9	1546.3	1343.7	1141.2	870.8	600.5	877.2	1153.9
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: P320799
 CATALOG NUMBER: GLEON-SA5B-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: P320799

CATALOG NUMBER: GLEON-SA5B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7	6076.7
2.5°	6860.6	6847.0	6798.4	6749.0	6675.6	6615.0	6509.7
5°	7353.4	7267.3	7119.0	6969.8	6804.0	6613.4	6402.1
7.5°	7528.1	7326.3	7041.6	6756.1	6499.3	6197.9	5917.2
10°	7453.9	7151.7	6781.6	6410.8	6099.0	5752.1	5440.3
12.5°	7312.0	6990.6	6583.1	6174.8	5819.9	5447.5	5098.2
15°	7116.6	6859.8	6477.8	6095.8	5738.6	5376.5	4962.6
17.5°	6902.9	6780.8	6504.9	6228.2	5918.8	5567.9	5082.2
20°	6730.6	6775.3	6665.2	6555.2	6307.2	6000.9	5455.5
22.5°	6614.2	6828.7	6913.2	6998.6	6849.4	6610.2	5979.4
25°	6548.8	6904.5	7187.6	7471.5	7405.3	7221.1	6615.8
27.5°	6577.5	7013.7	7453.1	7893.3	7954.7	7903.7	7286.4
30°	6663.6	7105.4	7640.5	8176.4	8421.2	8489.8	7845.5
32.5°	6807.2	7240.2	7823.1	8406.9	8776.9	8995.4	8356.6
35°	7024.1	7429.2	8036.9	8644.5	9123.0	9521.7	8884.6
37.5°	7396.5	7745.0	8305.6	8867.0	9487.4	10086.3	9465.9
40°	7942.0	8188.4	8662.1	9136.6	9917.3	10725.9	10114.3
42.5°	8630.2	8757.0	9132.6	9508.2	10366.3	11306.5	10748.2
45°	9375.8	9409.3	9645.3	9882.2	10721.9	11702.0	11224.3
47.5°	10093.5	9978.7	10072.8	10166.9	10994.7	11984.3	11585.6
50°	10832.0	10512.2	10462.7	10413.3	11267.4	12316.9	12044.9
52.5°	11583.2	11056.1	10860.7	10664.5	11592.8	12757.9	12616.7
55°	12318.4	11647.8	11384.6	11121.5	12090.4	13296.1	13456.4
57.5°	13083.2	12323.2	12079.2	11835.2	12821.7	13978.0	14210.0
60°	13906.2	13153.4	12958.0	12761.8	13730.8	14714.8	14545.8
62.5°	14686.9	14088.8	13985.9	13882.3	14650.2	15281.0	14415.0
65°	15208.5	14867.1	14962.8	15059.3	15345.6	15422.2	14032.2
67.5°	14860.0	14929.4	15333.7	15738.8	15541.8	15002.7	13277.8
70°	12923.7	13340.0	14297.8	15256.3	14819.3	13879.1	11923.7
72.5°	10039.3	10507.4	11929.3	13352.0	12949.2	11797.7	9793.7
75°	7458.7	7987.4	9556.8	11126.2	10567.2	8824.8	7012.1
77.5°	5291.2	5645.3	7194.7	8745.0	7833.5	5874.1	4718.6
80°	3851.8	3743.3	4607.0	5470.6	5319.1	3885.3	3030.4
82.5°	2965.8	2701.0	3107.7	3514.4	3492.1	2696.2	2223.3
85°	2260.0	2154.0	2513.6	2873.3	2565.4	1826.2	1413.1
87.5°	1317.4	1481.7	1905.1	2329.4	1748.0	554.2	274.3
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: P320799
 CATALOG NUMBER: GLEON-SA5B-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.

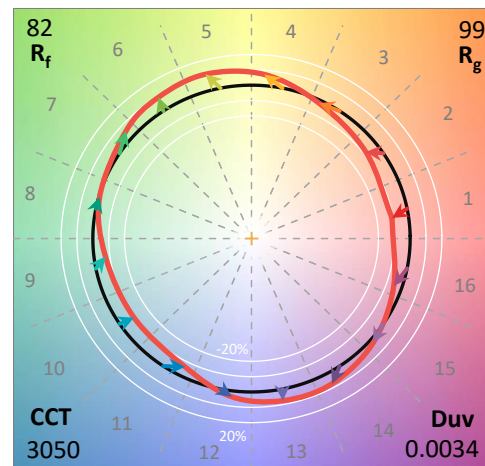
Test Information

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

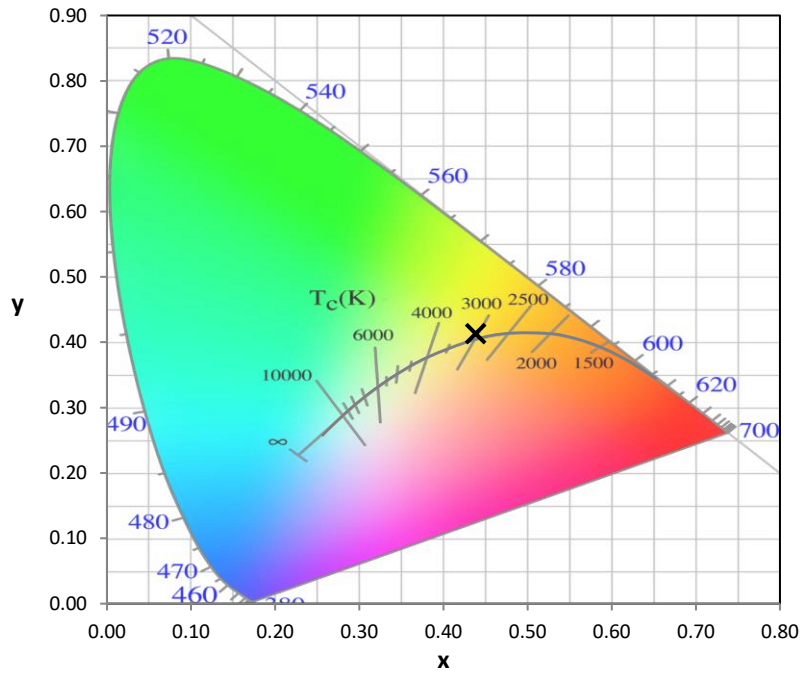
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

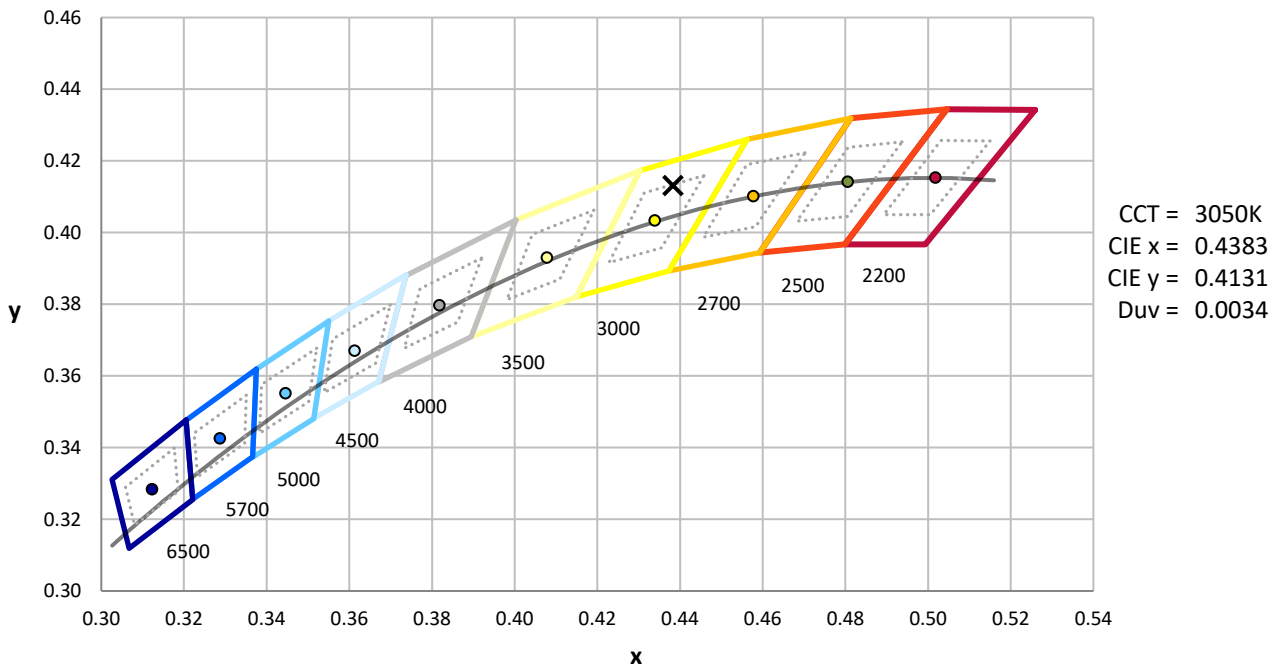
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



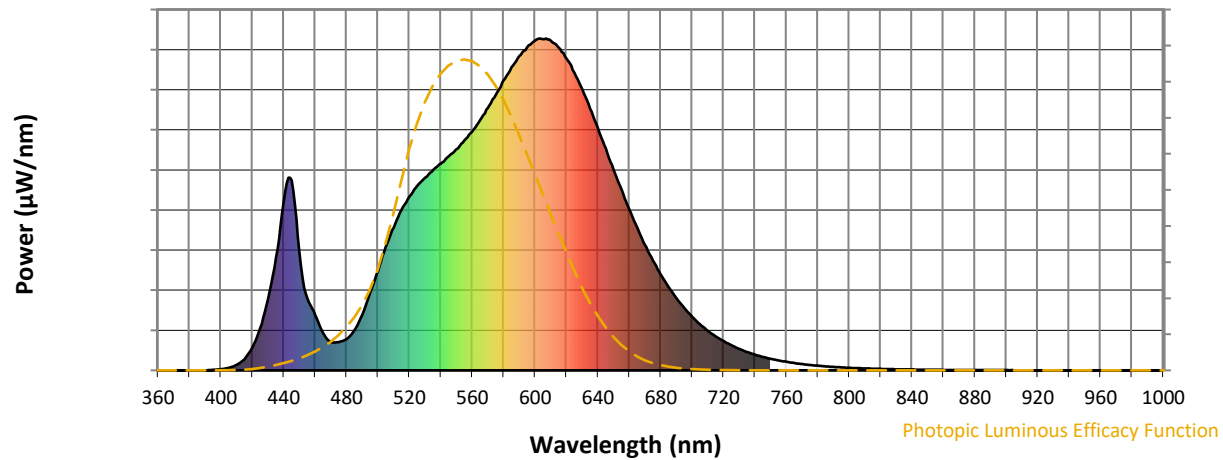
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

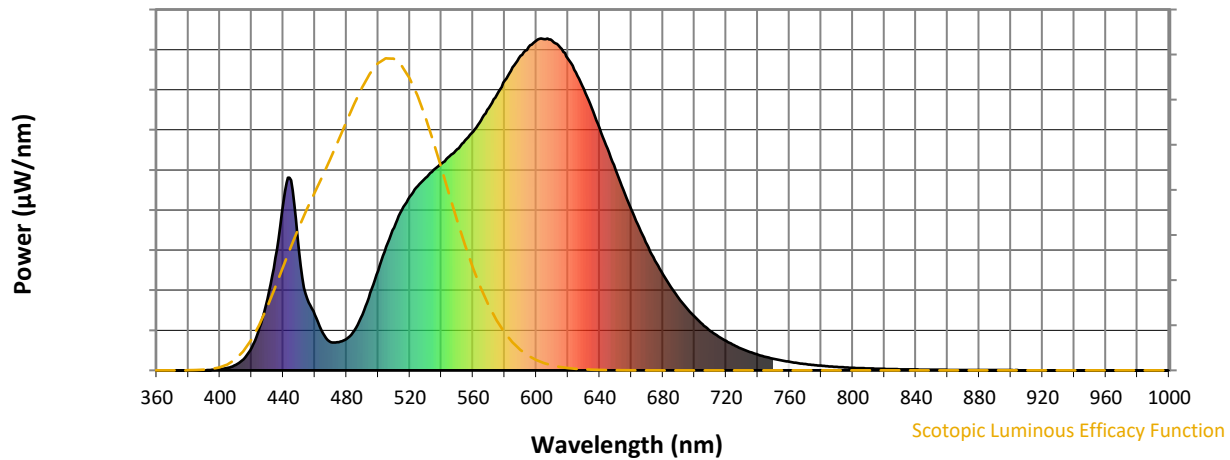


Photopic Lumens: NR

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



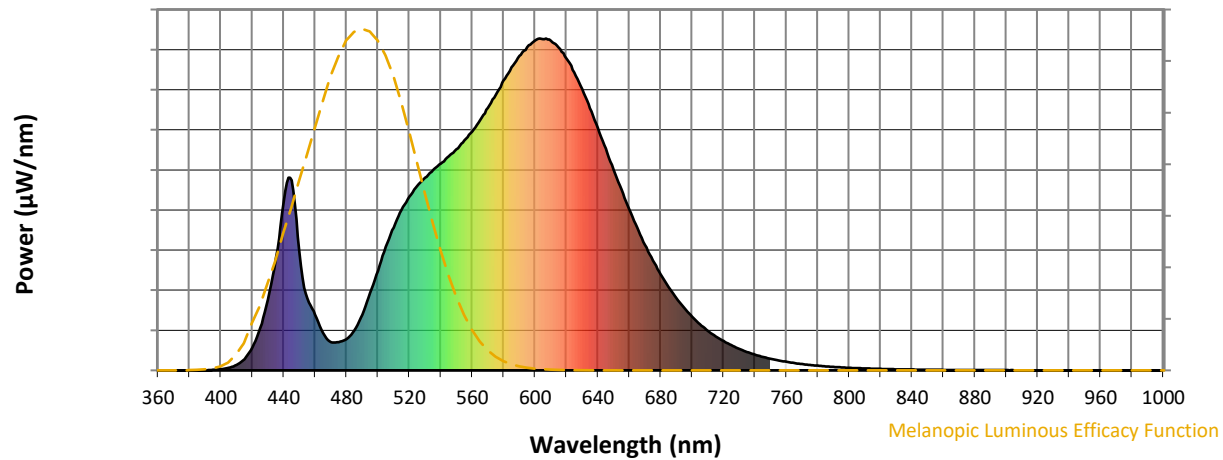
Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	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

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.32

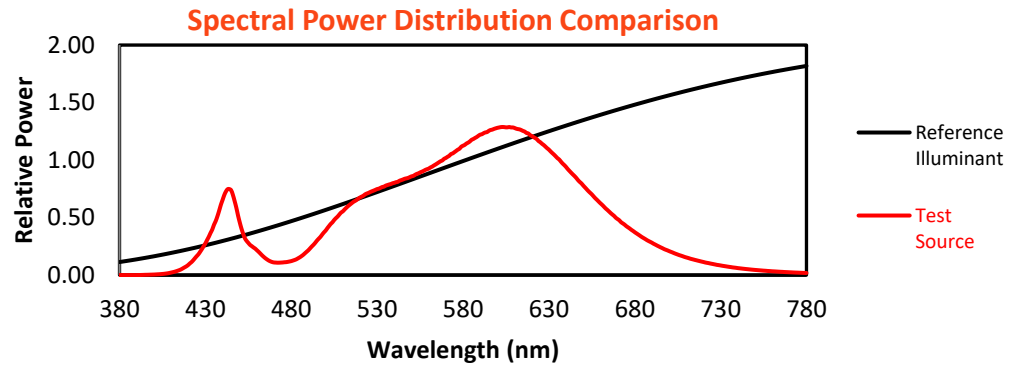
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	168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

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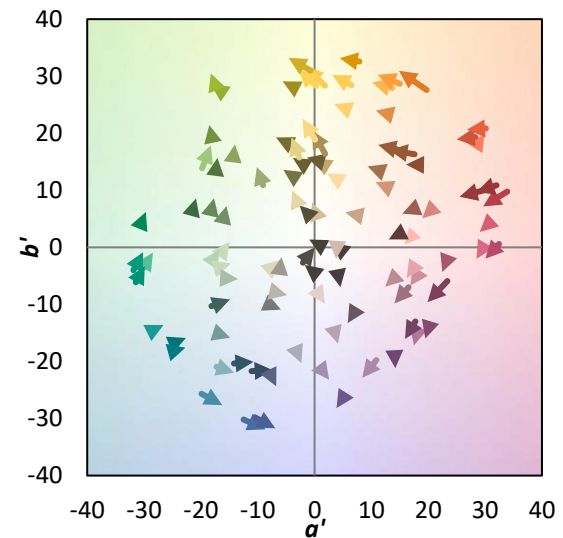
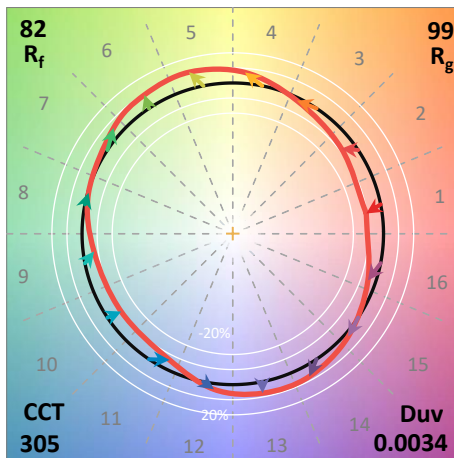
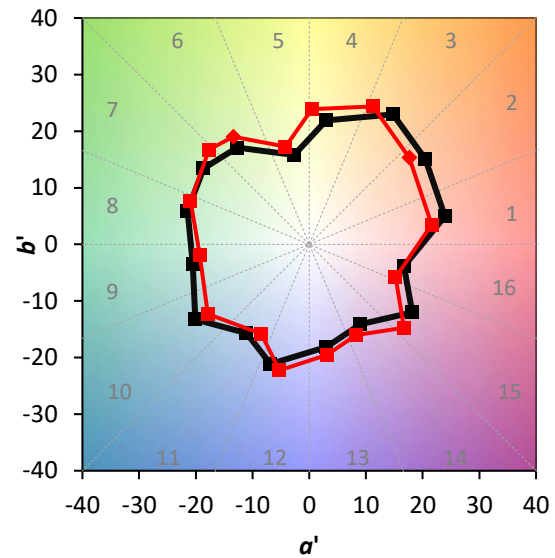
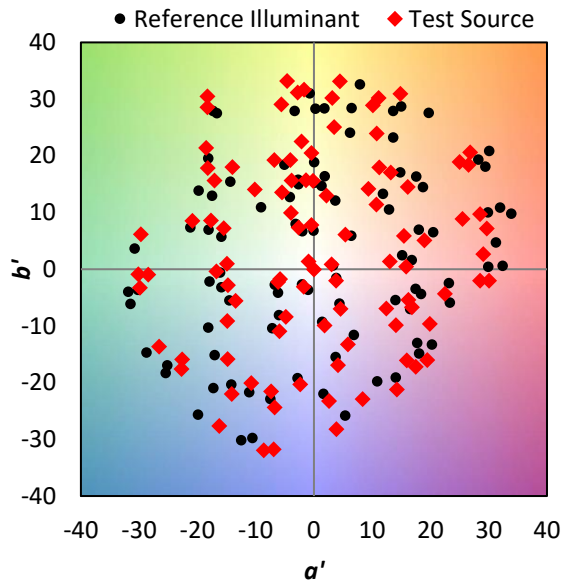
TM-30-18

Summary

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

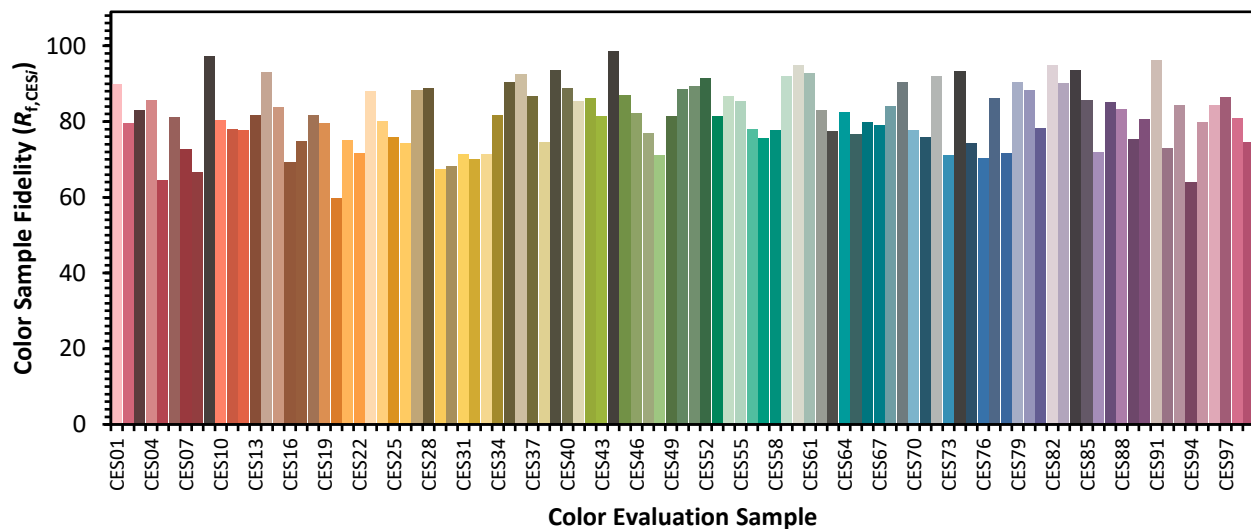


Color Vector Graphics

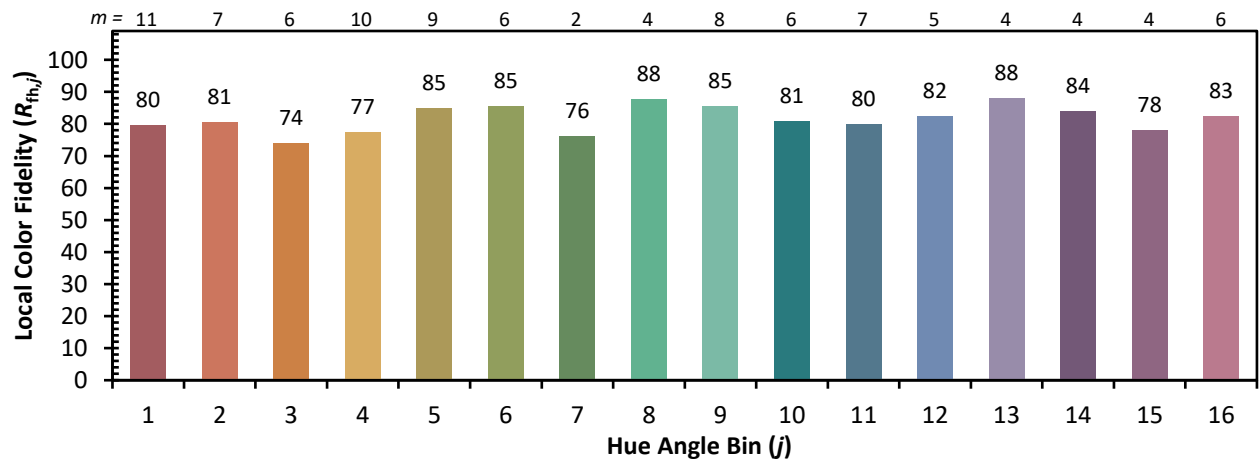
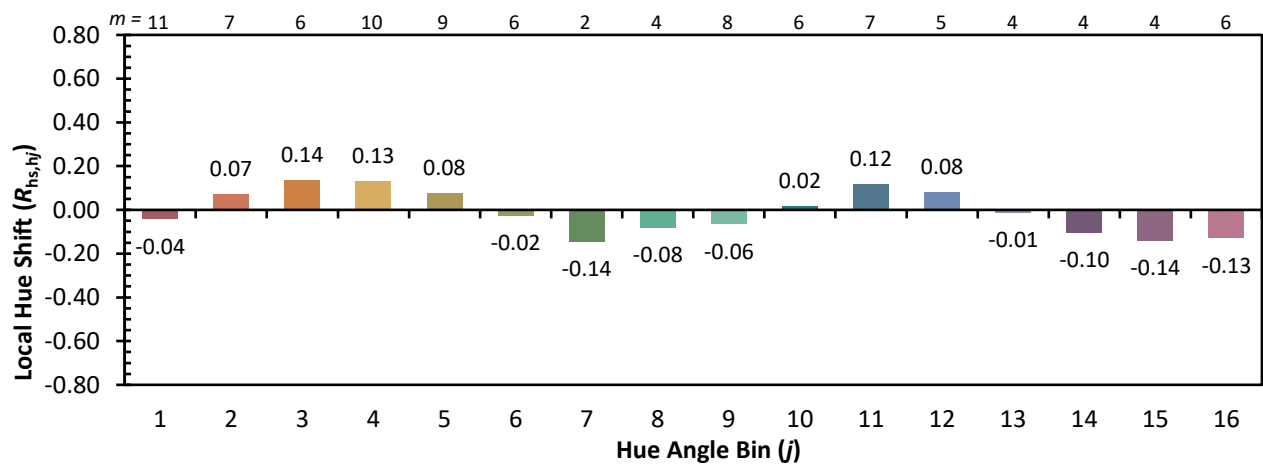
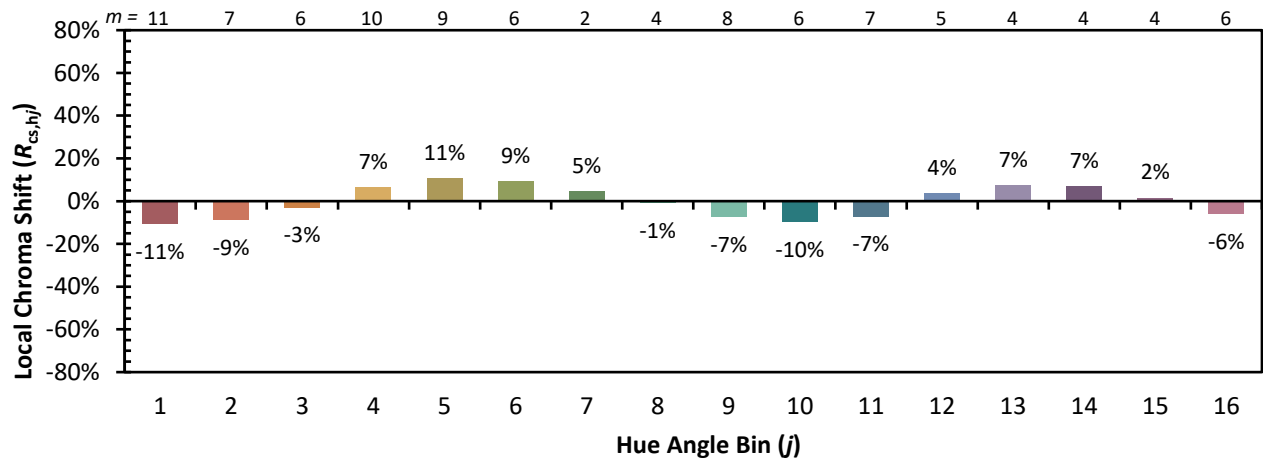


Individual Sample Fidelity Index ($R_{f,i}$)

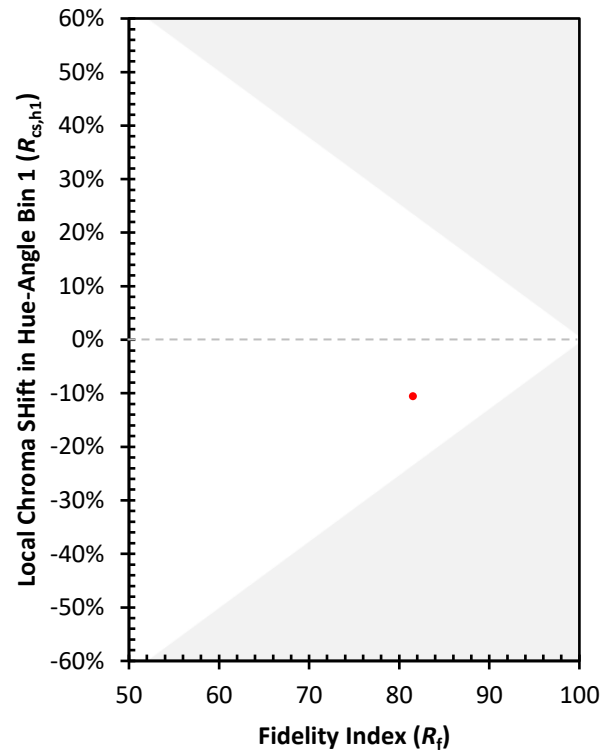
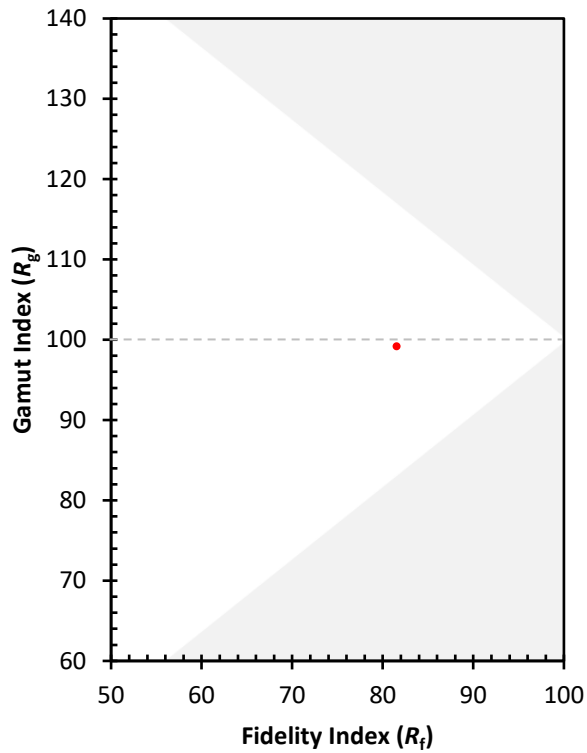
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)