

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: P320801

Luminaire Tested: **GLEON-SA7B-830-U-SLR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320801
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-SA7B-830-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 28227 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

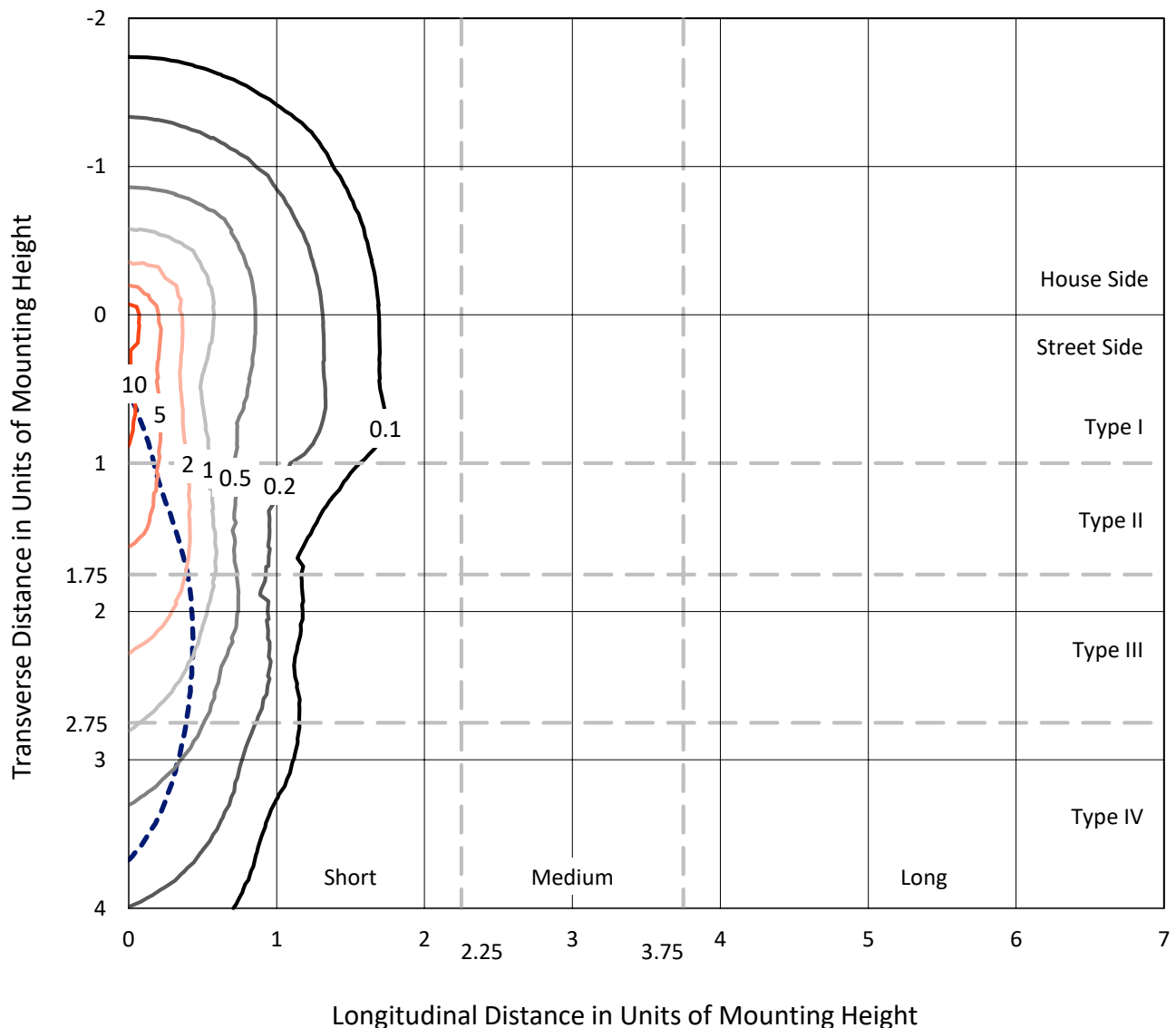
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

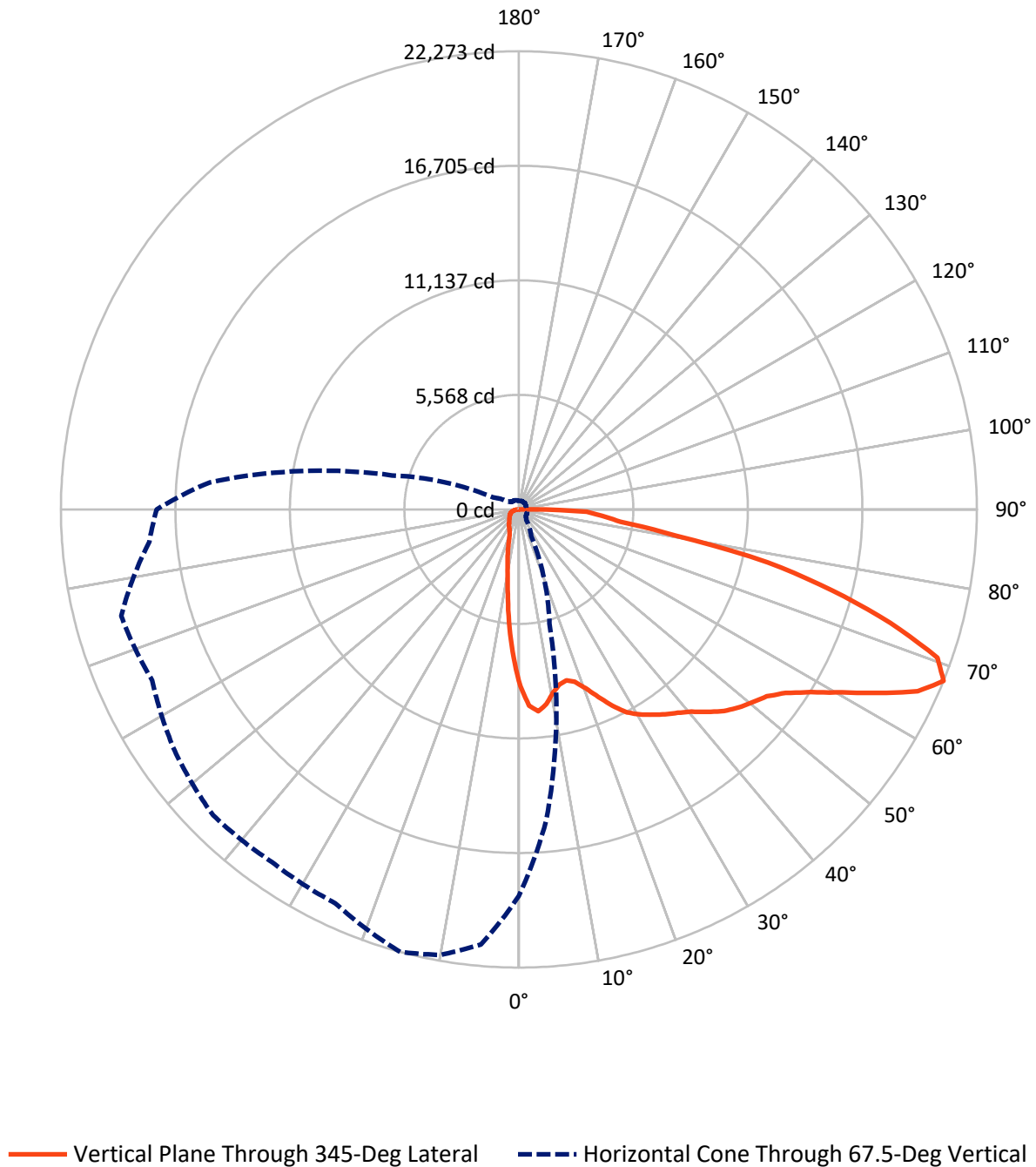
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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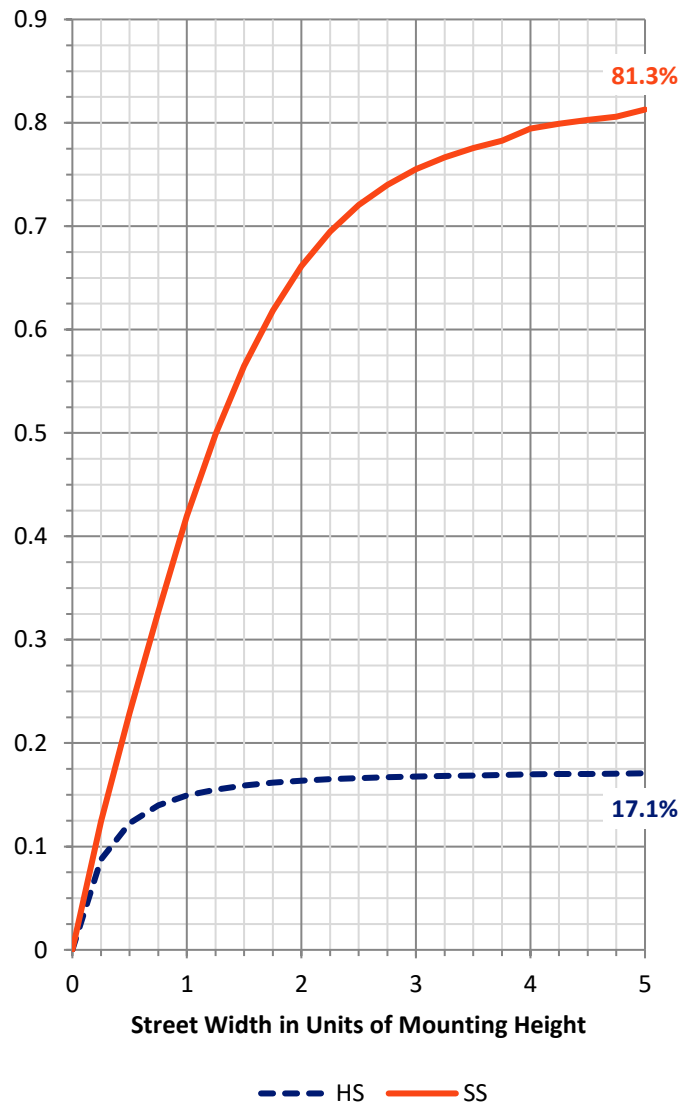
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4879.8	0.0	4879.8
	% Fixture	17.3	0.0	17.3
Street Side	Lumens	23347.2	0.0	23347.2
	% Fixture	82.7	0.0	82.7
Total	Lumens	28227.0	0.0	28227.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	663.7	2.4
10°-20°	1378.7	4.9
20°-30°	1960.9	6.9
30°-40°	2825.6	10.0
40°-50°	3982.1	14.1
50°-60°	5535.8	19.6
60°-70°	6694.4	23.7
70°-80°	4115.0	14.6
80°-90°	1070.7	3.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	28227.0	100.0
0°-180°	28227.0	100.0

Coefficient of Utilization



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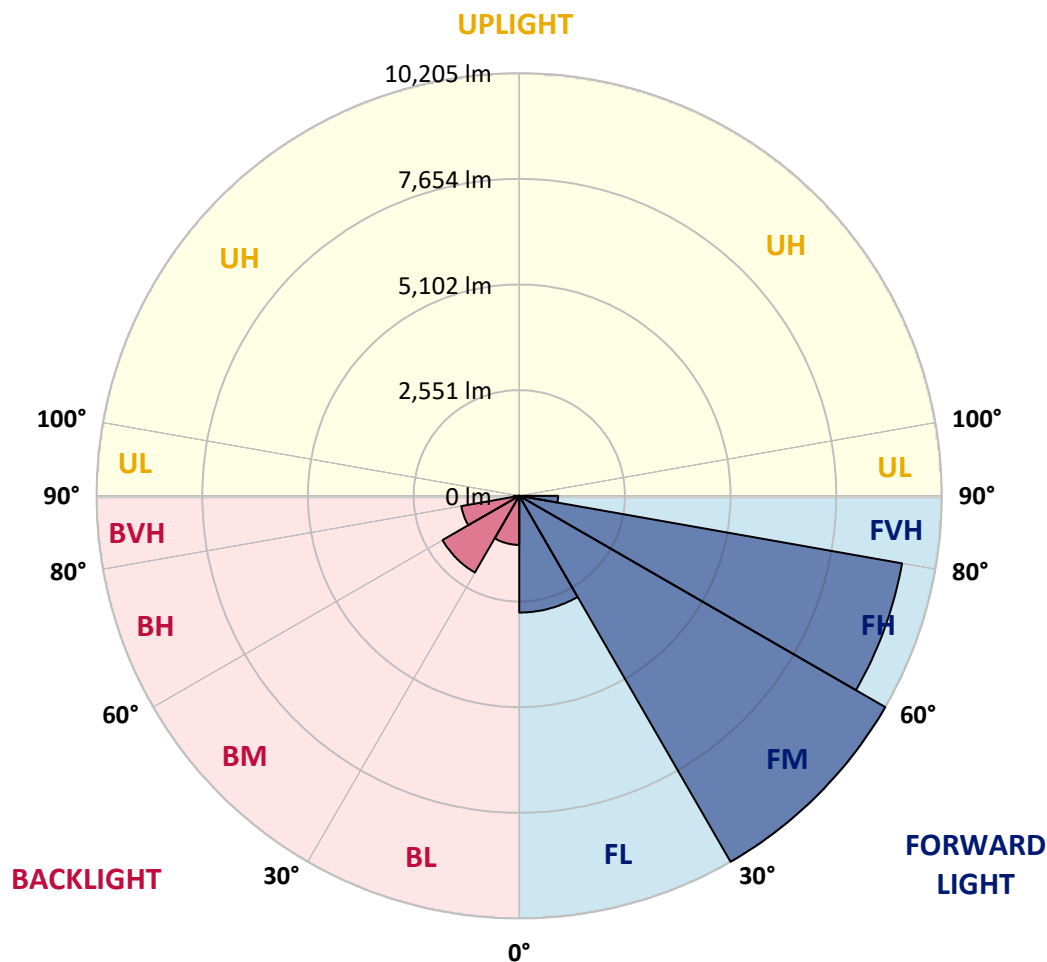
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2818.5	10.0			
FM	(30°-60°)	10204.8	36.2			
FH	(60°-80°)	9387.3	33.3			G4/12000
FVH	(80°-90°)	936.5	3.3			G5
BL	(0°-30°)	1184.8	4.2	B3/2500		
BM	(30°-60°)	2138.8	7.6	B2/2500		
BH	(60°-80°)	1422.1	5.0	B3/2500		G3/2500
BVH	(80°-90°)	134.2	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-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	8599.6	8599.6	8599.6	8599.6	8599.6	8599.6	8599.6	8599.6	8599.6	8599.6	8599.6
2.5°	9212.4	9131.1	9008.1	8885.1	8793.7	8701.1	8596.2	8491.2	8371.6	8250.8	8179.7
5°	9060.0	8834.3	8540.9	8247.4	8053.3	7859.2	7639.2	7419.1	7201.3	6983.5	6866.1
7.5°	8373.8	8035.3	7653.8	7272.4	6990.2	6707.0	6402.3	6096.4	5825.6	5553.6	5385.4
10°	7699.0	7292.7	6854.8	6415.8	6054.7	5693.5	5387.7	5080.7	4876.5	4672.2	4517.6
12.5°	7214.8	6764.5	6282.6	5799.6	5438.5	5077.3	4883.2	4689.1	4519.8	4350.6	4172.2
15°	7023.0	6514.0	6020.8	5526.5	5198.1	4869.7	4654.1	4437.5	4210.6	3982.7	3763.7
17.5°	7192.2	6596.4	6060.3	5524.3	5094.3	4664.3	4363.0	4060.5	3761.5	3462.4	3208.5
20°	7720.4	6959.8	6258.9	5557.0	4984.8	4412.6	4008.6	3603.5	3219.8	2836.0	2548.3
22.5°	8461.9	7455.2	6539.9	5624.7	4885.5	4145.2	3638.4	3130.6	2676.9	2223.2	1941.1
25°	9362.5	8112.0	6945.1	5777.0	4844.9	3911.6	3288.6	2665.6	2187.1	1707.5	1506.6
27.5°	10311.6	8895.2	7448.4	6000.5	4851.6	3702.8	2994.0	2284.2	1853.1	1422.0	1284.3
30°	11102.7	9790.2	8035.3	6279.3	4877.6	3475.9	2716.4	1956.9	1601.4	1245.9	1156.8
32.5°	11826.1	10414.3	8477.7	6539.9	4906.9	3272.8	2502.0	1730.1	1440.0	1148.9	1075.5
35°	12573.2	10968.4	8786.9	6604.3	4856.2	3106.9	2355.3	1603.7	1336.2	1067.6	1005.5
37.5°	13395.9	11567.6	9084.8	6600.9	4770.4	2939.9	2241.3	1541.6	1268.5	994.3	949.1
40°	14313.4	12230.1	9407.6	6585.1	4692.5	2798.8	2156.7	1513.4	1231.2	948.0	909.6
42.5°	15210.6	12862.1	9707.8	6553.5	4629.3	2704.0	2073.1	1442.3	1197.4	951.4	897.2
45°	15884.3	13413.9	9968.5	6521.9	4581.9	2641.9	2007.7	1373.4	1165.8	958.1	889.3
47.5°	16395.6	13968.1	10257.4	6545.6	4577.4	2609.2	1961.4	1313.6	1106.0	897.2	869.0
50°	17045.6	14633.9	10678.3	6722.8	4639.5	2556.2	1907.2	1257.2	1048.4	839.6	878.0
52.5°	17854.8	15584.1	11330.6	7076.0	4769.3	2462.5	1821.5	1180.5	978.5	775.3	835.1
55°	19043.2	16801.9	12164.6	7526.3	4926.1	2324.8	1691.7	1057.5	885.9	713.2	766.3
57.5°	20109.6	18032.0	12964.8	7896.5	5024.3	2151.0	1528.1	905.1	782.1	659.1	689.5
60°	20584.8	18666.2	13339.5	8011.6	4965.6	1919.7	1344.1	767.4	690.7	613.9	608.3
62.5°	20399.7	18263.3	12970.4	7677.5	4679.0	1680.4	1181.6	682.8	625.2	566.5	554.1
65°	19858.0	16997.1	11936.7	6876.3	4194.8	1513.4	1078.9	644.4	580.1	515.7	502.2
67.5°	18790.4	15194.8	10471.8	5748.8	3579.8	1410.7	1020.2	629.7	551.9	472.9	457.1
70°	16874.1	13025.7	8784.6	4542.4	2945.5	1347.5	981.8	616.2	521.4	425.5	410.8
72.5°	13859.7	10443.6	7015.1	3585.4	2462.5	1339.6	977.3	615.1	496.6	378.1	364.5
75°	9923.3	7932.6	5355.0	2776.2	2016.7	1257.2	927.7	598.1	462.7	326.2	313.7
77.5°	6677.6	5490.4	3722.0	1952.4	1496.5	1040.5	779.8	519.1	396.1	273.1	260.7
80°	4288.5	3799.8	2494.1	1188.4	970.6	752.7	557.5	362.3	288.9	214.4	204.3
82.5°	3146.4	2828.1	1733.5	638.8	539.4	439.0	340.8	242.6	197.5	152.4	147.8
85°	1999.8	2205.2	1276.4	347.6	284.4	221.2	182.8	144.5	114.0	83.5	83.5
87.5°	388.2	537.2	353.2	168.2	123.0	77.9	66.6	54.2	30.5	5.6	6.8
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°	8599.6	8599.6	8599.6	8599.6	8599.6	8599.6	8599.6	8599.6	8599.6	8599.6	8599.6
2.5°	8107.5	8029.6	7951.8	7863.7	7774.6	7692.2	7608.7	7517.3	7534.2	7464.2	7394.3
5°	6748.7	6624.6	6499.3	6391.0	6282.6	6189.0	6094.2	6009.5	6082.9	6033.2	5983.6
7.5°	5216.2	5062.7	4908.1	4778.3	4648.5	4548.1	4446.5	4376.5	4448.7	4439.7	4430.7
10°	4363.0	4214.0	4063.9	3920.6	3777.3	3655.4	3532.4	3428.5	3410.5	3358.6	3305.5
12.5°	3992.8	3788.5	3583.1	3433.0	3283.0	3137.4	2991.8	2869.9	2814.6	2728.8	2641.9
15°	3544.8	3303.3	3061.8	2891.3	2719.8	2578.7	2436.5	2331.6	2296.6	2230.0	2163.4
17.5°	2954.5	2690.5	2426.4	2253.7	2079.9	1967.1	1853.1	1783.1	1783.1	1763.9	1744.7
20°	2260.5	2024.6	1788.8	1656.7	1524.7	1464.9	1403.9	1374.6	1383.6	1384.7	1384.7
22.5°	1657.8	1513.4	1368.9	1315.9	1261.7	1240.3	1218.8	1206.4	1210.9	1212.1	1213.2
25°	1305.7	1250.4	1194.0	1166.9	1138.7	1125.2	1111.6	1107.1	1117.3	1118.4	1118.4
27.5°	1146.6	1112.8	1077.8	1060.8	1042.8	1037.1	1031.5	1023.6	1033.8	1033.8	1032.6
30°	1066.5	1030.4	994.3	972.8	951.4	953.6	954.8	952.5	959.3	963.8	967.2
32.5°	1001.0	966.0	931.1	909.6	887.0	883.7	880.3	878.0	892.7	900.6	908.5
35°	942.3	904.0	865.6	845.3	825.0	817.1	809.2	803.5	817.1	827.2	837.4
37.5°	902.8	863.3	822.7	803.5	783.2	773.1	762.9	756.1	761.8	766.3	770.8
40°	871.2	830.6	788.9	766.3	743.7	733.6	723.4	717.8	721.1	722.3	723.4
42.5°	841.9	802.4	762.9	738.1	712.1	699.7	687.3	680.5	682.8	685.0	686.2
45°	820.5	781.0	740.3	711.0	680.5	667.0	653.4	645.5	646.7	646.7	646.7
47.5°	840.8	783.2	724.5	690.7	655.7	639.9	624.1	616.2	613.9	611.7	609.4
50°	915.3	817.1	717.8	674.9	630.9	613.9	595.9	586.8	581.2	578.9	576.7
52.5°	893.8	809.2	723.4	668.1	611.7	591.4	571.0	556.4	550.7	547.3	544.0
55°	818.2	765.2	711.0	644.4	577.8	559.8	540.6	530.4	520.3	518.0	515.7
57.5°	718.9	697.4	676.0	608.3	540.6	523.6	505.6	498.8	489.8	489.8	488.7
60°	601.5	633.1	664.7	586.8	507.8	488.7	469.5	463.8	460.4	459.3	458.2
62.5°	540.6	592.5	643.3	560.9	477.4	457.1	436.7	430.0	428.8	430.0	430.0
65°	488.7	504.5	520.3	481.9	443.5	423.2	401.8	395.0	397.2	400.6	404.0
67.5°	441.3	437.9	434.5	420.9	406.3	389.3	371.3	364.5	365.7	370.2	374.7
70°	396.1	391.6	386.0	375.8	365.7	351.0	336.3	331.8	330.7	336.3	340.8
72.5°	351.0	345.3	338.6	330.7	321.6	309.2	296.8	293.4	294.6	297.9	301.3
75°	301.3	296.8	291.2	284.4	276.5	265.2	253.9	251.7	253.9	257.3	260.7
77.5°	247.2	246.0	243.8	238.1	232.5	220.1	206.5	205.4	208.8	212.2	214.4
80°	193.0	194.1	195.2	190.7	186.2	172.7	158.0	156.9	160.3	163.6	167.0
82.5°	142.2	145.6	147.8	142.2	136.6	120.8	105.0	102.7	114.0	117.4	120.8
85°	82.4	86.9	91.4	86.9	82.4	66.6	50.8	49.7	59.8	65.5	71.1
87.5°	6.8	9.0	11.3	10.2	9.0	4.5	0.0	0.0	1.1	5.6	10.2
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: P320801
 CATALOG NUMBER: GLEON-SA7B-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: P320801

CATALOG NUMBER: GLEON-SA7B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	8599.6	8599.6	8599.6	8599.6	8599.6	8599.6	8599.6	8599.6	8599.6	8599.6	8599.6
2.5°	7350.2	7306.2	7292.7	7279.1	7229.5	7178.7	7230.6	7281.4	7302.8	7324.3	7269.0
5°	5976.8	5968.9	5968.9	5967.8	5922.6	5876.4	5911.3	5945.2	5869.6	5794.0	5786.1
7.5°	4479.2	4527.7	4567.2	4605.6	4590.9	4576.3	4609.0	4641.7	4545.8	4448.7	4401.3
10°	3316.8	3327.0	3369.9	3412.7	3422.9	3431.9	3472.5	3512.0	3437.6	3363.1	3330.4
12.5°	2587.8	2533.6	2539.2	2543.8	2564.1	2583.3	2626.1	2667.9	2637.4	2605.8	2609.2
15°	2095.7	2026.9	1998.7	1969.3	1991.9	2014.5	2044.9	2074.3	2075.4	2075.4	2104.7
17.5°	1710.9	1675.9	1647.7	1618.3	1648.8	1678.2	1681.5	1684.9	1686.1	1687.2	1684.9
20°	1401.7	1418.6	1409.6	1400.5	1411.8	1422.0	1431.0	1438.9	1428.7	1417.5	1389.2
22.5°	1229.0	1243.7	1254.9	1265.1	1284.3	1302.3	1293.3	1283.2	1262.8	1241.4	1220.0
25°	1128.6	1138.7	1150.0	1161.3	1177.1	1191.7	1175.9	1160.1	1145.5	1130.8	1116.1
27.5°	1043.9	1054.1	1064.2	1073.3	1087.9	1101.5	1086.8	1072.1	1059.7	1047.3	1036.0
30°	975.1	981.8	989.7	997.6	1011.2	1023.6	1011.2	997.6	988.6	978.5	970.6
32.5°	916.4	923.2	926.5	929.9	942.3	954.8	945.7	936.7	928.8	920.9	915.3
35°	852.1	865.6	867.9	870.1	882.5	894.9	889.3	882.5	873.5	864.5	854.3
37.5°	786.6	802.4	811.4	819.3	831.7	844.2	838.5	832.9	820.5	808.0	790.0
40°	731.3	738.1	755.0	770.8	791.1	810.3	799.0	786.6	767.4	748.2	739.2
42.5°	685.0	683.9	699.7	715.5	746.0	775.3	755.0	734.7	716.6	698.6	696.3
45°	644.4	641.0	648.9	656.8	689.5	721.1	700.8	679.4	669.2	659.1	659.1
47.5°	608.3	606.0	611.7	616.2	636.5	655.7	645.5	635.4	629.7	624.1	625.2
50°	575.6	573.3	578.9	583.5	591.4	598.1	600.4	601.5	598.1	594.7	597.0
52.5°	545.1	545.1	547.3	548.5	558.6	568.8	568.8	567.7	567.7	567.7	569.9
55°	519.1	521.4	521.4	521.4	537.2	551.9	547.3	542.8	544.0	544.0	546.2
57.5°	493.2	496.6	498.8	501.1	516.9	532.7	528.2	523.6	523.6	523.6	524.8
60°	463.8	468.3	472.9	477.4	493.2	509.0	504.5	498.8	499.9	501.1	502.2
62.5°	435.6	440.1	444.6	449.2	465.0	480.8	476.2	470.6	474.0	476.2	476.2
65°	408.5	411.9	416.4	420.9	435.6	450.3	445.8	441.3	445.8	449.2	451.4
67.5°	378.1	380.3	384.8	389.3	404.0	418.7	414.2	408.5	414.2	418.7	423.2
70°	343.1	345.3	351.0	355.5	370.2	384.8	379.2	373.6	379.2	384.8	389.3
72.5°	304.7	307.0	312.6	317.1	334.1	351.0	344.2	337.4	344.2	351.0	353.2
75°	263.0	265.2	272.0	277.6	294.6	311.5	305.8	299.1	304.7	310.4	311.5
77.5°	217.8	221.2	230.2	239.3	252.8	266.3	263.0	259.6	263.0	266.3	266.3
80°	170.4	173.8	185.1	195.2	203.1	211.0	212.2	213.3	214.4	215.6	214.4
82.5°	126.4	130.9	141.1	151.2	151.2	151.2	160.3	168.2	168.2	167.0	165.9
85°	77.9	83.5	92.5	101.6	95.9	90.3	105.0	118.5	118.5	117.4	115.1
87.5°	15.8	21.4	30.5	38.4	32.7	27.1	41.8	56.4	57.6	57.6	55.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320801

CATALOG NUMBER: GLEON-SA7B-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: P320801

CATALOG NUMBER: GLEON-SA7B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	8599.6	8599.6	8599.6	8599.6	8599.6	8599.6	8599.6	8599.6	8599.6	8599.6	8599.6
2.5°	7212.6	7300.6	7387.5	7410.1	7443.9	7458.6	7472.1	7582.7	7692.2	7820.9	7949.5
5°	5777.0	5842.5	5908.0	5918.1	5953.1	5971.2	5989.2	6123.5	6256.7	6436.1	6615.6
7.5°	4353.9	4369.7	4385.5	4383.3	4412.6	4452.1	4490.5	4633.8	4776.0	4969.0	5160.9
10°	3297.6	3333.7	3368.7	3401.4	3465.8	3540.3	3613.6	3760.3	3907.0	4097.8	4287.4
12.5°	2612.6	2654.3	2695.0	2731.1	2805.6	2904.9	3003.1	3179.1	3355.2	3583.1	3810.0
15°	2133.0	2129.6	2126.2	2151.0	2216.5	2324.8	2432.0	2618.2	2804.4	3055.0	3304.4
17.5°	1682.7	1665.7	1648.8	1668.0	1728.9	1818.1	1906.1	2064.1	2221.0	2463.6	2706.3
20°	1361.0	1349.7	1338.5	1356.5	1394.9	1432.1	1469.4	1583.4	1696.2	1893.7	2090.1
22.5°	1197.4	1196.3	1194.0	1204.2	1222.2	1241.4	1259.5	1314.8	1368.9	1496.5	1622.9
25°	1101.5	1100.3	1099.2	1103.7	1118.4	1133.1	1147.7	1183.8	1220.0	1280.9	1341.8
27.5°	1024.7	1022.5	1020.2	1021.3	1024.7	1047.3	1068.7	1085.7	1101.5	1143.2	1183.8
30°	962.7	961.5	960.4	960.4	957.0	964.9	972.8	998.8	1023.6	1066.5	1109.4
32.5°	909.6	904.0	898.3	885.9	878.0	889.3	900.6	927.7	954.8	994.3	1033.8
35°	843.0	828.4	812.6	805.8	806.9	818.2	829.5	856.6	882.5	925.4	967.2
37.5°	770.8	766.3	760.6	759.5	762.9	774.2	785.5	809.2	831.7	874.6	916.4
40°	730.2	727.9	725.7	723.4	725.7	736.9	748.2	770.8	792.2	834.0	874.6
42.5°	694.1	692.9	691.8	691.8	692.9	705.3	717.8	740.3	761.8	799.0	836.3
45°	659.1	660.2	660.2	662.5	665.8	678.3	689.5	714.4	739.2	775.3	811.4
47.5°	626.3	629.7	632.0	637.6	641.0	654.6	667.0	694.1	721.1	766.3	810.3
50°	598.1	601.5	603.8	608.3	617.3	633.1	648.9	681.6	713.2	788.9	863.3
52.5°	572.2	575.6	578.9	583.5	594.7	612.8	630.9	671.5	711.0	799.0	887.0
55°	548.5	551.9	554.1	560.9	572.2	588.0	602.6	652.3	702.0	766.3	830.6
57.5°	525.9	529.3	531.5	536.1	541.7	558.6	574.4	627.5	680.5	725.7	769.7
60°	502.2	504.5	505.6	505.6	510.1	529.3	548.5	616.2	682.8	674.9	665.8
62.5°	476.2	478.5	479.6	476.2	481.9	502.2	522.5	610.5	698.6	644.4	590.2
65°	452.5	451.4	450.3	446.9	453.7	474.0	493.2	537.2	581.2	559.8	538.3
67.5°	426.6	423.2	419.8	415.3	422.1	440.1	457.1	471.7	486.4	488.7	490.9
70°	393.9	389.3	384.8	383.7	387.1	401.8	416.4	426.6	435.6	440.1	443.5
72.5°	355.5	352.1	348.7	346.5	347.6	360.0	371.3	380.3	389.3	392.7	395.0
75°	312.6	312.6	311.5	304.7	304.7	314.9	323.9	331.8	339.7	344.2	348.7
77.5°	266.3	267.5	267.5	258.4	257.3	267.5	276.5	283.3	288.9	293.4	296.8
80°	213.3	211.0	208.8	203.1	200.9	213.3	224.6	230.2	234.7	235.9	235.9
82.5°	163.6	159.1	153.5	141.1	142.2	155.7	168.2	172.7	177.2	177.2	177.2
85°	111.7	102.7	92.5	82.4	83.5	98.2	111.7	116.2	120.8	123.0	124.1
87.5°	53.0	44.0	33.9	26.0	26.0	38.4	49.7	51.9	54.2	58.7	63.2
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: P320801
 CATALOG NUMBER: GLEON-SA7B-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: P320801

CATALOG NUMBER: GLEON-SA7B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	8599.6	8599.6	8599.6	8599.6	8599.6	8599.6	8599.6	8599.6	8599.6	8599.6	8599.6
2.5°	8047.7	8144.7	8245.2	8345.6	8460.7	8575.9	8710.1	8843.3	8957.3	9071.3	9166.1
5°	6770.2	6924.8	7106.5	7288.2	7519.5	7750.9	8034.1	8316.3	8568.0	8819.6	9111.9
7.5°	5362.9	5563.8	5800.7	6037.7	6336.8	6635.9	7002.7	7369.4	7724.9	8079.3	8528.5
10°	4498.4	4709.4	4943.0	5175.5	5480.2	5783.8	6172.0	6559.1	6958.6	7357.0	7864.9
12.5°	4044.7	4278.3	4483.7	4689.1	4936.3	5182.3	5558.1	5933.9	6403.4	6871.7	7360.4
15°	3560.6	3815.6	4061.7	4307.7	4577.4	4846.0	5211.6	5577.3	6090.8	6604.3	7166.3
17.5°	2974.9	3243.5	3543.6	3842.7	4194.8	4545.8	5014.1	5482.5	6090.8	6697.9	7360.4
20°	2364.3	2638.5	2997.4	3356.3	3794.2	4230.9	4838.1	5445.3	6264.6	7082.8	7928.1
22.5°	1865.5	2107.0	2498.6	2889.1	3394.7	3900.3	4679.0	5456.5	6527.5	7597.4	8738.4
25°	1512.3	1682.7	2067.5	2451.2	3034.7	3618.1	4581.9	5544.6	6910.1	8274.5	9689.7
27.5°	1295.6	1407.3	1766.2	2123.9	2761.6	3398.1	4542.4	5685.6	7395.4	9105.1	10724.6
30°	1187.2	1265.1	1568.7	1871.1	2518.9	3166.7	4495.0	5823.3	7862.6	9900.8	11533.8
32.5°	1097.0	1159.0	1418.6	1677.0	2309.0	2941.0	4403.6	5865.1	8188.8	10512.4	12218.8
35°	1020.2	1072.1	1297.8	1523.5	2144.2	2764.9	4250.1	5735.3	8393.0	11050.8	12932.1
37.5°	958.1	998.8	1207.5	1416.3	2002.0	2587.8	4075.2	5562.6	8574.7	11586.8	13734.5
40°	909.6	944.6	1139.8	1335.1	1866.6	2398.2	3925.1	5450.9	8825.3	12199.6	14582.0
42.5°	882.5	927.7	1081.2	1233.5	1738.0	2242.4	3804.3	5366.3	9057.7	12748.1	15323.5
45°	875.8	940.1	1050.7	1161.3	1642.0	2122.8	3697.1	5270.3	9207.8	13145.4	15882.1
47.5°	864.5	917.5	1027.0	1136.4	1594.6	2051.7	3639.6	5226.3	9357.9	13488.4	16345.9
50°	871.2	878.0	1007.8	1136.4	1587.9	2039.3	3705.0	5370.8	9683.0	13994.0	16876.3
52.5°	858.8	829.5	971.7	1113.9	1586.7	2059.6	3893.5	5727.4	10286.7	14844.9	17450.8
55°	793.4	755.0	904.0	1052.9	1563.0	2072.0	4118.1	6163.0	11097.0	16029.9	18483.4
57.5°	735.8	700.8	827.2	952.5	1490.8	2029.1	4349.4	6668.6	11953.6	17237.5	19646.9
60°	659.1	651.2	741.5	831.7	1379.1	1925.3	4540.2	7153.9	12529.2	17903.3	20095.0
62.5°	595.9	600.4	667.0	733.6	1239.1	1743.6	4603.4	7462.0	12513.4	17564.8	19643.5
65°	547.3	555.2	620.7	686.2	1119.5	1552.9	4395.7	7237.4	11880.2	16522.0	18750.9
67.5°	499.9	509.0	586.8	663.6	1013.4	1362.2	3876.6	6389.9	10741.5	15092.1	17615.5
70°	454.8	466.1	550.7	635.4	936.7	1236.9	3207.3	5177.8	9316.2	13453.4	16300.8
72.5°	406.3	417.6	507.8	598.1	888.2	1177.1	2614.9	4051.5	7560.2	11067.7	13943.2
75°	356.6	364.5	462.7	559.8	821.6	1083.4	2051.7	3018.9	5786.1	8553.3	10531.6
77.5°	307.0	317.1	399.5	480.8	697.4	913.0	1546.1	2179.2	4245.6	6310.9	7324.3
80°	244.9	253.9	312.6	370.2	538.3	705.3	1063.1	1420.8	2921.8	4422.8	4993.8
82.5°	187.3	197.5	237.0	275.4	383.7	492.0	644.4	796.8	1941.1	3084.3	3131.7
85°	128.7	132.0	160.3	187.3	237.0	286.7	369.0	451.4	1284.3	2117.2	1763.9
87.5°	64.3	64.3	83.5	102.7	127.5	152.4	195.2	237.0	410.8	584.6	336.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320801
 CATALOG NUMBER: GLEON-SA7B-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: P320801

CATALOG NUMBER: GLEON-SA7B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	8599.6	8599.6	8599.6	8599.6	8599.6	8599.6	8599.6	8599.6	8599.6	8599.6	8599.6
2.5°	9286.8	9369.2	9452.7	9515.9	9580.3	9672.8	9765.3	9782.3	9800.3	9764.2	9728.1
5°	9406.5	9655.9	9906.4	10137.8	10369.1	10507.9	10646.7	10675.0	10703.2	10616.3	10528.2
7.5°	8962.9	9397.4	9831.9	10230.3	10628.7	10870.2	11112.8	11167.0	11222.3	11080.1	10937.9
10°	8370.5	8904.3	9438.1	9962.8	10487.6	10838.6	11189.6	11259.5	11329.5	11152.3	10975.1
12.5°	7912.3	8482.2	9052.1	9605.1	10159.2	10522.6	10886.0	10972.9	11059.8	10931.1	10801.4
15°	7771.2	8307.3	8843.3	9325.2	9808.2	10105.0	10403.0	10438.0	10474.1	10453.8	10433.4
17.5°	8027.4	8511.5	8996.8	9258.6	9521.6	9640.1	9759.7	9798.1	9837.6	9888.4	9940.3
20°	8648.1	8988.9	9330.9	9319.6	9307.2	9249.6	9190.9	9180.8	9170.6	9316.2	9462.9
22.5°	9574.6	9710.0	9846.6	9529.5	9212.4	9019.4	8825.3	8786.9	8747.4	8902.0	9057.7
25°	10580.2	10555.3	10529.4	9925.6	9320.7	8952.8	8584.9	8542.0	8499.1	8631.2	8764.3
27.5°	11575.5	11413.0	11250.5	10430.1	9609.6	9075.8	8542.0	8499.1	8456.2	8573.6	8691.0
30°	12305.7	12045.0	11784.3	10855.5	9926.7	9292.5	8658.2	8588.3	8517.2	8661.6	8806.1
32.5°	12875.6	12525.8	12175.9	11200.9	10225.8	9539.6	8853.5	8744.0	8634.5	8827.5	9020.5
35°	13444.4	12952.4	12459.2	11509.0	10557.6	9831.9	9105.1	8970.8	8836.5	9101.8	9367.0
37.5°	14159.9	13453.4	12745.8	11855.4	10965.0	10269.8	9573.5	9435.8	9298.1	9635.6	9974.1
40°	14936.4	13994.0	13051.7	12234.6	11417.5	10875.8	10333.0	10202.1	10070.1	10480.8	10891.6
42.5°	15581.9	14497.4	13412.8	12691.7	11969.4	11588.0	11205.4	11204.2	11202.0	11618.4	12034.9
45°	16106.7	14917.2	13726.6	13137.5	12547.2	12348.6	12150.0	12309.1	12468.2	12844.0	13221.0
47.5°	16498.3	15269.3	14039.2	13647.6	13255.9	13285.3	13314.6	13638.5	13962.4	14203.9	14446.6
50°	16753.3	15588.7	14422.9	14302.1	14181.4	14444.3	14708.4	15079.7	15452.1	15616.9	15781.6
52.5°	17124.6	16022.0	14918.3	15053.7	15189.2	15726.3	16263.5	16639.3	17015.1	17076.1	17138.2
55°	17983.4	16818.8	15653.0	15912.6	16173.3	16961.0	17749.8	18043.3	18336.7	18359.3	18381.8
57.5°	19203.4	17934.9	16666.4	16946.3	17226.2	18135.8	19046.5	19362.5	19679.7	19635.6	19590.5
60°	20116.4	18994.6	17871.7	18153.9	18436.0	19323.0	20210.1	20573.5	20938.0	20840.9	20743.9
62.5°	20172.8	19573.6	18973.2	19228.2	19484.4	20353.4	21222.4	21595.9	21969.5	21800.2	21630.9
65°	19275.6	19544.2	19812.8	19897.5	19982.1	20792.4	21603.8	21889.4	22176.0	22090.2	22004.5
67.5°	18039.9	19029.6	20020.5	19850.1	19679.7	20060.0	20440.3	20734.8	21029.4	20980.9	20931.2
70°	16806.4	18127.9	19449.4	18612.0	17773.5	17616.7	17459.8	17776.9	18095.2	17898.8	17701.3
72.5°	14706.1	16114.6	17524.1	15981.4	14438.7	13902.6	13366.5	13769.4	14172.3	13859.7	13546.0
75°	11543.9	13100.2	14657.6	12816.9	10976.3	10260.8	9545.3	9891.7	10238.2	10023.8	9808.2
77.5°	8593.9	10127.6	11661.3	9790.2	7917.9	7386.4	6853.7	6956.4	7060.2	7024.1	6986.9
80°	5829.0	6897.7	7967.6	6721.6	5475.7	5516.4	5558.1	5509.6	5459.9	5532.2	5604.4
82.5°	3719.7	4544.7	5370.8	4709.4	4048.1	4427.3	4806.5	4620.3	4432.9	4501.8	4571.8
85°	2122.8	2929.7	3737.8	3483.8	3228.8	3450.0	3672.3	3383.4	3094.5	3220.9	3348.4
87.5°	559.8	1620.6	2682.6	2435.4	2188.3	1901.6	1615.0	1232.4	849.8	1241.4	1633.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320801
 CATALOG NUMBER: GLEON-SA7B-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: P320801

CATALOG NUMBER: GLEON-SA7B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	8599.6	8599.6	8599.6	8599.6	8599.6	8599.6	8599.6
2.5°	9708.9	9689.7	9620.9	9550.9	9447.1	9361.3	9212.4
5°	10406.4	10284.5	10074.6	9863.5	9628.8	9359.1	9060.0
7.5°	10653.5	10368.0	9965.1	9561.1	9197.7	8771.1	8373.8
10°	10548.6	10120.8	9597.2	9072.4	8631.2	8140.2	7699.0
12.5°	10347.7	9892.9	9316.2	8738.4	8236.2	7709.1	7214.8
15°	10071.2	9707.8	9167.2	8626.6	8121.0	7608.7	7023.0
17.5°	9768.7	9596.1	9205.6	8814.0	8376.1	7879.5	7192.2
20°	9525.0	9588.2	9432.4	9276.7	8925.7	8492.3	7720.4
22.5°	9360.2	9663.8	9783.4	9904.2	9693.1	9354.6	8461.9
25°	9267.7	9771.0	10171.6	10573.4	10479.7	10219.0	9362.5
27.5°	9308.3	9925.6	10547.4	11170.4	11257.3	11185.1	10311.6
30°	9430.2	10055.4	10812.6	11571.0	11917.5	12014.5	11102.7
32.5°	9633.3	10246.1	11071.1	11897.2	12420.8	12730.0	11826.1
35°	9940.3	10513.6	11373.5	12233.5	12910.6	13474.9	12573.2
37.5°	10467.3	10960.5	11753.8	12548.3	13426.4	14273.9	13395.9
40°	11239.2	11588.0	12258.3	12929.8	14034.6	15179.0	14313.4
42.5°	12213.2	12392.6	12924.2	13455.7	14670.0	16000.6	15210.6
45°	13268.4	13315.8	13649.8	13985.0	15173.4	16560.3	15884.3
47.5°	14284.1	14121.5	14254.7	14387.9	15559.3	16959.8	16395.6
50°	15329.1	14876.5	14806.6	14736.6	15945.3	17430.5	17045.6
52.5°	16392.2	15646.2	15369.7	15092.1	16405.7	18054.5	17854.8
55°	17432.7	16483.6	16111.2	15738.8	17109.9	18816.3	19043.2
57.5°	18515.0	17439.5	17094.1	16748.8	18144.8	19781.2	20109.6
60°	19679.7	18614.3	18337.8	18060.2	19431.4	20824.0	20584.8
62.5°	20784.5	19938.1	19792.5	19645.8	20732.6	21625.3	20399.7
65°	21522.6	21039.6	21175.0	21311.5	21716.7	21825.0	19858.0
67.5°	21029.4	21127.6	21699.8	22273.1	21994.3	21231.4	18790.4
70°	18289.3	18878.4	20233.8	21590.3	20971.8	19641.3	16874.1
72.5°	14207.3	14869.8	16882.0	18895.3	18325.4	16695.8	13859.7
75°	10555.3	11303.6	13524.5	15745.5	14954.4	12488.5	9923.3
77.5°	7487.9	7989.0	10181.8	12375.7	11085.7	8312.9	6677.6
80°	5450.9	5297.4	6519.6	7741.9	7527.4	5498.3	4288.5
82.5°	4197.1	3822.4	4398.0	4973.5	4941.9	3815.6	3146.4
85°	3198.3	3048.2	3557.2	4066.2	3630.5	2584.4	1999.8
87.5°	1864.4	2096.8	2696.1	3296.5	2473.8	784.3	388.2
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: P320801
 CATALOG NUMBER: GLEON-SA7B-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.

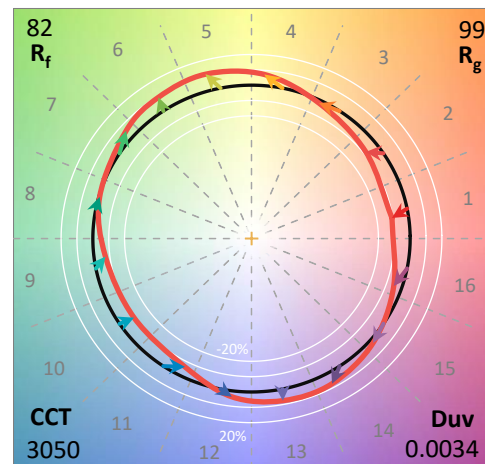
Test Information

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

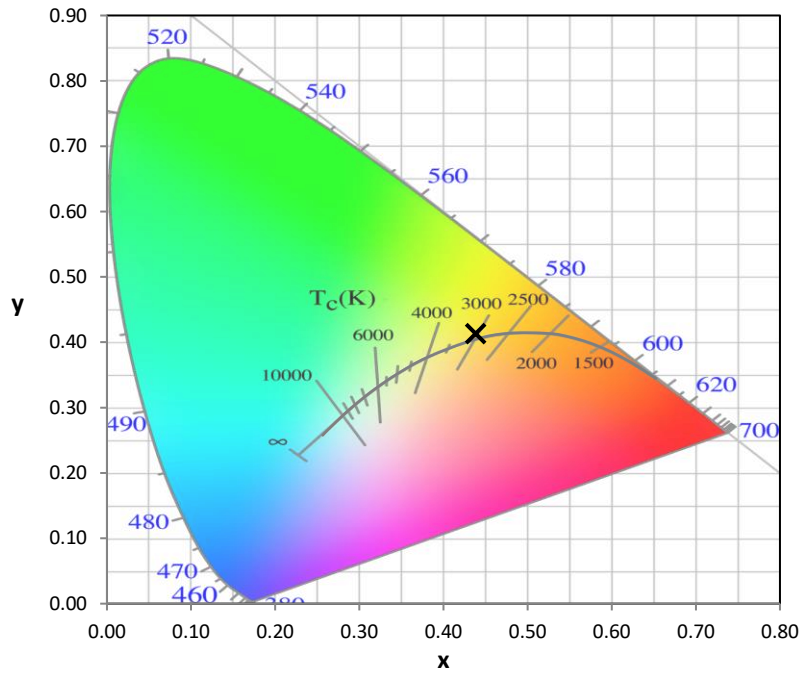
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

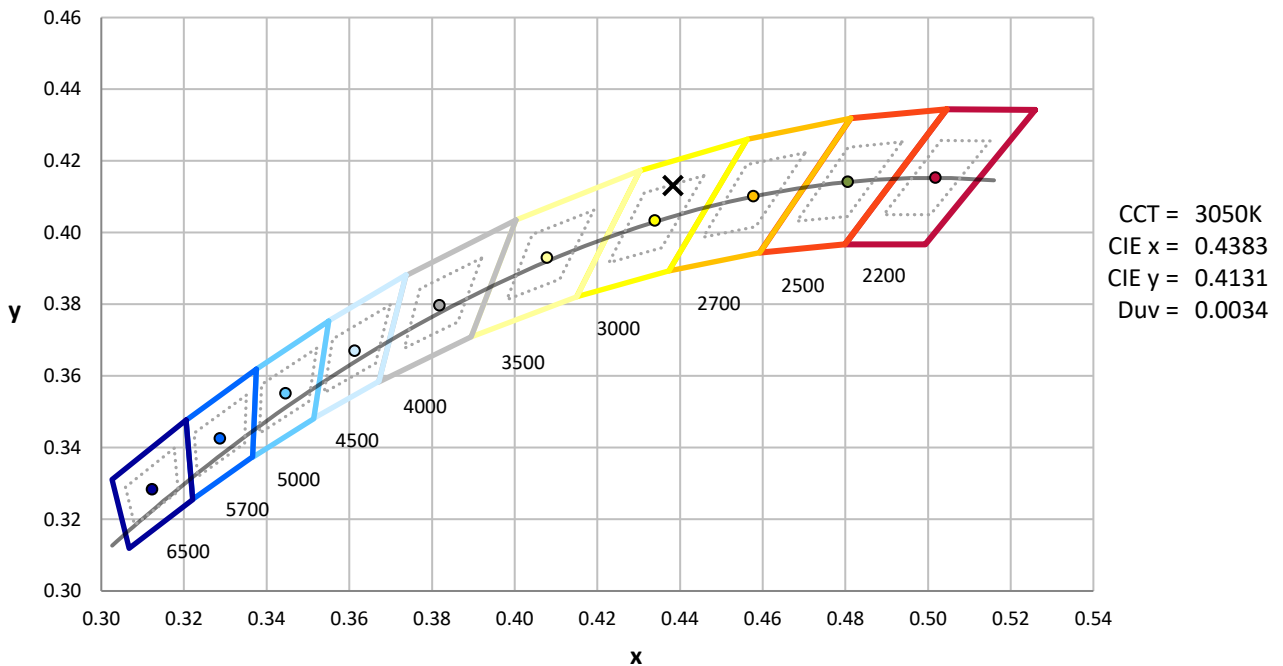
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

REPORT NUMBER: SP1-2408-195-9

CIE 1931 Chromaticity Diagram



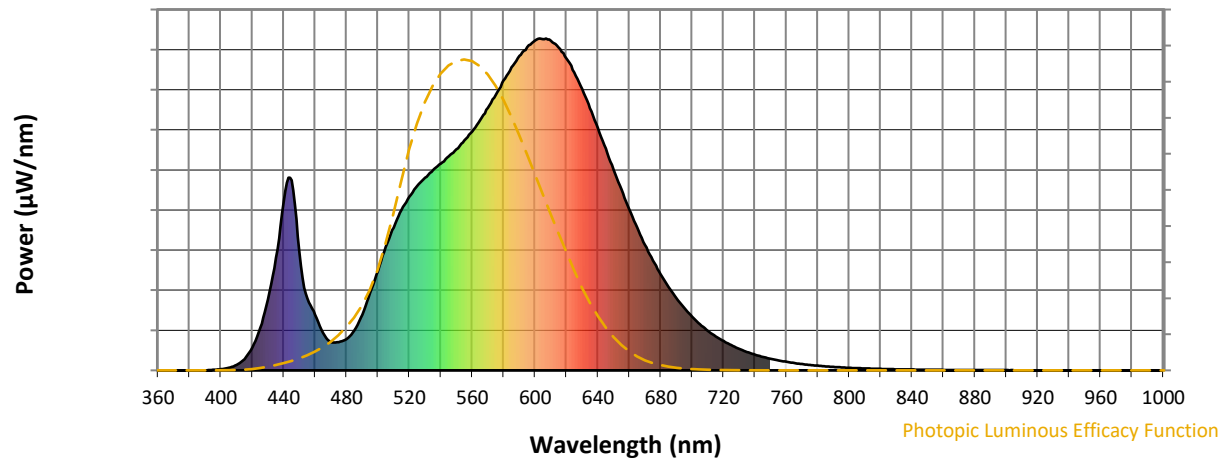
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

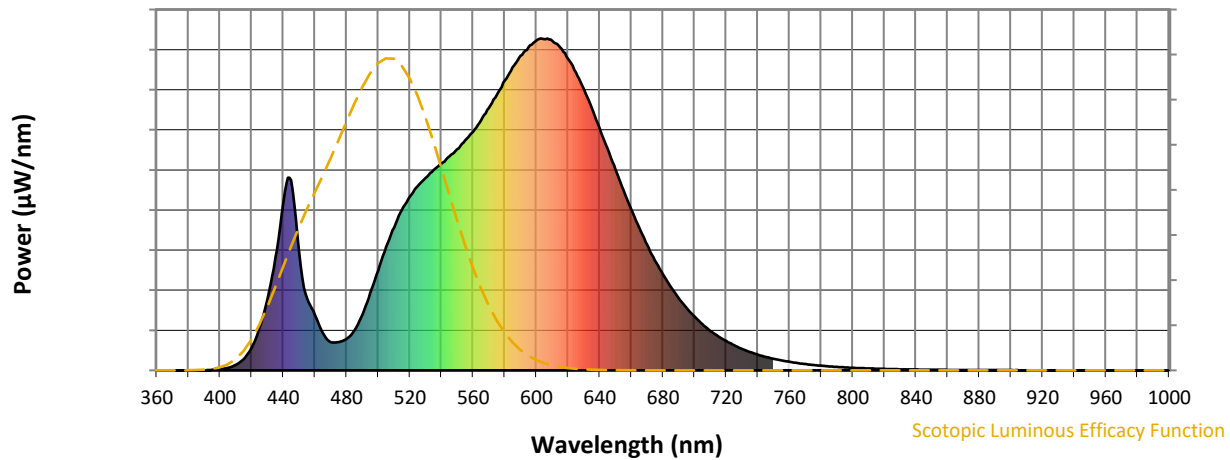


Photopic Lumens: NR

λ (nm)	Power W/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

Scotopic Flux vs. Wavelength



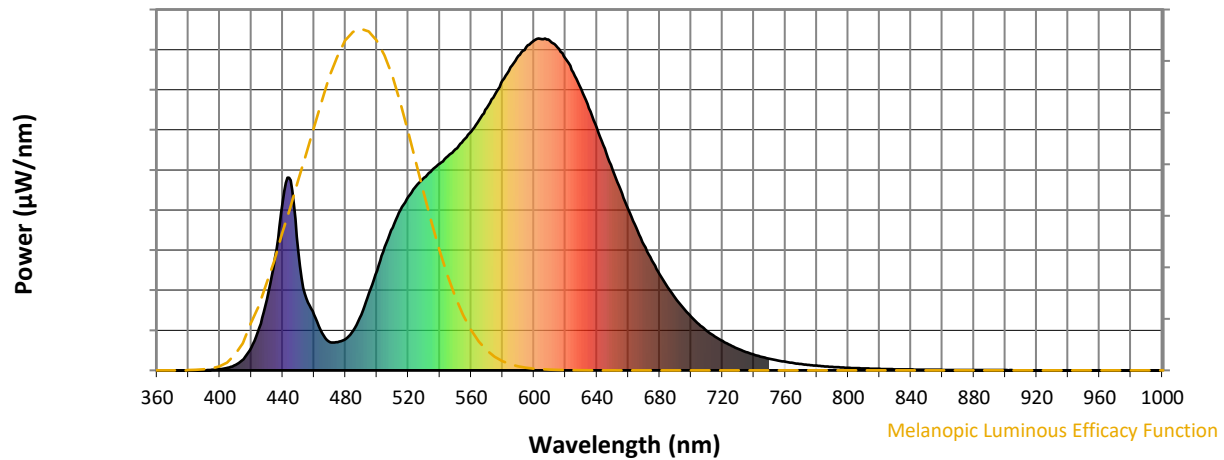
Scotopic Lumens: NR

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

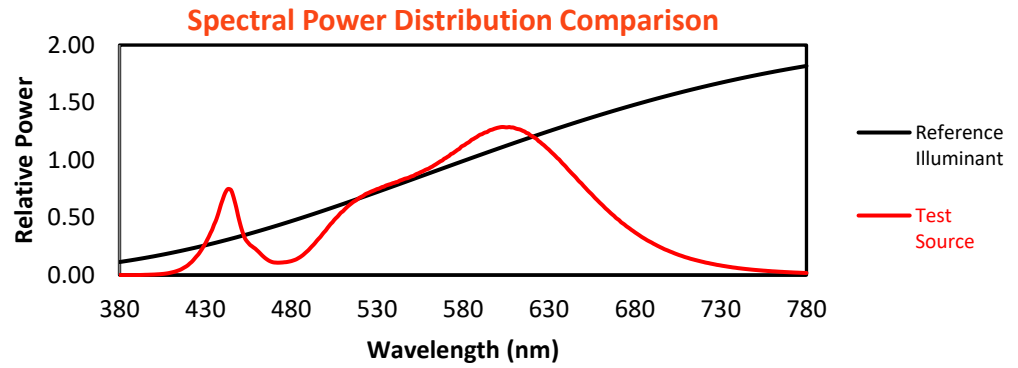
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	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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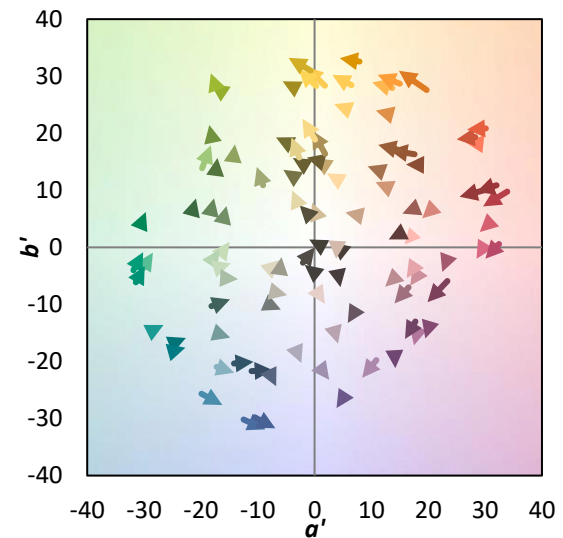
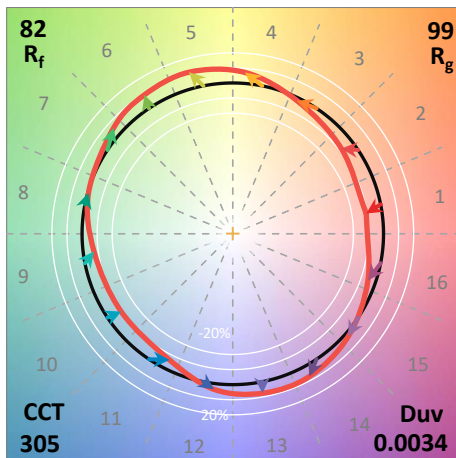
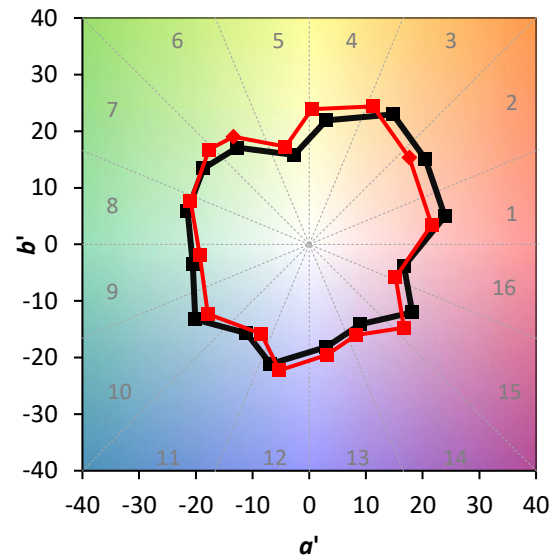
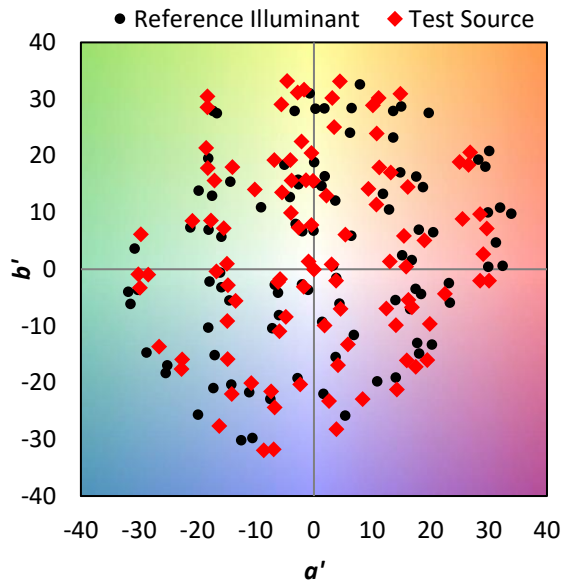
TM-30-18

Summary

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

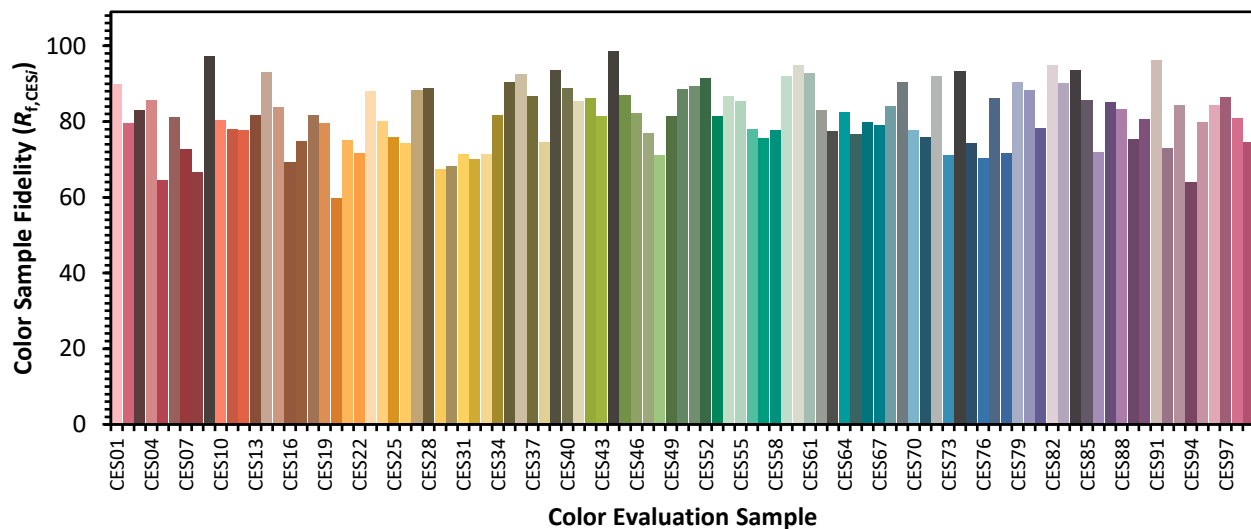


Color Vector Graphics

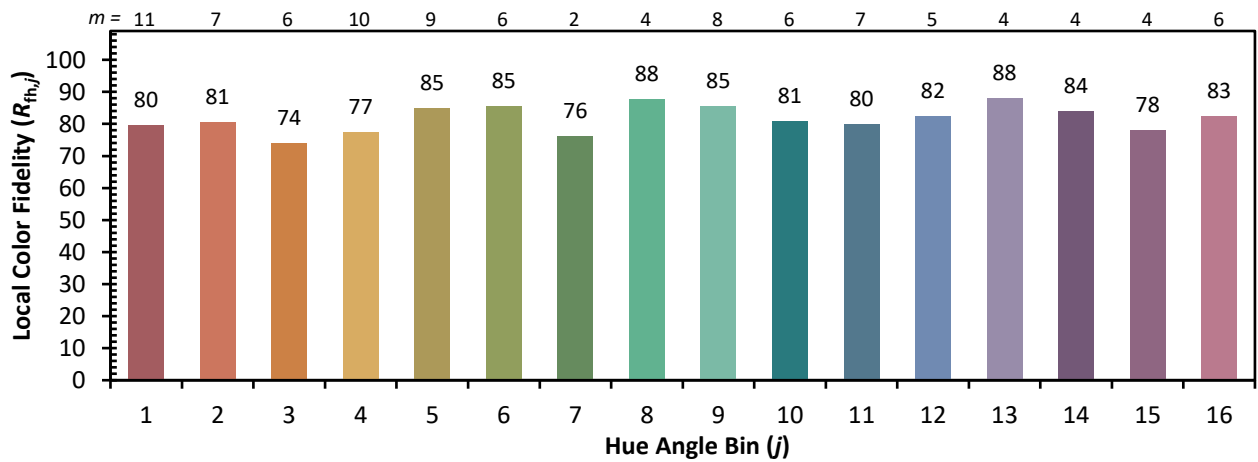
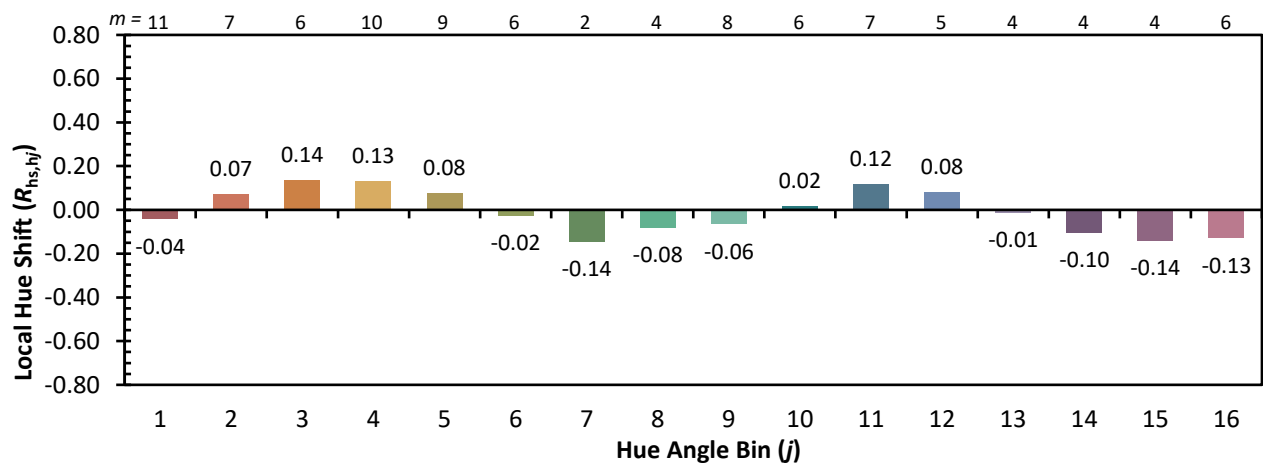
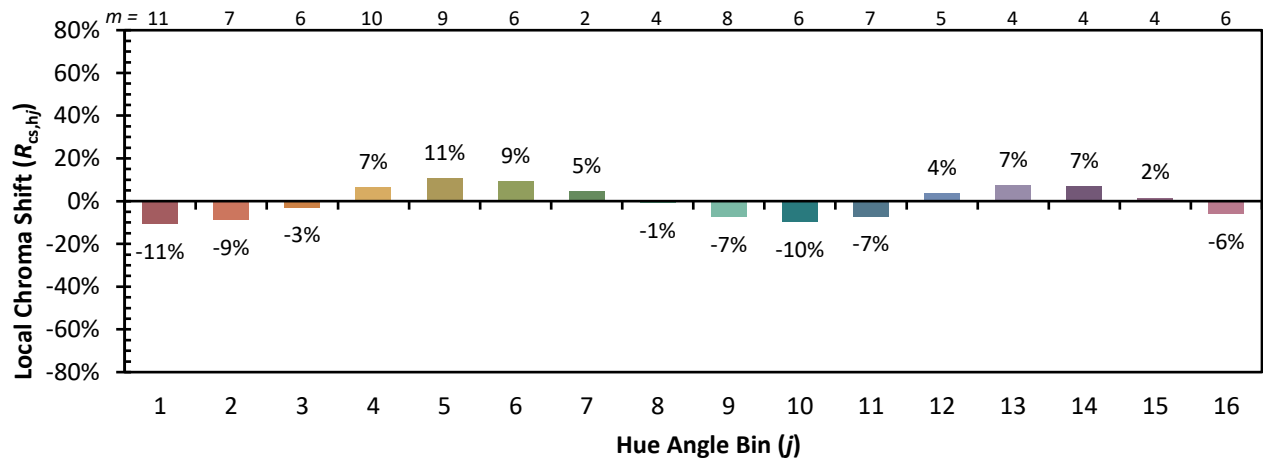


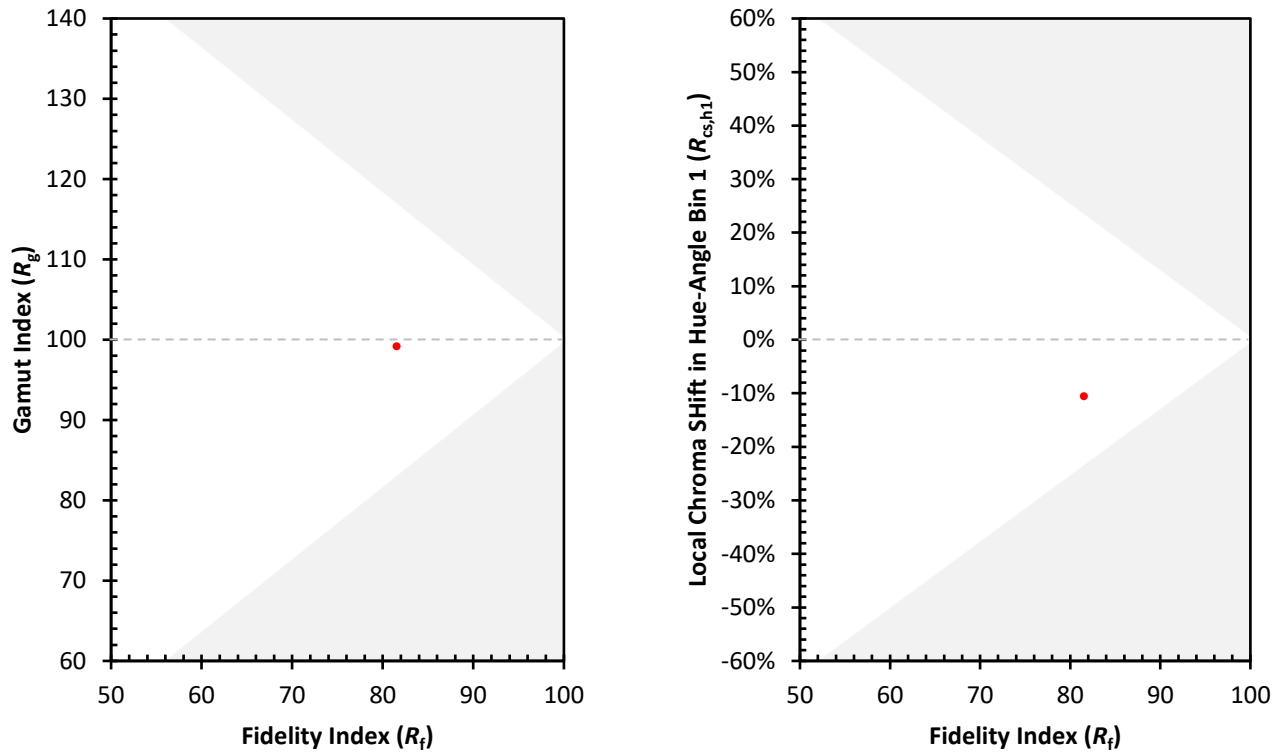
Individual Sample Fidelity Index ($R_{f,i}$)

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)