

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: P320803

Luminaire Tested: **GLEON-SA9B-830-U-SLR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320803
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-SA9B-830-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 35678 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

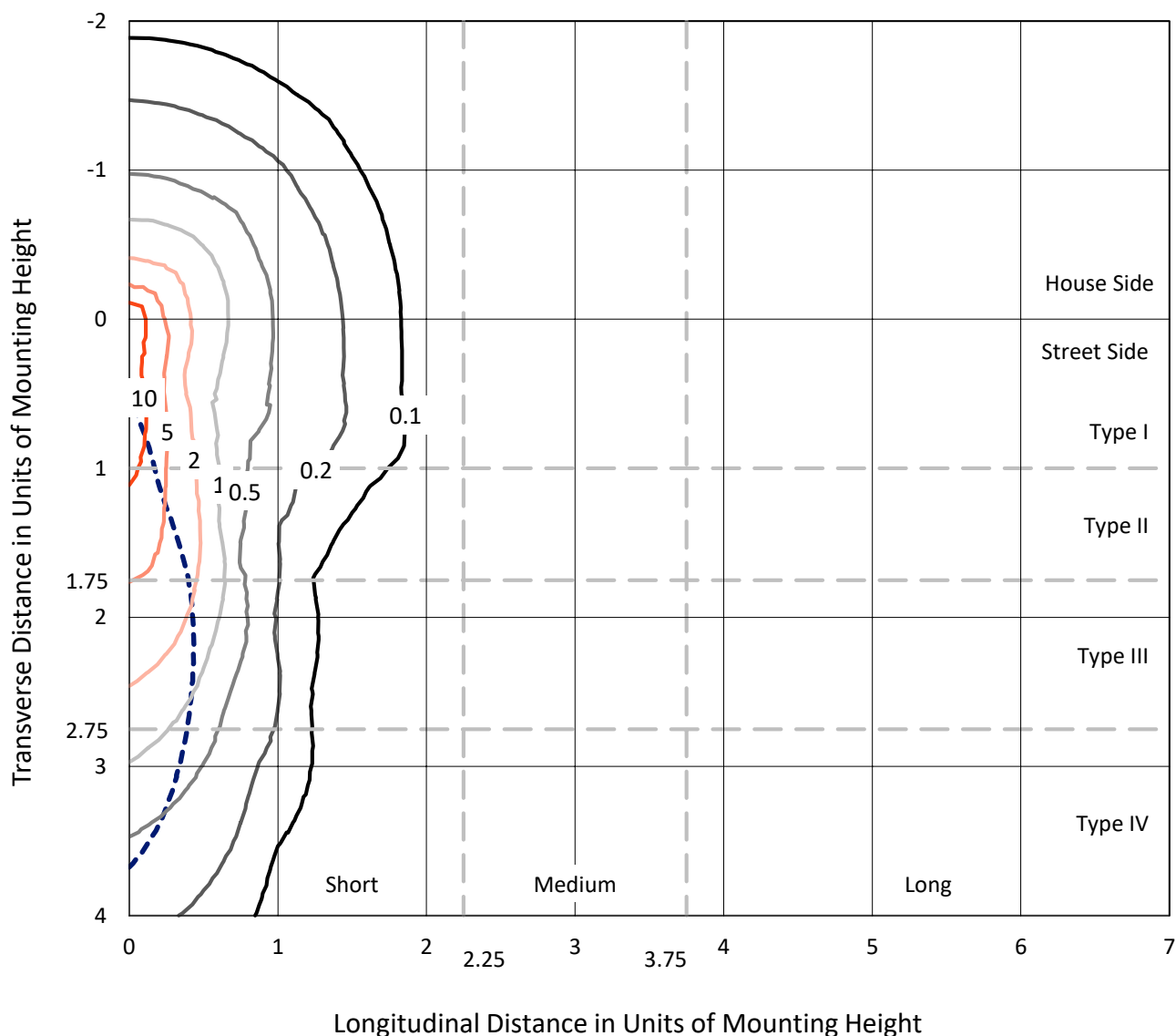
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

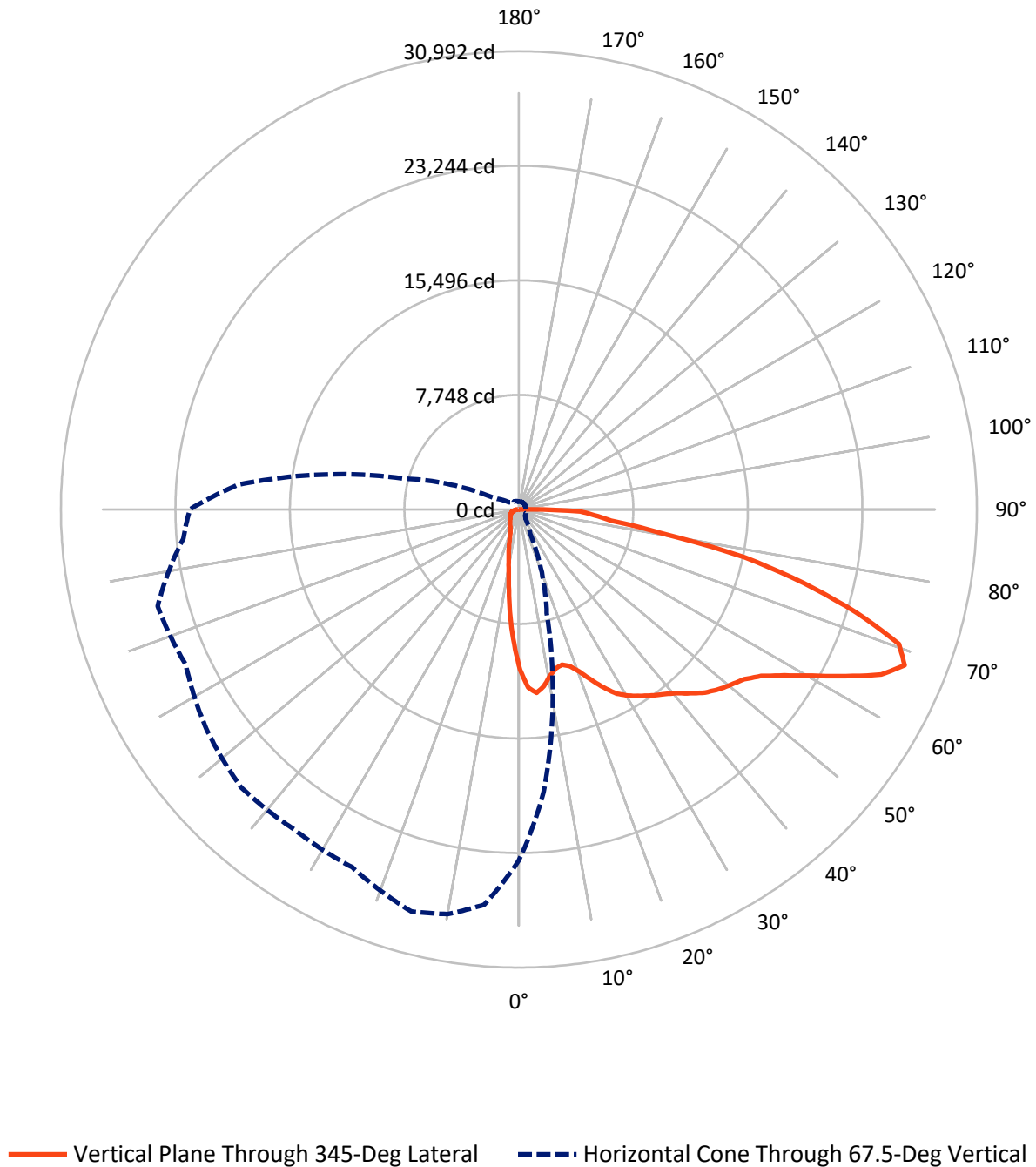
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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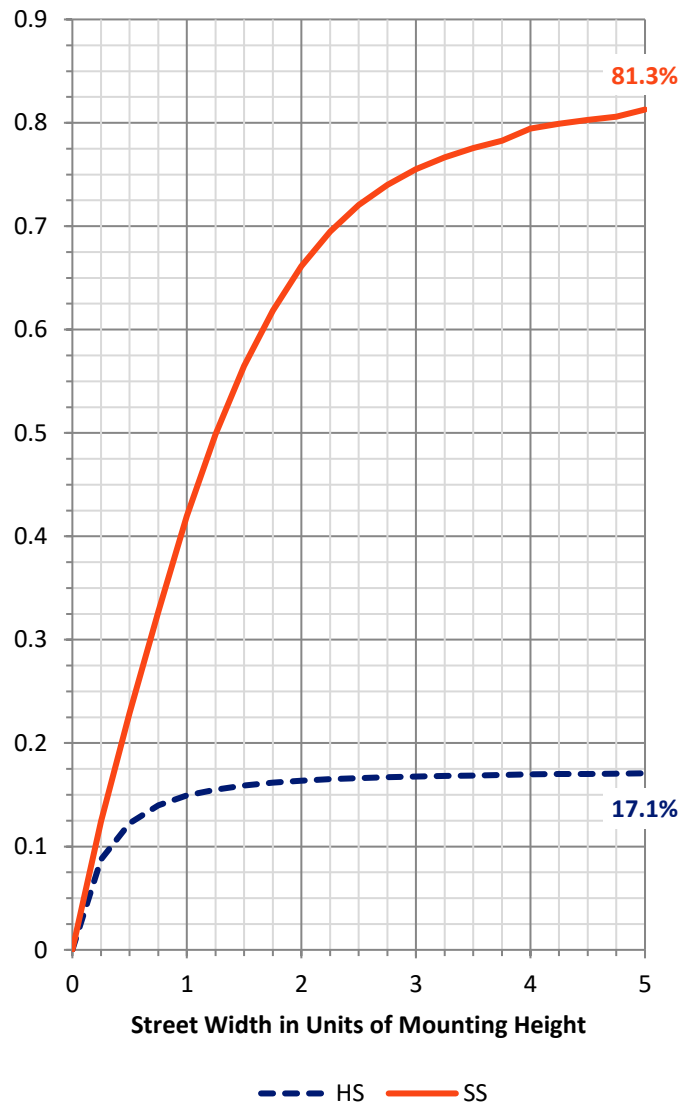
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6168.0	0.0	6168.0
	% Fixture	17.3	0.0	17.3
Street Side	Lumens	29510.0	0.0	29510.0
	% Fixture	82.7	0.0	82.7
Total	Lumens	35678.0	0.0	35678.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	838.9	2.4
10°-20°	1742.7	4.9
20°-30°	2478.5	6.9
30°-40°	3571.5	10.0
40°-50°	5033.3	14.1
50°-60°	6997.1	19.6
60°-70°	8461.6	23.7
70°-80°	5201.2	14.6
80°-90°	1353.4	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°	35678.0	100.0
0°-180°	35678.0	100.0

Coefficient of Utilization



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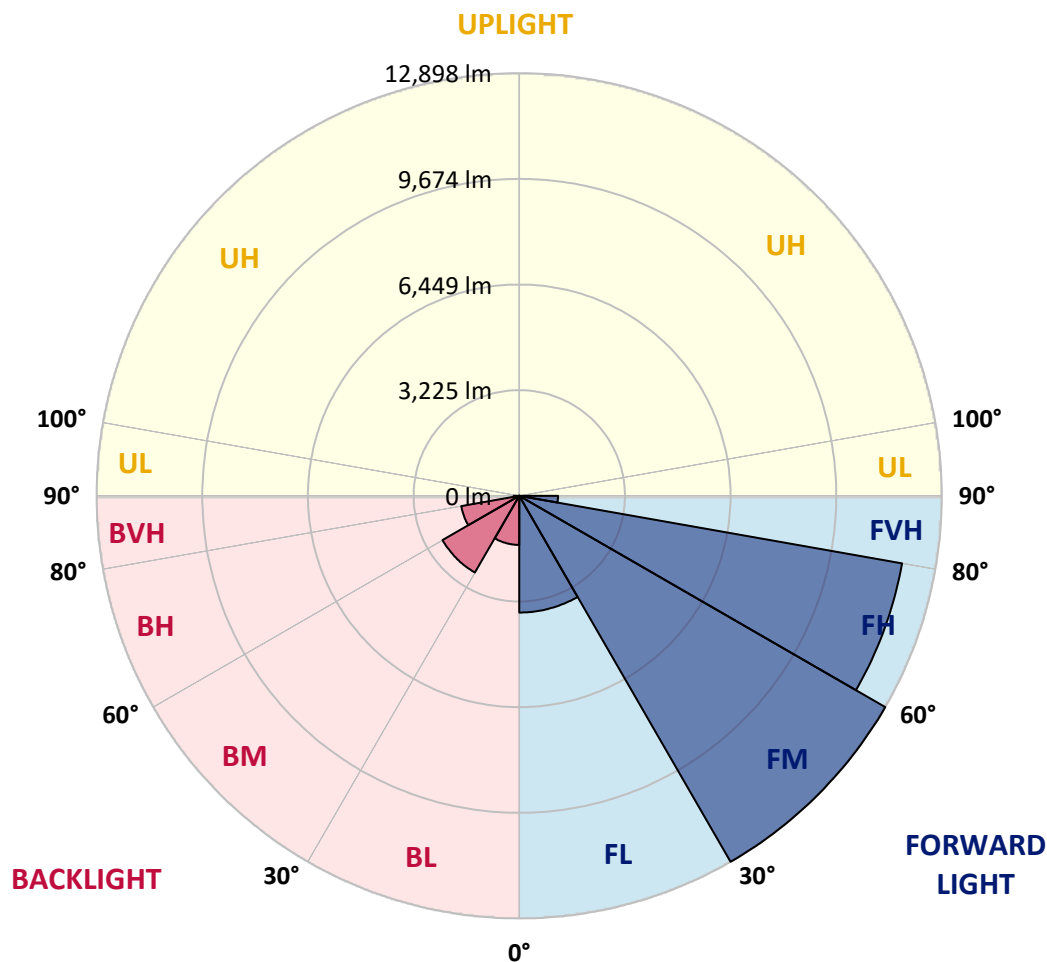
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3562.5	10.0			
FM	(30°-60°)	12898.5	36.2			
FH	(60°-80°)	11865.3	33.3			G4/12000
FVH	(80°-90°)	1183.7	3.3			G5
BL	(0°-30°)	1497.5	4.2	B3/2500		
BM	(30°-60°)	2703.3	7.6	B3/5000		
BH	(60°-80°)	1797.5	5.0	B3/2500		G3/2500
BVH	(80°-90°)	169.7	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°	10869.5	10869.5	10869.5	10869.5	10869.5	10869.5	10869.5	10869.5	10869.5	10869.5	10869.5
2.5°	11644.1	11541.4	11385.9	11230.4	11114.9	10997.9	10865.3	10732.6	10581.4	10428.8	10338.9
5°	11451.5	11166.3	10795.4	10424.5	10179.1	9933.8	9655.6	9377.5	9102.2	8826.9	8678.5
7.5°	10584.3	10156.3	9674.2	9192.0	8835.4	8477.4	8092.3	7705.7	7363.3	7019.6	6807.0
10°	9731.2	9217.7	8664.3	8109.4	7652.9	7196.4	6809.9	6421.9	6163.7	5905.5	5710.1
12.5°	9119.3	8550.1	7941.0	7330.5	6874.1	6417.6	6172.2	5926.9	5712.9	5499.0	5273.6
15°	8876.8	8233.5	7610.1	6985.3	6570.2	6155.1	5882.7	5608.8	5322.1	5033.9	4757.2
17.5°	9090.8	8337.6	7660.0	6982.5	6439.0	5895.5	5514.7	5132.4	4754.4	4376.3	4055.4
20°	9758.3	8796.9	7911.1	7023.8	6300.6	5577.4	5066.8	4554.7	4069.7	3584.7	3220.9
22.5°	10695.5	9423.1	8266.3	7109.4	6175.1	5239.4	4598.9	3957.0	3383.5	2810.1	2453.5
25°	11833.8	10253.3	8778.4	7302.0	6123.8	4944.1	4156.7	3369.3	2764.5	2158.2	1904.3
27.5°	13033.5	11243.3	9414.6	7584.4	6132.3	4680.2	3784.4	2887.1	2342.2	1797.3	1623.3
30°	14033.4	12374.5	10156.3	7936.8	6165.1	4393.5	3433.5	2473.5	2024.1	1574.8	1462.1
32.5°	14947.8	13163.3	10715.5	8266.3	6202.2	4136.7	3162.4	2186.7	1820.2	1452.1	1359.4
35°	15892.1	13863.7	11106.3	8347.6	6138.0	3927.0	2977.0	2027.0	1688.9	1349.4	1271.0
37.5°	16932.0	14621.1	11482.9	8343.3	6029.6	3715.9	2832.9	1948.5	1603.3	1256.7	1199.6
40°	18091.7	15458.4	11890.9	8323.3	5931.2	3537.6	2725.9	1912.9	1556.3	1198.2	1149.7
42.5°	19225.7	16257.3	12270.3	8283.4	5851.3	3417.8	2620.4	1823.0	1513.5	1202.5	1134.0
45°	20077.3	16954.8	12599.8	8243.5	5791.4	3339.3	2537.7	1736.0	1473.5	1211.1	1124.0
47.5°	20723.5	17655.2	12965.0	8273.4	5785.7	3298.0	2479.2	1660.4	1397.9	1134.0	1098.4
50°	21545.1	18496.8	13497.1	8497.4	5864.1	3230.9	2410.7	1589.1	1325.2	1061.3	1109.8
52.5°	22567.9	19697.8	14321.6	8943.8	6028.2	3112.5	2302.3	1492.1	1236.7	980.0	1055.6
55°	24069.9	21237.0	15375.7	9513.0	6226.5	2938.5	2138.2	1336.6	1119.8	901.5	968.6
57.5°	25417.9	22791.8	16387.1	9980.9	6350.6	2718.8	1931.4	1144.0	988.5	833.0	871.6
60°	26018.5	23593.5	16860.6	10126.4	6276.4	2426.4	1698.9	970.0	873.0	776.0	768.9
62.5°	25784.5	23084.2	16394.2	9704.1	5914.1	2124.0	1493.5	863.0	790.3	716.1	700.4
65°	25099.8	21483.8	15087.6	8691.4	5302.1	1912.9	1363.7	814.5	733.2	651.9	634.8
67.5°	23750.4	19205.7	13236.0	7266.3	4524.7	1783.1	1289.5	796.0	697.5	597.7	577.7
70°	21328.3	16464.1	11103.5	5741.5	3723.0	1703.2	1241.0	778.8	659.0	537.8	519.2
72.5°	17518.2	13200.4	8866.8	4531.8	3112.5	1693.2	1235.3	777.4	627.6	477.9	460.7
75°	12542.8	10026.5	6768.5	3509.1	2549.1	1589.1	1172.5	756.0	584.8	412.2	396.6
77.5°	8440.3	6939.7	4704.4	2467.8	1891.5	1315.2	985.7	656.2	500.7	345.2	329.5
80°	5420.5	4802.9	3152.5	1502.1	1226.7	951.4	704.7	457.9	365.2	271.0	258.2
82.5°	3976.9	3574.7	2191.0	807.4	681.8	554.9	430.8	306.7	249.6	192.6	186.9
85°	2527.7	2787.3	1613.3	439.3	359.5	279.6	231.1	182.6	144.1	105.6	105.6
87.5°	490.7	679.0	446.5	212.5	155.5	98.4	84.2	68.5	38.5	7.1	8.6
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



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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°	10869.5	10869.5	10869.5	10869.5	10869.5	10869.5	10869.5	10869.5	10869.5	10869.5	10869.5
2.5°	10247.6	10149.2	10050.8	9939.5	9826.8	9722.7	9617.1	9501.6	9523.0	9434.5	9346.1
5°	8530.2	8373.3	8214.9	8078.0	7941.0	7822.7	7702.8	7595.8	7688.6	7625.8	7563.0
7.5°	6593.1	6399.1	6203.6	6039.6	5875.5	5748.6	5620.2	5531.8	5623.1	5611.7	5600.2
10°	5514.7	5326.4	5136.6	4955.5	4774.3	4620.3	4464.8	4333.6	4310.7	4245.1	4178.1
12.5°	5046.8	4788.6	4529.0	4339.3	4149.5	3965.5	3781.5	3627.5	3557.6	3449.2	3339.3
15°	4480.5	4175.2	3870.0	3654.6	3437.7	3259.4	3079.7	2947.0	2902.8	2818.7	2734.5
17.5°	3734.4	3400.7	3066.9	2848.6	2628.9	2486.3	2342.2	2253.8	2253.8	2229.5	2205.3
20°	2857.2	2559.1	2260.9	2094.0	1927.1	1851.5	1774.5	1737.4	1748.8	1750.3	1750.3
22.5°	2095.5	1912.9	1730.3	1663.2	1594.8	1567.7	1540.6	1524.9	1530.6	1532.0	1533.4
25°	1650.4	1580.5	1509.2	1474.9	1439.3	1422.2	1405.1	1399.3	1412.2	1413.6	1413.6
27.5°	1449.3	1406.5	1362.3	1340.9	1318.0	1310.9	1303.8	1293.8	1306.6	1306.6	1305.2
30°	1348.0	1302.3	1256.7	1229.6	1202.5	1205.4	1206.8	1203.9	1212.5	1218.2	1222.5
32.5°	1265.3	1221.0	1176.8	1149.7	1121.2	1116.9	1112.6	1109.8	1128.3	1138.3	1148.3
35°	1191.1	1142.6	1094.1	1068.4	1042.7	1032.7	1022.8	1015.6	1032.7	1045.6	1058.4
37.5°	1141.2	1091.2	1039.9	1015.6	990.0	977.1	964.3	955.7	962.9	968.6	974.3
40°	1101.2	1049.9	997.1	968.6	940.0	927.2	914.4	907.2	911.5	912.9	914.4
42.5°	1064.1	1014.2	964.3	932.9	900.1	884.4	868.7	860.1	863.0	865.9	867.3
45°	1037.0	987.1	935.8	898.7	860.1	843.0	825.9	815.9	817.4	817.4	817.4
47.5°	1062.7	990.0	915.8	873.0	828.8	808.8	788.8	778.8	776.0	773.1	770.3
50°	1156.9	1032.7	907.2	853.0	797.4	776.0	753.2	741.8	734.6	731.8	728.9
52.5°	1129.7	1022.8	914.4	844.5	773.1	747.5	721.8	703.2	696.1	691.8	687.5
55°	1034.2	967.1	898.7	814.5	730.3	707.5	683.3	670.4	657.6	654.7	651.9
57.5°	908.6	881.5	854.4	768.9	683.3	661.9	639.0	630.5	619.1	619.1	617.7
60°	760.3	800.2	840.2	741.8	641.9	617.7	593.4	586.3	582.0	580.6	579.1
62.5°	683.3	748.9	813.1	708.9	603.4	577.7	552.0	543.5	542.1	543.5	543.5
65°	617.7	637.6	657.6	609.1	560.6	534.9	507.8	499.3	502.1	506.4	510.7
67.5°	557.7	553.5	549.2	532.1	513.5	492.1	469.3	460.7	462.2	467.9	473.6
70°	500.7	495.0	487.8	475.0	462.2	443.6	425.1	419.4	417.9	425.1	430.8
72.5°	443.6	436.5	427.9	417.9	406.5	390.8	375.2	370.9	372.3	376.6	380.9
75°	380.9	375.2	368.0	359.5	349.5	335.2	321.0	318.1	321.0	325.2	329.5
77.5°	312.4	311.0	308.1	301.0	293.8	278.2	261.0	259.6	263.9	268.2	271.0
80°	243.9	245.3	246.8	241.1	235.4	218.2	199.7	198.3	202.6	206.8	211.1
82.5°	179.7	184.0	186.9	179.7	172.6	152.6	132.7	129.8	144.1	148.4	152.6
85°	104.1	109.8	115.5	109.8	104.1	84.2	64.2	62.8	75.6	82.7	89.9
87.5°	8.6	11.4	14.3	12.8	11.4	5.7	0.0	0.0	1.4	7.1	12.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320803
 CATALOG NUMBER: GLEON-SA9B-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: P320803

CATALOG NUMBER: GLEON-SA9B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	10869.5	10869.5	10869.5	10869.5	10869.5	10869.5	10869.5	10869.5	10869.5	10869.5	10869.5
2.5°	9290.5	9234.8	9217.7	9200.6	9137.8	9073.6	9139.3	9203.5	9230.6	9257.7	9187.8
5°	7554.5	7544.5	7544.5	7543.1	7486.0	7427.5	7471.7	7514.5	7419.0	7323.4	7313.4
7.5°	5661.6	5722.9	5772.8	5821.3	5802.8	5784.3	5825.6	5867.0	5745.7	5623.1	5563.2
10°	4192.3	4205.2	4259.4	4313.6	4326.4	4337.8	4389.2	4439.1	4345.0	4250.8	4209.5
12.5°	3270.9	3202.4	3209.5	3215.2	3240.9	3265.1	3319.3	3372.1	3333.6	3293.7	3298.0
15°	2648.9	2561.9	2526.2	2489.2	2517.7	2546.2	2584.7	2621.8	2623.2	2623.2	2660.3
17.5°	2162.5	2118.3	2082.6	2045.5	2084.0	2121.1	2125.4	2129.7	2131.1	2132.5	2129.7
20°	1771.7	1793.0	1781.6	1770.2	1784.5	1797.3	1808.7	1818.7	1805.9	1791.6	1756.0
22.5°	1553.4	1571.9	1586.2	1599.1	1623.3	1646.1	1634.7	1621.9	1596.2	1569.1	1542.0
25°	1426.5	1439.3	1453.6	1467.8	1487.8	1506.3	1486.4	1466.4	1447.8	1429.3	1410.8
27.5°	1319.5	1332.3	1345.1	1356.6	1375.1	1392.2	1373.7	1355.1	1339.4	1323.7	1309.5
30°	1232.5	1241.0	1251.0	1261.0	1278.1	1293.8	1278.1	1261.0	1249.6	1236.7	1226.7
32.5°	1158.3	1166.8	1171.1	1175.4	1191.1	1206.8	1195.4	1184.0	1174.0	1164.0	1156.9
35°	1077.0	1094.1	1096.9	1099.8	1115.5	1131.2	1124.0	1115.5	1104.1	1092.7	1079.8
37.5°	994.2	1014.2	1025.6	1035.6	1051.3	1067.0	1059.9	1052.7	1037.0	1021.3	998.5
40°	924.3	932.9	954.3	974.3	999.9	1024.2	1009.9	994.2	970.0	945.7	934.3
42.5°	865.9	864.4	884.4	904.4	942.9	980.0	954.3	928.6	905.8	883.0	880.1
45°	814.5	810.2	820.2	830.2	871.6	911.5	885.8	858.7	845.9	833.0	833.0
47.5°	768.9	766.0	773.1	778.8	804.5	828.8	815.9	803.1	796.0	788.8	790.3
50°	727.5	724.6	731.8	737.5	747.5	756.0	758.9	760.3	756.0	751.7	754.6
52.5°	689.0	689.0	691.8	693.3	706.1	718.9	718.9	717.5	717.5	717.5	720.4
55°	656.2	659.0	659.0	659.0	679.0	697.5	691.8	686.1	687.5	687.5	690.4
57.5°	623.4	627.6	630.5	633.3	653.3	673.3	667.6	661.9	661.9	661.9	663.3
60°	586.3	592.0	597.7	603.4	623.4	643.3	637.6	630.5	631.9	633.3	634.8
62.5°	550.6	556.3	562.0	567.7	587.7	607.7	602.0	594.8	599.1	602.0	602.0
65°	516.4	520.7	526.4	532.1	550.6	569.2	563.4	557.7	563.4	567.7	570.6
67.5°	477.9	480.7	486.4	492.1	510.7	529.2	523.5	516.4	523.5	529.2	534.9
70°	433.6	436.5	443.6	449.3	467.9	486.4	479.3	472.2	479.3	486.4	492.1
72.5°	385.1	388.0	395.1	400.8	422.2	443.6	435.1	426.5	435.1	443.6	446.5
75°	332.4	335.2	343.8	350.9	372.3	393.7	386.6	378.0	385.1	392.3	393.7
77.5°	275.3	279.6	291.0	302.4	319.5	336.6	332.4	328.1	332.4	336.6	336.6
80°	215.4	219.7	233.9	246.8	256.8	266.7	268.2	269.6	271.0	272.5	271.0
82.5°	159.8	165.5	178.3	191.1	191.1	191.1	202.6	212.5	212.5	211.1	209.7
85°	98.4	105.6	117.0	128.4	121.2	114.1	132.7	149.8	149.8	148.4	145.5
87.5°	20.0	27.1	38.5	48.5	41.4	34.2	52.8	71.3	72.7	72.7	69.9
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: P320803
 CATALOG NUMBER: GLEON-SA9B-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: P320803

CATALOG NUMBER: GLEON-SA9B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	10869.5	10869.5	10869.5	10869.5	10869.5	10869.5	10869.5	10869.5	10869.5	10869.5	10869.5
2.5°	9116.4	9227.7	9337.5	9366.1	9408.9	9427.4	9444.5	9584.3	9722.7	9885.3	10047.9
5°	7302.0	7384.7	7467.5	7480.3	7524.5	7547.3	7570.2	7739.9	7908.2	8135.0	8361.9
7.5°	5503.2	5523.2	5543.2	5540.3	5577.4	5627.3	5675.8	5857.0	6036.7	6280.7	6523.2
10°	4168.1	4213.7	4258.0	4299.3	4380.6	4474.8	4567.5	4752.9	4938.4	5179.4	5419.1
12.5°	3302.2	3355.0	3406.4	3452.0	3546.2	3671.7	3795.8	4018.3	4240.8	4529.0	4815.7
15°	2696.0	2691.7	2687.4	2718.8	2801.5	2938.5	3074.0	3309.4	3544.7	3861.4	4176.6
17.5°	2126.8	2105.4	2084.0	2108.3	2185.3	2298.0	2409.3	2609.0	2807.3	3113.9	3420.6
20°	1720.3	1706.0	1691.8	1714.6	1763.1	1810.2	1857.2	2001.3	2144.0	2393.6	2641.8
22.5°	1513.5	1512.0	1509.2	1522.0	1544.8	1569.1	1591.9	1661.8	1730.3	1891.5	2051.2
25°	1392.2	1390.8	1389.4	1395.1	1413.6	1432.2	1450.7	1496.3	1542.0	1619.0	1696.0
27.5°	1295.2	1292.4	1289.5	1290.9	1295.2	1323.7	1350.8	1372.2	1392.2	1445.0	1496.3
30°	1216.8	1215.3	1213.9	1213.9	1209.6	1219.6	1229.6	1262.4	1293.8	1348.0	1402.2
32.5°	1149.7	1142.6	1135.5	1119.8	1109.8	1124.0	1138.3	1172.5	1206.8	1256.7	1306.6
35°	1065.6	1047.0	1027.0	1018.5	1019.9	1034.2	1048.4	1082.7	1115.5	1169.7	1222.5
37.5°	974.3	968.6	961.4	960.0	964.3	978.5	992.8	1022.8	1051.3	1105.5	1158.3
40°	922.9	920.1	917.2	914.4	917.2	931.5	945.7	974.3	1001.4	1054.1	1105.5
42.5°	877.3	875.8	874.4	874.4	875.8	891.5	907.2	935.8	962.9	1009.9	1057.0
45°	833.0	834.5	834.5	837.3	841.6	857.3	871.6	902.9	934.3	980.0	1025.6
47.5°	791.7	796.0	798.8	805.9	810.2	827.3	843.0	877.3	911.5	968.6	1024.2
50°	756.0	760.3	763.2	768.9	780.3	800.2	820.2	861.6	901.5	997.1	1091.2
52.5°	723.2	727.5	731.8	737.5	751.7	774.6	797.4	848.7	898.7	1009.9	1121.2
55°	693.3	697.5	700.4	708.9	723.2	743.2	761.7	824.5	887.3	968.6	1049.9
57.5°	664.7	669.0	671.9	677.6	684.7	706.1	726.1	793.1	860.1	917.2	972.8
60°	634.8	637.6	639.0	639.0	644.8	669.0	693.3	778.8	863.0	853.0	841.6
62.5°	602.0	604.8	606.2	602.0	609.1	634.8	660.4	771.7	883.0	814.5	746.0
65°	572.0	570.6	569.2	564.9	573.4	599.1	623.4	679.0	734.6	707.5	680.4
67.5°	539.2	534.9	530.6	524.9	533.5	556.3	577.7	596.3	614.8	617.7	620.5
70°	497.8	492.1	486.4	485.0	489.3	507.8	526.4	539.2	550.6	556.3	560.6
72.5°	449.3	445.1	440.8	437.9	439.3	455.0	469.3	480.7	492.1	496.4	499.3
75°	395.1	395.1	393.7	385.1	385.1	398.0	409.4	419.4	429.4	435.1	440.8
77.5°	336.6	338.1	338.1	326.7	325.2	338.1	349.5	358.0	365.2	370.9	375.2
80°	269.6	266.7	263.9	256.8	253.9	269.6	283.9	291.0	296.7	298.1	298.1
82.5°	206.8	201.1	194.0	178.3	179.7	196.9	212.5	218.2	224.0	224.0	224.0
85°	141.2	129.8	117.0	104.1	105.6	124.1	141.2	146.9	152.6	155.5	156.9
87.5°	67.0	55.6	42.8	32.8	32.8	48.5	62.8	65.6	68.5	74.2	79.9
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: P320803
 CATALOG NUMBER: GLEON-SA9B-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: P320803

CATALOG NUMBER: GLEON-SA9B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	10869.5	10869.5	10869.5	10869.5	10869.5	10869.5	10869.5	10869.5	10869.5	10869.5	10869.5
2.5°	10172.0	10294.7	10421.6	10548.6	10694.1	10839.6	11009.3	11177.7	11321.7	11465.8	11585.6
5°	8557.3	8752.7	8982.4	9212.0	9504.4	9796.9	10154.9	10511.5	10829.6	11147.7	11517.2
7.5°	6778.5	7032.4	7332.0	7631.5	8009.5	8387.5	8851.1	9314.7	9764.1	10212.0	10779.7
10°	5685.8	5952.6	6247.9	6541.7	6926.8	7310.6	7801.3	8290.5	8795.5	9299.0	9940.9
12.5°	5112.4	5407.7	5667.3	5926.9	6239.3	6550.3	7025.3	7500.3	8093.7	8685.7	9303.3
15°	4500.5	4822.8	5133.8	5444.8	5785.7	6125.2	6587.3	7049.5	7698.6	8347.6	9058.0
17.5°	3760.1	4099.6	4479.1	4857.1	5302.1	5745.7	6337.7	6929.7	7698.6	8466.0	9303.3
20°	2988.4	3335.0	3788.7	4242.3	4795.7	5347.8	6115.2	6882.6	7918.2	8952.4	10020.8
22.5°	2357.9	2663.2	3158.2	3651.7	4290.8	4929.8	5914.1	6896.9	8250.6	9602.9	11045.0
25°	1911.4	2126.8	2613.3	3098.2	3835.7	4573.2	5791.4	7008.1	8734.2	10458.7	12247.5
27.5°	1637.6	1778.8	2232.4	2684.6	3490.5	4295.0	5741.5	7186.5	9347.5	11508.6	13555.6
30°	1500.6	1599.1	1982.8	2365.1	3183.8	4002.6	5681.6	7360.5	9938.1	12514.2	14578.3
32.5°	1386.5	1465.0	1793.0	2119.7	2918.5	3717.3	5566.0	7413.3	10350.3	13287.4	15444.2
35°	1289.5	1355.1	1640.4	1925.7	2710.3	3494.8	5372.0	7249.2	10608.5	13967.8	16345.7
37.5°	1211.1	1262.4	1526.3	1790.2	2530.5	3270.9	5150.9	7031.0	10838.2	14645.4	17359.9
40°	1149.7	1193.9	1440.7	1687.5	2359.3	3031.2	4961.2	6889.8	11154.8	15419.9	18431.2
42.5°	1115.5	1172.5	1366.5	1559.1	2196.7	2834.4	4808.6	6782.8	11448.7	16113.2	19368.3
45°	1106.9	1188.2	1328.0	1467.8	2075.5	2683.2	4673.1	6661.5	11638.4	16615.3	20074.4
47.5°	1092.7	1159.7	1298.1	1436.4	2015.6	2593.3	4600.3	6605.9	11828.1	17048.9	20660.7
50°	1101.2	1109.8	1273.8	1436.4	2007.0	2577.6	4683.0	6788.5	12238.9	17688.0	21331.1
52.5°	1085.5	1048.4	1228.2	1407.9	2005.6	2603.3	4921.3	7239.2	13002.1	18763.5	22057.2
55°	1002.8	954.3	1142.6	1330.9	1975.6	2619.0	5205.1	7789.8	14026.3	20261.3	23362.4
57.5°	930.0	885.8	1045.6	1203.9	1884.3	2564.8	5497.5	8428.9	15109.0	21787.6	24833.1
60°	833.0	823.1	937.2	1051.3	1743.1	2433.5	5738.6	9042.3	15836.4	22629.2	25399.4
62.5°	753.2	758.9	843.0	927.2	1566.2	2203.9	5818.5	9431.7	15816.5	22201.3	24828.8
65°	691.8	701.8	784.5	867.3	1415.0	1962.8	5556.0	9147.8	15016.2	20883.2	23700.5
67.5°	631.9	643.3	741.8	838.8	1281.0	1721.7	4899.9	8076.6	13577.0	19075.9	22265.5
70°	574.9	589.1	696.1	803.1	1184.0	1563.4	4054.0	6544.6	11775.3	17004.7	20603.6
72.5°	513.5	527.8	641.9	756.0	1122.6	1487.8	3305.1	5121.0	9555.8	13989.2	17623.8
75°	450.8	460.7	584.8	707.5	1038.5	1369.4	2593.3	3815.8	7313.4	10811.1	13311.6
77.5°	388.0	400.8	505.0	607.7	881.5	1154.0	1954.2	2754.5	5366.3	7976.7	9257.7
80°	309.5	321.0	395.1	467.9	680.4	891.5	1343.7	1795.9	3693.1	5590.3	6312.0
82.5°	236.8	249.6	299.6	348.1	485.0	621.9	814.5	1007.1	2453.5	3898.5	3958.4
85°	162.6	166.9	202.6	236.8	299.6	362.3	466.4	570.6	1623.3	2676.0	2229.5
87.5°	81.3	81.3	105.6	129.8	161.2	192.6	246.8	299.6	519.2	738.9	425.1
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: P320803
 CATALOG NUMBER: GLEON-SA9B-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: P320803

CATALOG NUMBER: GLEON-SA9B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	10869.5	10869.5	10869.5	10869.5	10869.5	10869.5	10869.5	10869.5	10869.5	10869.5	10869.5
2.5°	11738.3	11842.4	11947.9	12027.8	12109.1	12226.1	12343.1	12364.5	12387.3	12341.6	12296.0
5°	11889.5	12204.7	12521.4	12813.8	13106.2	13281.7	13457.1	13492.8	13528.5	13418.6	13307.4
7.5°	11328.9	11878.1	12427.2	12930.8	13434.3	13739.6	14046.3	14114.7	14184.6	14004.9	13825.2
10°	10580.0	11254.7	11929.4	12592.7	13256.0	13699.6	14143.3	14231.7	14320.1	14096.2	13872.2
12.5°	10000.8	10721.2	11441.6	12140.5	12840.9	13300.2	13759.5	13869.4	13979.2	13816.6	13652.6
15°	9822.5	10500.1	11177.7	11786.8	12397.3	12772.4	13149.0	13193.2	13238.9	13213.2	13187.5
17.5°	10146.3	10758.3	11371.7	11702.6	12035.0	12184.7	12335.9	12384.4	12434.4	12498.6	12564.2
20°	10930.9	11361.7	11793.9	11779.6	11763.9	11691.2	11617.0	11604.2	11591.3	11775.3	11960.8
22.5°	12102.0	12273.2	12445.8	12044.9	11644.1	11400.2	11154.8	11106.3	11056.4	11251.8	11448.7
25°	13373.0	13341.6	13308.8	12545.6	11781.1	11316.0	10851.0	10796.8	10742.6	10909.5	11077.8
27.5°	14631.1	14425.7	14220.3	13183.3	12146.2	11471.5	10796.8	10742.6	10688.4	10836.7	10985.1
30°	15554.0	15224.5	14895.0	13721.0	12547.1	11745.4	10943.7	10855.3	10765.4	10948.0	11130.6
32.5°	16274.4	15832.2	15390.0	14157.5	12925.1	12057.8	11190.5	11052.1	10913.8	11157.7	11401.6
35°	16993.3	16371.4	15748.0	14546.9	13344.4	12427.2	11508.6	11338.9	11169.1	11504.3	11839.5
37.5°	17897.7	17004.7	16110.3	14984.9	13859.4	12980.7	12100.6	11926.5	11752.5	12179.0	12607.0
40°	18879.1	17688.0	16496.9	15464.1	14431.4	13746.7	13060.6	12895.1	12728.2	13247.4	13766.7
42.5°	19695.0	18324.2	16953.4	16041.9	15128.9	14646.8	14163.2	14161.8	14158.9	14685.3	15211.7
45°	20358.3	18854.8	17349.9	16605.3	15859.3	15608.2	15357.2	15558.3	15759.4	16234.4	16710.9
47.5°	20853.3	19299.9	17745.0	17250.1	16755.1	16792.2	16829.3	17238.6	17648.0	17953.3	18260.0
50°	21175.7	19703.6	18230.0	18077.4	17924.8	18257.1	18590.9	19060.2	19531.0	19739.2	19947.5
52.5°	21645.0	20251.3	18856.2	19027.4	19198.6	19877.6	20556.6	21031.6	21506.6	21583.6	21662.1
55°	22730.5	21258.4	19784.9	20112.9	20442.5	21438.1	22435.2	22806.1	23177.0	23205.5	23234.0
57.5°	24272.5	22669.1	21065.8	21419.6	21773.3	22923.1	24074.2	24473.6	24874.4	24818.8	24761.7
60°	25426.5	24008.6	22589.3	22945.9	23302.5	24423.7	25544.9	26004.2	26464.9	26342.3	26219.6
62.5°	25497.8	24740.4	23981.5	24303.9	24627.7	25726.0	26824.4	27296.5	27768.7	27554.7	27340.8
65°	24363.8	24703.3	25042.8	25149.7	25256.7	26280.9	27306.5	27667.4	28029.7	27921.3	27812.9
67.5°	22801.8	24052.8	25305.2	25089.8	24874.4	25355.2	25835.9	26208.2	26580.5	26519.1	26456.4
70°	21242.7	22913.1	24583.4	23525.0	22465.2	22266.9	22068.6	22469.4	22871.7	22623.5	22373.9
72.5°	18588.1	20368.3	22149.9	20200.0	18250.0	17572.4	16894.9	17404.1	17913.4	17518.2	17121.7
75°	14591.2	16558.2	18526.7	16200.2	13873.7	12969.3	12064.9	12502.8	12940.8	12669.7	12397.3
77.5°	10862.4	12801.0	14739.5	12374.5	10008.0	9336.1	8662.8	8792.6	8923.9	8878.2	8831.2
80°	7367.6	8718.5	10070.7	8495.9	6921.1	6972.5	7025.3	6963.9	6901.2	6992.5	7083.8
82.5°	4701.6	5744.3	6788.5	5952.6	5116.7	5596.0	6075.3	5839.9	5603.1	5690.1	5778.5
85°	2683.2	3703.1	4724.4	4403.5	4081.1	4360.7	4641.7	4276.5	3911.3	4071.1	4232.3
87.5°	707.5	2048.4	3390.7	3078.3	2765.9	2403.6	2041.3	1557.7	1074.1	1569.1	2064.1
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: P320803
 CATALOG NUMBER: GLEON-SA9B-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: P320803

CATALOG NUMBER: GLEON-SA9B-830-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	10869.5	10869.5	10869.5	10869.5	10869.5	10869.5	10869.5
2.5°	12271.8	12247.5	12160.5	12072.0	11940.8	11832.4	11644.1
5°	13153.3	12999.2	12733.9	12467.2	12170.5	11829.6	11451.5
7.5°	13465.7	13104.8	12595.6	12084.9	11625.6	11086.4	10584.3
10°	13333.0	12792.4	12130.5	11467.2	10909.5	10289.0	9731.2
12.5°	13079.1	12504.3	11775.3	11045.0	10410.2	9744.1	9119.3
15°	12729.6	12270.3	11587.1	10903.8	10264.7	9617.1	8876.8
17.5°	12347.4	12129.1	11635.6	11140.6	10587.1	9959.5	9090.8
20°	12039.2	12119.1	11922.3	11725.4	11281.8	10734.0	9758.3
22.5°	11831.0	12214.7	12365.9	12518.5	12251.8	11823.8	10695.5
25°	11714.0	12350.2	12856.6	13364.4	13246.0	12916.5	11833.8
27.5°	11765.4	12545.6	13331.6	14119.0	14228.8	14137.5	13033.5
30°	11919.4	12709.7	13666.8	14625.4	15063.3	15186.0	14033.4
32.5°	12176.2	12950.7	13993.5	15037.6	15699.5	16090.4	14947.8
35°	12564.2	13288.8	14375.8	15462.7	16318.6	17031.8	15892.1
37.5°	13230.3	13853.7	14856.5	15860.7	16970.5	18041.7	16932.0
40°	14206.0	14646.8	15494.1	16342.8	17739.3	19185.8	18091.7
42.5°	15437.0	15663.8	16335.7	17007.6	18542.4	20224.2	19225.7
45°	16770.8	16830.7	17252.9	17676.6	19178.6	20931.7	20077.3
47.5°	18054.6	17849.2	18017.5	18185.8	19666.5	21436.7	20723.5
50°	19375.5	18803.5	18715.0	18626.6	20154.3	22031.5	21545.1
52.5°	20719.2	19776.3	19426.8	19075.9	20736.3	22820.3	22567.9
55°	22034.4	20834.7	20364.0	19893.3	21626.4	23783.2	24069.9
57.5°	23402.3	22042.9	21606.4	21169.9	22934.5	25002.8	25417.9
60°	24874.4	23527.9	23178.4	22827.5	24560.6	26320.9	26018.5
62.5°	26270.9	25201.1	25017.1	24831.6	26205.3	27333.6	25784.5
65°	27203.8	26593.3	26764.5	26937.1	27449.2	27586.1	25099.8
67.5°	26580.5	26704.6	27427.8	28152.4	27800.1	26835.8	23750.4
70°	23117.1	23861.7	25574.8	27289.4	26507.7	24825.9	21328.3
72.5°	17957.6	18794.9	21338.3	23883.1	23162.7	21102.9	17518.2
75°	13341.6	14287.3	17094.6	19901.8	18901.9	15785.1	12542.8
77.5°	9464.5	10097.8	12869.4	15642.5	14012.0	10507.2	8440.3
80°	6889.8	6695.8	8240.6	9785.4	9514.4	6949.7	5420.5
82.5°	5305.0	4831.4	5558.9	6286.4	6246.4	4822.8	3976.9
85°	4042.6	3852.8	4496.2	5139.5	4588.9	3266.6	2527.7
87.5°	2356.5	2650.3	3407.8	4166.7	3126.8	991.4	490.7
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: P320803
 CATALOG NUMBER: GLEON-SA9B-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.

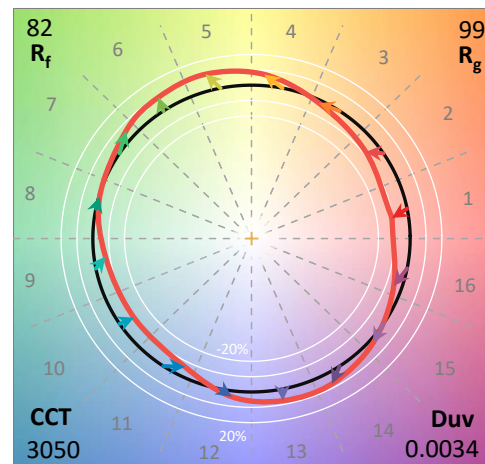
Test Information

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

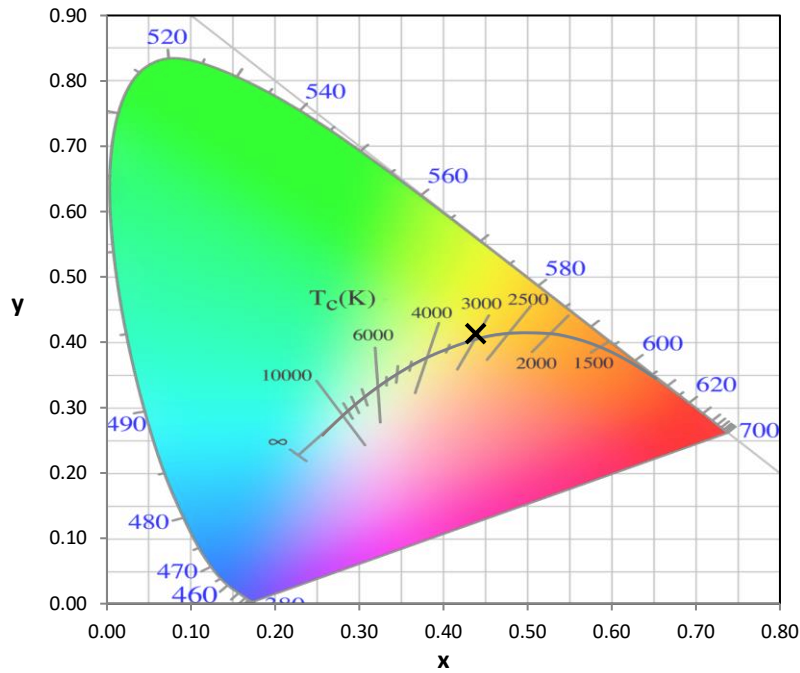
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

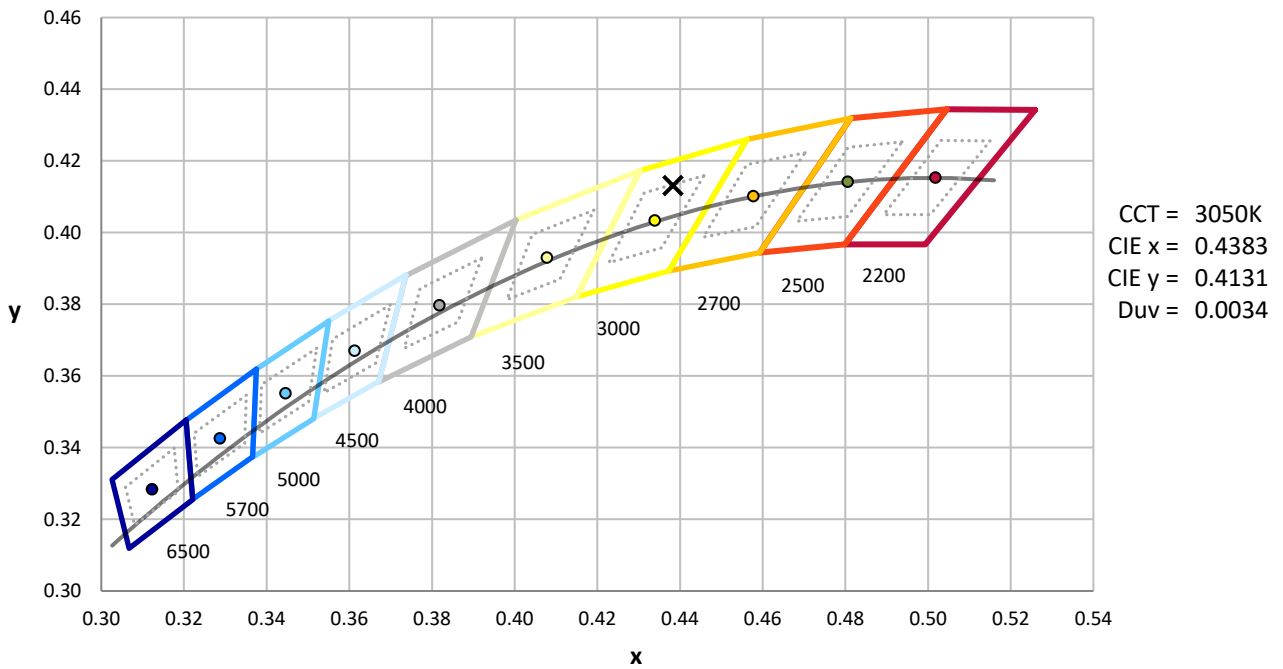
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



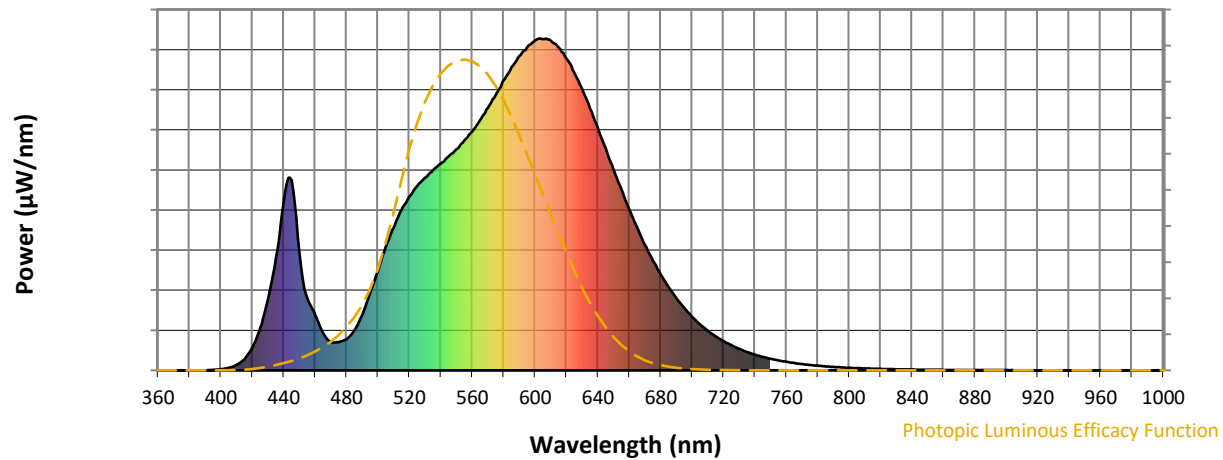
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

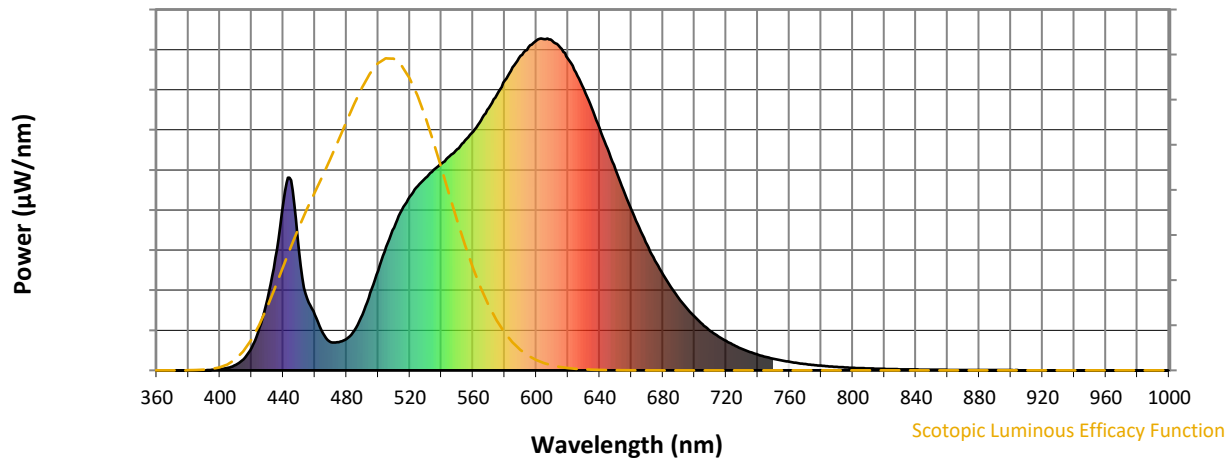


Photopic Lumens: NR

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



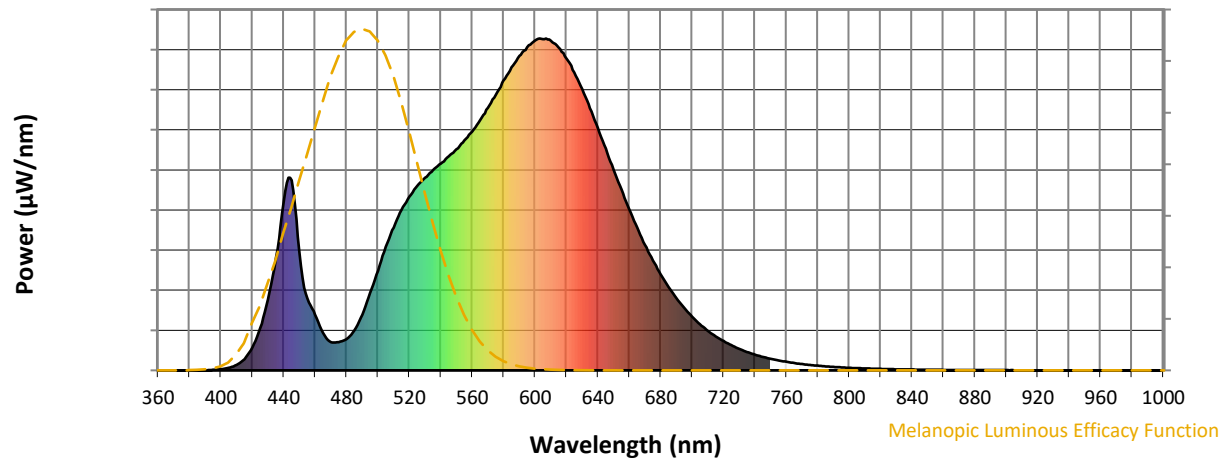
Scotopic Lumens: NR

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

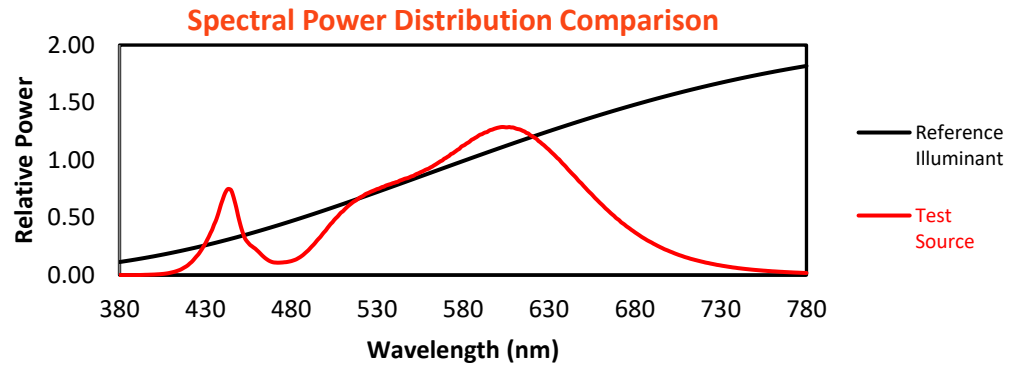
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	168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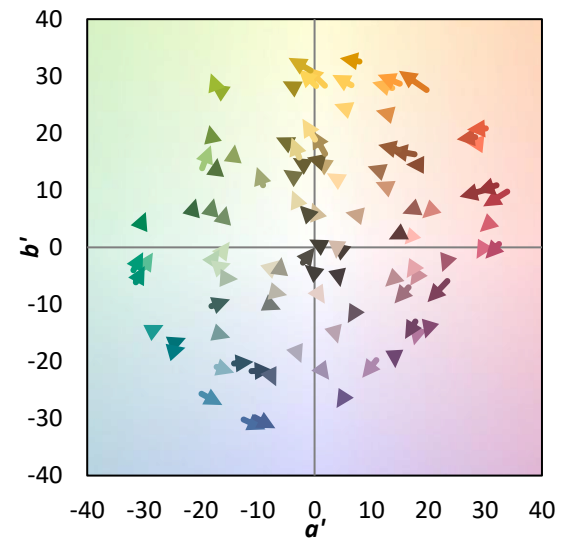
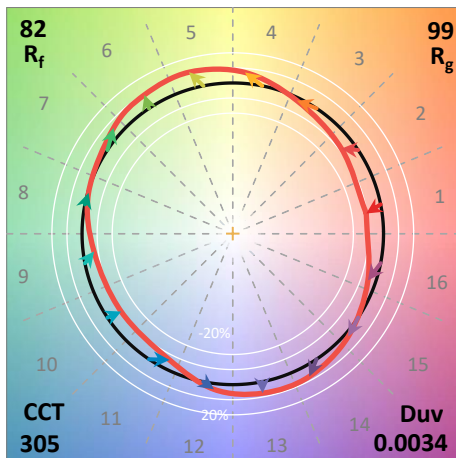
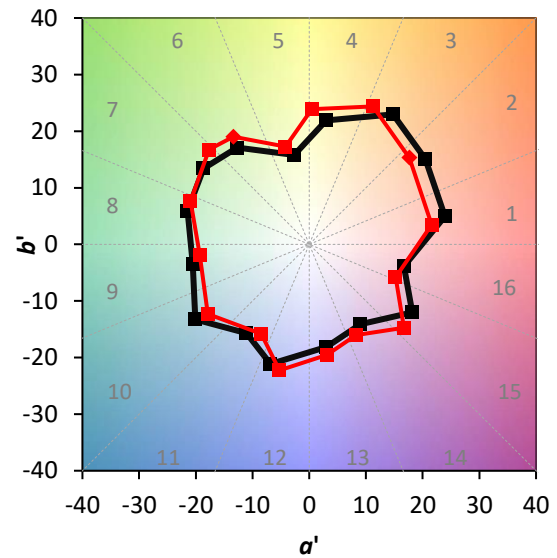
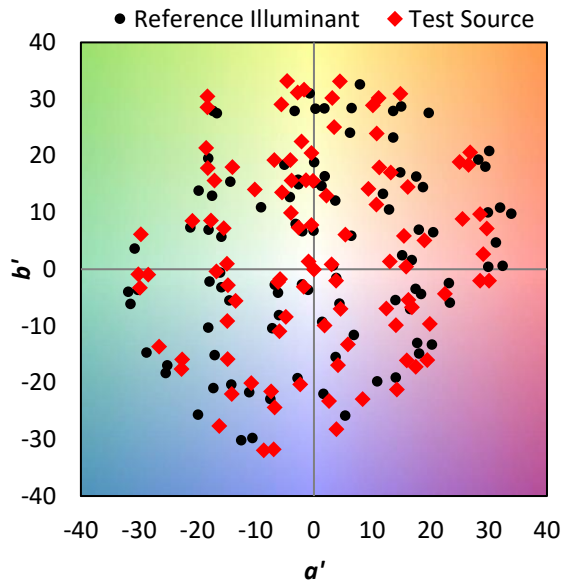
TM-30-18

Summary

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

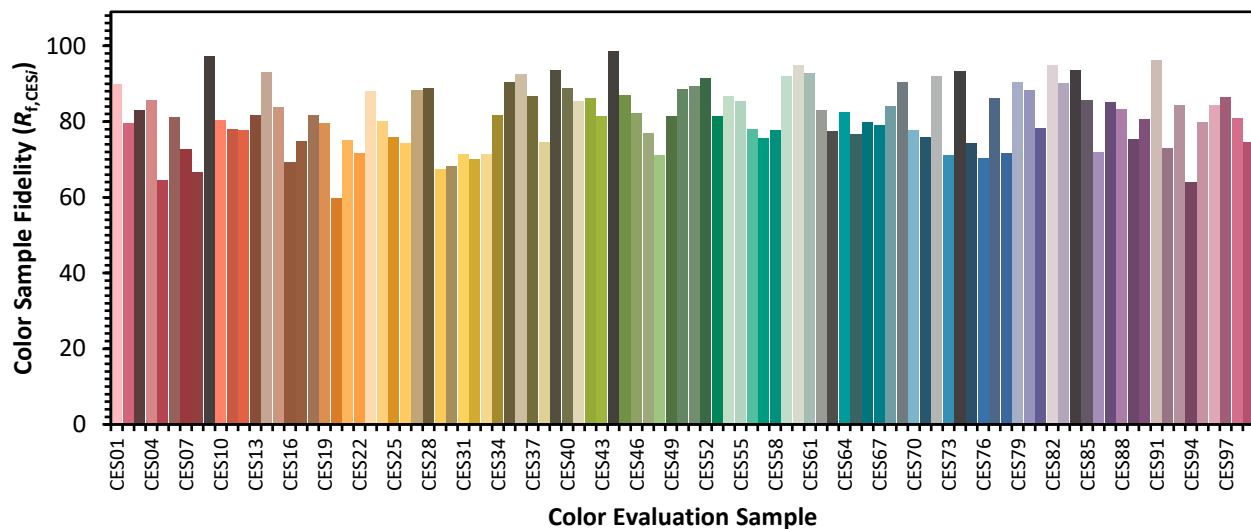


Color Vector Graphics

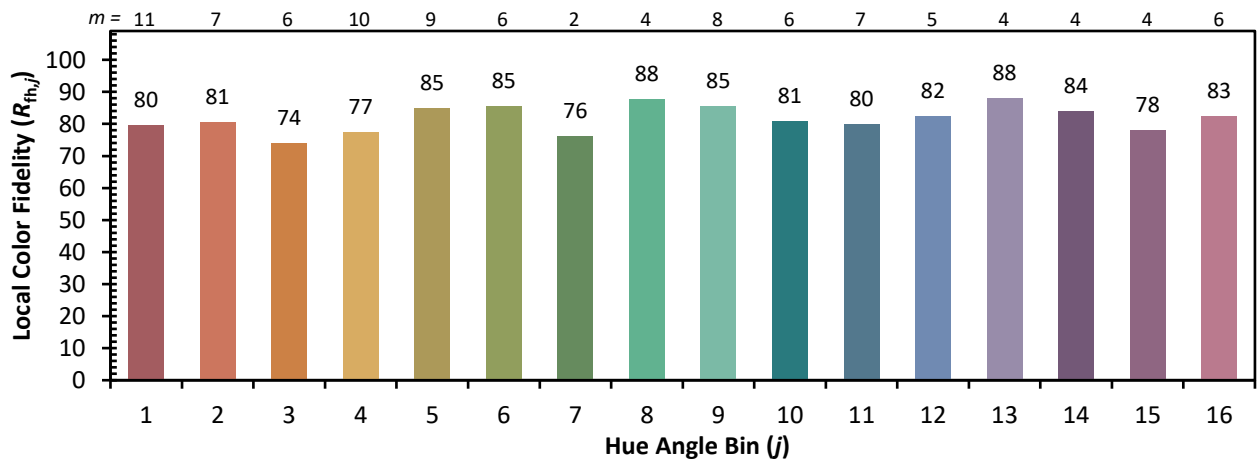
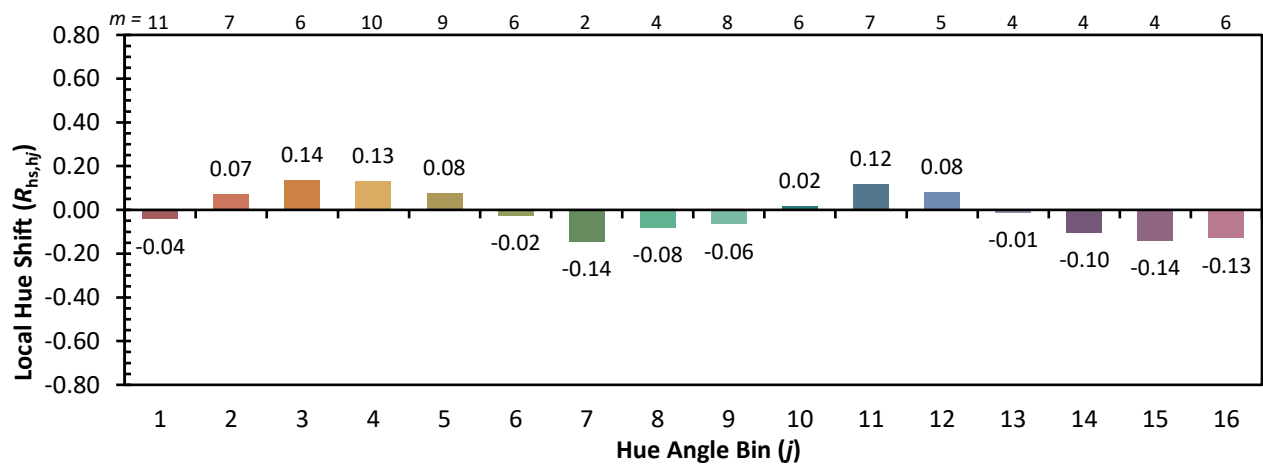
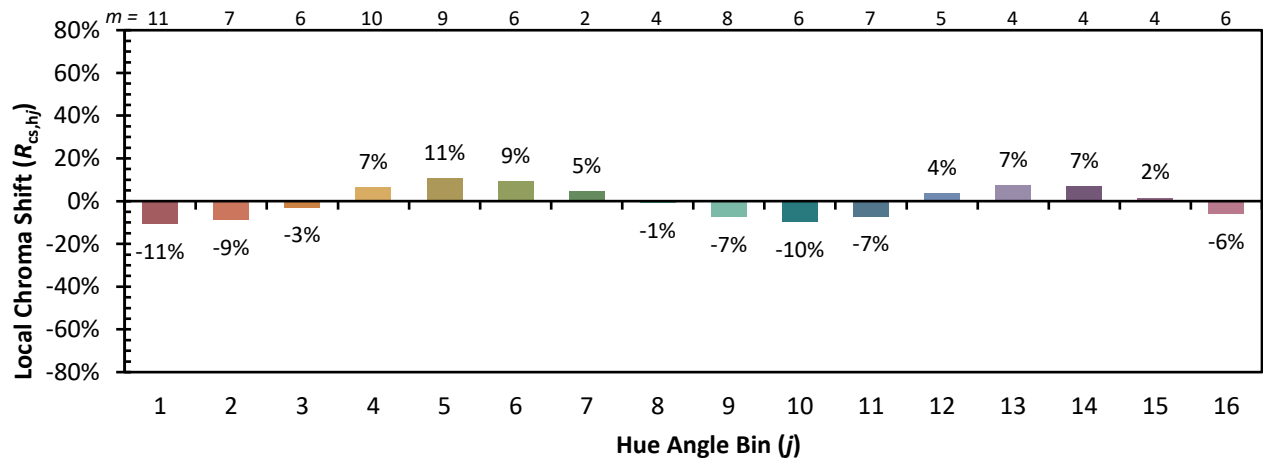


Individual Sample Fidelity Index ($R_{f,i}$)

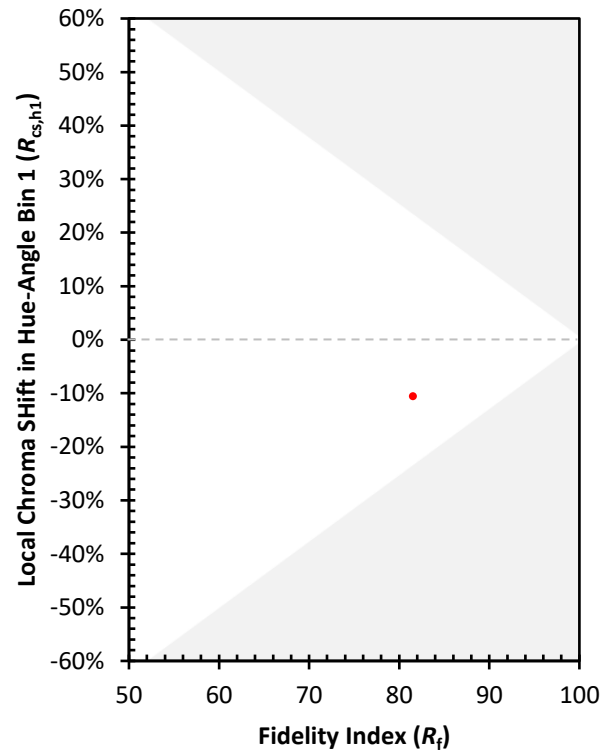
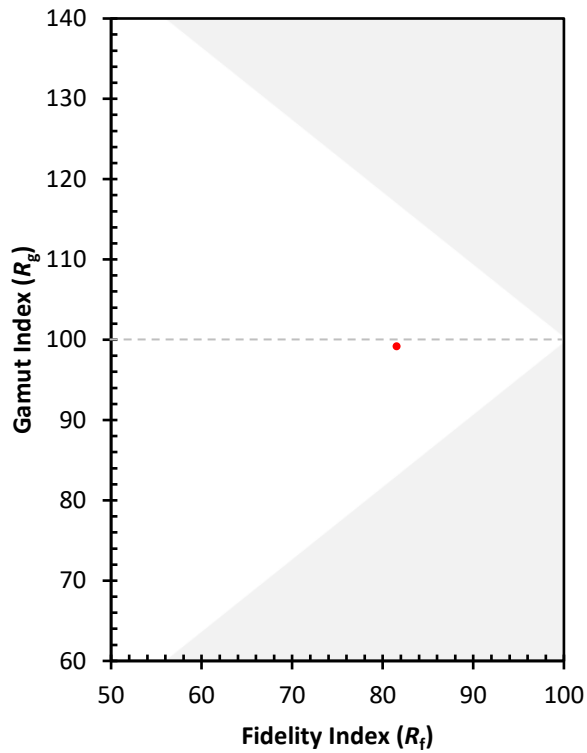
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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