

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: P320488

Luminaire Tested: **GLEON-SA4C-830-U-SLL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320488
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-SA4C-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19926 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

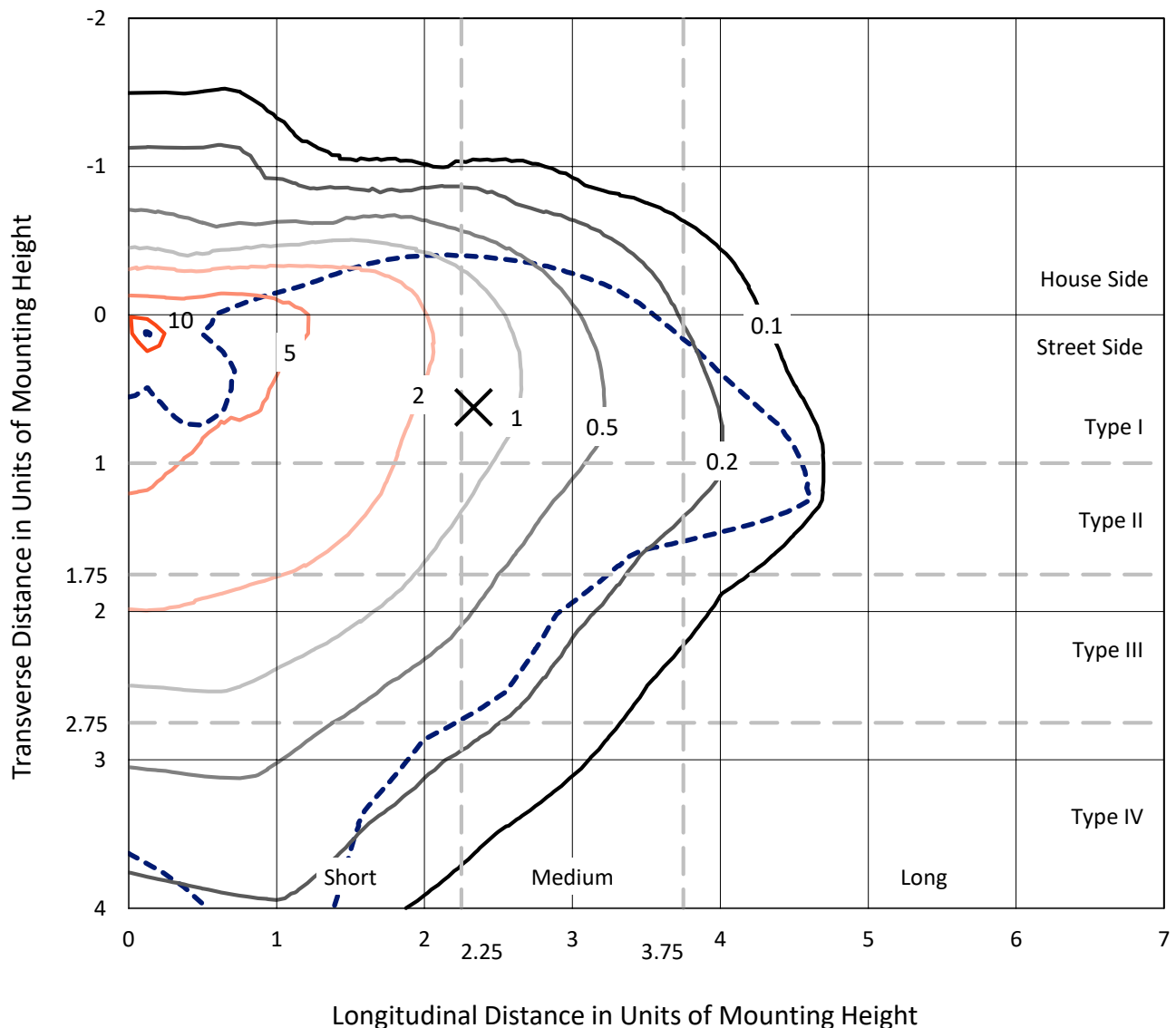
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

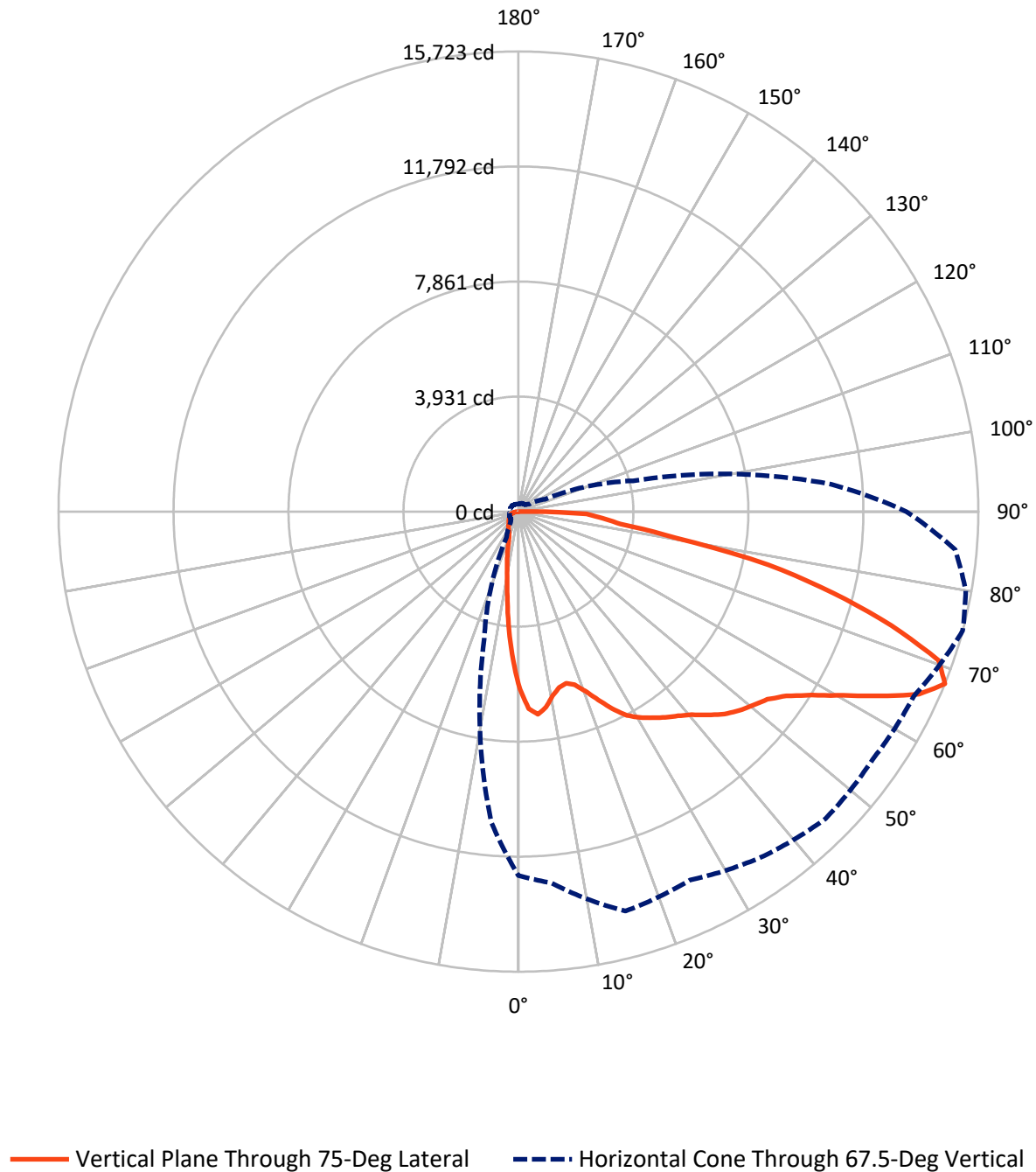
× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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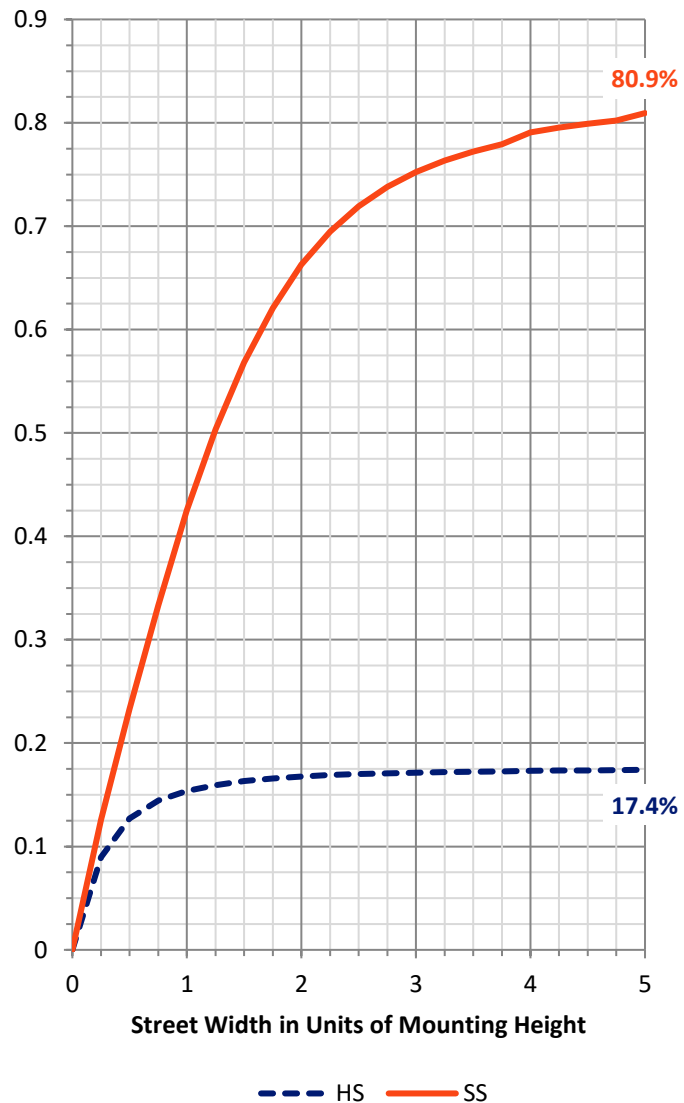
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3509.5	0.0	3509.5
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	16416.5	0.0	16416.5
	% Fixture	82.4	0.0	82.4
Total	Lumens	19926.0	0.0	19926.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.5	2.4
10°-20°	973.3	4.9
20°-30°	1384.2	6.9
30°-40°	1994.7	10.0
40°-50°	2811.0	14.1
50°-60°	3907.8	19.6
60°-70°	4725.7	23.7
70°-80°	2904.8	14.6
80°-90°	755.9	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°	19926.0	100.0
0°-180°	19926.0	100.0

Coefficient of Utilization



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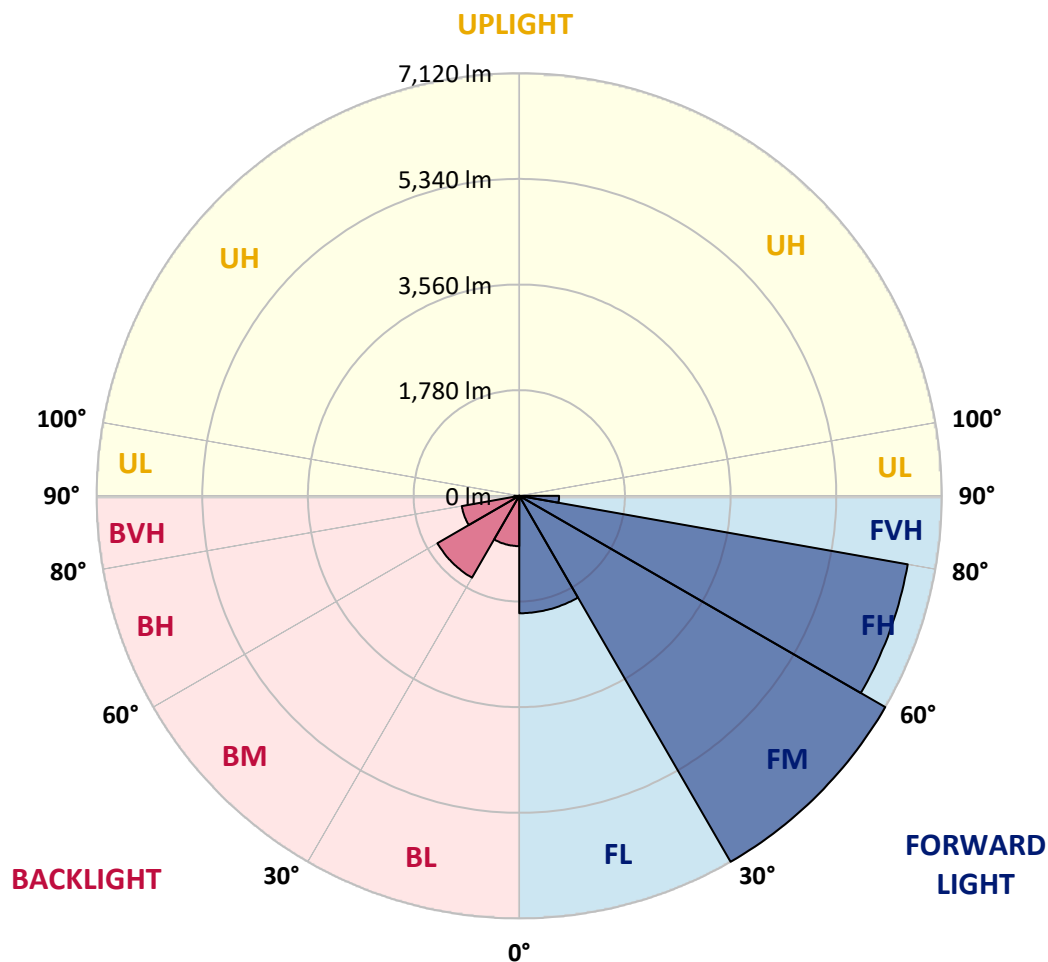
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1978.4	9.9			
FM	(30°-60°)	7120.5	35.7			
FH	(60°-80°)	6646.6	33.4			G3/7500
FVH	(80°-90°)	671.0	3.4			G4/750
BL	(0°-30°)	847.6	4.3	B2/1000		
BM	(30°-60°)	1593.0	8.0	B2/2500		
BH	(60°-80°)	983.9	4.9	B2/1000		G2/1000
BVH	(80°-90°)	84.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	6070.5	6070.5	6070.5	6070.5	6070.5	6070.5	6070.5	6070.5	6070.5	6070.5	6070.5
2.5°	6470.5	6555.7	6614.7	6672.8	6718.2	6762.8	6828.2	6893.5	6906.2	6918.2	6892.7
5°	6432.2	6640.2	6817.0	6993.1	7156.4	7319.7	7417.7	7515.7	7535.6	7555.5	7494.2
7.5°	6020.4	6327.1	6633.8	6940.5	7221.7	7502.9	7674.2	7844.7	7883.7	7922.0	7821.6
10°	5551.9	5908.8	6285.6	6662.5	7032.9	7403.4	7651.1	7898.9	7948.3	7997.7	7872.6
12.5°	5195.8	5585.4	5987.7	6390.0	6781.2	7171.5	7428.1	7684.6	7745.9	7807.3	7716.4
15°	5058.8	5485.8	5864.2	6242.6	6583.6	6923.8	7134.1	7343.6	7369.1	7393.8	7379.5
17.5°	5195.8	5666.6	6009.2	6351.0	6536.6	6721.4	6805.9	6889.5	6917.4	6944.5	6981.1
20°	5596.5	6104.8	6346.2	6586.8	6578.8	6570.1	6529.4	6488.0	6480.8	6473.7	6577.2
22.5°	6168.5	6758.9	6855.3	6950.9	6727.0	6503.1	6366.9	6229.9	6202.8	6174.9	6284.9
25°	6840.1	7468.7	7451.2	7432.8	7006.6	6579.6	6319.9	6060.2	6029.9	5999.6	6093.7
27.5°	7570.7	8171.3	8056.6	7941.9	7362.7	6783.6	6406.7	6029.9	5999.6	5969.4	6052.2
30°	8141.9	8686.8	8502.8	8318.7	7663.1	7007.4	6559.7	6112.0	6062.6	6012.4	6114.4
32.5°	8625.4	9089.1	8842.1	8595.2	7906.9	7218.5	6734.2	6249.8	6172.5	6095.2	6231.5
35°	9128.9	9490.6	9143.3	8795.1	8124.3	7452.8	6940.5	6427.5	6332.7	6237.8	6425.1
37.5°	9695.4	9995.7	9497.0	8997.5	8368.9	7740.3	7249.6	6758.1	6660.9	6563.7	6802.7
40°	10293.6	10543.8	9878.6	9213.4	8636.6	8059.8	7677.4	7294.2	7201.8	7108.6	7398.6
42.5°	10817.0	10999.5	10233.9	9468.3	8959.2	8449.4	8180.1	7910.0	7909.2	7907.6	8201.6
45°	11211.4	11369.9	10530.3	9689.8	9273.9	8857.3	8717.1	8576.8	8689.2	8801.5	9067.6
47.5°	11538.8	11646.4	10778.8	9910.5	9634.0	9357.6	9378.3	9399.0	9627.6	9856.3	10027.6
50°	11913.3	11826.4	11004.3	10181.3	10096.1	10010.8	10197.2	10382.9	10645.8	10907.9	11024.2
52.5°	12318.8	12088.5	11310.2	10531.0	10626.6	10722.2	11101.5	11480.7	11746.0	12011.2	12055.1
55°	13047.7	12694.8	11872.6	11049.7	11233.7	11416.9	11973.8	12529.9	12737.0	12944.1	12960.1
57.5°	13869.1	13556.0	12660.5	11765.1	11962.6	12160.2	12803.1	13445.2	13669.1	13892.2	13861.1
60°	14185.3	14200.5	13408.6	12615.9	12815.1	13014.2	13640.4	14266.6	14523.9	14780.4	14711.9
62.5°	13866.7	14240.3	13817.3	13393.4	13574.3	13754.3	14367.8	14981.2	15244.9	15508.6	15389.1
65°	13236.5	13607.0	13796.6	13986.2	14045.9	14105.7	14678.5	15250.5	15452.8	15654.4	15593.8
67.5°	12435.1	12734.6	13434.1	14132.7	14012.5	13892.2	14160.6	14429.1	14637.0	14845.0	14810.7
70°	11507.0	11863.9	12796.7	13729.6	13138.5	12546.6	12435.9	12325.1	12549.8	12773.6	12635.0
72.5°	9842.7	10381.3	11376.3	12370.5	11281.5	10192.5	9814.1	9435.6	9720.0	10004.5	9783.8
75°	7434.4	8149.0	9248.4	10347.0	9047.7	7748.3	7243.2	6738.2	6982.7	7227.3	7075.9
77.5°	5170.3	6066.6	7149.2	8231.9	6911.0	5589.4	5214.1	4838.1	4911.4	4983.9	4958.4
80°	3525.2	4114.7	4870.0	5624.4	4744.9	3865.4	3894.9	3923.6	3889.3	3854.2	3905.2
82.5°	2210.7	2625.8	3208.9	3791.3	3324.5	2857.6	3125.3	3393.0	3261.5	3129.3	3178.7
85°	1245.2	1498.5	2068.9	2638.5	2459.3	2279.2	2436.2	2592.3	2388.4	2184.4	2274.5
87.5°	237.4	395.1	1144.8	1893.7	1719.2	1544.7	1342.4	1140.0	870.0	599.9	876.3
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



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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°	6070.5	6070.5	6070.5	6070.5	6070.5	6070.5	6070.5	6070.5	6070.5	6070.5	6070.5
2.5°	6867.2	6853.7	6840.1	6791.5	6742.1	6668.8	6608.3	6503.1	6445.8	6358.9	6272.1
5°	7432.0	7346.0	7260.0	7111.8	6962.8	6797.1	6606.7	6395.6	6236.3	6029.1	5822.0
7.5°	7721.2	7520.5	7318.9	7034.5	6749.3	6492.8	6191.6	5911.2	5672.2	5402.9	5133.7
10°	7747.5	7446.4	7144.4	6774.8	6404.3	6092.9	5746.3	5434.8	5148.0	4838.9	4529.0
12.5°	7624.8	7304.6	6983.5	6576.4	6168.5	5814.8	5442.0	5093.0	4775.2	4435.0	4094.0
15°	7365.1	7109.4	6852.9	6471.3	6089.7	5732.8	5371.1	4957.6	4598.3	4250.2	3901.2
17.5°	7017.0	6895.9	6774.0	6498.4	6221.9	5912.8	5562.3	5077.1	4656.5	4278.1	3899.7
20°	6680.0	6724.6	6768.4	6658.5	6548.5	6300.8	5994.9	5450.0	4913.0	4418.3	3922.8
22.5°	6394.0	6608.3	6821.8	6907.0	6991.5	6842.5	6603.5	5973.4	5262.7	4616.6	3970.6
25°	6186.9	6542.2	6897.5	7181.1	7463.9	7397.8	7213.8	6609.1	5726.4	4902.6	4078.1
27.5°	6135.1	6570.9	7006.6	7446.4	7885.3	7946.7	7895.7	7279.1	6279.3	5258.0	4235.8
30°	6216.3	6657.7	7098.2	7633.6	8168.2	8412.7	8481.2	7837.5	6911.0	5672.2	4432.6
32.5°	6367.7	6800.3	7232.9	7816.0	8398.4	8768.0	8986.3	8348.2	7351.6	5984.5	4616.6
35°	6612.3	7017.0	7421.7	8028.7	8635.8	9113.8	9512.1	8875.6	7742.7	6202.8	4662.1
37.5°	7040.9	7389.0	7737.2	8298.0	8858.1	9477.9	10076.2	9456.4	8165.8	6413.1	4659.7
40°	7688.6	7934.7	8180.1	8654.1	9127.3	9907.3	10715.1	10104.0	8633.4	6641.0	4648.5
42.5°	8495.6	8622.3	8748.1	9123.4	9498.6	10355.8	11295.0	10737.4	9079.5	6852.9	4626.2
45°	9332.9	9366.3	9399.8	9636.4	9872.2	10711.1	11690.2	11213.0	9469.1	7036.9	4603.9
47.5°	10198.0	10083.3	9968.6	10062.6	10156.6	10983.6	11972.2	11573.9	9860.3	7240.8	4620.6
50°	11140.5	10821.0	10501.6	10452.2	10402.8	11256.0	12304.4	12032.8	10330.3	7538.0	4745.7
52.5°	12098.1	11571.5	11044.9	10849.7	10653.7	11581.0	12745.0	12604.0	11001.1	7998.5	4995.1
55°	12976.0	12306.0	11636.0	11373.1	11110.2	12078.2	13282.7	13442.8	11860.7	8587.2	5312.9
57.5°	13829.2	13070.0	12310.8	12067.0	11823.2	12808.7	13963.9	14195.7	12729.0	9152.0	5574.2
60°	14643.4	13892.2	13140.1	12944.9	12749.0	13716.9	14700.0	14531.1	13176.8	9416.5	5655.5
62.5°	15269.6	14672.1	14074.6	13971.8	13868.3	14635.4	15265.6	14400.4	12892.3	9156.0	5419.7
65°	15533.3	15193.1	14852.1	14948.5	15044.1	15330.1	15406.6	14018.0	11998.5	8426.3	4854.0
67.5°	14775.7	14845.0	14914.3	15319.0	15722.9	15526.1	14987.6	13264.4	10726.2	7392.2	4058.2
70°	12495.6	12911.5	13326.5	14284.1	15240.9	14804.3	13865.1	11911.7	9195.0	6201.2	3206.6
72.5°	9562.3	10029.9	10496.8	11918.0	13338.5	12936.2	11785.8	9783.8	7372.3	4952.0	2531.0
75°	6923.8	7452.0	7979.3	9547.2	11115.0	10556.5	8815.8	7005.0	5599.7	3780.2	1959.8
77.5°	4932.1	5285.8	5639.6	7188.3	8736.2	7826.4	5868.2	4713.8	3875.8	2627.4	1378.2
80°	3956.2	3847.9	3739.5	4602.3	5465.1	5313.7	3881.3	3027.3	2682.4	1760.6	838.9
82.5°	3227.3	2962.8	2698.3	3104.6	3510.9	3488.6	2693.5	2221.1	1996.4	1223.7	450.9
85°	2363.7	2257.7	2151.8	2511.1	2870.4	2563.7	1824.4	1411.7	1556.7	901.0	245.4
87.5°	1152.8	1316.9	1480.2	1904.0	2327.0	1747.1	553.7	274.1	379.2	249.4	118.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320488
 CATALOG NUMBER: GLEON-SA4C-830-U-SLL

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: P320488

CATALOG NUMBER: GLEON-SA4C-830-U-SLL

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6070.5	6070.5	6070.5	6070.5	6070.5	6070.5	6070.5	6070.5	6070.5	6070.5	6070.5
2.5°	6207.6	6142.2	6068.2	5994.1	5909.6	5824.4	5774.2	5723.2	5668.2	5613.3	5551.1
5°	5685.0	5547.9	5392.6	5237.2	5083.5	4929.7	4846.9	4764.0	4676.4	4588.0	4511.5
7.5°	4934.5	4734.6	4519.5	4303.6	4112.4	3920.4	3801.7	3682.2	3573.8	3464.7	3373.1
10°	4274.1	4019.1	3803.3	3586.6	3442.4	3298.2	3189.0	3079.9	2974.7	2868.8	2767.6
12.5°	3839.1	3584.2	3447.1	3310.1	3190.6	3071.1	2945.3	2818.6	2674.4	2529.4	2423.4
15°	3669.4	3437.6	3285.4	3132.5	2972.3	2811.4	2656.9	2502.3	2331.8	2161.3	2041.0
17.5°	3596.1	3292.6	3079.9	2866.4	2655.3	2444.2	2264.9	2085.7	1899.2	1712.8	1590.9
20°	3518.8	3114.9	2829.7	2543.7	2272.9	2002.0	1798.9	1595.7	1429.2	1262.7	1169.5
22.5°	3448.7	2926.1	2568.4	2209.9	1889.7	1569.4	1370.3	1170.3	1068.3	966.3	928.9
25°	3420.1	2761.2	2321.5	1881.7	1543.9	1205.3	1063.5	921.7	882.7	842.9	823.7
27.5°	3424.8	2613.8	2113.5	1612.4	1308.1	1003.8	906.6	809.4	785.5	760.8	748.9
30°	3443.2	2453.7	1917.6	1381.4	1130.5	879.5	816.6	752.8	727.4	701.9	686.7
32.5°	3463.9	2310.3	1766.2	1221.3	1016.5	811.0	759.2	706.6	681.9	657.2	642.1
35°	3428.0	2193.2	1662.6	1132.1	943.2	753.6	709.8	665.2	638.1	611.0	596.7
37.5°	3367.5	2075.3	1582.2	1088.2	895.4	701.9	670.0	637.3	609.4	580.8	567.2
40°	3312.5	1975.7	1522.4	1068.3	869.2	669.2	642.1	615.0	586.3	556.9	540.9
42.5°	3267.9	1908.8	1463.5	1018.1	845.3	671.6	633.3	594.3	566.4	538.5	521.0
45°	3234.4	1865.0	1417.3	969.5	822.9	676.4	627.8	579.2	551.3	522.6	501.9
47.5°	3231.3	1841.9	1384.6	927.3	780.7	633.3	613.4	593.5	552.9	511.5	487.6
50°	3275.1	1804.4	1346.4	887.5	740.1	592.7	619.8	646.1	576.8	506.7	476.4
52.5°	3366.7	1738.3	1285.8	833.3	690.7	547.3	589.5	631.0	571.2	510.7	471.6
55°	3477.4	1641.1	1194.2	746.5	625.4	503.5	540.9	577.6	540.1	501.9	454.9
57.5°	3546.7	1518.4	1078.7	638.9	552.1	465.2	486.8	507.5	492.3	477.2	429.4
60°	3505.3	1355.1	948.8	541.7	487.6	433.4	429.4	424.6	446.9	469.2	414.3
62.5°	3303.0	1186.2	834.1	482.0	441.3	399.9	391.2	381.6	418.2	454.1	395.9
65°	2961.2	1068.3	761.6	454.9	409.5	364.1	354.5	345.0	356.1	367.3	340.2
67.5°	2527.0	995.8	720.2	444.5	389.6	333.8	322.6	311.5	309.1	306.7	297.2
70°	2079.3	951.2	693.1	435.0	368.1	300.3	290.0	279.6	276.4	272.5	265.3
72.5°	1738.3	945.6	689.9	434.2	350.5	266.9	257.3	247.8	243.8	239.0	233.4
75°	1423.6	887.5	654.9	422.2	326.6	230.2	221.5	212.7	209.5	205.5	200.8
77.5°	1056.4	734.5	550.5	366.5	279.6	192.8	184.0	174.5	173.7	172.1	168.1
80°	685.1	531.4	393.6	255.7	203.9	151.4	144.2	136.2	137.0	137.8	134.6
82.5°	380.8	309.9	240.6	171.3	139.4	107.5	104.4	100.4	102.8	104.4	100.4
85°	200.8	156.1	129.1	102.0	80.5	59.0	59.0	58.2	61.3	64.5	61.3
87.5°	86.8	55.0	47.0	38.2	21.5	4.0	4.8	4.8	6.4	8.0	7.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320488
 CATALOG NUMBER: GLEON-SA4C-830-U-SLL

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: P320488

CATALOG NUMBER: GLEON-SA4C-830-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	6070.5	6070.5	6070.5	6070.5	6070.5	6070.5	6070.5	6070.5	6070.5	6070.5	6070.5
2.5°	5488.2	5430.0	5371.1	5306.6	5318.5	5269.1	5219.7	5188.6	5157.6	5148.0	5138.5
5°	4435.0	4368.9	4302.0	4242.2	4294.0	4258.9	4223.9	4219.1	4213.5	4213.5	4212.7
7.5°	3281.4	3210.5	3138.8	3089.4	3140.4	3134.1	3127.7	3161.9	3196.2	3224.1	3251.2
10°	2666.4	2580.4	2493.5	2420.3	2407.5	2370.9	2333.4	2341.4	2348.6	2378.8	2409.1
12.5°	2317.5	2214.7	2111.9	2025.9	1986.9	1926.3	1865.0	1826.7	1788.5	1792.5	1795.7
15°	1920.0	1820.4	1720.0	1645.9	1621.2	1574.2	1527.2	1479.4	1430.8	1410.9	1390.2
17.5°	1468.2	1388.6	1308.1	1258.7	1258.7	1245.2	1231.6	1207.7	1183.0	1163.1	1142.4
20°	1076.3	1034.1	991.0	970.3	976.7	977.5	977.5	989.5	1001.4	995.0	988.7
22.5°	890.7	875.5	860.4	851.6	854.8	855.6	856.4	867.6	877.9	885.9	893.1
25°	803.8	794.3	784.7	781.5	788.7	789.5	789.5	796.7	803.8	811.8	819.8
27.5°	736.1	732.1	728.1	722.6	729.7	729.7	728.9	736.9	744.1	751.3	757.6
30°	671.6	673.2	674.0	672.4	677.2	680.3	682.7	688.3	693.1	698.7	704.2
32.5°	626.2	623.8	621.4	619.8	630.2	635.7	641.3	646.9	651.7	654.1	656.4
35°	582.4	576.8	571.2	567.2	576.8	584.0	591.1	601.5	611.0	612.6	614.2
37.5°	552.9	545.7	538.5	533.8	537.7	540.9	544.1	555.3	566.4	572.8	578.4
40°	525.0	517.8	510.7	506.7	509.1	509.9	510.7	516.2	521.0	533.0	544.1
42.5°	502.7	493.9	485.2	480.4	482.0	483.6	484.4	483.6	482.8	493.9	505.1
45°	480.4	470.8	461.3	455.7	456.5	456.5	456.5	454.9	452.5	458.1	463.7
47.5°	462.9	451.7	440.6	435.0	433.4	431.8	430.2	429.4	427.8	431.8	435.0
50°	445.3	433.4	420.6	414.3	410.3	408.7	407.1	406.3	404.7	408.7	411.9
52.5°	431.8	417.4	403.1	392.8	388.8	386.4	384.0	384.8	384.8	386.4	387.2
55°	407.9	395.1	381.6	374.4	367.3	365.7	364.1	366.5	368.1	368.1	368.1
57.5°	381.6	369.7	356.9	352.1	345.8	345.8	345.0	348.1	350.5	352.1	353.7
60°	358.5	345.0	331.4	327.4	325.0	324.2	323.4	327.4	330.6	333.8	337.0
62.5°	337.0	322.6	308.3	303.5	302.7	303.5	303.5	307.5	310.7	313.9	317.1
65°	313.1	298.7	283.6	278.8	280.4	282.8	285.2	288.4	290.8	294.0	297.2
67.5°	286.8	274.8	262.1	257.3	258.1	261.3	264.5	266.9	268.5	271.7	274.8
70°	258.1	247.8	237.4	234.2	233.4	237.4	240.6	242.2	243.8	247.8	250.9
72.5°	227.0	218.3	209.5	207.1	207.9	210.3	212.7	215.1	216.7	220.7	223.9
75°	195.2	187.2	179.2	177.7	179.2	181.6	184.0	185.6	187.2	192.0	196.0
77.5°	164.1	155.3	145.8	145.0	147.4	149.8	151.4	153.8	156.1	162.5	168.9
80°	131.4	121.9	111.5	110.7	113.1	115.5	117.9	120.3	122.7	130.7	137.8
82.5°	96.4	85.2	74.1	72.5	80.5	82.9	85.2	89.2	92.4	99.6	106.8
85°	58.2	47.0	35.8	35.1	42.2	46.2	50.2	55.0	59.0	65.3	71.7
87.5°	6.4	3.2	0.0	0.0	0.8	4.0	7.2	11.2	15.1	21.5	27.1
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: P320488
 CATALOG NUMBER: GLEON-SA4C-830-U-SLL

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: P320488

CATALOG NUMBER: GLEON-SA4C-830-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	6070.5	6070.5	6070.5	6070.5	6070.5	6070.5	6070.5	6070.5	6070.5	6070.5	6070.5
2.5°	5103.4	5067.6	5104.2	5140.1	5155.2	5170.3	5131.3	5091.5	5153.6	5214.9	5230.9
5°	4180.9	4148.2	4172.9	4196.8	4143.4	4090.1	4084.5	4078.1	4124.3	4170.5	4177.7
7.5°	3240.8	3230.5	3253.6	3276.7	3208.9	3140.4	3107.0	3073.5	3084.7	3095.8	3094.2
10°	2416.3	2422.6	2451.3	2479.2	2426.6	2374.0	2350.9	2327.8	2353.3	2378.0	2401.1
12.5°	1810.0	1823.6	1853.8	1883.3	1861.8	1839.5	1841.9	1844.3	1873.7	1902.4	1927.9
15°	1406.1	1422.0	1443.5	1464.3	1465.1	1465.1	1485.8	1505.7	1503.3	1500.9	1518.4
17.5°	1163.9	1184.6	1187.0	1189.4	1190.2	1191.0	1189.4	1187.8	1175.9	1163.9	1177.5
20°	996.6	1003.8	1010.2	1015.7	1008.6	1000.6	980.7	960.8	952.8	944.8	957.6
22.5°	906.6	919.3	913.0	905.8	891.5	876.3	861.2	845.3	844.5	842.9	850.0
25°	830.9	841.3	830.1	819.0	808.6	798.3	787.9	777.5	776.7	775.9	779.1
27.5°	768.0	777.5	767.2	756.8	748.1	739.3	731.3	723.4	721.8	720.2	721.0
30°	713.8	722.6	713.8	704.2	697.9	690.7	685.1	679.6	678.8	678.0	678.0
32.5°	665.2	674.0	667.6	661.2	655.7	650.1	646.1	642.1	638.1	634.1	625.4
35°	623.0	631.8	627.8	623.0	616.6	610.2	603.1	595.1	584.7	573.6	568.8
37.5°	587.1	595.9	591.9	587.9	579.2	570.4	557.7	544.1	540.9	536.9	536.2
40°	558.5	572.0	564.0	555.3	541.7	528.2	521.8	515.4	513.8	512.3	510.7
42.5°	526.6	547.3	533.0	518.6	505.9	493.1	491.5	489.9	489.1	488.4	488.4
45°	486.8	509.1	494.7	479.6	472.4	465.2	465.2	465.2	466.0	466.0	467.6
47.5°	449.3	462.9	455.7	448.5	444.5	440.6	441.3	442.1	444.5	446.1	450.1
50°	417.4	422.2	423.8	424.6	422.2	419.8	421.4	422.2	424.6	426.2	429.4
52.5°	394.3	401.5	401.5	400.7	400.7	400.7	402.3	403.9	406.3	408.7	411.9
55°	379.2	389.6	386.4	383.2	384.0	384.0	385.6	387.2	389.6	391.2	395.9
57.5°	364.9	376.0	372.8	369.7	369.7	369.7	370.4	371.2	373.6	375.2	378.4
60°	348.1	359.3	356.1	352.1	352.9	353.7	354.5	354.5	356.1	356.9	356.9
62.5°	328.2	339.4	336.2	332.2	334.6	336.2	336.2	336.2	337.8	338.6	336.2
65°	307.5	317.9	314.7	311.5	314.7	317.1	318.7	319.5	318.7	317.9	315.5
67.5°	285.2	295.6	292.4	288.4	292.4	295.6	298.7	301.1	298.7	296.4	293.2
70°	261.3	271.7	267.7	263.7	267.7	271.7	274.8	278.0	274.8	271.7	270.9
72.5°	235.8	247.8	243.0	238.2	243.0	247.8	249.4	250.9	248.6	246.2	244.6
75°	207.9	219.9	215.9	211.1	215.1	219.1	219.9	220.7	220.7	219.9	215.1
77.5°	178.5	188.0	185.6	183.2	185.6	188.0	188.0	188.0	188.8	188.8	182.4
80°	143.4	149.0	149.8	150.6	151.4	152.2	151.4	150.6	149.0	147.4	143.4
82.5°	106.8	106.8	113.1	118.7	118.7	117.9	117.1	115.5	112.3	108.3	99.6
85°	67.7	63.7	74.1	83.6	83.6	82.9	81.3	78.9	72.5	65.3	58.2
87.5°	23.1	19.1	29.5	39.8	40.6	40.6	39.0	37.4	31.1	23.9	18.3
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: P320488
 CATALOG NUMBER: GLEON-SA4C-830-U-SLL

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: P320488

CATALOG NUMBER: GLEON-SA4C-830-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	6070.5	6070.5	6070.5	6070.5	6070.5	6070.5	6070.5	6070.5	6070.5	6070.5	6070.5
2.5°	5254.8	5265.1	5274.7	5352.8	5430.0	5520.9	5611.7	5681.0	5749.5	5820.4	5891.3
5°	4202.4	4215.1	4227.9	4322.7	4416.7	4543.4	4670.0	4779.2	4888.3	5016.6	5144.8
7.5°	3114.9	3142.8	3169.9	3271.1	3371.5	3507.7	3643.1	3785.7	3927.5	4094.8	4262.1
10°	2446.5	2499.1	2550.9	2654.5	2758.0	2892.7	3026.5	3175.5	3324.5	3489.4	3653.5
12.5°	1980.5	2050.6	2119.9	2244.2	2368.5	2529.4	2689.5	2855.2	3020.1	3165.1	3310.1
15°	1564.6	1641.1	1716.8	1848.3	1979.7	2156.6	2332.6	2513.5	2693.5	2867.2	3040.9
17.5°	1220.5	1283.4	1345.6	1457.1	1567.8	1739.1	1910.4	2100.0	2289.6	2501.5	2712.6
20°	984.7	1011.0	1037.3	1117.7	1197.4	1336.8	1475.4	1669.0	1862.6	2115.9	2369.3
22.5°	862.8	876.3	889.1	928.1	966.3	1056.4	1145.6	1316.9	1487.4	1763.8	2039.4
25°	789.5	799.8	810.2	835.7	861.2	904.2	947.2	1067.5	1187.8	1459.5	1730.3
27.5°	723.4	739.3	754.4	766.4	777.5	807.0	835.7	914.6	993.4	1246.8	1499.3
30°	675.6	681.1	686.7	705.0	722.6	752.8	783.1	838.1	893.1	1107.4	1320.9
32.5°	619.8	627.8	635.7	654.9	674.0	701.9	729.7	774.4	818.2	1001.4	1183.8
35°	569.6	577.6	585.5	604.7	623.0	653.3	682.7	720.2	756.8	916.2	1075.5
37.5°	538.5	546.5	554.5	571.2	587.1	617.4	646.9	676.4	705.0	852.4	999.8
40°	512.3	520.2	528.2	544.1	559.3	588.7	617.4	642.1	666.8	804.6	942.4
42.5°	489.1	497.9	506.7	522.6	537.7	564.0	590.3	623.0	654.9	763.2	870.7
45°	470.0	478.8	486.8	504.3	521.8	547.3	572.8	618.2	663.6	741.7	819.8
47.5°	452.5	462.1	470.8	489.9	509.1	540.9	572.0	610.2	647.7	725.0	802.2
50°	435.8	446.9	458.1	481.2	503.5	556.9	609.4	615.0	619.8	711.4	802.2
52.5°	419.8	432.6	445.3	474.0	501.9	564.0	626.2	606.3	585.5	685.9	786.3
55°	403.9	415.1	425.4	460.5	495.5	540.9	586.3	560.1	533.0	638.1	743.3
57.5°	382.4	394.3	405.5	442.9	480.4	512.3	543.3	519.4	494.7	584.0	672.4
60°	360.1	373.6	387.2	435.0	482.0	476.4	470.0	465.2	459.7	523.4	587.1
62.5°	340.2	354.5	368.9	431.0	493.1	454.9	416.7	420.6	423.8	470.8	517.8
65°	320.3	334.6	348.1	379.2	410.3	395.1	380.0	386.4	392.0	438.2	484.4
67.5°	298.0	310.7	322.6	333.0	343.4	345.0	346.5	352.9	359.3	414.3	468.4
70°	273.3	283.6	294.0	301.1	307.5	310.7	313.1	321.1	329.0	388.8	448.5
72.5°	245.4	254.1	262.1	268.5	274.8	277.2	278.8	286.8	294.8	358.5	422.2
75°	215.1	222.3	228.6	234.2	239.8	243.0	246.2	251.7	257.3	326.6	395.1
77.5°	181.6	188.8	195.2	200.0	203.9	207.1	209.5	216.7	223.9	282.0	339.4
80°	141.8	150.6	158.5	162.5	165.7	166.5	166.5	172.9	179.2	220.7	261.3
82.5°	100.4	109.9	118.7	121.9	125.1	125.1	125.1	132.2	139.4	167.3	194.4
85°	59.0	69.3	78.9	82.1	85.2	86.8	87.6	90.8	93.2	113.1	132.2
87.5°	18.3	27.1	35.1	36.6	38.2	41.4	44.6	45.4	45.4	59.0	72.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320488
 CATALOG NUMBER: GLEON-SA4C-830-U-SLL

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: P320488

CATALOG NUMBER: GLEON-SA4C-830-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	6070.5	6070.5	6070.5	6070.5	6070.5	6070.5	6070.5
2.5°	5972.6	6053.8	6148.6	6242.6	6323.1	6403.6	6470.5
5°	5308.1	5471.5	5671.4	5870.6	6048.2	6225.9	6432.2
7.5°	4473.2	4684.4	4943.3	5202.2	5453.1	5703.3	6020.4
10°	3868.6	4082.9	4356.9	4630.2	4912.2	5193.4	5551.9
12.5°	3484.6	3658.3	3923.6	4188.8	4520.2	4850.9	5195.8
15°	3231.3	3420.9	3679.0	3937.1	4299.6	4662.1	5058.8
17.5°	2961.2	3208.9	3539.6	3870.2	4299.6	4728.2	5195.8
20°	2678.4	2986.7	3415.3	3843.9	4422.3	4999.8	5596.5
22.5°	2396.4	2753.3	3303.0	3851.9	4607.9	5363.1	6168.5
25°	2142.2	2554.1	3234.4	3914.0	4877.9	5841.1	6840.1
27.5°	1949.4	2398.7	3206.6	4013.6	5220.5	6427.5	7570.7
30°	1778.1	2235.4	3173.1	4110.8	5550.3	6989.1	8141.9
32.5°	1630.0	2076.1	3108.6	4140.2	5780.6	7420.9	8625.4
35°	1513.7	1951.8	3000.2	4048.6	5924.8	7800.9	9128.9
37.5°	1413.3	1826.7	2876.7	3926.7	6053.0	8179.3	9695.4
40°	1317.7	1692.9	2770.8	3847.9	6229.9	8611.9	10293.6
42.5°	1226.9	1583.0	2685.5	3788.1	6394.0	8999.1	10817.0
45°	1159.1	1498.5	2609.9	3720.4	6499.9	9279.5	11211.4
47.5°	1125.7	1448.3	2569.2	3689.3	6605.9	9521.7	11538.8
50°	1120.9	1439.6	2615.4	3791.3	6835.3	9878.6	11913.3
52.5°	1120.1	1453.9	2748.5	4043.0	7261.6	10479.3	12318.8
55°	1103.4	1462.7	2907.0	4350.6	7833.6	11315.8	13047.7
57.5°	1052.4	1432.4	3070.3	4707.5	8438.2	12168.2	13869.1
60°	973.5	1359.1	3205.0	5050.0	8844.5	12638.2	14185.3
62.5°	874.7	1230.8	3249.6	5267.5	8833.4	12399.2	13866.7
65°	790.3	1096.2	3103.0	5109.0	8386.4	11663.1	13236.5
67.5°	715.4	961.6	2736.5	4510.7	7582.6	10653.7	12435.1
70°	661.2	873.1	2264.1	3655.1	6576.4	9497.0	11507.0
72.5°	627.0	830.9	1845.9	2860.0	5336.8	7812.8	9842.7
75°	580.0	764.8	1448.3	2131.1	4084.5	6037.9	7434.4
77.5°	492.3	644.5	1091.4	1538.4	2997.0	4454.9	5170.3
80°	380.0	497.9	750.5	1003.0	2062.6	3122.1	3525.2
82.5°	270.9	347.3	454.9	562.4	1370.3	2177.3	2210.7
85°	167.3	202.4	260.5	318.7	906.6	1494.5	1245.2
87.5°	90.0	107.5	137.8	167.3	290.0	412.7	237.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320488
 CATALOG NUMBER: GLEON-SA4C-830-U-SLL

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.

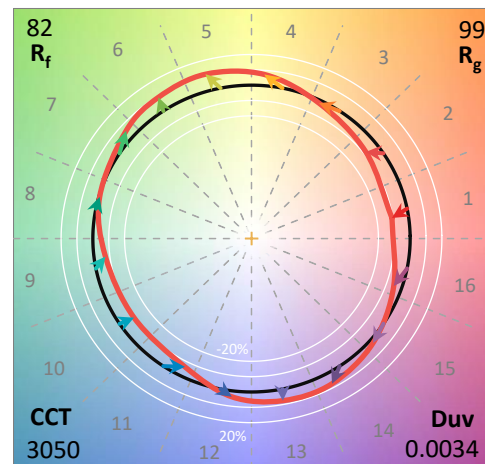
Test Information

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

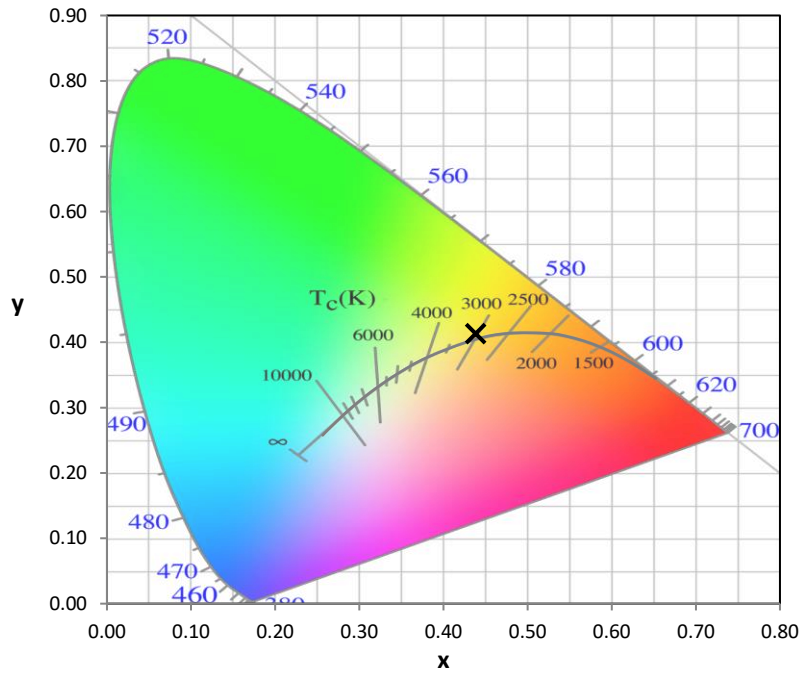
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

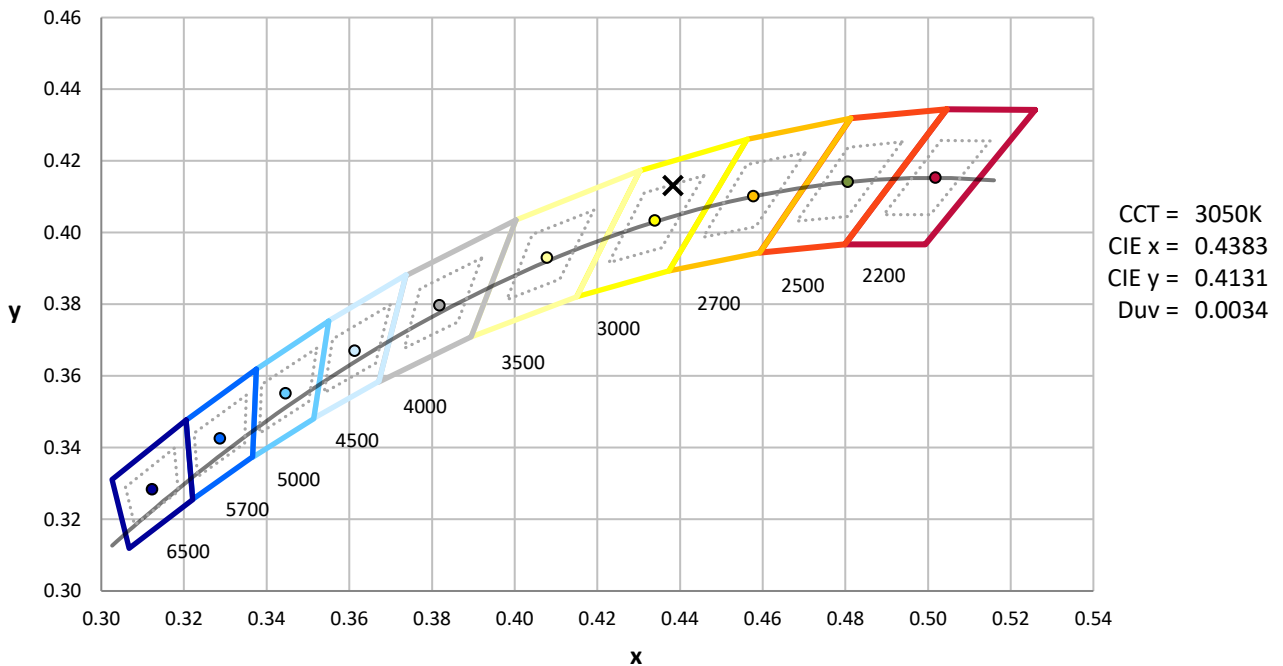
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



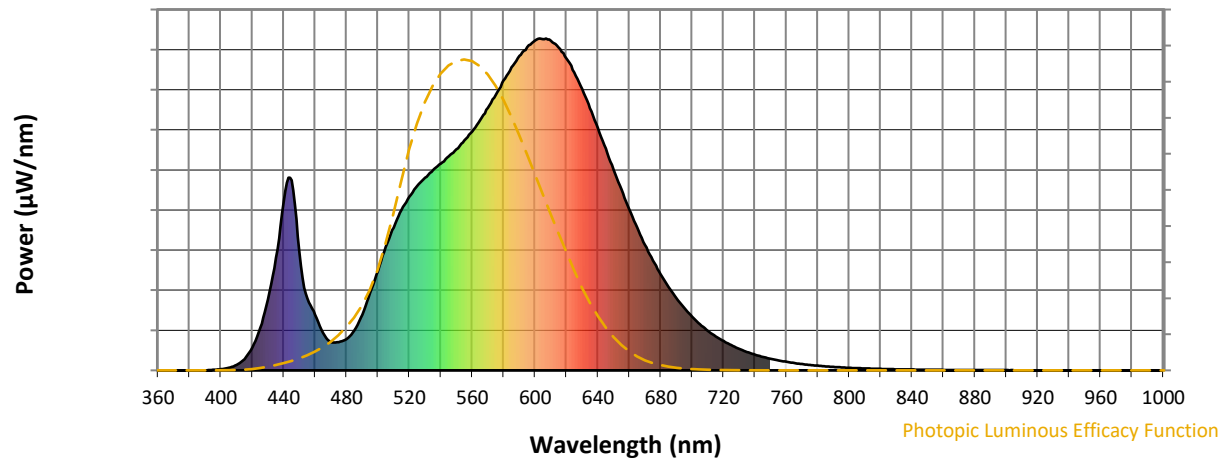
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

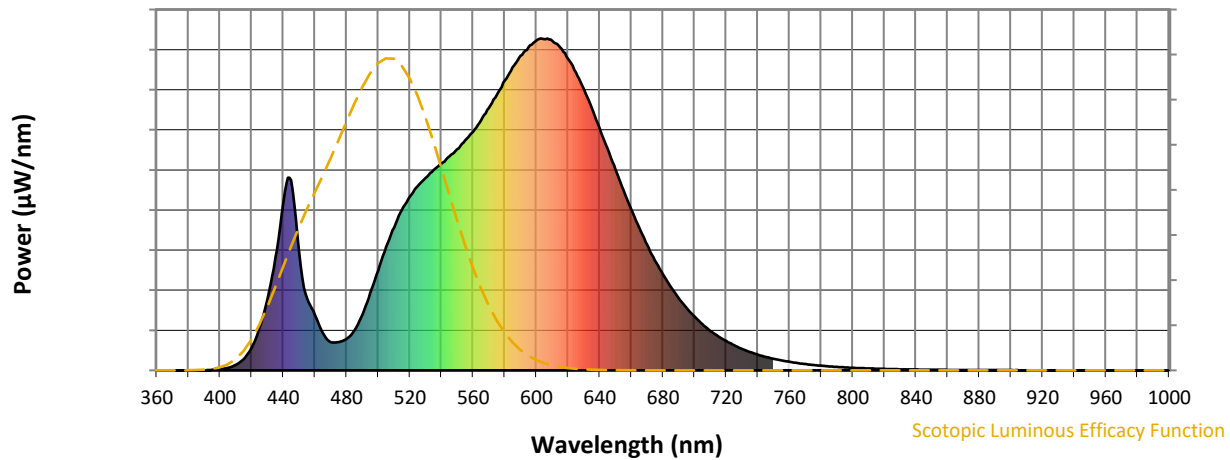


Photopic Lumens: NR

λ (nm)	Power 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

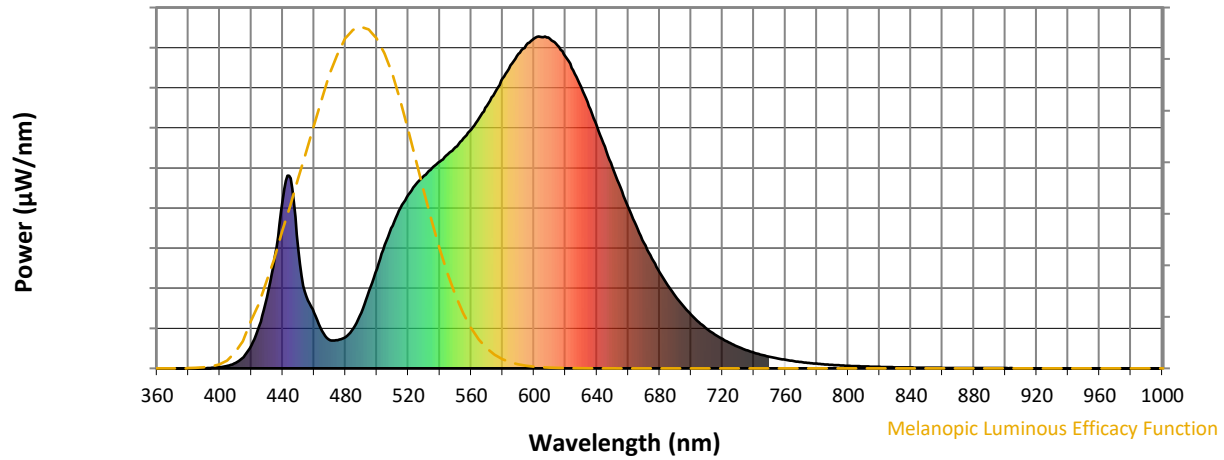


Scotopic Lumens: NR

S/P: 1.27

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

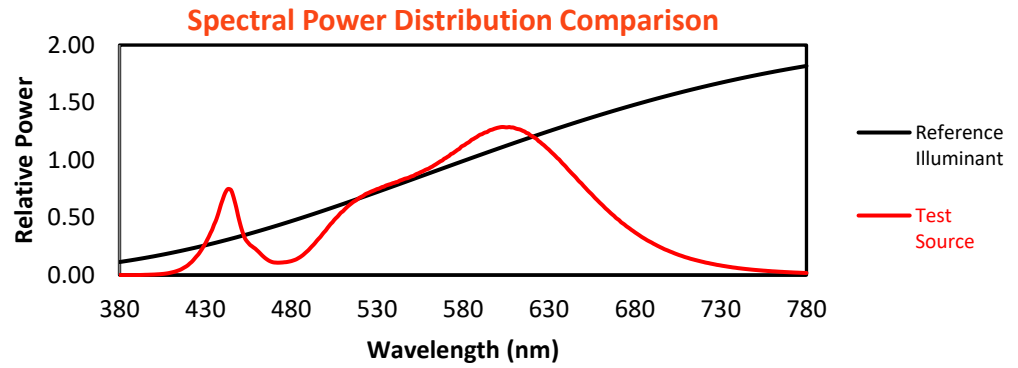
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940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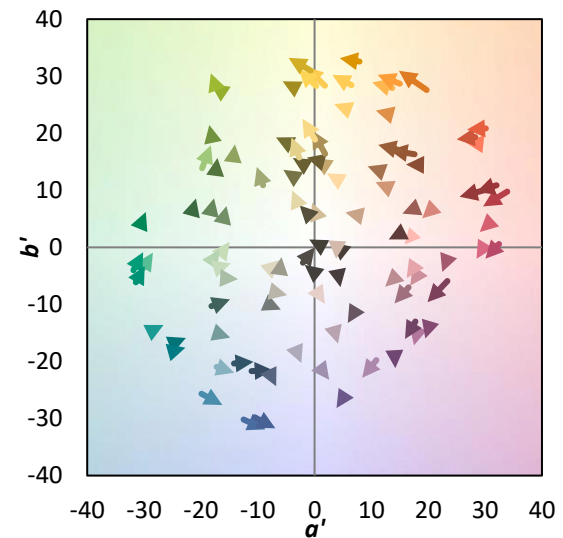
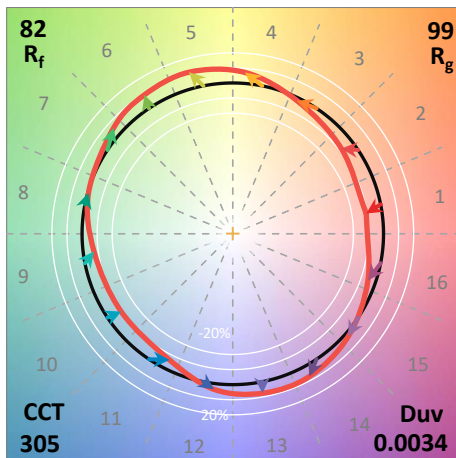
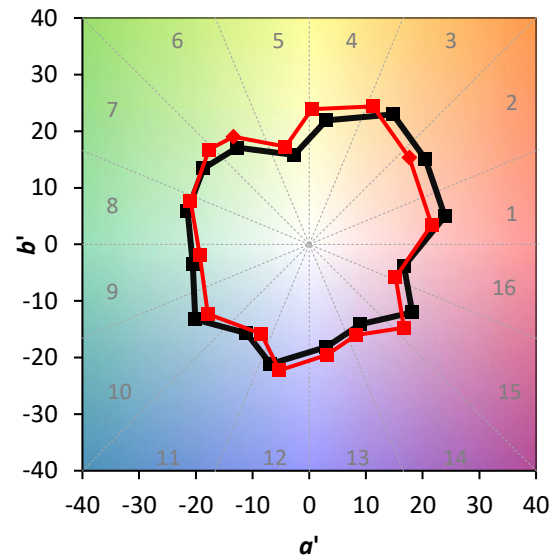
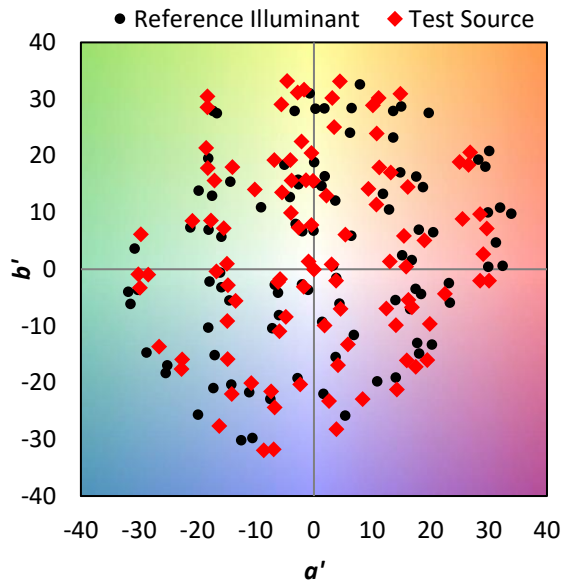
TM-30-18

Summary

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

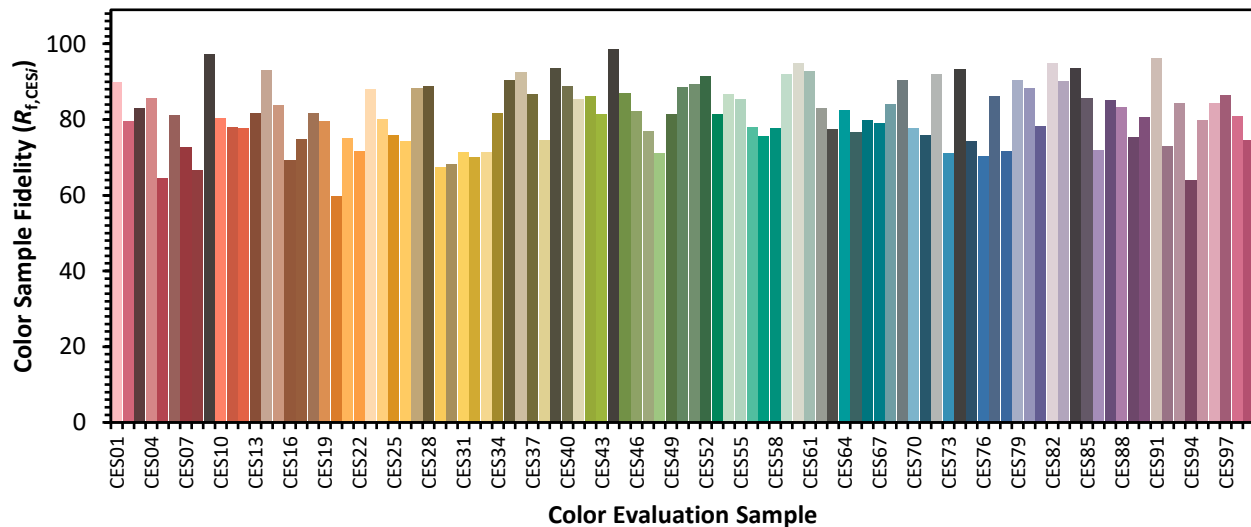


Color Vector Graphics

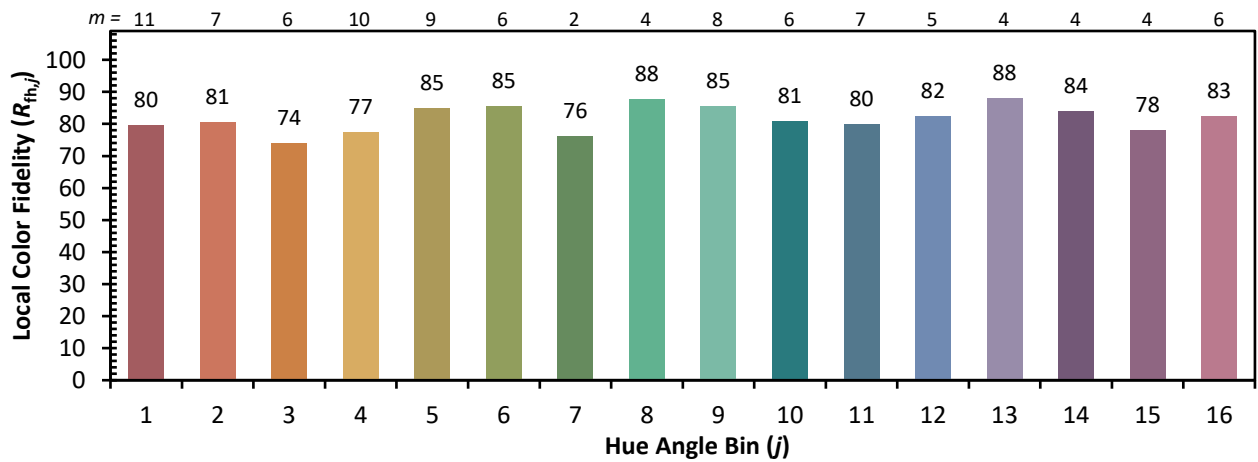
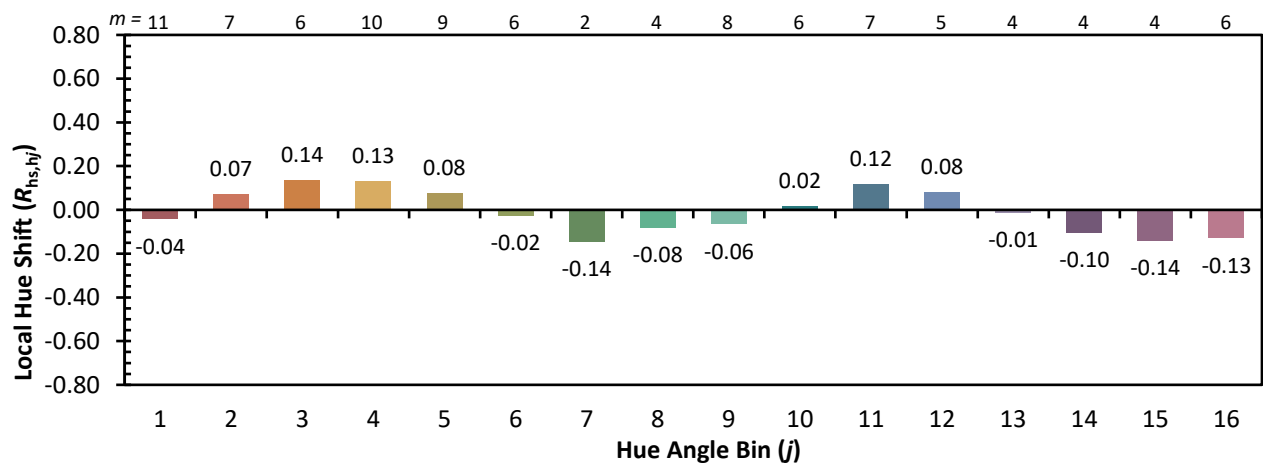
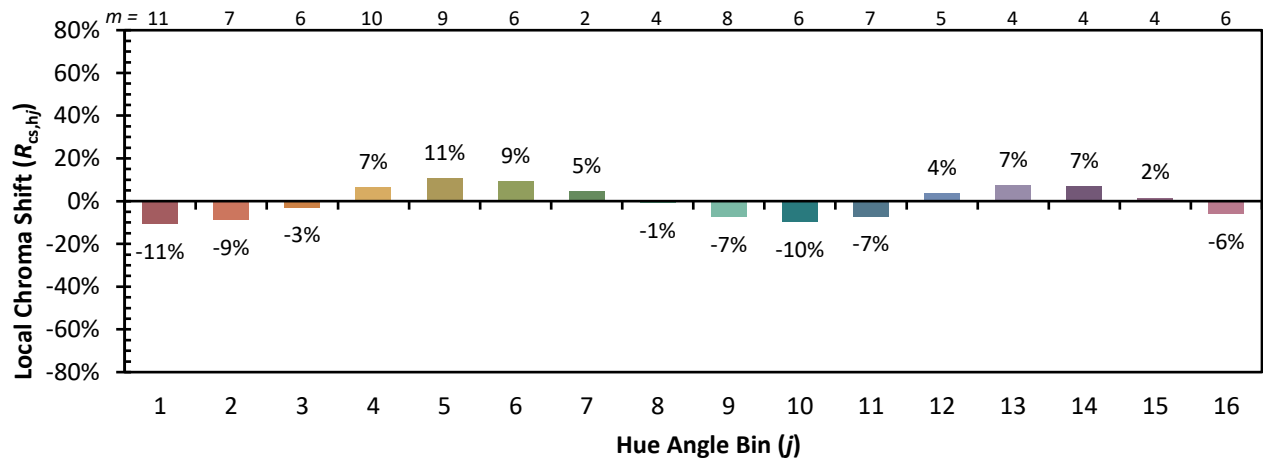


Individual Sample Fidelity Index ($R_{f,i}$)

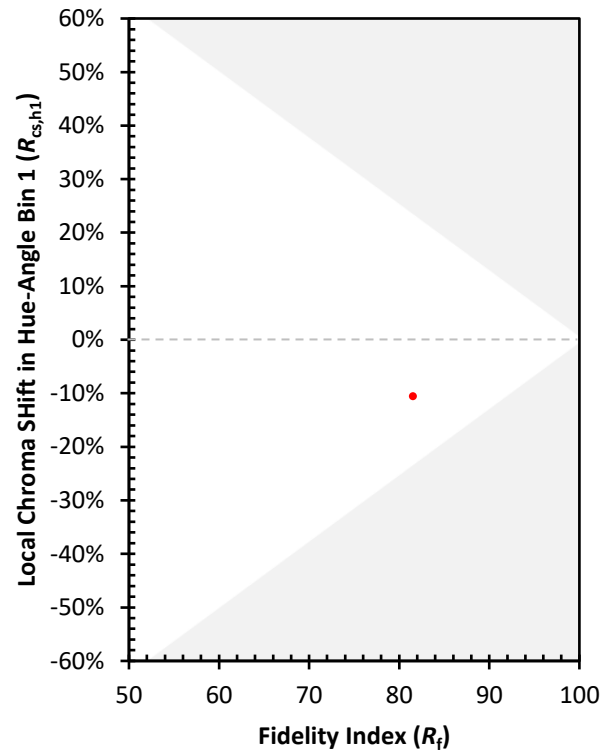
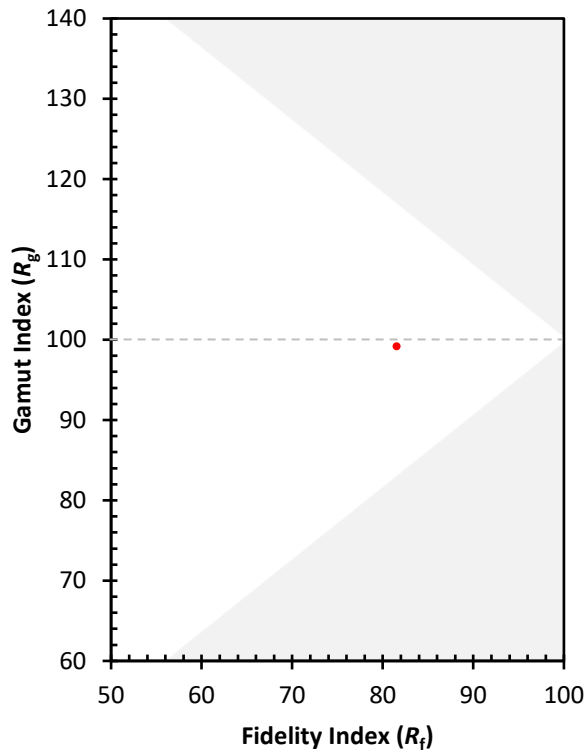
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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