

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: P320472

Luminaire Tested: **GLEON-SA8A-830-U-SLL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320472
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-SA8A-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA 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: 26083 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

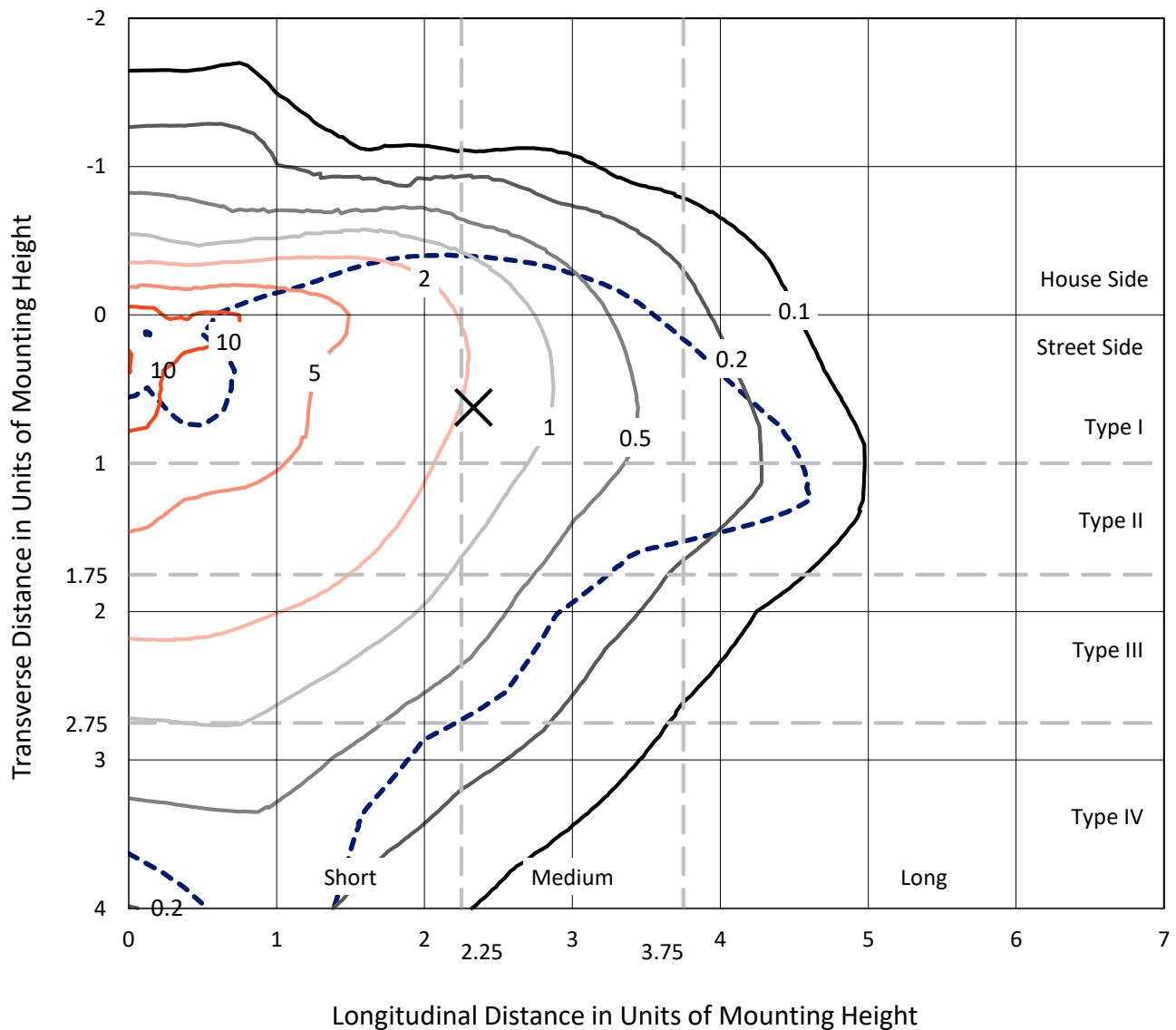
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

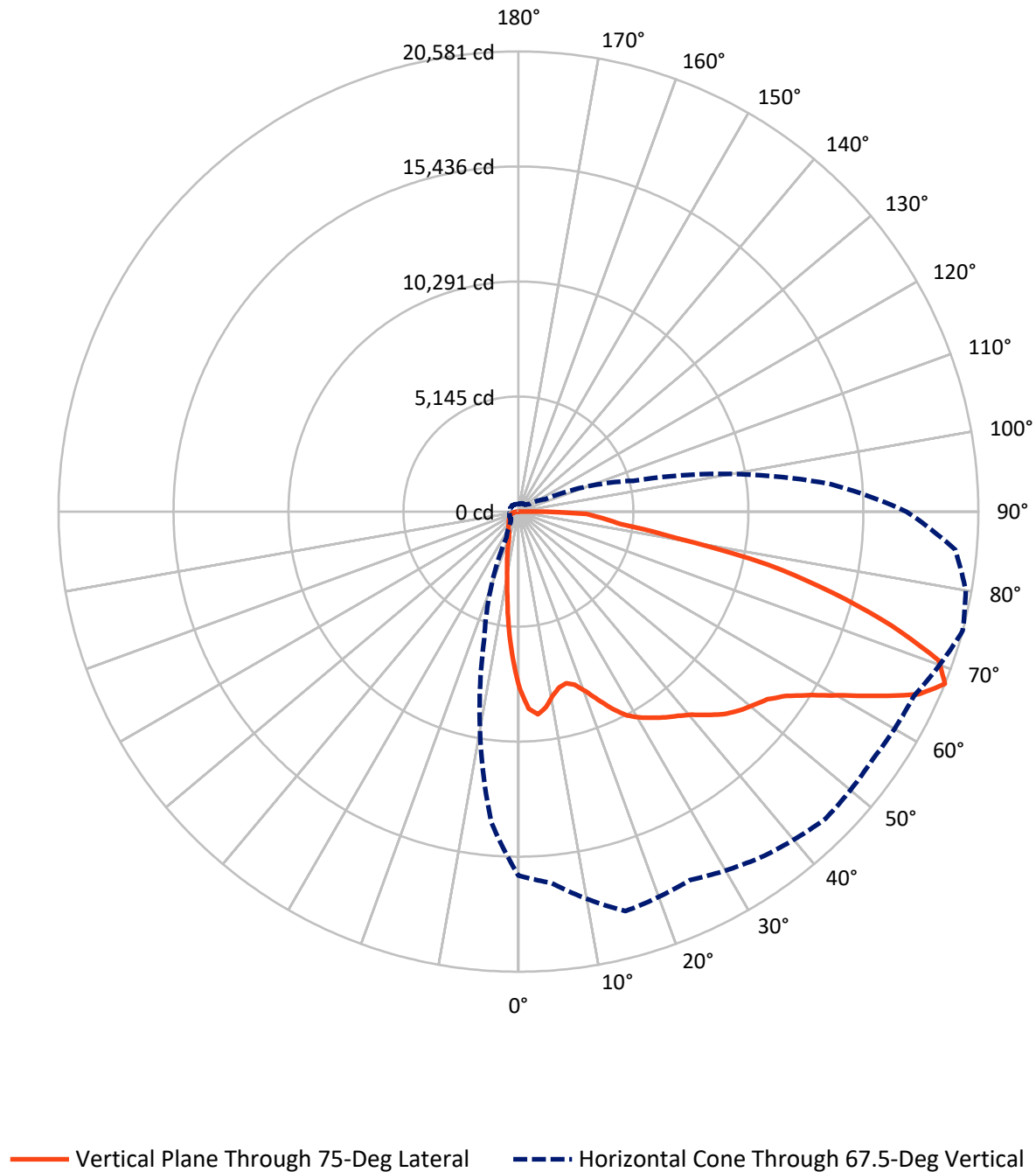
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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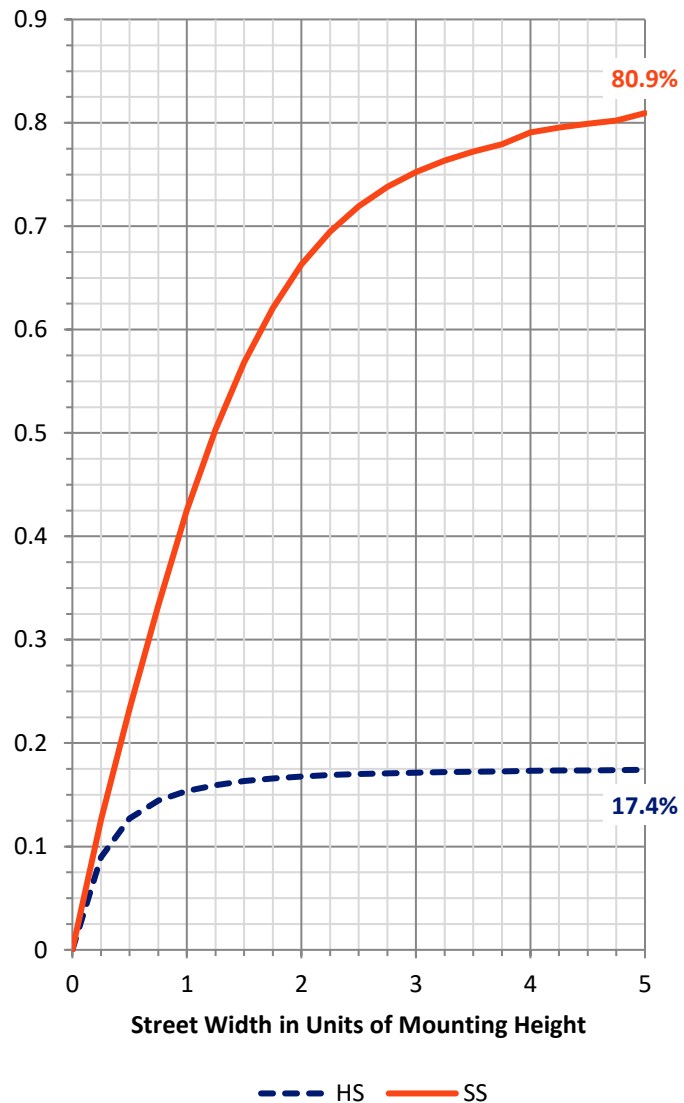
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4593.9	0.0	4593.9
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	21489.1	0.0	21489.1
	% Fixture	82.4	0.0	82.4
Total	Lumens	26083.0	0.0	26083.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	613.3	2.4
10°-20°	1274.0	4.9
20°-30°	1811.9	6.9
30°-40°	2611.0	10.0
40°-50°	3679.6	14.1
50°-60°	5115.3	19.6
60°-70°	6185.9	23.7
70°-80°	3802.4	14.6
80°-90°	989.5	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°	26083.0	100.0
0°-180°	26083.0	100.0

Coefficient of Utilization



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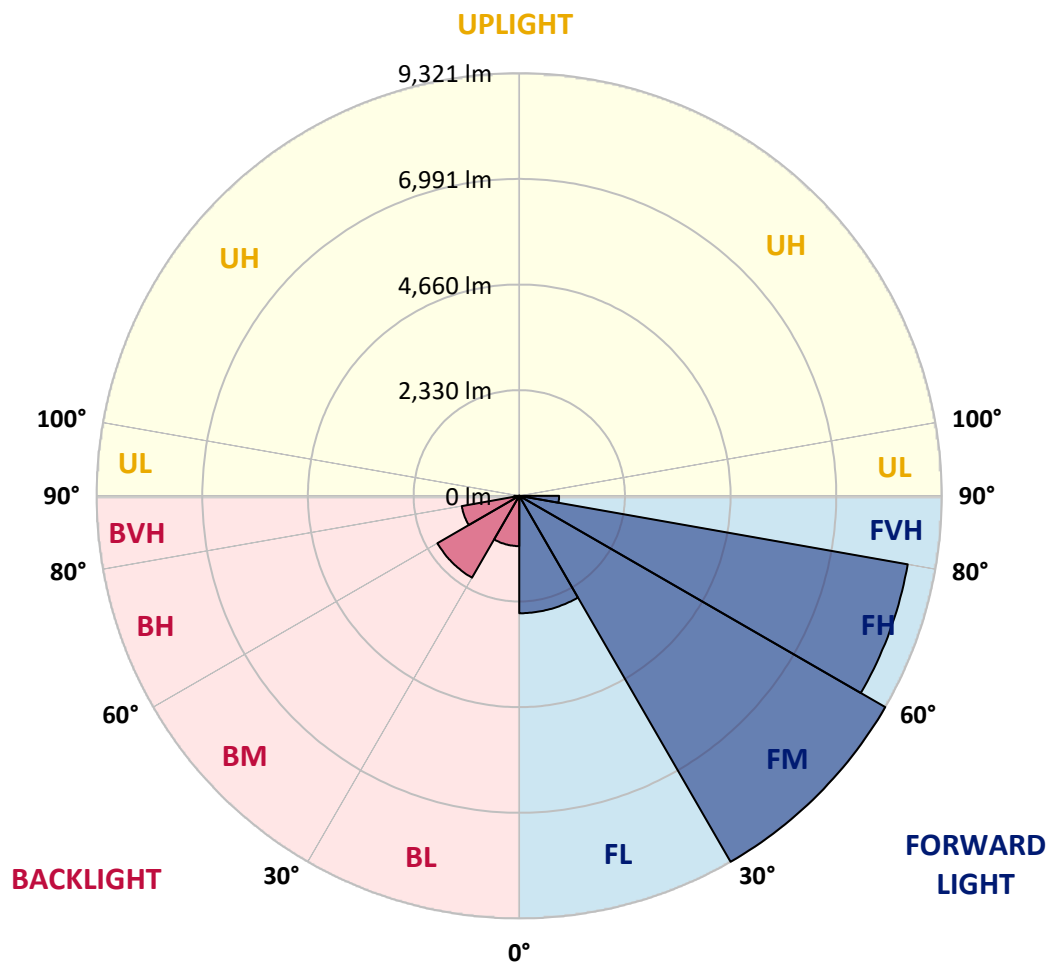
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2589.8	9.9			
FM	(30°-60°)	9320.7	35.7			
FH	(60°-80°)	8700.4	33.4			G4/12000
FVH	(80°-90°)	878.3	3.4			G5
BL	(0°-30°)	1109.5	4.3	B3/2500		
BM	(30°-60°)	2085.3	8.0	B2/2500		
BH	(60°-80°)	1287.9	4.9	B3/2500		G3/2500
BVH	(80°-90°)	111.2	0.4			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3
2.5°	8469.8	8581.4	8658.6	8734.7	8794.1	8852.5	8938.0	9023.5	9040.2	9055.9	9022.5
5°	8419.7	8691.9	8923.4	9153.9	9367.7	9581.5	9709.7	9838.0	9864.1	9890.1	9809.8
7.5°	7880.6	8282.1	8683.6	9085.1	9453.2	9821.3	10045.5	10268.7	10319.8	10369.8	10238.4
10°	7267.4	7734.6	8227.9	8721.1	9206.0	9691.0	10015.3	10339.6	10404.2	10468.9	10305.2
12.5°	6801.3	7311.2	7837.9	8364.5	8876.5	9387.5	9723.3	10059.1	10139.4	10219.7	10100.8
15°	6621.9	7180.9	7676.2	8171.6	8617.9	9063.2	9338.5	9612.7	9646.1	9678.4	9659.7
17.5°	6801.3	7417.6	7866.0	8313.4	8556.4	8798.3	8908.8	9018.3	9054.8	9090.3	9138.3
20°	7325.8	7991.1	8307.1	8622.1	8611.6	8600.2	8547.0	8492.7	8483.4	8474.0	8609.5
22.5°	8074.6	8847.3	8973.5	9098.6	8805.6	8512.6	8334.2	8154.9	8119.4	8082.9	8226.8
25°	8953.7	9776.5	9753.5	9729.5	9171.6	8612.7	8272.7	7932.8	7893.1	7853.5	7976.6
27.5°	9909.9	10696.2	10546.1	10395.9	9637.8	8879.6	8386.4	7893.1	7853.5	7813.9	7922.3
30°	10657.6	11370.9	11130.0	10889.2	10030.9	9172.7	8586.6	8000.5	7935.9	7870.2	8003.7
32.5°	11290.6	11897.6	11574.3	11251.0	10350.0	9449.0	8815.0	8180.9	8079.8	7978.6	8157.0
35°	11949.7	12423.1	11968.5	11512.8	10634.7	9755.6	9085.1	8413.5	8289.4	8165.3	8410.4
37.5°	12691.2	13084.3	12431.5	11777.6	10954.9	10132.1	9489.7	8846.3	8719.0	8591.8	8904.7
40°	13474.3	13801.8	12931.0	12060.2	11305.2	10550.2	10049.7	9548.1	9427.1	9305.1	9684.7
42.5°	14159.4	14398.3	13396.1	12393.9	11727.6	11060.2	10707.7	10354.2	10353.1	10351.1	10735.9
45°	14675.6	14883.2	13784.0	12683.9	12139.5	11594.1	11410.6	11227.0	11374.1	11521.1	11869.4
47.5°	15104.2	15245.0	14109.4	12972.7	12610.9	12249.0	12276.1	12303.2	12602.5	12901.8	13126.0
50°	15594.4	15480.7	14404.5	13327.3	13215.7	13104.1	13348.1	13591.1	13935.2	14278.3	14430.6
52.5°	16125.2	15823.8	14805.0	13785.1	13910.2	14035.3	14531.7	15028.1	15375.4	15722.6	15780.0
55°	17079.3	16617.4	15541.2	14463.9	14704.8	14944.7	15673.6	16401.5	16672.6	16943.8	16964.6
57.5°	18154.5	17744.7	16572.5	15400.4	15659.0	15917.6	16759.2	17599.7	17892.8	18184.7	18144.1
60°	18568.5	18588.3	17551.7	16514.1	16774.8	17035.5	17855.2	18674.9	19011.7	19347.5	19257.8
62.5°	18151.4	18640.5	18086.7	17531.9	17768.7	18004.3	18807.3	19610.3	19955.5	20300.6	20144.2
65°	17326.5	17811.4	18059.6	18307.8	18386.0	18464.2	19214.0	19962.8	20227.6	20491.5	20412.2
67.5°	16277.4	16669.5	17585.1	18499.7	18342.2	18184.7	18536.2	18887.6	19159.8	19432.0	19387.1
70°	15062.5	15529.7	16750.9	17972.0	17198.2	16423.4	16278.5	16133.5	16427.6	16720.6	16539.2
72.5°	12884.1	13589.0	14891.5	16192.9	14767.4	13341.9	12846.5	12351.2	12723.5	13095.8	12806.9
75°	9731.6	10667.0	12106.1	13544.2	11843.3	10142.5	9481.3	8820.2	9140.3	9460.5	9262.4
77.5°	6767.9	7941.1	9358.3	10775.5	9046.5	7316.4	6825.3	6333.1	6429.0	6523.9	6490.5
80°	4614.5	5386.2	6374.8	7362.3	6211.1	5059.8	5098.4	5135.9	5091.1	5045.2	5111.9
82.5°	2893.8	3437.1	4200.5	4962.8	4351.7	3740.6	4091.0	4441.4	4269.3	4096.2	4160.9
85°	1629.9	1961.5	2708.2	3453.8	3219.2	2983.5	3189.0	3393.3	3126.4	2859.4	2977.3
87.5°	310.8	517.2	1498.5	2478.8	2250.4	2022.0	1757.2	1492.3	1138.8	785.2	1147.1
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



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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°	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3
2.5°	8989.1	8971.4	8953.7	8890.1	8825.4	8729.5	8650.2	8512.6	8437.5	8323.8	8210.1
5°	9728.5	9615.9	9503.2	9309.3	9114.3	8897.4	8648.1	8371.8	8163.2	7892.1	7620.9
7.5°	10107.0	9844.2	9580.4	9208.1	8834.8	8499.0	8104.8	7737.7	7424.9	7072.4	6719.9
10°	10141.4	9747.3	9352.0	8868.2	8383.3	7975.5	7521.9	7114.1	6738.7	6334.1	5928.4
12.5°	9980.9	9561.6	9141.4	8608.5	8074.6	7611.6	7123.5	6666.8	6250.7	5805.4	5359.1
15°	9640.9	9306.1	8970.4	8470.8	7971.3	7504.2	7030.7	6489.5	6019.2	5563.5	5106.7
17.5°	9185.2	9026.7	8867.1	8506.3	8144.4	7739.8	7281.0	6645.9	6095.3	5600.0	5104.6
20°	8744.1	8802.5	8859.8	8715.9	8572.0	8247.7	7847.2	7133.9	6431.1	5783.5	5134.9
22.5°	8369.7	8650.2	8929.7	9041.3	9151.8	8956.8	8644.0	7819.1	6888.9	6043.2	5197.4
25°	8098.6	8563.7	9028.8	9400.0	9770.2	9683.7	9442.8	8651.3	7495.8	6417.5	5338.2
27.5°	8030.8	8601.2	9171.6	9747.3	10321.9	10402.2	10335.4	9528.3	8219.5	6882.6	5544.7
30°	8137.1	8714.9	9291.5	9992.3	10692.1	11012.2	11101.9	10259.3	9046.5	7424.9	5802.3
32.5°	8335.3	8901.5	9467.8	10231.1	10993.4	11477.3	11763.0	10927.7	9623.2	7833.7	6043.2
35°	8655.4	9185.2	9714.9	10509.6	11304.2	11929.9	12451.3	11618.1	10135.2	8119.4	6102.6
37.5°	9216.5	9672.2	10127.9	10862.0	11595.1	12406.5	13189.6	12378.3	10688.9	8394.7	6099.5
40°	10064.3	10386.5	10707.7	11328.2	11947.6	12968.5	14026.0	13226.1	11301.1	8693.0	6084.9
42.5°	11120.7	11286.5	11451.2	11942.4	12433.6	13555.7	14785.1	14055.2	11885.0	8970.4	6055.7
45°	12216.7	12260.5	12304.3	12614.0	12922.7	14020.7	15302.4	14677.7	12395.0	9211.3	6026.5
47.5°	13349.2	13199.0	13048.8	13171.9	13294.9	14377.4	15671.5	15150.1	12907.0	9478.2	6048.4
50°	14582.8	14164.7	13746.5	13681.8	13617.2	14734.0	16106.4	15750.8	13522.3	9867.2	6212.1
52.5°	15836.3	15147.0	14457.7	14202.2	13945.7	15159.5	16683.1	16498.5	14400.3	10469.9	6538.5
55°	16985.5	16108.5	15231.5	14887.3	14543.2	15810.2	17387.0	17596.6	15525.5	11240.6	6954.6
57.5°	18102.4	17108.5	16114.7	15795.6	15476.5	16766.5	18278.6	18582.1	16662.2	11979.9	7296.6
60°	19168.1	18184.7	17200.3	16944.8	16688.3	17955.3	19242.2	19021.1	17248.3	12326.2	7403.0
62.5°	19987.8	19205.7	18423.5	18289.0	18153.5	19157.7	19982.6	18850.1	16876.0	11985.2	7094.3
65°	20333.0	19887.7	19441.3	19567.5	19692.7	20067.0	20167.1	18349.5	15706.0	11029.9	6353.9
67.5°	19341.2	19432.0	19522.7	20052.4	20581.1	20323.6	19618.6	17363.0	14040.6	9676.4	5312.1
70°	16356.7	16901.0	17444.3	18697.8	19950.2	19378.8	18149.3	15592.3	12036.3	8117.3	4197.4
72.5°	12517.0	13129.1	13740.2	15600.6	17460.0	16933.4	15427.5	12806.9	9650.3	6482.2	3313.0
75°	9063.2	9754.6	10444.9	12497.2	14549.5	13818.4	11539.9	9169.5	7330.0	4948.2	2565.3
77.5°	6456.1	6919.1	7382.1	9409.4	11435.6	10244.7	7681.4	6170.4	5073.3	3439.2	1804.1
80°	5178.7	5036.8	4895.0	6024.4	7153.8	6955.6	5080.6	3962.7	3511.2	2304.6	1098.1
82.5°	4224.5	3878.3	3532.0	4063.9	4595.7	4566.5	3525.8	2907.4	2613.3	1601.8	590.2
85°	3094.1	2955.4	2816.7	3287.0	3757.3	3355.8	2388.1	1847.9	2037.7	1179.4	321.2
87.5°	1509.0	1723.8	1937.6	2492.3	3046.1	2286.9	724.8	358.7	496.4	326.4	155.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320472
 CATALOG NUMBER: GLEON-SA8A-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: P320472

CATALOG NUMBER: GLEON-SA8A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3
2.5°	8125.7	8040.2	7943.2	7846.2	7735.7	7624.1	7558.4	7491.6	7419.7	7347.7	7266.4
5°	7441.6	7262.2	7058.9	6855.5	6654.3	6453.0	6344.5	6236.1	6121.4	6005.6	5905.5
7.5°	6459.2	6197.5	5915.9	5633.3	5383.1	5131.7	4976.3	4819.9	4678.1	4535.2	4415.3
10°	5594.7	5261.0	4978.4	4694.8	4506.0	4317.3	4174.4	4031.6	3893.9	3755.2	3622.8
12.5°	5025.4	4691.7	4512.3	4332.9	4176.5	4020.1	3855.3	3689.5	3500.8	3311.0	3172.3
15°	4803.2	4499.8	4300.6	4100.4	3890.8	3680.1	3477.8	3275.5	3052.3	2829.2	2671.7
17.5°	4707.3	4310.0	4031.6	3752.1	3475.7	3199.4	2964.7	2730.1	2486.1	2242.1	2082.5
20°	4606.1	4077.4	3704.1	3329.7	2975.2	2620.6	2354.7	2088.8	1870.8	1652.9	1530.9
22.5°	4514.4	3830.3	3362.1	2892.8	2473.6	2054.4	1793.7	1531.9	1398.4	1264.9	1215.9
25°	4476.8	3614.4	3038.8	2463.1	2021.0	1577.8	1392.2	1206.5	1155.4	1103.3	1078.3
27.5°	4483.1	3421.5	2766.6	2110.7	1712.3	1314.0	1186.7	1059.5	1028.2	995.9	980.3
30°	4507.1	3211.9	2510.1	1808.3	1479.8	1151.3	1068.9	985.5	952.1	918.7	898.9
32.5°	4534.2	3024.2	2311.9	1598.6	1330.6	1061.6	993.8	925.0	892.7	860.3	840.5
35°	4487.3	2870.9	2176.4	1481.9	1234.7	986.5	929.2	870.8	835.3	799.8	781.1
37.5°	4408.0	2716.6	2071.0	1424.5	1172.1	918.7	877.0	834.3	797.8	760.2	742.5
40°	4336.1	2586.2	1992.8	1398.4	1137.7	876.0	840.5	805.1	767.5	728.9	708.1
42.5°	4277.7	2498.6	1915.7	1332.7	1106.4	879.1	829.0	777.9	741.4	704.9	682.0
45°	4233.9	2441.2	1855.2	1269.1	1077.2	885.4	821.7	758.1	721.6	684.1	657.0
47.5°	4229.7	2411.0	1812.4	1213.8	1022.0	829.0	803.0	776.9	723.7	669.5	638.2
50°	4287.0	2362.0	1762.4	1161.7	968.8	775.9	811.3	845.7	755.0	663.2	623.6
52.5°	4407.0	2275.4	1683.1	1090.8	904.1	716.4	771.7	825.9	747.7	668.4	617.4
55°	4551.9	2148.2	1563.2	977.1	818.6	659.1	708.1	756.0	707.0	657.0	595.5
57.5°	4642.6	1987.6	1412.0	836.3	722.7	609.0	637.2	664.3	644.5	624.7	562.1
60°	4588.4	1773.8	1242.0	709.1	638.2	567.3	562.1	555.8	585.0	614.2	542.3
62.5°	4323.5	1552.8	1091.8	630.9	577.7	523.5	512.0	499.5	547.5	594.4	518.3
65°	3876.2	1398.4	996.9	595.5	536.0	476.6	464.1	451.5	466.1	480.7	445.3
67.5°	3307.8	1303.5	942.7	581.9	509.9	436.9	422.3	407.7	404.6	401.5	389.0
70°	2721.8	1245.1	907.3	569.4	481.8	393.1	379.6	366.0	361.9	356.6	347.3
72.5°	2275.4	1237.8	903.1	568.3	458.8	349.3	336.8	324.3	319.1	312.8	305.5
75°	1863.5	1161.7	857.2	552.7	427.6	301.4	289.9	278.4	274.3	269.0	262.8
77.5°	1382.8	961.5	720.6	479.7	366.0	252.4	240.9	228.4	227.3	225.2	220.0
80°	896.8	695.6	515.2	334.7	267.0	198.1	188.8	178.3	179.4	180.4	176.2
82.5°	498.5	405.7	314.9	224.2	182.5	140.8	136.6	131.4	134.5	136.6	131.4
85°	262.8	204.4	168.9	133.5	105.3	77.2	77.2	76.1	80.3	84.5	80.3
87.5°	113.7	72.0	61.5	50.1	28.2	5.2	6.3	6.3	8.3	10.4	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320472
 CATALOG NUMBER: GLEON-SA8A-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: P320472

CATALOG NUMBER: GLEON-SA8A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3
2.5°	7184.0	7107.9	7030.7	6946.2	6961.9	6897.2	6832.6	6791.9	6751.2	6738.7	6726.2
5°	5805.4	5718.8	5631.2	5553.0	5620.8	5574.9	5529.0	5522.8	5515.5	5515.5	5514.4
7.5°	4295.4	4202.6	4108.7	4044.1	4110.8	4102.5	4094.1	4139.0	4183.8	4220.3	4255.8
10°	3490.3	3377.7	3264.0	3168.1	3151.4	3103.4	3054.4	3064.9	3074.2	3113.9	3153.5
12.5°	3033.6	2899.0	2764.5	2651.9	2600.8	2521.5	2441.2	2391.2	2341.1	2346.4	2350.5
15°	2513.2	2382.8	2251.5	2154.5	2122.1	2060.6	1999.1	1936.5	1872.9	1846.8	1819.7
17.5°	1921.9	1817.6	1712.3	1647.7	1647.7	1629.9	1612.2	1580.9	1548.6	1522.5	1495.4
20°	1408.9	1353.6	1297.3	1270.2	1278.5	1279.5	1279.5	1295.2	1310.8	1302.5	1294.1
22.5°	1165.9	1146.1	1126.2	1114.8	1118.9	1120.0	1121.0	1135.6	1149.2	1159.6	1169.0
25°	1052.2	1039.7	1027.2	1023.0	1032.4	1033.4	1033.4	1042.8	1052.2	1062.6	1073.1
27.5°	963.6	958.4	953.1	945.8	955.2	955.2	954.2	964.6	974.0	983.4	991.7
30°	879.1	881.2	882.2	880.1	886.4	890.6	893.7	901.0	907.3	914.6	921.9
32.5°	819.7	816.5	813.4	811.3	824.9	832.2	839.5	846.8	853.0	856.2	859.3
35°	762.3	755.0	747.7	742.5	755.0	764.4	773.8	787.3	799.8	801.9	804.0
37.5°	723.7	714.3	704.9	698.7	703.9	708.1	712.2	726.8	741.4	749.8	757.1
40°	687.2	677.8	668.4	663.2	666.4	667.4	668.4	675.7	682.0	697.6	712.2
42.5°	658.0	646.6	635.1	628.8	630.9	633.0	634.0	633.0	632.0	646.6	661.1
45°	628.8	616.3	603.8	596.5	597.5	597.5	597.5	595.5	592.3	599.6	606.9
47.5°	605.9	591.3	576.7	569.4	567.3	565.2	563.1	562.1	560.0	565.2	569.4
50°	582.9	567.3	550.6	542.3	537.1	535.0	532.9	531.8	529.8	535.0	539.1
52.5°	565.2	546.4	527.7	514.1	508.9	505.8	502.6	503.7	503.7	505.8	506.8
55°	533.9	517.2	499.5	490.1	480.7	478.7	476.6	479.7	481.8	481.8	481.8
57.5°	499.5	483.9	467.2	460.9	452.6	452.6	451.5	455.7	458.8	460.9	463.0
60°	469.3	451.5	433.8	428.6	425.5	424.4	423.4	428.6	432.8	436.9	441.1
62.5°	441.1	422.3	403.6	397.3	396.3	397.3	397.3	402.5	406.7	410.9	415.0
65°	409.8	391.1	371.2	365.0	367.1	370.2	373.3	377.5	380.6	384.8	389.0
67.5°	375.4	359.8	343.1	336.8	337.9	342.0	346.2	349.3	351.4	355.6	359.8
70°	337.9	324.3	310.8	306.6	305.5	310.8	314.9	317.0	319.1	324.3	328.5
72.5°	297.2	285.7	274.3	271.1	272.2	275.3	278.4	281.6	283.6	288.9	293.0
75°	255.5	245.1	234.6	232.5	234.6	237.8	240.9	243.0	245.1	251.3	256.5
77.5°	214.8	203.4	190.8	189.8	192.9	196.1	198.1	201.3	204.4	212.7	221.1
80°	172.1	159.6	146.0	145.0	148.1	151.2	154.3	157.5	160.6	171.0	180.4
82.5°	126.2	111.6	97.0	94.9	105.3	108.5	111.6	116.8	121.0	130.4	139.7
85°	76.1	61.5	46.9	45.9	55.3	60.5	65.7	72.0	77.2	85.5	93.9
87.5°	8.3	4.2	0.0	0.0	1.0	5.2	9.4	14.6	19.8	28.2	35.5
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: P320472
 CATALOG NUMBER: GLEON-SA8A-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: P320472

CATALOG NUMBER: GLEON-SA8A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3
2.5°	6680.3	6633.4	6681.4	6728.3	6748.1	6767.9	6716.8	6664.7	6746.0	6826.3	6847.2
5°	5472.7	5430.0	5462.3	5493.6	5423.7	5353.9	5346.6	5338.2	5398.7	5459.2	5468.6
7.5°	4242.2	4228.6	4258.9	4289.1	4200.5	4110.8	4067.0	4023.2	4037.8	4052.4	4050.3
10°	3162.9	3171.2	3208.8	3245.3	3176.4	3107.6	3077.4	3047.1	3080.5	3112.8	3143.1
12.5°	2369.3	2387.0	2426.6	2465.2	2437.1	2407.9	2411.0	2414.1	2452.7	2490.3	2523.6
15°	1840.6	1861.4	1889.6	1916.7	1917.8	1917.8	1944.9	1970.9	1967.8	1964.7	1987.6
17.5°	1523.6	1550.7	1553.8	1556.9	1558.0	1559.0	1556.9	1554.8	1539.2	1523.6	1541.3
20°	1304.6	1314.0	1322.3	1329.6	1320.2	1309.8	1283.7	1257.6	1247.2	1236.8	1253.5
22.5°	1186.7	1203.4	1195.1	1185.7	1166.9	1147.1	1127.3	1106.4	1105.4	1103.3	1112.7
25°	1087.7	1101.2	1086.6	1072.0	1058.5	1044.9	1031.4	1017.8	1016.8	1015.7	1019.9
27.5°	1005.3	1017.8	1004.2	990.7	979.2	967.7	957.3	946.9	944.8	942.7	943.8
30°	934.4	945.8	934.4	921.9	913.5	904.1	896.8	889.5	888.5	887.4	887.4
32.5°	870.8	882.2	873.9	865.5	858.2	850.9	845.7	840.5	835.3	830.1	818.6
35°	815.5	827.0	821.7	815.5	807.1	798.8	789.4	779.0	765.4	750.8	744.6
37.5°	768.6	780.0	774.8	769.6	758.1	746.7	730.0	712.2	708.1	702.9	701.8
40°	731.0	748.7	738.3	726.8	709.1	691.4	683.0	674.7	672.6	670.5	668.4
42.5°	689.3	716.4	697.6	678.9	662.2	645.5	643.4	641.3	640.3	639.3	639.3
45°	637.2	666.4	647.6	627.8	618.4	609.0	609.0	609.0	610.1	610.1	612.1
47.5°	588.2	605.9	596.5	587.1	581.9	576.7	577.7	578.8	581.9	584.0	589.2
50°	546.4	552.7	554.8	555.8	552.7	549.6	551.7	552.7	555.8	557.9	562.1
52.5°	516.2	525.6	525.6	524.5	524.5	524.5	526.6	528.7	531.8	535.0	539.1
55°	496.4	509.9	505.8	501.6	502.6	502.6	504.7	506.8	509.9	512.0	518.3
57.5°	477.6	492.2	488.0	483.9	483.9	483.9	484.9	486.0	489.1	491.2	495.3
60°	455.7	470.3	466.1	460.9	462.0	463.0	464.1	464.1	466.1	467.2	467.2
62.5°	429.6	444.2	440.1	434.9	438.0	440.1	440.1	440.1	442.2	443.2	440.1
65°	402.5	416.1	411.9	407.7	411.9	415.0	417.1	418.2	417.1	416.1	413.0
67.5°	373.3	386.9	382.7	377.5	382.7	386.9	391.1	394.2	391.1	387.9	383.8
70°	342.0	355.6	350.4	345.2	350.4	355.6	359.8	363.9	359.8	355.6	354.6
72.5°	308.7	324.3	318.1	311.8	318.1	324.3	326.4	328.5	325.4	322.2	320.1
75°	272.2	287.8	282.6	276.3	281.6	286.8	287.8	288.9	288.9	287.8	281.6
77.5°	233.6	246.1	243.0	239.8	243.0	246.1	246.1	246.1	247.1	247.1	238.8
80°	187.7	195.0	196.1	197.1	198.1	199.2	198.1	197.1	195.0	192.9	187.7
82.5°	139.7	139.7	148.1	155.4	155.4	154.3	153.3	151.2	147.0	141.8	130.4
85°	88.6	83.4	97.0	109.5	109.5	108.5	106.4	103.2	94.9	85.5	76.1
87.5°	30.2	25.0	38.6	52.1	53.2	53.2	51.1	49.0	40.7	31.3	24.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: GLEON-SA8A-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: P320472

CATALOG NUMBER: GLEON-SA8A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3
2.5°	6878.5	6892.0	6904.5	7006.7	7107.9	7226.8	7345.6	7436.4	7526.1	7618.9	7711.7
5°	5500.9	5517.6	5534.3	5658.4	5781.4	5947.2	6113.0	6255.9	6398.8	6566.7	6734.5
7.5°	4077.4	4113.9	4149.4	4281.8	4413.2	4591.5	4768.8	4955.5	5141.1	5360.1	5579.1
10°	3202.5	3271.3	3339.1	3474.7	3610.3	3786.5	3961.7	4156.7	4351.7	4567.6	4782.4
12.5°	2592.5	2684.2	2775.0	2937.6	3100.3	3311.0	3520.6	3737.5	3953.3	4143.1	4332.9
15°	2048.1	2148.2	2247.3	2419.3	2591.4	2822.9	3053.4	3290.1	3525.8	3753.1	3980.5
17.5°	1597.6	1680.0	1761.3	1907.3	2052.3	2276.5	2500.7	2748.9	2997.1	3274.5	3550.8
20°	1288.9	1323.3	1357.8	1463.1	1567.4	1749.9	1931.3	2184.7	2438.1	2769.7	3101.4
22.5°	1129.4	1147.1	1163.8	1214.9	1264.9	1382.8	1499.6	1723.8	1946.9	2308.8	2669.6
25°	1033.4	1047.0	1060.6	1093.9	1127.3	1183.6	1239.9	1397.4	1554.8	1910.5	2265.0
27.5°	946.9	967.7	987.6	1003.2	1017.8	1056.4	1093.9	1197.2	1300.4	1632.0	1962.6
30°	884.3	891.6	898.9	922.9	945.8	985.5	1025.1	1097.0	1169.0	1449.5	1729.0
32.5°	811.3	821.7	832.2	857.2	882.2	918.7	955.2	1013.6	1071.0	1310.8	1549.6
35°	745.6	756.0	766.5	791.5	815.5	855.1	893.7	942.7	990.7	1199.2	1407.8
37.5°	704.9	715.4	725.8	747.7	768.6	808.2	846.8	885.4	922.9	1115.8	1308.7
40°	670.5	681.0	691.4	712.2	732.1	770.6	808.2	840.5	872.8	1053.3	1233.7
42.5°	640.3	651.8	663.2	684.1	703.9	738.3	772.7	815.5	857.2	999.0	1139.8
45°	615.3	626.7	637.2	660.1	683.0	716.4	749.8	809.2	868.7	970.9	1073.1
47.5°	592.3	604.8	616.3	641.3	666.4	708.1	748.7	798.8	847.8	949.0	1050.1
50°	570.4	585.0	599.6	629.9	659.1	728.9	797.8	805.1	811.3	931.2	1050.1
52.5°	549.6	566.3	582.9	620.5	657.0	738.3	819.7	793.6	766.5	897.9	1029.3
55°	528.7	543.3	556.9	602.8	648.6	708.1	767.5	733.1	697.6	835.3	973.0
57.5°	500.6	516.2	530.8	579.8	628.8	670.5	711.2	679.9	647.6	764.4	880.1
60°	471.4	489.1	506.8	569.4	630.9	623.6	615.3	609.0	601.7	685.1	768.6
62.5°	445.3	464.1	482.8	564.2	645.5	595.5	545.4	550.6	554.8	616.3	677.8
65°	419.2	438.0	455.7	496.4	537.1	517.2	497.4	505.8	513.1	573.6	634.0
67.5°	390.0	406.7	422.3	435.9	449.5	451.5	453.6	462.0	470.3	542.3	613.2
70°	357.7	371.2	384.8	394.2	402.5	406.7	409.8	420.3	430.7	508.9	587.1
72.5°	321.2	332.7	343.1	351.4	359.8	362.9	365.0	375.4	385.8	469.3	552.7
75°	281.6	290.9	299.3	306.6	313.9	318.1	322.2	329.5	336.8	427.6	517.2
77.5°	237.8	247.1	255.5	261.7	267.0	271.1	274.3	283.6	293.0	369.2	444.2
80°	185.6	197.1	207.5	212.7	216.9	217.9	217.9	226.3	234.6	288.9	342.0
82.5°	131.4	143.9	155.4	159.6	163.7	163.7	163.7	173.1	182.5	219.0	254.4
85°	77.2	90.7	103.2	107.4	111.6	113.7	114.7	118.9	122.0	148.1	173.1
87.5°	24.0	35.5	45.9	48.0	50.1	54.2	58.4	59.4	59.4	77.2	94.9
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: P320472

CATALOG NUMBER: GLEON-SA8A-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: P320472

CATALOG NUMBER: GLEON-SA8A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3	7946.3
2.5°	7818.0	7924.4	8048.5	8171.6	8276.9	8382.2	8469.8
5°	6948.3	7162.1	7423.9	7684.6	7917.1	8149.7	8419.7
7.5°	5855.4	6131.8	6470.7	6809.6	7138.1	7465.6	7880.6
10°	5063.9	5344.5	5703.2	6060.9	6430.0	6798.2	7267.4
12.5°	4561.3	4788.6	5135.9	5483.2	5917.0	6349.7	6801.3
15°	4229.7	4477.9	4815.8	5153.6	5628.1	6102.6	6621.9
17.5°	3876.2	4200.5	4633.3	5066.0	5628.1	6189.2	6801.3
20°	3506.0	3909.5	4470.6	5031.6	5788.7	6544.8	7325.8
22.5°	3136.8	3604.0	4323.5	5042.0	6031.7	7020.3	8074.6
25°	2804.1	3343.3	4233.9	5123.4	6385.2	7646.0	8953.7
27.5°	2551.8	3139.9	4197.4	5253.7	6833.6	8413.5	9909.9
30°	2327.6	2926.2	4153.6	5381.0	7265.3	9148.7	10657.6
32.5°	2133.6	2717.6	4069.1	5419.5	7566.7	9713.9	11290.6
35°	1981.4	2554.9	3927.3	5299.6	7755.5	10211.3	11949.7
37.5°	1850.0	2391.2	3765.6	5140.1	7923.4	10706.7	12691.2
40°	1724.8	2216.0	3626.9	5036.8	8154.9	11272.9	13474.3
42.5°	1605.9	2072.1	3515.4	4958.6	8369.7	11779.7	14159.4
45°	1517.3	1961.5	3416.3	4870.0	8508.4	12146.8	14675.6
47.5°	1473.5	1895.9	3363.1	4829.3	8647.1	12463.8	15104.2
50°	1467.3	1884.4	3423.6	4962.8	8947.4	12931.0	15594.4
52.5°	1466.2	1903.2	3597.7	5292.3	9505.3	13717.3	16125.2
55°	1444.3	1914.6	3805.3	5694.9	10254.1	14812.3	17079.3
57.5°	1377.6	1875.0	4019.0	6162.0	11045.6	15928.1	18154.5
60°	1274.3	1779.1	4195.3	6610.5	11577.4	16543.3	18568.5
62.5°	1145.0	1611.2	4253.7	6895.1	11562.8	16230.5	18151.4
65°	1034.5	1434.9	4061.8	6687.6	10977.8	15266.9	17326.5
67.5°	936.5	1258.7	3582.1	5904.5	9925.6	13945.7	16277.4
70°	865.5	1142.9	2963.7	4784.5	8608.5	12431.5	15062.5
72.5°	820.7	1087.7	2416.2	3743.7	6985.9	10227.0	12884.1
75°	759.2	1001.1	1895.9	2789.6	5346.6	7903.6	9731.6
77.5°	644.5	843.6	1428.7	2013.7	3923.1	5831.5	6767.9
80°	497.4	651.8	982.3	1312.9	2699.9	4086.8	4614.5
82.5°	354.6	454.7	595.5	736.2	1793.7	2850.0	2893.8
85°	219.0	264.9	341.0	417.1	1186.7	1956.3	1629.9
87.5°	117.8	140.8	180.4	219.0	379.6	540.2	310.8
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: P320472
 CATALOG NUMBER: GLEON-SA8A-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.

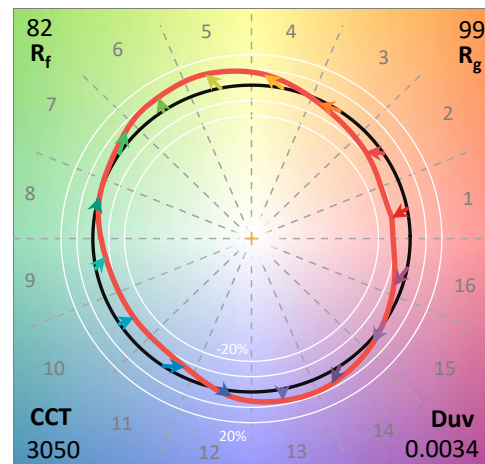
Test Information

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

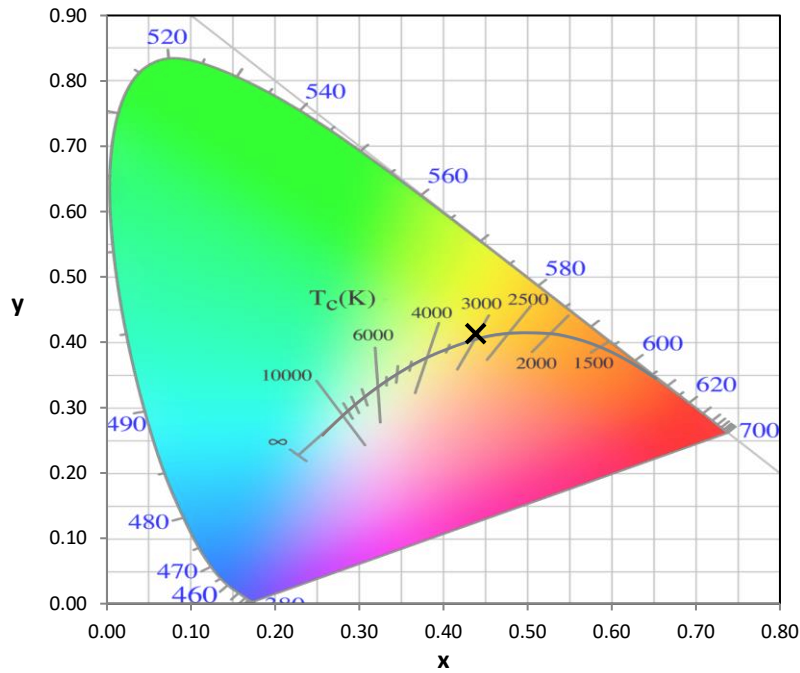
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

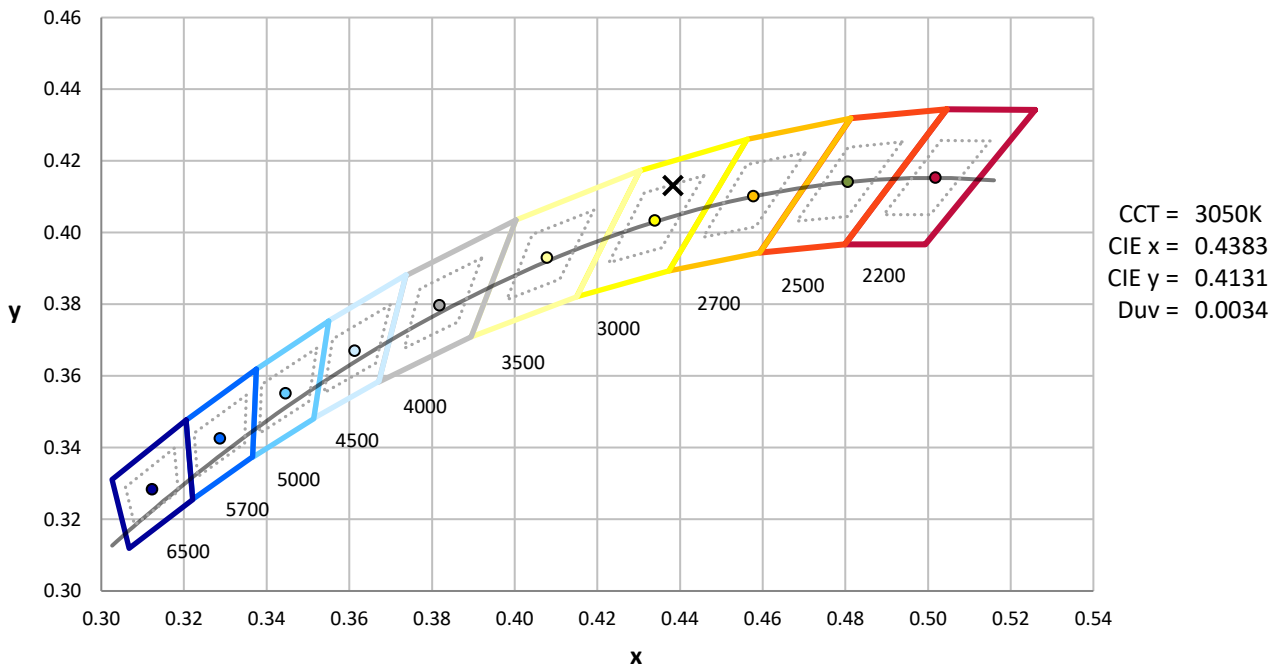
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



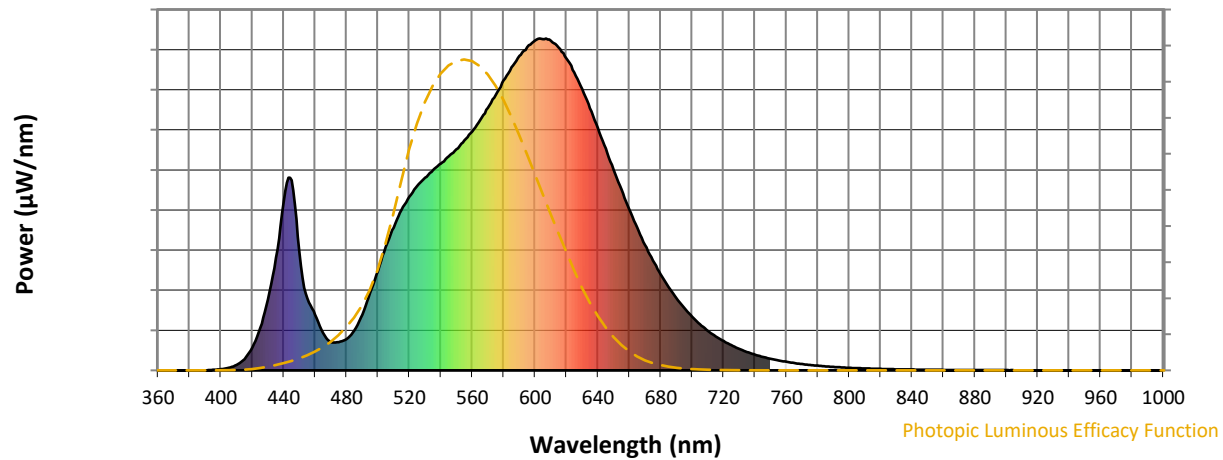
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

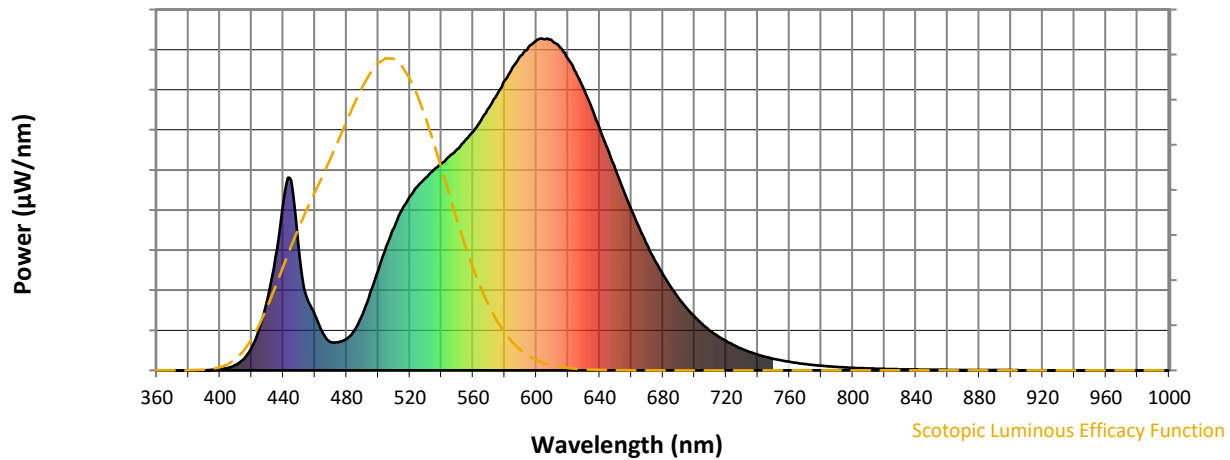


Photopic Lumens: NR

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

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength

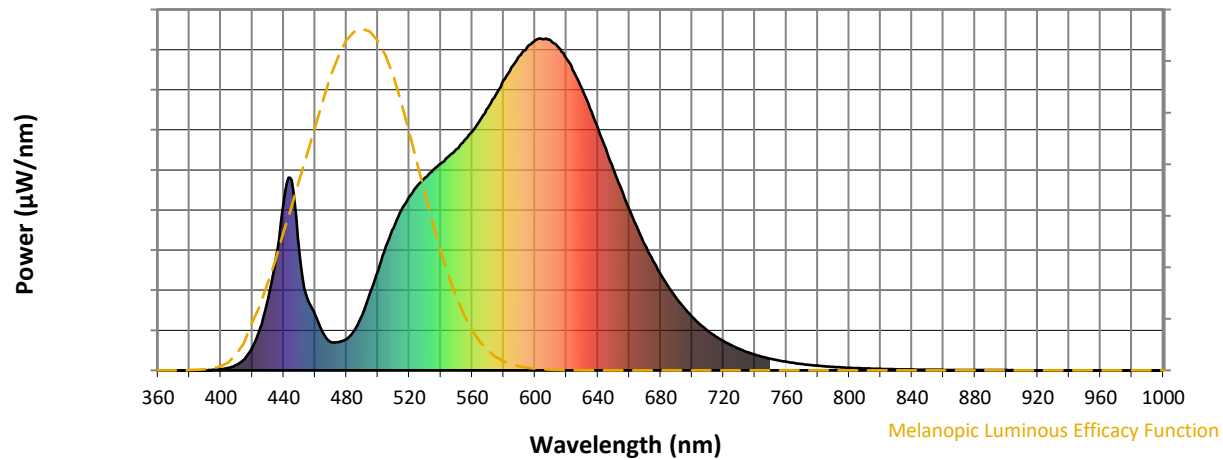


Scotopic Lumens: NR

S/P: 1.27

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

REPORT NUMBER: SP1-2408-195-9

Melanopic Flux vs. Wavelength

Melanopic Lumens: NR
M/P: 2.32

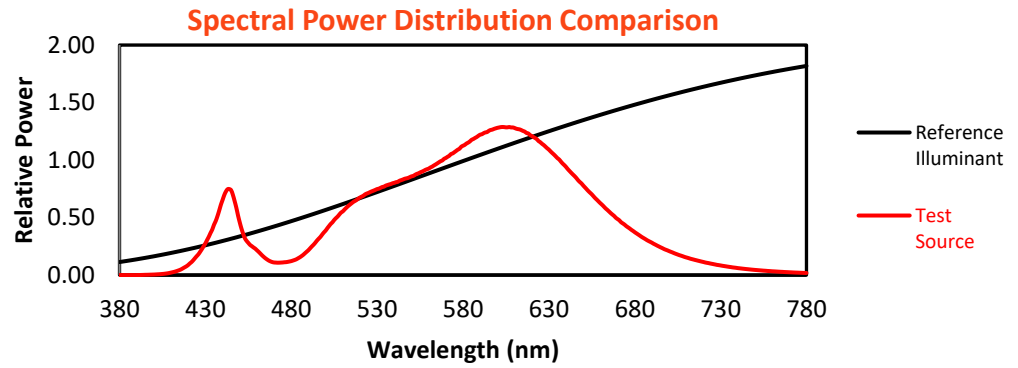
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940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

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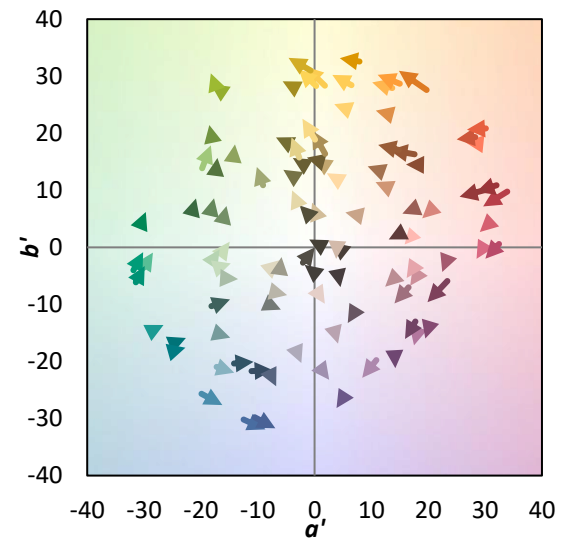
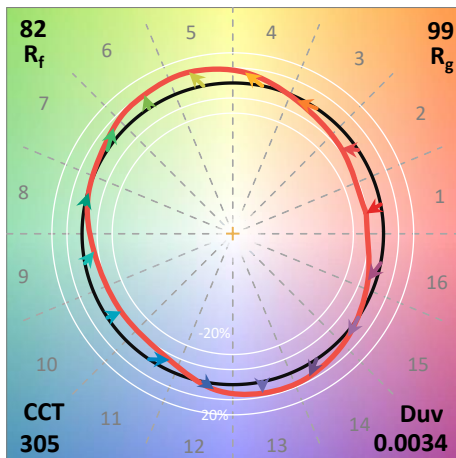
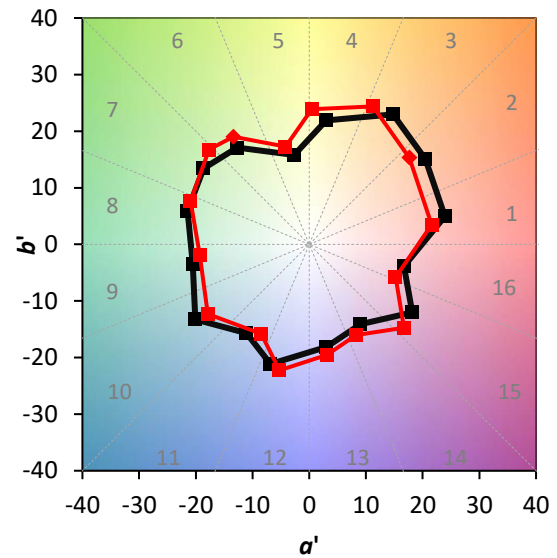
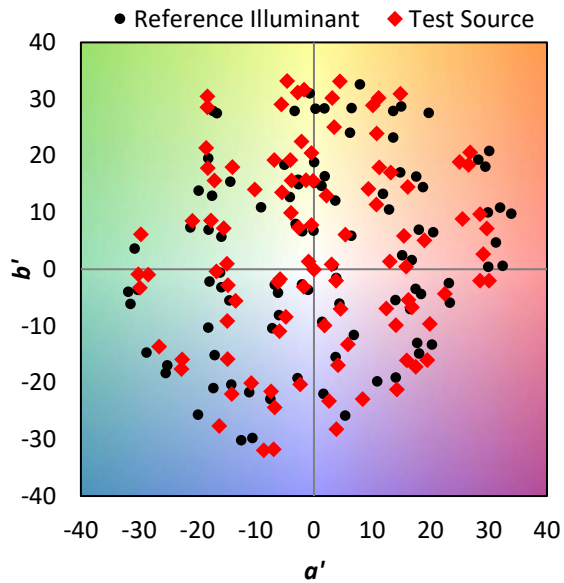
TM-30-18

Summary

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

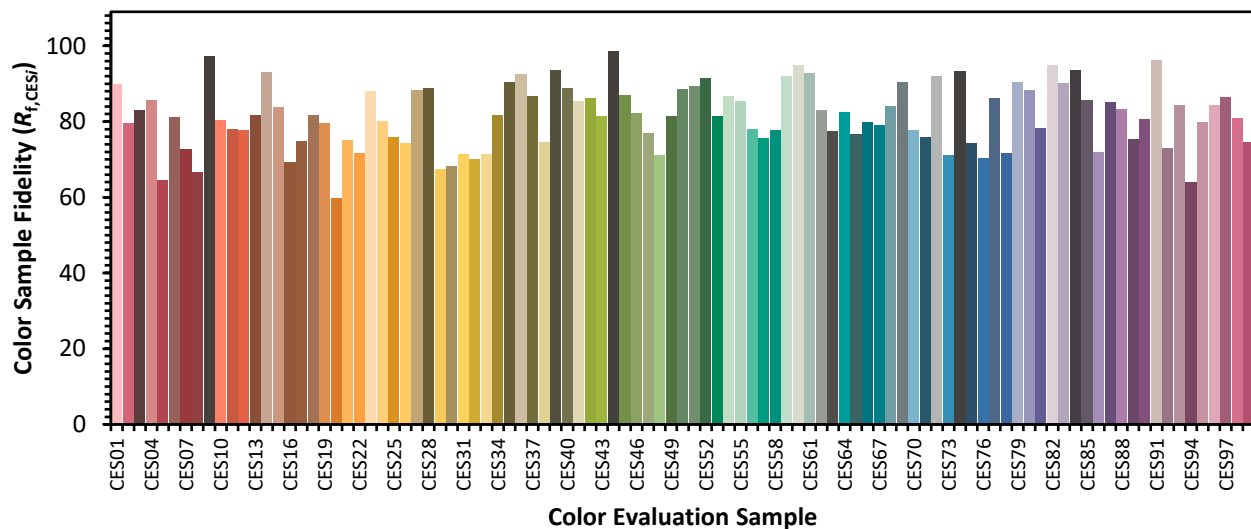


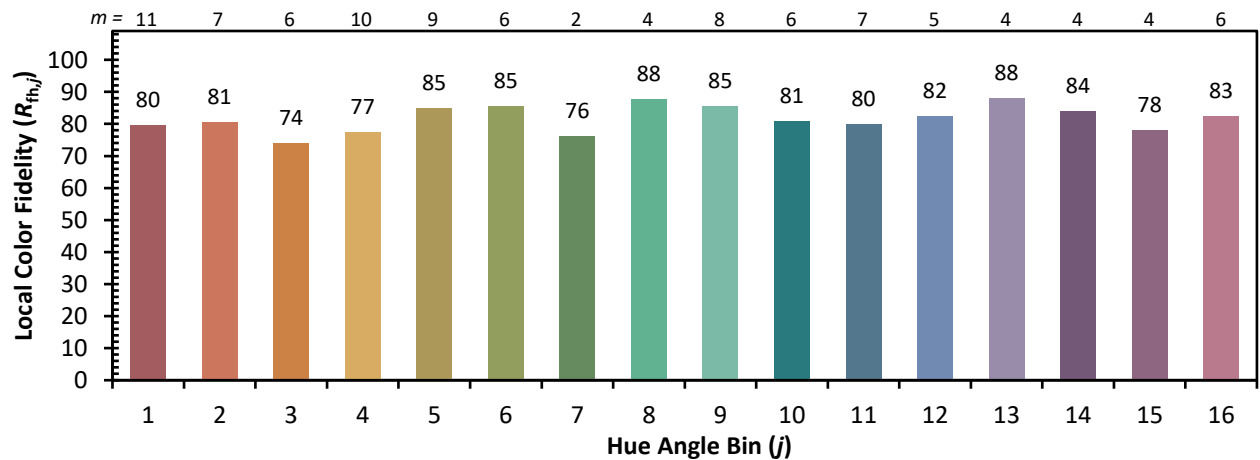
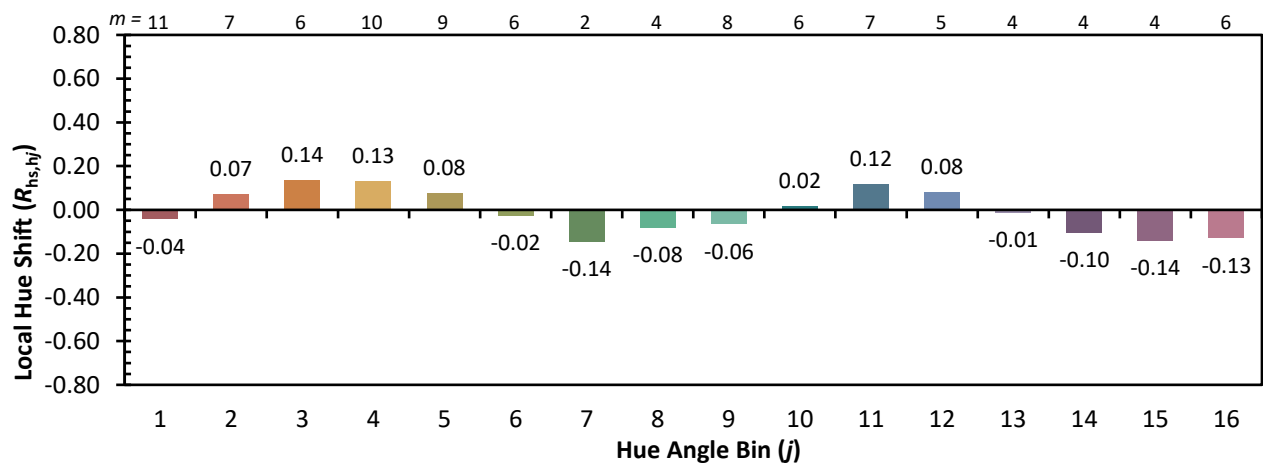
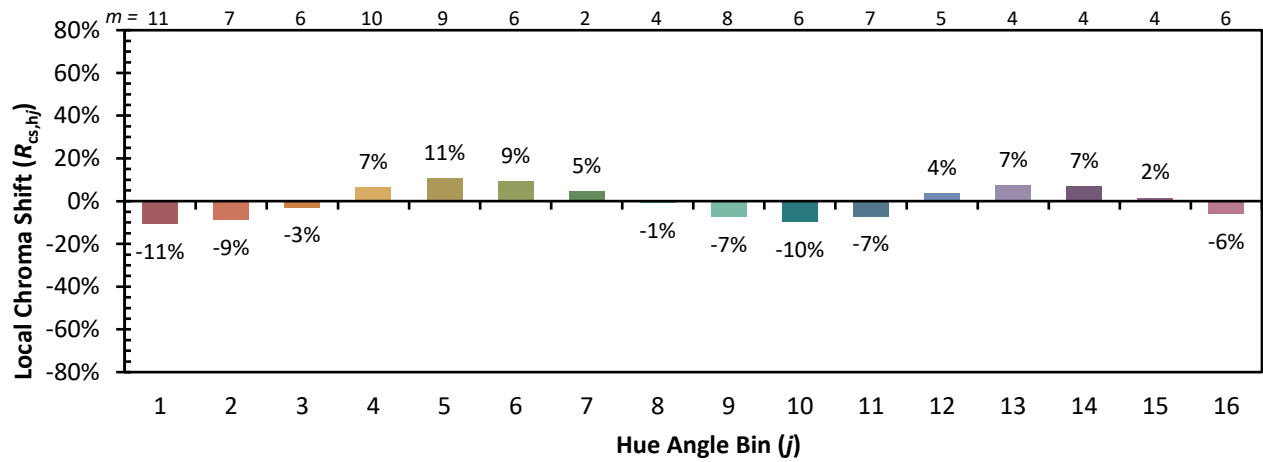
Color Vector Graphics



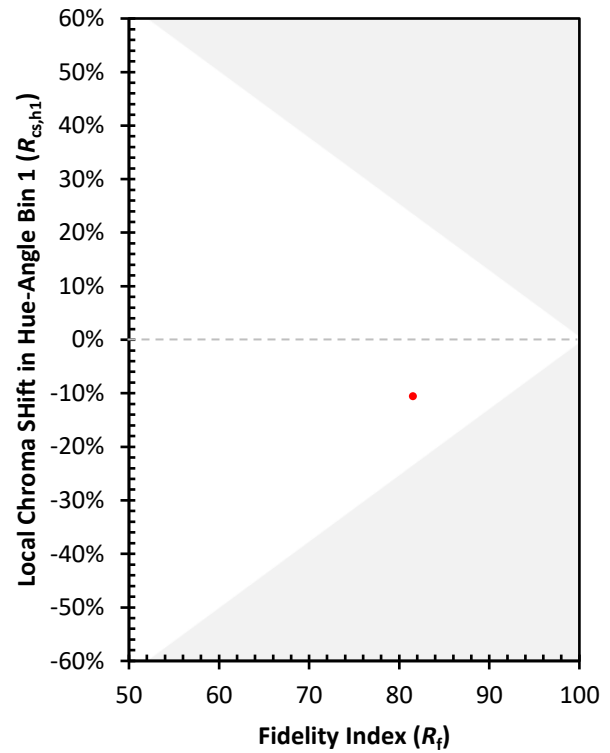
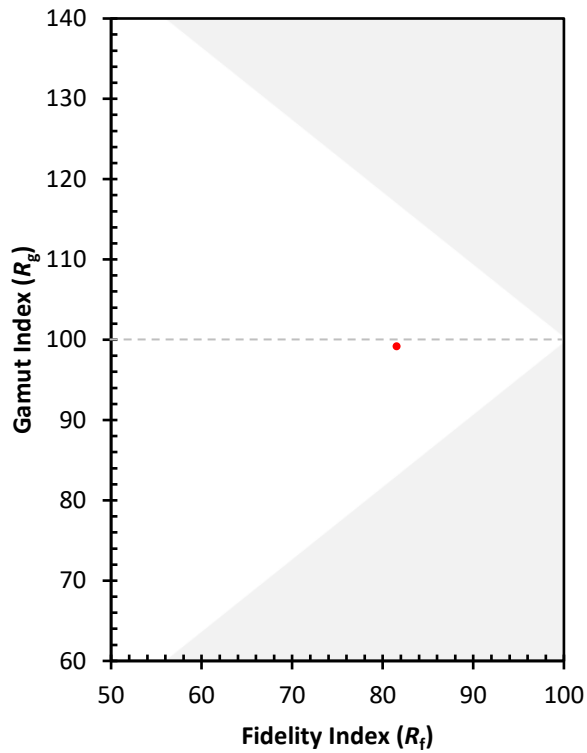
Individual Sample Fidelity Index ($R_{f,i}$)

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)