

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: P320792

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320792
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-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26083 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

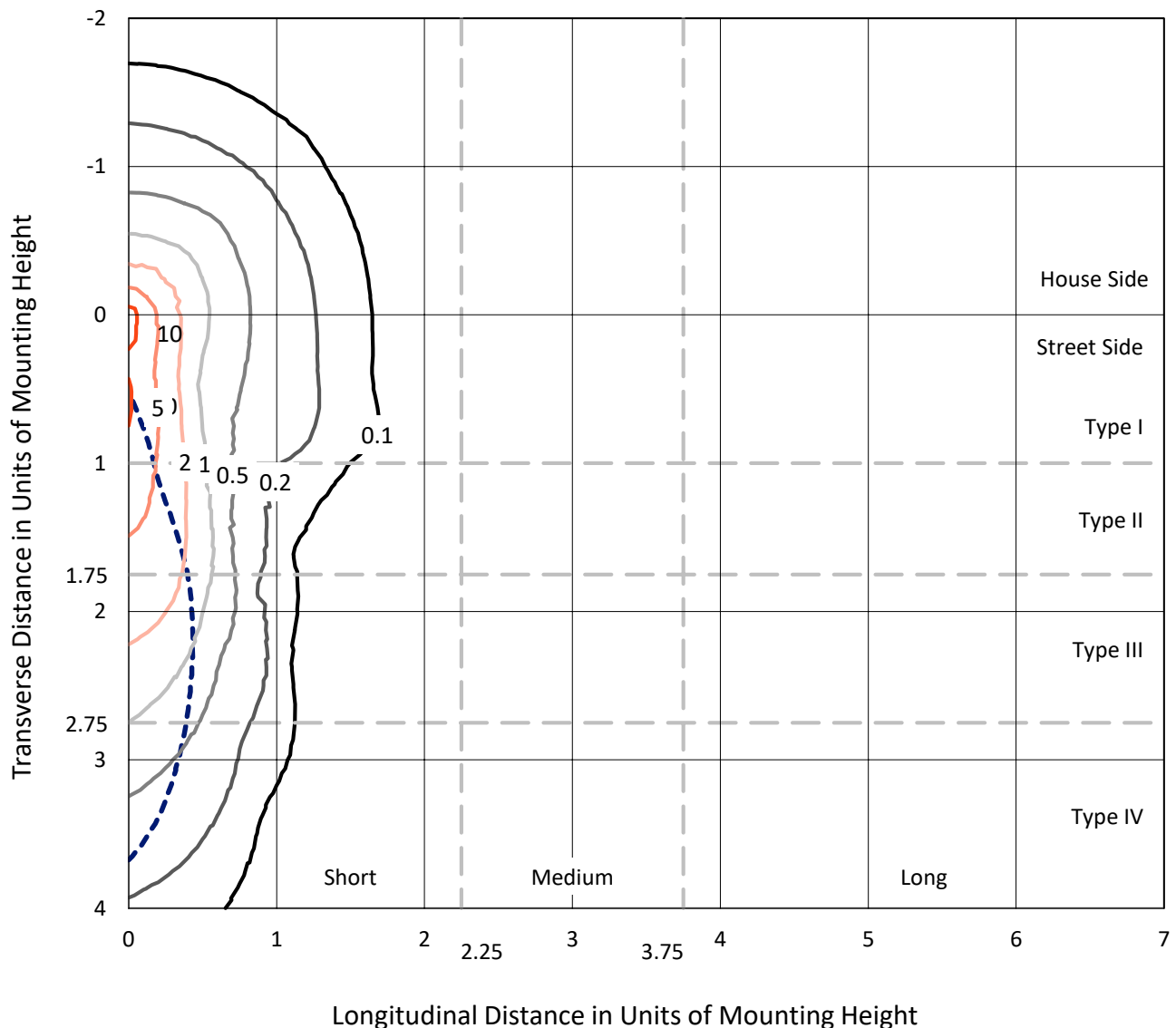
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

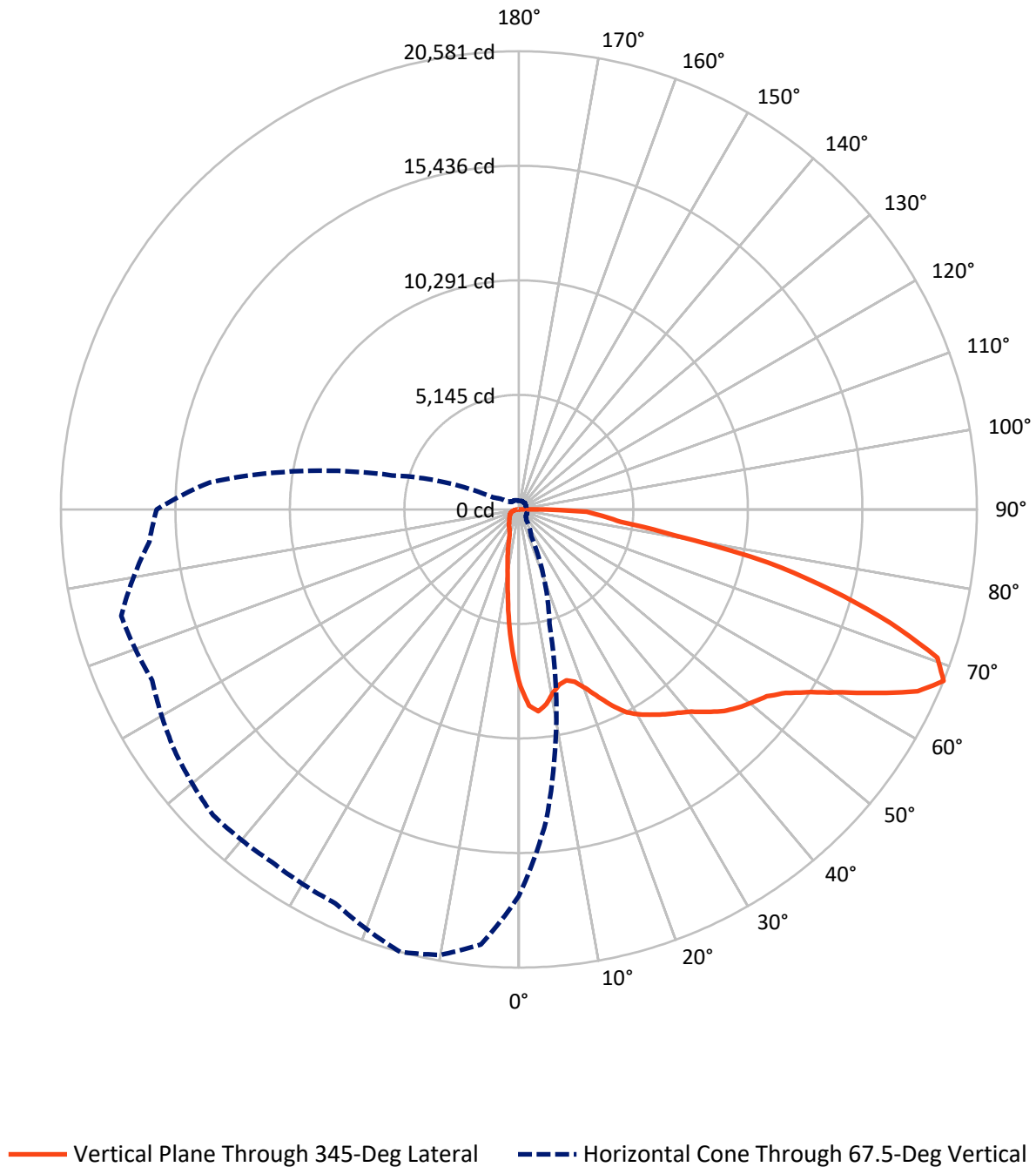
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4509.2	0.0	4509.2
	% Fixture	17.3	0.0	17.3
Street Side	Lumens	21573.8	0.0	21573.8
	% Fixture	82.7	0.0	82.7
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°	6186.0	23.7
70°-80°	3802.4	14.6
80°-90°	989.4	3.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	26083.0	100.0
0°-180°	26083.0	100.0

Coefficient of Utilization



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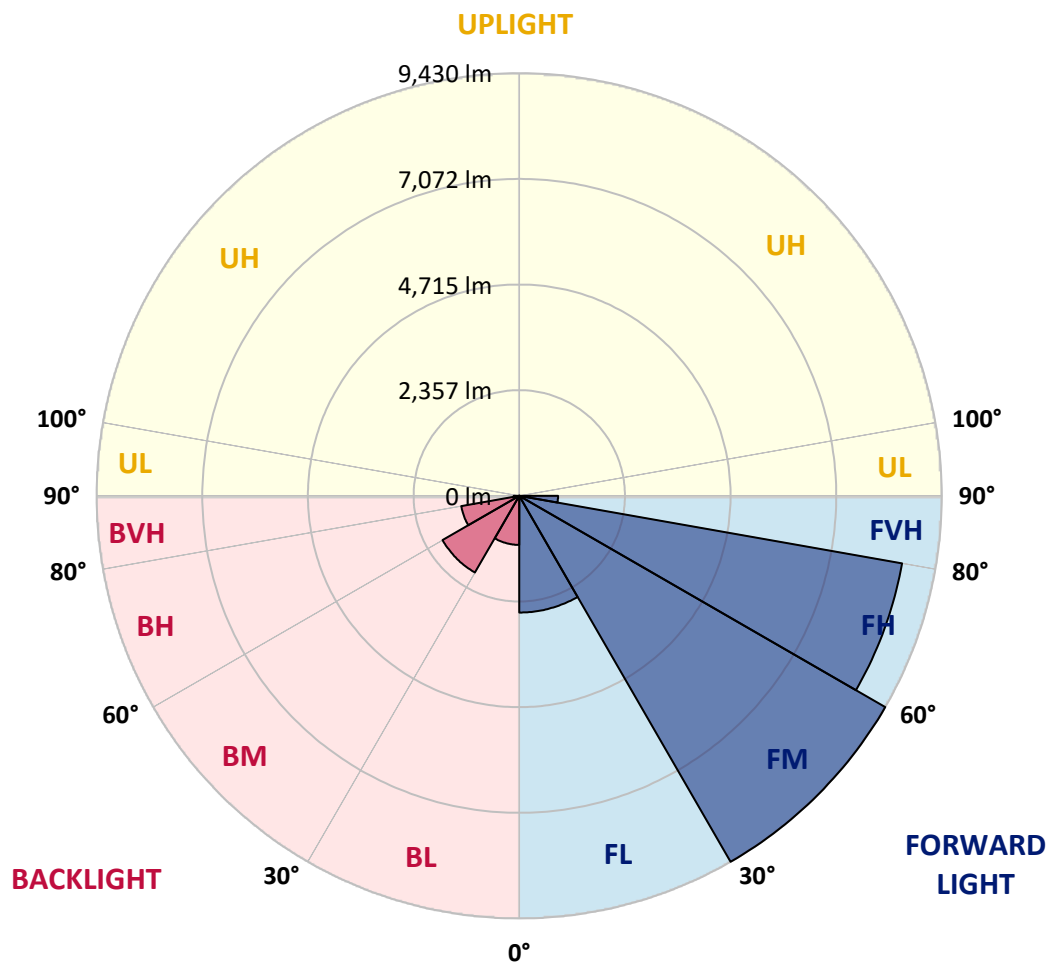
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2604.4	10.0			
FM	(30°-60°)	9429.7	36.2			
FH	(60°-80°)	8674.3	33.3			G4/12000
FVH	(80°-90°)	865.4	3.3			G5
BL	(0°-30°)	1094.8	4.2	B3/2500		
BM	(30°-60°)	1976.3	7.6	B2/2500		
BH	(60°-80°)	1314.1	5.0	B3/2500		G3/2500
BVH	(80°-90°)	124.0	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	7946.4	7946.4	7946.4	7946.4	7946.4	7946.4	7946.4	7946.4	7946.4	7946.4	7946.4
2.5°	8512.6	8437.5	8323.9	8210.2	8125.7	8040.2	7943.2	7846.3	7735.7	7624.1	7558.4
5°	8371.8	8163.3	7892.1	7621.0	7441.6	7262.3	7058.9	6855.6	6654.3	6453.0	6344.6
7.5°	7737.8	7425.0	7072.5	6720.0	6459.3	6197.5	5916.0	5633.4	5383.1	5131.8	4976.4
10°	7114.2	6738.8	6334.2	5928.5	5594.8	5261.1	4978.5	4694.8	4506.1	4317.3	4174.4
12.5°	6666.8	6250.7	5805.4	5359.1	5025.4	4691.7	4512.3	4333.0	4176.5	4020.1	3855.3
15°	6489.5	6019.2	5563.5	5106.7	4803.3	4499.8	4300.6	4100.4	3890.8	3680.1	3477.8
17.5°	6646.0	6095.3	5600.0	5104.7	4707.3	4310.0	4031.6	3752.1	3475.8	3199.4	2964.8
20°	7134.0	6431.1	5783.5	5134.9	4606.2	4077.5	3704.1	3329.8	2975.2	2620.6	2354.7
22.5°	7819.1	6888.9	6043.2	5197.5	4514.4	3830.3	3362.1	2892.8	2473.6	2054.4	1793.7
25°	8651.3	7495.9	6417.6	5338.2	4476.9	3614.4	3038.8	2463.2	2021.0	1577.8	1392.2
27.5°	9528.3	8219.6	6882.7	5544.7	4483.1	3421.5	2766.6	2110.7	1712.3	1314.0	1186.7
30°	10259.4	9046.6	7425.0	5802.3	4507.1	3211.9	2510.1	1808.3	1479.8	1151.3	1068.9
32.5°	10927.8	9623.2	7833.7	6043.2	4534.2	3024.2	2312.0	1598.7	1330.7	1061.6	993.8
35°	11618.2	10135.3	8119.5	6102.6	4487.3	2870.9	2176.4	1481.9	1234.7	986.5	929.2
37.5°	12378.4	10689.0	8394.8	6099.5	4408.0	2716.6	2071.1	1424.5	1172.1	918.7	877.0
40°	13226.2	11301.2	8693.0	6084.9	4336.1	2586.2	1992.8	1398.4	1137.7	876.0	840.5
42.5°	14055.3	11885.1	8970.4	6055.7	4277.7	2498.6	1915.7	1332.7	1106.4	879.1	829.1
45°	14677.8	12395.1	9211.3	6026.5	4233.9	2441.3	1855.2	1269.1	1077.2	885.4	821.8
47.5°	15150.2	12907.1	9478.3	6048.4	4229.7	2411.0	1812.4	1213.9	1022.0	829.1	803.0
50°	15750.9	13522.4	9867.3	6212.1	4287.1	2362.0	1762.4	1161.7	968.8	775.9	811.3
52.5°	16498.6	14400.4	10470.0	6538.5	4407.0	2275.5	1683.1	1090.8	904.1	716.4	771.7
55°	17596.7	15525.7	11240.7	6954.6	4552.0	2148.2	1563.2	977.1	818.6	659.1	708.1
57.5°	18582.2	16662.3	11980.0	7296.7	4642.7	1987.6	1412.0	836.3	722.7	609.0	637.2
60°	19021.2	17248.4	12326.3	7403.1	4588.5	1773.9	1242.0	709.1	638.2	567.3	562.1
62.5°	18850.2	16876.1	11985.2	7094.4	4323.6	1552.8	1091.8	630.9	577.7	523.5	512.0
65°	18349.6	15706.1	11030.0	6354.0	3876.2	1398.4	996.9	595.5	536.0	476.6	464.1
67.5°	17363.1	14040.7	9676.4	5312.2	3307.9	1303.5	942.7	581.9	509.9	436.9	422.3
70°	15592.4	12036.3	8117.4	4197.4	2721.8	1245.1	907.3	569.4	481.8	393.1	379.6
72.5°	12807.0	9650.4	6482.2	3313.1	2275.5	1237.8	903.1	568.3	458.8	349.3	336.8
75°	9169.6	7330.1	4948.2	2565.4	1863.5	1161.7	857.2	552.7	427.6	301.4	289.9
77.5°	6170.4	5073.4	3439.3	1804.1	1382.8	961.5	720.6	479.7	366.0	252.4	240.9
80°	3962.8	3511.2	2304.7	1098.1	896.8	695.6	515.2	334.7	267.0	198.1	188.8
82.5°	2907.4	2613.3	1601.8	590.2	498.5	405.7	314.9	224.2	182.5	140.8	136.6
85°	1847.9	2037.7	1179.4	321.2	262.8	204.4	168.9	133.5	105.3	77.2	77.2
87.5°	358.7	496.4	326.4	155.4	113.7	72.0	61.5	50.1	28.2	5.2	6.3
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°	7946.4	7946.4	7946.4	7946.4	7946.4	7946.4	7946.4	7946.4	7946.4	7946.4	7946.4
2.5°	7491.7	7419.7	7347.8	7266.4	7184.1	7107.9	7030.8	6946.3	6961.9	6897.3	6832.6
5°	6236.1	6121.4	6005.7	5905.5	5805.4	5718.9	5631.3	5553.1	5620.9	5575.0	5529.1
7.5°	4820.0	4678.1	4535.3	4415.3	4295.4	4202.6	4108.8	4044.1	4110.8	4102.5	4094.2
10°	4031.6	3893.9	3755.2	3622.8	3490.4	3377.7	3264.1	3168.1	3151.4	3103.5	3054.4
12.5°	3689.5	3500.8	3311.0	3172.3	3033.6	2899.1	2764.5	2651.9	2600.8	2521.6	2441.3
15°	3275.5	3052.4	2829.2	2671.7	2513.2	2382.9	2251.5	2154.5	2122.2	2060.6	1999.1
17.5°	2730.1	2486.1	2242.1	2082.5	1921.9	1817.7	1712.3	1647.7	1647.7	1629.9	1612.2
20°	2088.8	1870.8	1652.9	1530.9	1408.9	1353.6	1297.3	1270.2	1278.5	1279.6	1279.6
22.5°	1531.9	1398.4	1265.0	1215.9	1165.9	1146.1	1126.3	1114.8	1119.0	1120.0	1121.0
25°	1206.6	1155.5	1103.3	1078.3	1052.2	1039.7	1027.2	1023.0	1032.4	1033.4	1033.4
27.5°	1059.5	1028.2	995.9	980.3	963.6	958.4	953.1	945.8	955.2	955.2	954.2
30°	985.5	952.1	918.7	898.9	879.1	881.2	882.2	880.1	886.4	890.6	893.7
32.5°	925.0	892.7	860.3	840.5	819.7	816.5	813.4	811.3	824.9	832.2	839.5
35°	870.8	835.3	799.9	781.1	762.3	755.0	747.7	742.5	755.0	764.4	773.8
37.5°	834.3	797.8	760.2	742.5	723.7	714.3	705.0	698.7	703.9	708.1	712.3
40°	805.1	767.5	728.9	708.1	687.2	677.8	668.5	663.2	666.4	667.4	668.5
42.5°	778.0	741.5	705.0	682.0	658.0	646.6	635.1	628.8	630.9	633.0	634.0
45°	758.1	721.6	684.1	657.0	628.8	616.3	603.8	596.5	597.5	597.5	597.5
47.5°	776.9	723.7	669.5	638.2	605.9	591.3	576.7	569.4	567.3	565.2	563.1
50°	845.7	755.0	663.2	623.6	582.9	567.3	550.6	542.3	537.1	535.0	532.9
52.5°	825.9	747.7	668.5	617.4	565.2	546.4	527.7	514.1	508.9	505.8	502.6
55°	756.1	707.0	657.0	595.5	533.9	517.2	499.5	490.1	480.7	478.7	476.6
57.5°	664.3	644.5	624.7	562.1	499.5	483.9	467.2	460.9	452.6	452.6	451.5
60°	555.8	585.0	614.2	542.3	469.3	451.5	433.8	428.6	425.5	424.4	423.4
62.5°	499.5	547.5	594.4	518.3	441.1	422.3	403.6	397.3	396.3	397.3	397.3
65°	451.5	466.1	480.7	445.3	409.8	391.1	371.2	365.0	367.1	370.2	373.3
67.5°	407.7	404.6	401.5	389.0	375.4	359.8	343.1	336.8	337.9	342.0	346.2
70°	366.0	361.9	356.6	347.3	337.9	324.3	310.8	306.6	305.5	310.8	314.9
72.5°	324.3	319.1	312.8	305.5	297.2	285.7	274.3	271.1	272.2	275.3	278.4
75°	278.4	274.3	269.1	262.8	255.5	245.1	234.6	232.6	234.6	237.8	240.9
77.5°	228.4	227.3	225.3	220.0	214.8	203.4	190.8	189.8	192.9	196.1	198.1
80°	178.3	179.4	180.4	176.2	172.1	159.6	146.0	145.0	148.1	151.2	154.3
82.5°	131.4	134.5	136.6	131.4	126.2	111.6	97.0	94.9	105.3	108.5	111.6
85°	76.1	80.3	84.5	80.3	76.1	61.5	46.9	45.9	55.3	60.5	65.7
87.5°	6.3	8.3	10.4	9.4	8.3	4.2	0.0	0.0	1.0	5.2	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: P320792
 CATALOG NUMBER: GLEON-SA8A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320792

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

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	7946.4	7946.4	7946.4	7946.4	7946.4	7946.4	7946.4	7946.4	7946.4	7946.4	7946.4
2.5°	6792.0	6751.3	6738.8	6726.3	6680.4	6633.4	6681.4	6728.3	6748.2	6768.0	6716.9
5°	5522.8	5515.5	5515.5	5514.5	5472.8	5430.0	5462.3	5493.6	5423.8	5353.9	5346.6
7.5°	4139.0	4183.8	4220.3	4255.8	4242.2	4228.7	4258.9	4289.2	4200.5	4110.8	4067.0
10°	3064.9	3074.3	3113.9	3153.5	3162.9	3171.2	3208.8	3245.3	3176.5	3107.6	3077.4
12.5°	2391.2	2341.2	2346.4	2350.5	2369.3	2387.0	2426.7	2465.3	2437.1	2407.9	2411.0
15°	1936.5	1872.9	1846.9	1819.7	1840.6	1861.5	1889.6	1916.7	1917.8	1917.8	1944.9
17.5°	1580.9	1548.6	1522.5	1495.4	1523.6	1550.7	1553.8	1556.9	1558.0	1559.0	1556.9
20°	1295.2	1310.8	1302.5	1294.2	1304.6	1314.0	1322.3	1329.6	1320.2	1309.8	1283.7
22.5°	1135.6	1149.2	1159.6	1169.0	1186.7	1203.4	1195.1	1185.7	1166.9	1147.1	1127.3
25°	1042.8	1052.2	1062.6	1073.1	1087.7	1101.2	1086.6	1072.0	1058.5	1044.9	1031.4
27.5°	964.6	974.0	983.4	991.7	1005.3	1017.8	1004.2	990.7	979.2	967.7	957.3
30°	901.0	907.3	914.6	921.9	934.4	945.8	934.4	921.9	913.5	904.1	896.8
32.5°	846.8	853.0	856.2	859.3	870.8	882.2	873.9	865.5	858.2	850.9	845.7
35°	787.3	799.9	801.9	804.0	815.5	827.0	821.8	815.5	807.2	798.8	789.4
37.5°	726.9	741.5	749.8	757.1	768.6	780.0	774.8	769.6	758.1	746.7	730.0
40°	675.8	682.0	697.7	712.3	731.0	748.8	738.3	726.9	709.1	691.4	683.1
42.5°	633.0	632.0	646.6	661.2	689.3	716.4	697.7	678.9	662.2	645.5	643.4
45°	595.5	592.3	599.6	606.9	637.2	666.4	647.6	627.8	618.4	609.0	609.0
47.5°	562.1	560.0	565.2	569.4	588.2	605.9	596.5	587.1	581.9	576.7	577.7
50°	531.8	529.8	535.0	539.1	546.4	552.7	554.8	555.8	552.7	549.6	551.7
52.5°	503.7	503.7	505.8	506.8	516.2	525.6	525.6	524.5	524.5	524.5	526.6
55°	479.7	481.8	481.8	481.8	496.4	509.9	505.8	501.6	502.6	502.6	504.7
57.5°	455.7	458.8	460.9	463.0	477.6	492.2	488.0	483.9	483.9	483.9	484.9
60°	428.6	432.8	436.9	441.1	455.7	470.3	466.1	460.9	462.0	463.0	464.1
62.5°	402.5	406.7	410.9	415.0	429.6	444.2	440.1	434.9	438.0	440.1	440.1
65°	377.5	380.6	384.8	389.0	402.5	416.1	411.9	407.7	411.9	415.0	417.1
67.5°	349.3	351.4	355.6	359.8	373.3	386.9	382.7	377.5	382.7	386.9	391.1
70°	317.0	319.1	324.3	328.5	342.0	355.6	350.4	345.2	350.4	355.6	359.8
72.5°	281.6	283.6	288.9	293.0	308.7	324.3	318.1	311.8	318.1	324.3	326.4
75°	243.0	245.1	251.3	256.5	272.2	287.8	282.6	276.4	281.6	286.8	287.8
77.5°	201.3	204.4	212.7	221.1	233.6	246.1	243.0	239.9	243.0	246.1	246.1
80°	157.5	160.6	171.0	180.4	187.7	195.0	196.1	197.1	198.1	199.2	198.1
82.5°	116.8	121.0	130.4	139.7	139.7	139.7	148.1	155.4	155.4	154.3	153.3
85°	72.0	77.2	85.5	93.9	88.6	83.4	97.0	109.5	109.5	108.5	106.4
87.5°	14.6	19.8	28.2	35.5	30.2	25.0	38.6	52.1	53.2	53.2	51.1
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: P320792
 CATALOG NUMBER: GLEON-SA8A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320792

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	7946.4	7946.4	7946.4	7946.4	7946.4	7946.4	7946.4	7946.4	7946.4	7946.4	7946.4
2.5°	6664.7	6746.1	6826.4	6847.2	6878.5	6892.1	6904.6	7006.8	7107.9	7226.8	7345.7
5°	5338.2	5398.7	5459.2	5468.6	5500.9	5517.6	5534.3	5658.4	5781.5	5947.3	6113.1
7.5°	4023.2	4037.8	4052.4	4050.4	4077.5	4114.0	4149.4	4281.9	4413.3	4591.6	4768.9
10°	3047.2	3080.5	3112.8	3143.1	3202.5	3271.4	3339.1	3474.7	3610.3	3786.5	3961.7
12.5°	2414.2	2452.7	2490.3	2523.6	2592.5	2684.2	2775.0	2937.7	3100.3	3311.0	3520.6
15°	1970.9	1967.8	1964.7	1987.6	2048.1	2148.2	2247.3	2419.4	2591.4	2822.9	3053.4
17.5°	1554.9	1539.2	1523.6	1541.3	1597.6	1680.0	1761.3	1907.3	2052.3	2276.5	2500.7
20°	1257.7	1247.2	1236.8	1253.5	1288.9	1323.4	1357.8	1463.1	1567.4	1749.9	1931.3
22.5°	1106.4	1105.4	1103.3	1112.7	1129.4	1147.1	1163.8	1214.9	1265.0	1382.8	1499.6
25°	1017.8	1016.8	1015.7	1019.9	1033.4	1047.0	1060.6	1093.9	1127.3	1183.6	1239.9
27.5°	946.9	944.8	942.7	943.8	946.9	967.7	987.6	1003.2	1017.8	1056.4	1093.9
30°	889.5	888.5	887.4	887.4	884.3	891.6	898.9	922.9	945.8	985.5	1025.1
32.5°	840.5	835.3	830.1	818.6	811.3	821.8	832.2	857.2	882.2	918.7	955.2
35°	779.0	765.4	750.8	744.6	745.6	756.1	766.5	791.5	815.5	855.1	893.7
37.5°	712.3	708.1	702.9	701.8	705.0	715.4	725.8	747.7	768.6	808.2	846.8
40°	674.7	672.6	670.5	668.5	670.5	681.0	691.4	712.3	732.1	770.7	808.2
42.5°	641.3	640.3	639.3	639.3	640.3	651.8	663.2	684.1	703.9	738.3	772.7
45°	609.0	610.1	610.1	612.1	615.3	626.7	637.2	660.1	683.1	716.4	749.8
47.5°	578.8	581.9	584.0	589.2	592.3	604.8	616.3	641.3	666.4	708.1	748.8
50°	552.7	555.8	557.9	562.1	570.4	585.0	599.6	629.9	659.1	728.9	797.8
52.5°	528.7	531.8	535.0	539.1	549.6	566.3	582.9	620.5	657.0	738.3	819.7
55°	506.8	509.9	512.0	518.3	528.7	543.3	556.9	602.8	648.6	708.1	767.5
57.5°	486.0	489.1	491.2	495.3	500.6	516.2	530.8	579.8	628.8	670.5	711.2
60°	464.1	466.1	467.2	467.2	471.4	489.1	506.8	569.4	630.9	623.6	615.3
62.5°	440.1	442.2	443.2	440.1	445.3	464.1	482.8	564.2	645.5	595.5	545.4
65°	418.2	417.1	416.1	413.0	419.2	438.0	455.7	496.4	537.1	517.2	497.4
67.5°	394.2	391.1	387.9	383.8	390.0	406.7	422.3	435.9	449.5	451.5	453.6
70°	363.9	359.8	355.6	354.6	357.7	371.2	384.8	394.2	402.5	406.7	409.8
72.5°	328.5	325.4	322.2	320.1	321.2	332.7	343.1	351.4	359.8	362.9	365.0
75°	288.9	288.9	287.8	281.6	281.6	290.9	299.3	306.6	313.9	318.1	322.2
77.5°	246.1	247.2	247.2	238.8	237.8	247.2	255.5	261.8	267.0	271.1	274.3
80°	197.1	195.0	192.9	187.7	185.6	197.1	207.5	212.7	216.9	218.0	218.0
82.5°	151.2	147.0	141.8	130.4	131.4	143.9	155.4	159.6	163.7	163.7	163.7
85°	103.2	94.9	85.5	76.1	77.2	90.7	103.2	107.4	111.6	113.7	114.7
87.5°	49.0	40.7	31.3	24.0	24.0	35.5	45.9	48.0	50.1	54.2	58.4
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: P320792
 CATALOG NUMBER: GLEON-SA8A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P320792

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	7946.4	7946.4	7946.4	7946.4	7946.4	7946.4	7946.4	7946.4	7946.4	7946.4	7946.4
2.5°	7436.4	7526.1	7618.9	7711.7	7818.1	7924.5	8048.6	8171.6	8276.9	8382.3	8469.9
5°	6255.9	6398.8	6566.7	6734.6	6948.4	7162.2	7423.9	7684.6	7917.2	8149.7	8419.8
7.5°	4955.5	5141.2	5360.1	5579.1	5855.5	6131.8	6470.8	6809.7	7138.2	7465.6	7880.7
10°	4156.7	4351.7	4567.6	4782.4	5064.0	5344.5	5703.2	6060.9	6430.1	6798.2	7267.5
12.5°	3737.5	3953.4	4143.2	4333.0	4561.3	4788.7	5135.9	5483.2	5917.0	6349.8	6801.3
15°	3290.1	3525.8	3753.1	3980.5	4229.7	4477.9	4815.8	5153.7	5628.2	6102.6	6622.0
17.5°	2748.9	2997.1	3274.5	3550.8	3876.2	4200.5	4633.3	5066.1	5628.2	6189.2	6801.3
20°	2184.7	2438.1	2769.8	3101.4	3506.0	3909.6	4470.6	5031.7	5788.8	6544.8	7325.9
22.5°	1723.8	1947.0	2308.8	2669.6	3136.8	3604.0	4323.6	5042.1	6031.7	7020.3	8074.6
25°	1397.4	1554.9	1910.5	2265.0	2804.2	3343.3	4233.9	5123.4	6385.2	7646.0	8953.7
27.5°	1197.2	1300.4	1632.0	1962.6	2551.8	3140.0	4197.4	5253.8	6833.7	8413.6	9910.0
30°	1097.1	1169.0	1449.5	1729.0	2327.6	2926.2	4153.6	5381.0	7265.4	9148.7	10657.7
32.5°	1013.6	1071.0	1310.8	1549.6	2133.6	2717.6	4069.1	5419.6	7566.8	9714.0	11290.7
35°	942.7	990.7	1199.3	1407.8	1981.4	2554.9	3927.3	5299.7	7755.5	10211.4	11949.8
37.5°	885.4	922.9	1115.8	1308.8	1850.0	2391.2	3765.7	5140.1	7923.4	10706.7	12691.2
40°	840.5	872.8	1053.3	1233.7	1724.8	2216.0	3627.0	5036.9	8154.9	11273.0	13474.4
42.5°	815.5	857.2	999.0	1139.8	1606.0	2072.1	3515.4	4958.7	8369.8	11779.8	14159.5
45°	809.2	868.7	970.9	1073.1	1517.3	1961.6	3416.3	4870.0	8508.5	12146.9	14675.8
47.5°	798.8	847.8	949.0	1050.1	1473.5	1895.9	3363.1	4829.3	8647.1	12463.9	15104.4
50°	805.1	811.3	931.2	1050.1	1467.3	1884.4	3423.6	4962.8	8947.5	12931.1	15594.5
52.5°	793.6	766.5	897.9	1029.3	1466.2	1903.2	3597.8	5292.4	9505.4	13717.4	16125.3
55°	733.1	697.7	835.3	973.0	1444.3	1914.6	3805.3	5694.9	10254.2	14812.4	17079.5
57.5°	679.9	647.6	764.4	880.1	1377.6	1875.0	4019.1	6162.1	11045.7	15928.2	18154.6
60°	609.0	601.7	685.1	768.6	1274.3	1779.1	4195.3	6610.5	11577.5	16543.5	18568.6
62.5°	550.6	554.8	616.3	677.8	1145.0	1611.2	4253.7	6895.2	11562.9	16230.6	18151.5
65°	505.8	513.1	573.6	634.0	1034.5	1434.9	4061.8	6687.7	10977.9	15267.0	17326.6
67.5°	462.0	470.3	542.3	613.2	936.5	1258.7	3582.1	5904.5	9925.7	13945.8	16277.5
70°	420.3	430.7	508.9	587.1	865.5	1142.9	2963.7	4784.5	8608.6	12431.6	15062.6
72.5°	375.4	385.8	469.3	552.7	820.7	1087.7	2416.2	3743.8	6985.9	10227.0	12884.2
75°	329.5	336.8	427.6	517.2	759.2	1001.1	1895.9	2789.6	5346.6	7903.6	9731.7
77.5°	283.6	293.0	369.2	444.2	644.5	843.6	1428.7	2013.7	3923.1	5831.5	6768.0
80°	226.3	234.6	288.9	342.0	497.4	651.8	982.3	1312.9	2699.9	4086.9	4614.5
82.5°	173.1	182.5	219.0	254.5	354.6	454.7	595.5	736.2	1793.7	2850.1	2893.9
85°	118.9	122.0	148.1	173.1	219.0	264.9	341.0	417.1	1186.7	1956.3	1629.9
87.5°	59.4	59.4	77.2	94.9	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	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: P320792
 CATALOG NUMBER: GLEON-SA8A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P320792

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

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	7946.4	7946.4	7946.4	7946.4	7946.4	7946.4	7946.4	7946.4	7946.4	7946.4	7946.4
2.5°	8581.5	8657.6	8734.7	8793.1	8852.6	8938.1	9023.6	9039.3	9055.9	9022.6	8989.2
5°	8692.0	8922.5	9154.0	9367.7	9581.5	9709.8	9838.1	9864.1	9890.2	9809.9	9728.6
7.5°	8282.2	8683.6	9085.1	9453.3	9821.4	10044.5	10268.7	10318.8	10369.9	10238.5	10107.1
10°	7734.7	8227.9	8721.2	9206.1	9691.0	10015.3	10339.7	10404.3	10469.0	10305.2	10141.5
12.5°	7311.3	7837.9	8364.5	8875.5	9387.6	9723.3	10059.1	10139.4	10219.7	10100.9	9980.9
15°	7180.9	7676.3	8171.6	8616.9	9063.2	9337.5	9612.8	9645.1	9678.5	9659.7	9641.0
17.5°	7417.7	7865.0	8313.4	8555.4	8798.4	8907.9	9018.4	9053.9	9090.4	9137.3	9185.2
20°	7991.2	8306.1	8622.1	8611.7	8600.2	8547.0	8492.8	8483.4	8474.0	8608.6	8744.1
22.5°	8847.4	8972.5	9098.7	8805.7	8512.6	8334.3	8154.9	8119.5	8083.0	8225.8	8369.8
25°	9776.5	9753.6	9729.6	9171.7	8612.7	8272.8	7932.8	7893.2	7853.6	7975.6	8098.6
27.5°	10696.3	10546.1	10396.0	9637.8	8879.7	8386.4	7893.2	7853.6	7813.9	7922.4	8030.8
30°	11371.0	11130.1	10889.2	10031.0	9172.7	8586.7	8000.6	7935.9	7870.2	8003.7	8137.2
32.5°	11897.7	11574.4	11251.1	10350.1	9449.1	8815.0	8181.0	8079.8	7978.7	8157.0	8335.3
35°	12423.2	11968.6	11512.8	10634.8	9755.7	9085.1	8413.6	8289.5	8165.4	8410.4	8655.5
37.5°	13084.4	12431.6	11777.7	10954.9	10132.1	9489.8	8846.3	8719.1	8591.9	8903.7	9216.5
40°	13801.9	12931.1	12060.3	11305.3	10550.3	10049.8	9548.2	9427.2	9305.2	9684.8	10064.4
42.5°	14398.4	13396.2	12394.0	11727.7	11060.3	10707.8	10354.3	10353.2	10351.1	10735.9	11120.7
45°	14883.3	13784.1	12683.9	12139.6	11594.2	11410.6	11227.1	11374.1	11521.2	11868.5	12216.8
47.5°	15245.1	14109.5	12972.8	12610.9	12249.1	12276.2	12303.3	12602.6	12901.9	13125.1	13349.3
50°	15480.8	14404.6	13327.4	13215.8	13104.2	13347.2	13591.2	13934.3	14278.4	14430.7	14582.9
52.5°	15823.9	14805.1	13785.2	13910.3	14035.5	14531.8	15028.2	15375.5	15722.8	15779.1	15836.4
55°	16617.5	15541.3	14464.1	14703.9	14944.8	15672.7	16401.6	16672.8	16943.9	16964.8	16985.6
57.5°	17744.8	16572.7	15400.5	15659.1	15917.8	16758.3	17599.8	17891.8	18184.9	18144.2	18102.5
60°	18588.4	17551.9	16514.3	16775.0	17035.7	17855.3	18675.0	19010.8	19347.6	19257.9	19168.3
62.5°	18640.6	18086.8	17532.1	17767.7	18004.5	18807.4	19610.4	19955.6	20300.8	20144.4	19987.9
65°	17811.5	18059.7	18307.9	18386.1	18464.4	19213.1	19962.9	20226.7	20491.6	20412.4	20333.1
67.5°	16669.6	17584.2	18499.8	18342.3	18184.9	18536.3	18887.7	19159.9	19432.1	19387.3	19341.4
70°	15529.8	16751.0	17972.1	17198.4	16423.5	16278.6	16133.6	16426.7	16720.7	16539.3	16356.8
72.5°	13589.1	14890.6	16193.1	14767.5	13342.0	12846.6	12351.3	12723.6	13095.9	12807.0	12517.1
75°	10667.1	12105.2	13544.3	11843.4	10142.6	9481.4	8820.3	9140.4	9460.6	9262.4	9063.2
77.5°	7941.2	9358.4	10775.6	9046.6	7316.5	6825.3	6333.1	6428.0	6523.9	6490.6	6456.2
80°	5386.2	6373.8	7362.4	6211.1	5059.8	5097.4	5135.9	5091.1	5045.2	5112.0	5178.7
82.5°	3437.2	4199.5	4962.8	4351.7	3740.6	4091.0	4441.4	4269.3	4096.2	4159.8	4224.5
85°	1961.6	2707.2	3453.9	3219.2	2983.5	3187.9	3393.4	3126.4	2859.4	2976.2	3094.1
87.5°	517.2	1497.5	2478.8	2250.4	2022.0	1757.2	1492.3	1138.8	785.3	1147.1	1509.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320792
 CATALOG NUMBER: GLEON-SA8A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P320792

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

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	7946.4	7946.4	7946.4	7946.4	7946.4	7946.4	7946.4
2.5°	8971.5	8953.7	8890.1	8825.5	8729.5	8650.3	8512.6
5°	9615.9	9503.3	9309.3	9114.3	8897.4	8648.2	8371.8
7.5°	9844.3	9580.5	9208.2	8834.9	8499.1	8104.9	7737.8
10°	9747.3	9352.1	8868.2	8383.3	7975.6	7521.9	7114.2
12.5°	9561.7	9141.5	8608.6	8074.6	7610.6	7123.6	6666.8
15°	9306.2	8970.4	8470.9	7971.4	7504.2	7030.8	6489.5
17.5°	9026.7	8867.2	8506.4	8144.5	7739.9	7281.0	6646.0
20°	8801.5	8859.9	8716.0	8572.1	8247.7	7847.3	7134.0
22.5°	8649.2	8929.8	9040.3	9151.9	8956.9	8644.0	7819.1
25°	8563.7	9028.8	9399.0	9770.3	9683.7	9442.8	8651.3
27.5°	8601.3	9171.7	9746.3	10321.9	10402.2	10335.5	9528.3
30°	8713.9	9291.6	9991.4	10692.1	11012.3	11102.0	10259.4
32.5°	8901.6	9467.9	10230.2	10993.5	11477.4	11763.1	10927.8
35°	9185.2	9715.0	10509.6	11304.3	11930.0	12451.4	11618.2
37.5°	9672.3	10128.0	10861.1	11595.2	12406.6	13189.7	12378.4
40°	10385.5	10707.8	11327.2	11947.7	12968.6	14026.1	13226.2
42.5°	11285.5	11451.3	11942.5	12433.7	13555.8	14785.2	14055.3
45°	12260.6	12304.4	12613.0	12922.8	14020.9	15302.5	14677.8
47.5°	13199.1	13048.9	13172.0	13295.0	14377.5	15671.7	15150.2
50°	14164.8	13746.6	13681.9	13617.3	14734.1	16106.5	15750.9
52.5°	15147.1	14457.8	14202.3	13945.8	15159.6	16683.2	16498.6
55°	16108.6	15231.6	14887.4	14543.3	15810.3	17387.1	17596.7
57.5°	17108.7	16114.9	15795.8	15476.6	16766.6	18278.7	18582.2
60°	18184.9	17200.4	16944.9	16688.4	17955.5	19242.3	19021.2
62.5°	19205.8	18423.7	18289.2	18153.6	19157.8	19982.7	18850.2
65°	19887.8	19441.5	19566.6	19692.8	20067.2	20167.3	18349.6
67.5°	19432.1	19522.8	20051.5	20581.3	20323.7	19618.8	17363.1
70°	16900.1	17444.5	18696.9	19950.4	19378.9	18149.4	15592.4
72.5°	13128.2	13740.3	15599.7	17460.1	16933.5	15427.6	12807.0
75°	9753.6	10445.0	12497.3	14549.6	13818.5	11540.0	9169.6
77.5°	6919.2	7382.2	9408.4	11435.7	10243.7	7681.5	6170.4
80°	5036.9	4895.0	6024.4	7153.8	6955.7	5080.7	3962.8
82.5°	3878.3	3532.1	4063.9	4595.8	4566.6	3525.8	2907.4
85°	2955.4	2816.7	3287.0	3757.3	3354.8	2388.1	1847.9
87.5°	1722.8	1937.6	2491.3	3046.1	2285.9	724.8	358.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320792
 CATALOG NUMBER: GLEON-SA8A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

Luminaire Tested: GALN-SB1A-830-U-5WQ

Data in this report applies to families of products including GALN-SB1A-830-U-5WQ.

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2408-195-9
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/07/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: MCGRAW EDISON
 Catalog Number: **GALN-SB1A-830-U-5WQ**
 Description: GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K): 3050
 CIE u' : 0.2476
 CIE v' : 0.5251
 Duv: 0.0034
 CIE x: 0.4383
 CIE y: 0.4131
 CIE z: 0.1487
 Peak Wavelength (nm): 603
 Dominant Wavelength (nm): 581
 Purity: 55.55201
 R_f: 81.5
 R_g: 99.2

CRI (Ra): 81.0
 R1: 79.6
 R2: 85.6
 R3: 92.0
 R4: 82.6
 R5: 78.9
 R6: 81.7
 R7: 85.2
 R8: 62.0
 R9: 7.1
 R10: 67.0
 R11: 82.7
 R12: 63.2
 R13: 80.3
 R14: 95.0
 R15: 71.7



Test Conditions

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

REPORT NUMBER: SP1-2408-195-9

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

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CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

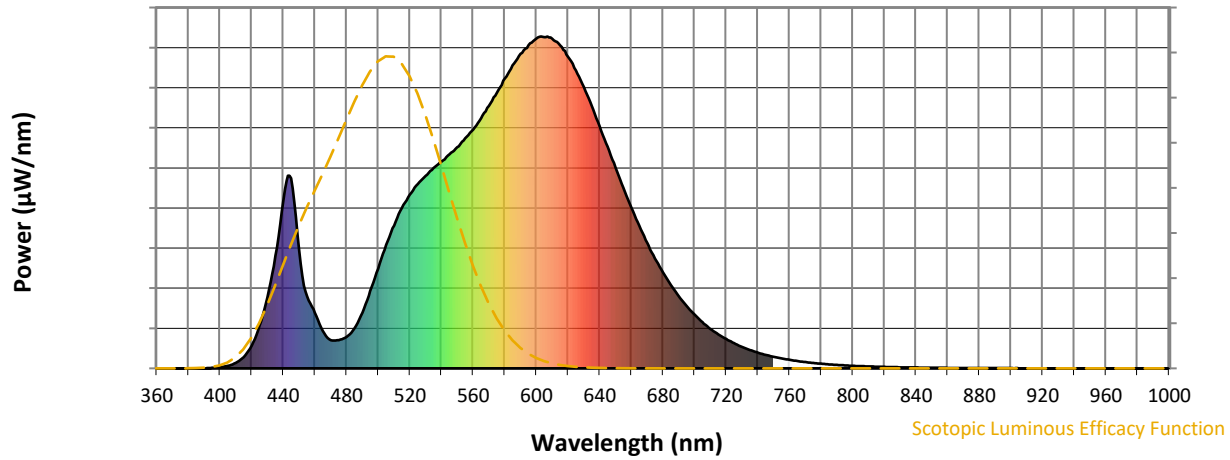


Photopic Lumens: NR

λ (nm)	Power 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			

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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			

REPORT NUMBER: SP1-2408-195-9

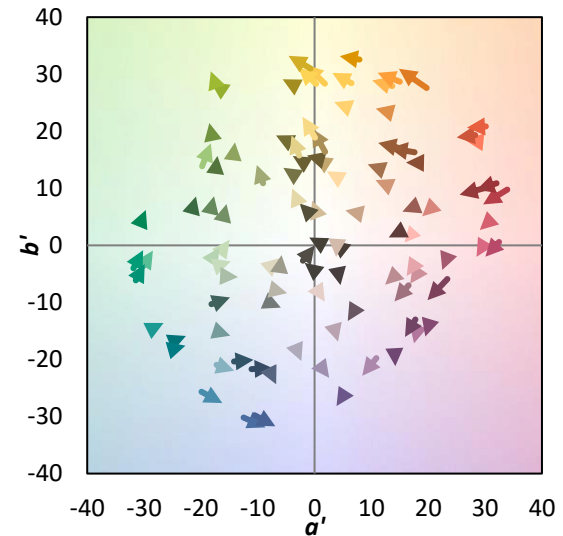
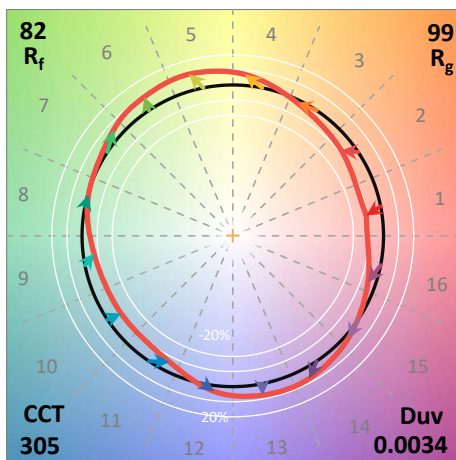
TM-30-18

Summary

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



Color Vector Graphics

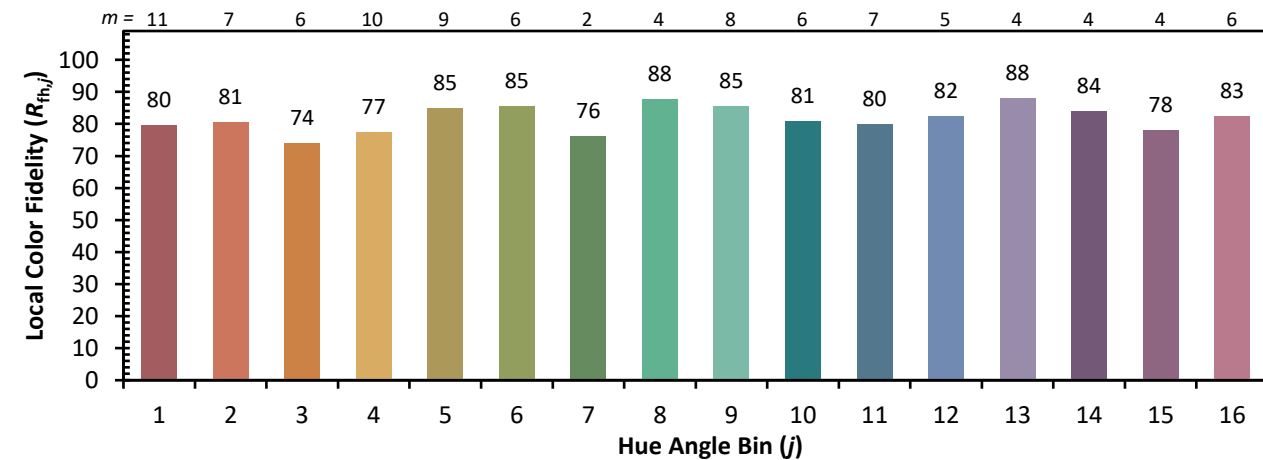


Individual Sample Fidelity Index ($R_{f,i}$)

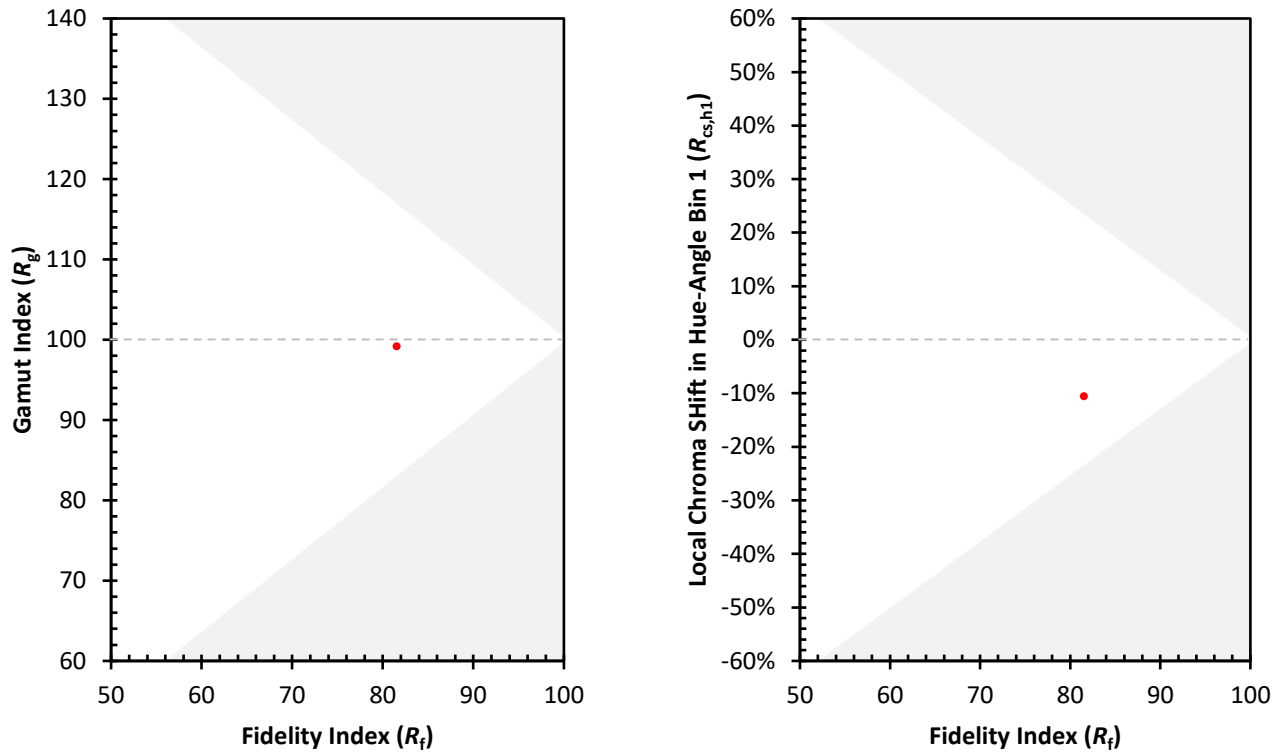
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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