

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: P320473

Luminaire Tested: **GLEON-SA9A-830-U-SLL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320473
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-SA9A-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 29094 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

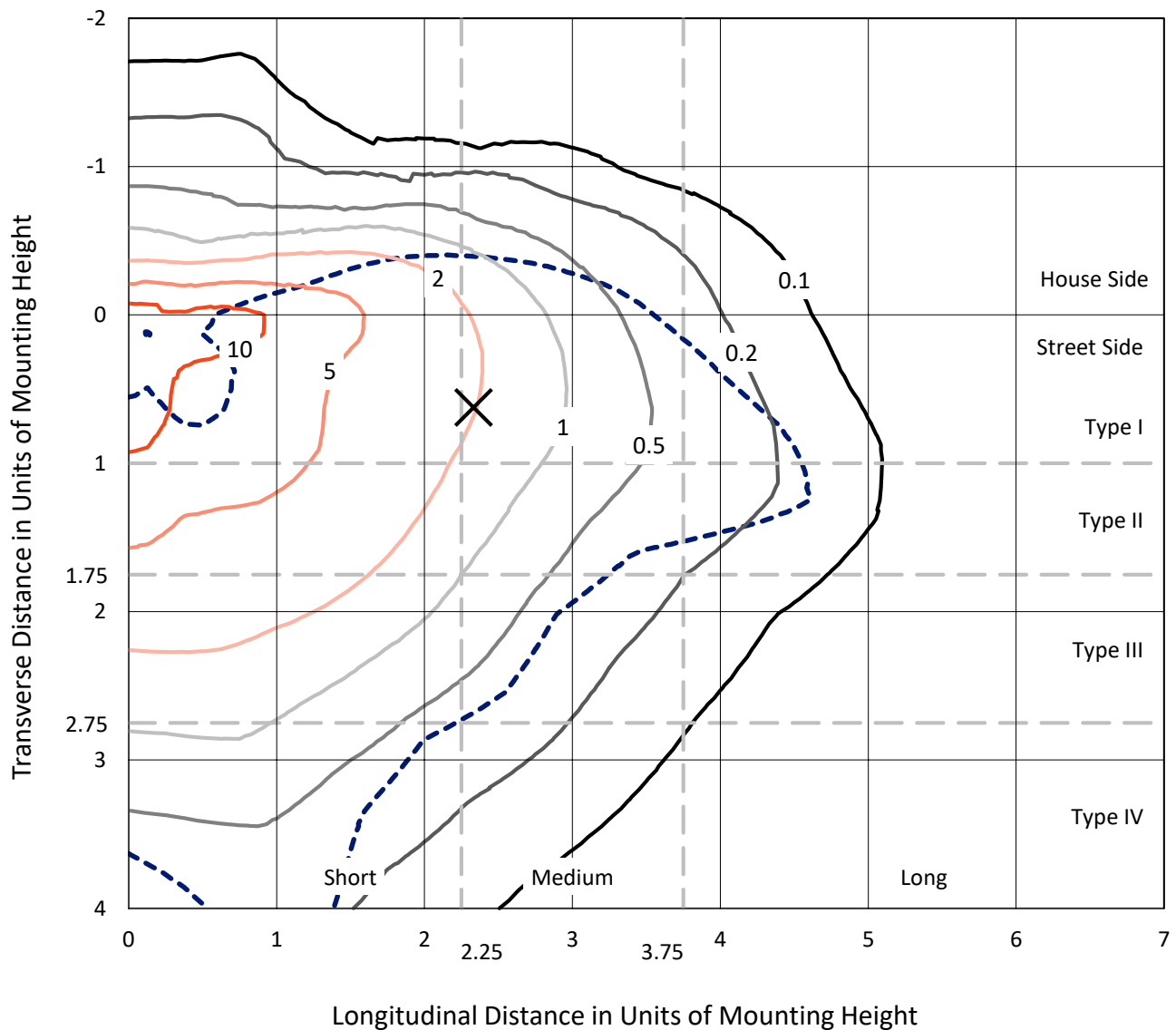
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

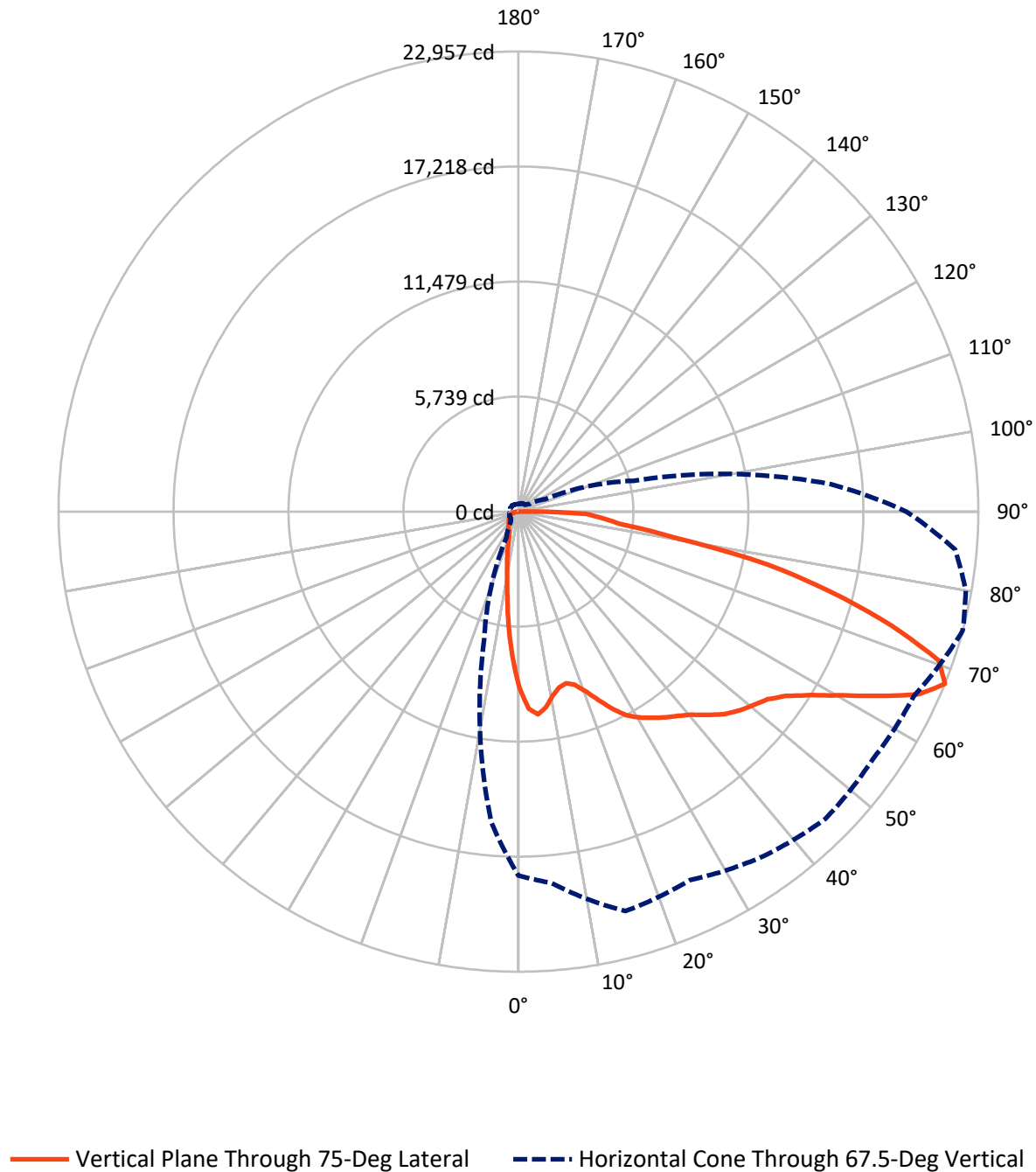
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.8 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	5124.2	0.0	5124.2
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	23969.8	0.0	23969.8
	% Fixture	82.4	0.0	82.4
Total	Lumens	29094.0	0.0	29094.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	684.1	2.4
10°-20°	1421.1	4.9
20°-30°	2021.1	6.9
30°-40°	2912.4	10.0
40°-50°	4104.4	14.1
50°-60°	5705.8	19.6
60°-70°	6900.1	23.7
70°-80°	4241.4	14.6
80°-90°	1103.7	3.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	29094.0	100.0
0°-180°	29094.0	100.0

Coefficient of Utilization



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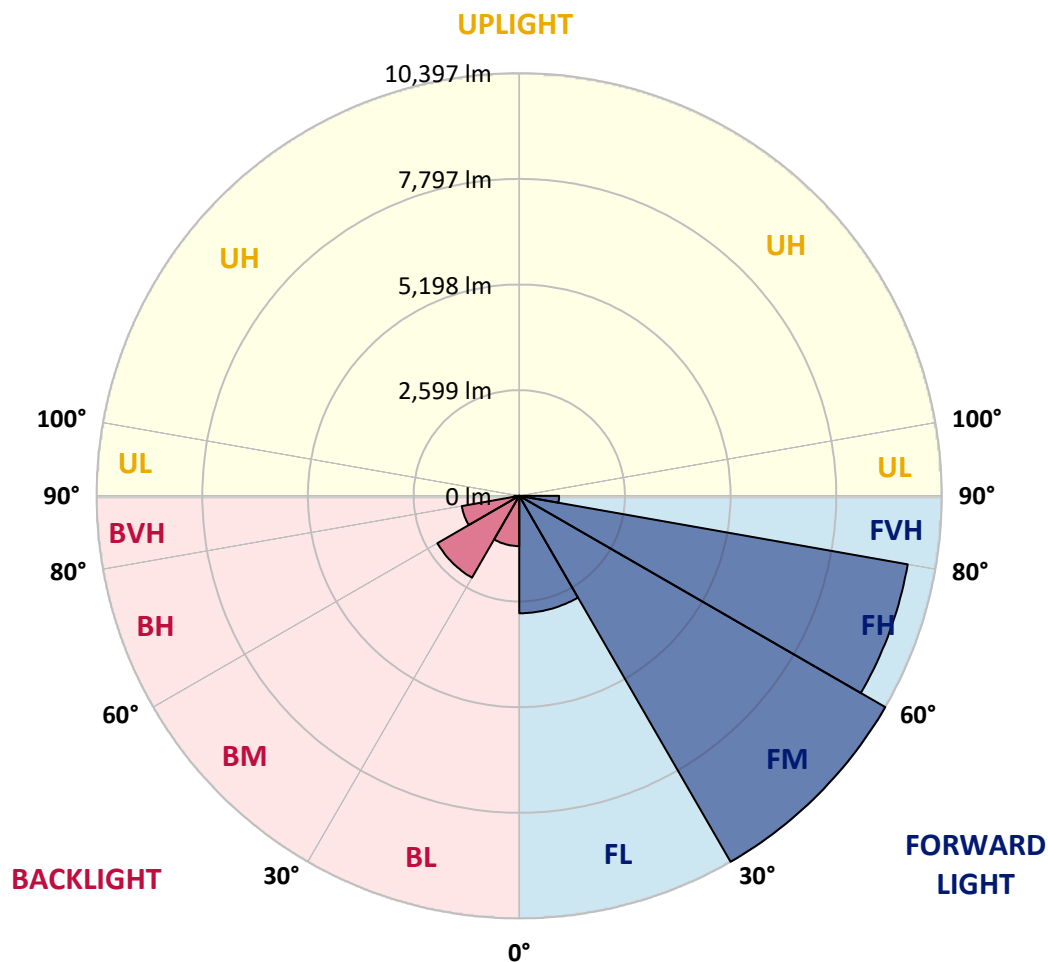
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2888.7	9.9			
FM	(30°-60°)	10396.7	35.7			
FH	(60°-80°)	9704.8	33.4			G4/12000
FVH	(80°-90°)	979.7	3.4			G5
BL	(0°-30°)	1237.5	4.3	B3/2500		
BM	(30°-60°)	2326.0	8.0	B2/2500		
BH	(60°-80°)	1436.6	4.9	B3/2500		G3/2500
BVH	(80°-90°)	124.0	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°	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6
2.5°	9447.6	9572.0	9658.1	9743.0	9809.3	9874.4	9969.8	10065.2	10083.8	10101.3	10064.1
5°	9391.7	9695.3	9953.5	10210.6	10449.1	10687.5	10830.6	10973.7	11002.8	11031.8	10942.3
7.5°	8790.3	9238.2	9686.0	10133.8	10544.5	10955.1	11205.2	11454.1	11511.1	11566.9	11420.3
10°	8106.4	8627.5	9177.7	9727.9	10268.8	10809.7	11171.4	11533.2	11605.3	11677.4	11494.8
12.5°	7586.4	8155.2	8742.7	9330.1	9901.2	10471.2	10845.7	11220.3	11309.8	11399.4	11266.8
15°	7386.4	8009.8	8562.4	9114.9	9612.7	10109.4	10416.5	10722.4	10759.6	10795.7	10774.8
17.5°	7586.4	8273.9	8774.1	9273.1	9544.1	9814.0	9937.3	10059.4	10100.1	10139.7	10193.2
20°	8171.5	8913.6	9266.1	9617.4	9605.7	9593.0	9533.6	9473.1	9462.7	9452.2	9603.4
22.5°	9006.7	9868.6	10009.4	10149.0	9822.1	9495.2	9296.3	9096.3	9056.7	9016.0	9176.5
25°	9987.3	10905.0	10879.5	10852.7	10230.4	9606.9	9227.7	8848.5	8804.3	8760.1	8897.4
27.5°	11053.9	11931.0	11763.5	11596.0	10750.3	9904.7	9354.5	8804.3	8760.1	8715.9	8836.9
30°	11888.0	12683.6	12414.9	12146.2	11188.9	10231.6	9577.8	8924.1	8852.0	8778.7	8927.6
32.5°	12594.0	13271.0	12910.4	12549.8	11544.8	10539.8	9832.6	9125.3	9012.5	8899.7	9098.6
35°	13329.2	13857.3	13350.1	12841.8	11862.4	10881.8	10133.8	9384.7	9246.3	9107.9	9381.2
37.5°	14156.2	14594.7	13866.6	13137.2	12219.5	11301.7	10585.2	9867.5	9725.6	9583.6	9932.6
40°	15029.8	15395.0	14423.7	13452.5	12610.3	11768.1	11209.8	10650.3	10515.4	10379.3	10802.7
42.5°	15794.0	16060.4	14942.5	13824.7	13081.4	12337.0	11943.8	11549.5	11548.3	11546.0	11975.2
45°	16369.8	16601.3	15375.2	14148.1	13540.9	12932.5	12727.8	12523.1	12687.1	12851.1	13239.6
47.5°	16847.9	17004.9	15738.2	14470.3	14066.6	13663.0	13693.3	13723.5	14057.3	14391.2	14641.3
50°	17394.6	17267.8	16067.4	14865.8	14741.3	14616.8	14889.0	15160.1	15543.9	15926.6	16096.4
52.5°	17986.6	17650.5	16514.0	15376.4	15516.0	15655.6	16209.3	16762.9	17150.3	17537.6	17601.6
55°	19051.0	18535.7	17335.2	16133.7	16402.4	16669.9	17483.0	18294.9	18597.3	18899.8	18923.0
57.5°	20250.2	19793.1	18485.7	17178.2	17466.7	17755.2	18693.9	19631.4	19958.3	20284.0	20238.6
60°	20712.0	20734.1	19577.9	18420.5	18711.3	19002.1	19916.4	20830.7	21206.4	21580.9	21480.9
62.5°	20246.7	20792.3	20174.6	19555.8	19819.9	20082.7	20978.4	21874.1	22259.1	22644.1	22469.6
65°	19326.7	19867.5	20144.4	20421.2	20508.5	20595.7	21432.1	22267.2	22562.7	22857.0	22768.6
67.5°	18156.5	18593.8	19615.1	20635.3	20459.6	20284.0	20676.0	21068.0	21371.6	21675.2	21625.1
70°	16801.3	17322.5	18684.6	20046.7	19183.6	18319.3	18157.6	17995.9	18324.0	18650.8	18448.4
72.5°	14371.4	15157.7	16610.6	18062.2	16472.1	14882.0	14329.5	13777.0	14192.3	14607.5	14285.3
75°	10855.0	11898.4	13503.6	15107.7	13210.5	11313.3	10575.9	9838.4	10195.5	10552.6	10331.6
77.5°	7549.2	8857.8	10438.6	12019.4	10090.8	8161.0	7613.2	7064.1	7171.2	7277.0	7239.8
80°	5147.2	6008.0	7110.7	8212.2	6928.1	5643.9	5686.9	5728.8	5678.8	5627.6	5702.0
82.5°	3227.9	3833.9	4685.4	5535.7	4854.1	4172.4	4563.3	4954.1	4762.2	4569.1	4641.2
85°	1818.1	2188.0	3020.8	3852.5	3590.8	3327.9	3557.1	3785.1	3487.3	3189.5	3321.0
87.5°	346.6	576.9	1671.5	2764.9	2510.2	2255.5	1960.0	1664.5	1270.2	875.9	1279.5
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



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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°	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6
2.5°	10026.8	10007.1	9987.3	9916.3	9844.2	9737.2	9648.8	9495.2	9411.5	9284.7	9157.9
5°	10851.5	10725.9	10600.3	10383.9	10166.4	9924.5	9646.5	9338.2	9105.6	8803.1	8500.7
7.5°	11273.8	10980.7	10686.4	10271.1	9854.7	9480.1	9040.4	8631.0	8282.0	7888.9	7495.7
10°	11312.2	10872.5	10431.6	9891.9	9351.0	8896.2	8390.2	7935.4	7516.6	7065.3	6612.8
12.5°	11133.0	10665.4	10196.7	9602.3	9006.7	8490.2	7945.9	7436.4	6972.3	6475.6	5977.7
15°	10753.8	10380.4	10005.9	9448.7	8891.5	8370.4	7842.3	7238.6	6714.0	6205.7	5696.2
17.5°	10245.5	10068.7	9890.7	9488.3	9084.6	8633.3	8121.5	7413.1	6798.9	6246.4	5693.9
20°	9753.5	9818.6	9882.6	9722.1	9561.5	9199.8	8753.1	7957.5	7173.5	6451.1	5727.6
22.5°	9335.9	9648.8	9960.5	10085.0	10208.3	9990.8	9641.8	8721.7	7684.1	6740.8	5797.4
25°	9033.5	9552.2	10071.0	10485.1	10898.1	10801.5	10532.8	9650.0	8361.1	7158.4	5954.4
27.5°	8957.8	9594.1	10230.4	10872.5	11513.4	11603.0	11528.5	10628.2	9168.4	7677.2	6184.8
30°	9076.5	9720.9	10364.2	11145.8	11926.3	12283.4	12383.5	11443.6	10090.8	8282.0	6472.1
32.5°	9297.5	9929.1	10560.7	11412.2	12262.5	12802.2	13121.0	12189.2	10734.1	8738.0	6740.8
35°	9654.6	10245.5	10836.4	11722.8	12609.1	13307.1	13888.7	12959.3	11305.2	9056.7	6807.1
37.5°	10280.4	10788.7	11297.0	12115.9	12933.7	13838.7	14712.2	13807.2	11922.9	9363.8	6803.6
40°	11226.1	11585.5	11943.8	12635.9	13326.8	14465.6	15645.1	14752.9	12605.7	9696.5	6787.3
42.5°	12404.4	12589.4	12773.2	13321.0	13868.9	15120.5	16491.9	15677.7	13257.0	10005.9	6754.7
45°	13626.9	13675.8	13724.7	14070.1	14414.4	15639.3	17068.9	16372.1	13825.9	10274.6	6722.2
47.5°	14890.2	14722.7	14555.2	14692.4	14829.7	16037.1	17480.6	16899.0	14397.0	10572.4	6746.6
50°	16266.3	15799.8	15333.4	15261.3	15189.1	16434.9	17965.7	17569.1	15083.3	11006.2	6929.2
52.5°	17664.4	16895.6	16126.7	15841.7	15555.5	16909.5	18609.0	18403.1	16062.7	11678.6	7293.3
55°	18946.3	17968.0	16989.8	16605.9	16222.1	17635.4	19394.1	19627.9	17317.8	12538.2	7757.4
57.5°	20192.1	19083.5	17975.0	17619.1	17263.1	18702.0	20388.7	20727.2	18585.7	13362.9	8138.9
60°	21380.9	20284.0	19185.9	18900.9	18614.8	20028.1	21463.5	21216.9	19239.4	13749.1	8257.6
62.5°	22295.2	21422.7	20550.3	20400.3	20249.1	21369.2	22289.3	21026.1	18824.1	13368.7	7913.3
65°	22680.2	22183.5	21685.6	21826.4	21966.0	22383.6	22495.2	20467.8	17519.0	12303.2	7087.4
67.5°	21574.0	21675.2	21776.4	22367.3	22957.0	22669.7	21883.4	19367.4	15661.4	10793.4	5925.4
70°	18244.9	18852.1	19458.1	20856.3	22253.3	21615.8	20244.4	17392.2	13425.7	9054.4	4681.9
72.5°	13962.0	14644.8	15326.4	17401.5	19475.5	18888.1	17208.5	14285.3	10764.3	7230.5	3695.5
75°	10109.4	10880.6	11650.7	13939.9	16229.0	15413.6	12872.0	10228.1	8176.2	5519.4	2861.5
77.5°	7201.4	7717.9	8234.3	10495.6	12755.7	11427.3	8568.2	6882.7	5659.0	3836.3	2012.3
80°	5776.5	5618.3	5460.1	6719.8	7979.6	7758.6	5667.1	4420.2	3916.5	2570.7	1224.9
82.5°	4712.1	4326.0	3939.8	4533.0	5126.2	5093.7	3932.8	3243.0	2915.0	1786.7	658.4
85°	3451.2	3296.5	3141.8	3666.4	4191.0	3743.2	2663.7	2061.2	2272.9	1315.6	358.3
87.5°	1683.2	1922.8	2161.2	2780.1	3397.7	2550.9	808.4	400.1	553.7	364.1	173.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320473
 CATALOG NUMBER: GLEON-SA9A-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: P320473

CATALOG NUMBER: GLEON-SA9A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6
2.5°	9063.7	8968.3	8860.1	8752.0	8628.7	8504.2	8430.9	8356.5	8276.2	8195.9	8105.2
5°	8300.6	8100.6	7873.7	7646.9	7422.4	7197.9	7076.9	6956.0	6828.0	6698.9	6587.2
7.5°	7204.9	6912.9	6598.9	6283.6	6004.5	5724.1	5550.8	5376.3	5218.1	5058.8	4925.0
10°	6240.6	5868.4	5553.1	5236.7	5026.2	4815.7	4656.3	4497.0	4343.4	4188.7	4041.0
12.5°	5605.5	5233.3	5033.2	4833.1	4658.6	4484.2	4300.4	4115.4	3904.9	3693.2	3538.5
15°	5357.7	5019.2	4797.1	4573.7	4339.9	4105.0	3879.3	3653.6	3404.7	3155.8	2980.1
17.5°	5250.7	4807.5	4497.0	4185.2	3877.0	3568.7	3307.0	3045.3	2773.1	2500.9	2322.9
20°	5137.9	4548.1	4131.7	3714.1	3318.6	2923.1	2626.5	2329.9	2086.8	1843.7	1707.6
22.5°	5035.5	4272.5	3750.2	3226.7	2759.1	2291.5	2000.7	1708.7	1559.9	1411.0	1356.3
25°	4993.6	4031.7	3389.6	2747.5	2254.3	1759.9	1552.9	1345.8	1288.8	1230.7	1202.8
27.5°	5000.6	3816.5	3086.0	2354.3	1910.0	1465.6	1323.7	1181.8	1146.9	1110.9	1093.4
30°	5027.4	3582.7	2799.8	2017.0	1650.6	1284.2	1192.3	1099.2	1062.0	1024.8	1002.7
32.5°	5057.6	3373.3	2578.8	1783.2	1484.2	1184.1	1108.5	1031.8	995.7	959.6	937.5
35°	5005.3	3202.3	2427.6	1652.9	1377.2	1100.4	1036.4	971.3	931.7	892.2	871.2
37.5°	4916.9	3030.1	2310.1	1588.9	1307.4	1024.8	978.3	930.6	889.9	848.0	828.2
40°	4836.6	2884.7	2222.9	1559.9	1269.1	977.1	937.5	898.0	856.1	813.1	789.8
42.5°	4771.5	2787.0	2136.8	1486.6	1234.2	980.6	924.7	867.8	827.0	786.3	760.7
45°	4722.6	2723.1	2069.3	1415.6	1201.6	987.6	916.6	845.7	804.9	763.1	732.8
47.5°	4718.0	2689.3	2021.7	1354.0	1139.9	924.7	895.7	866.6	807.3	746.8	711.9
50°	4781.9	2634.7	1965.8	1295.8	1080.6	865.4	905.0	943.4	842.2	739.8	695.6
52.5°	4915.7	2538.1	1877.4	1216.7	1008.5	799.1	860.8	921.3	834.0	745.6	688.6
55°	5077.4	2396.2	1743.6	1089.9	913.1	735.1	789.8	843.3	788.7	732.8	664.2
57.5°	5178.6	2217.1	1575.0	932.9	806.1	679.3	710.7	741.0	718.9	696.8	627.0
60°	5118.1	1978.6	1385.4	791.0	711.9	632.8	627.0	620.0	652.6	685.1	604.9
62.5°	4822.6	1732.0	1217.9	703.7	644.4	583.9	571.1	557.2	610.7	663.0	578.1
65°	4323.6	1559.9	1112.0	664.2	597.9	531.6	517.6	503.7	520.0	536.2	496.7
67.5°	3689.7	1454.0	1051.5	649.1	568.8	487.4	471.1	454.8	451.3	447.8	433.9
70°	3036.0	1388.9	1012.0	635.1	537.4	438.5	423.4	408.3	403.6	397.8	387.3
72.5°	2538.1	1380.7	1007.3	633.9	511.8	389.7	375.7	361.8	355.9	349.0	340.8
75°	2078.6	1295.8	956.2	616.5	476.9	336.2	323.4	310.6	305.9	300.1	293.1
77.5°	1542.4	1072.5	803.8	535.1	408.3	281.5	268.7	254.7	253.6	251.3	245.4
80°	1000.4	775.9	574.6	373.4	297.8	221.0	210.5	198.9	200.1	201.2	196.6
82.5°	556.0	452.5	351.3	250.1	203.6	157.0	152.4	146.6	150.1	152.4	146.6
85°	293.1	228.0	188.4	148.9	117.5	86.1	86.1	84.9	89.6	94.2	89.6
87.5°	126.8	80.3	68.6	55.8	31.4	5.8	7.0	7.0	9.3	11.6	10.5
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: P320473
 CATALOG NUMBER: GLEON-SA9A-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: P320473

CATALOG NUMBER: GLEON-SA9A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6
2.5°	8013.3	7928.4	7842.3	7748.1	7765.6	7693.4	7621.3	7576.0	7530.6	7516.6	7502.7
5°	6475.6	6379.0	6281.3	6194.1	6269.7	6218.5	6167.3	6160.3	6152.2	6152.2	6151.0
7.5°	4791.2	4687.7	4583.0	4510.9	4585.4	4576.0	4566.7	4616.8	4666.8	4707.5	4747.0
10°	3893.2	3767.6	3640.8	3533.8	3515.2	3461.7	3407.0	3418.7	3429.1	3473.3	3517.5
12.5°	3383.8	3233.7	3083.7	2958.0	2901.0	2812.6	2723.1	2667.2	2611.4	2617.2	2621.9
15°	2803.3	2657.9	2511.4	2403.2	2367.1	2298.5	2229.9	2160.1	2089.1	2060.0	2029.8
17.5°	2143.8	2027.5	1910.0	1837.9	1837.9	1818.1	1798.3	1763.4	1727.4	1698.3	1668.0
20°	1571.5	1509.8	1447.0	1416.8	1426.1	1427.3	1427.3	1444.7	1462.1	1452.8	1443.5
22.5°	1300.5	1278.4	1256.3	1243.5	1248.1	1249.3	1250.4	1266.7	1281.9	1293.5	1304.0
25°	1173.7	1159.7	1145.8	1141.1	1151.6	1152.7	1152.7	1163.2	1173.7	1185.3	1196.9
27.5°	1074.8	1069.0	1063.2	1055.0	1065.5	1065.5	1064.3	1076.0	1086.4	1096.9	1106.2
30°	980.6	982.9	984.1	981.7	988.7	993.4	996.9	1005.0	1012.0	1020.1	1028.3
32.5°	914.3	910.8	907.3	905.0	920.1	928.2	936.4	944.5	951.5	955.0	958.5
35°	850.3	842.2	834.0	828.2	842.2	852.6	863.1	878.2	892.2	894.5	896.8
37.5°	807.3	796.8	786.3	779.3	785.2	789.8	794.5	810.8	827.0	836.3	844.5
40°	766.6	756.1	745.6	739.8	743.3	744.5	745.6	753.8	760.7	778.2	794.5
42.5°	734.0	721.2	708.4	701.4	703.7	706.1	707.2	706.1	704.9	721.2	737.5
45°	701.4	687.5	673.5	665.4	666.5	666.5	666.5	664.2	660.7	668.8	677.0
47.5°	675.8	659.5	643.3	635.1	632.8	630.5	628.1	627.0	624.6	630.5	635.1
50°	650.2	632.8	614.2	604.9	599.1	596.7	594.4	593.2	590.9	596.7	601.4
52.5°	630.5	609.5	588.6	573.5	567.6	564.2	560.7	561.8	561.8	564.2	565.3
55°	595.6	576.9	557.2	546.7	536.2	533.9	531.6	535.1	537.4	537.4	537.4
57.5°	557.2	539.7	521.1	514.1	504.8	504.8	503.7	508.3	511.8	514.1	516.5
60°	523.4	503.7	483.9	478.1	474.6	473.4	472.3	478.1	482.7	487.4	492.0
62.5°	492.0	471.1	450.2	443.2	442.0	443.2	443.2	449.0	453.7	458.3	463.0
65°	457.1	436.2	414.1	407.1	409.4	412.9	416.4	421.1	424.6	429.2	433.9
67.5°	418.8	401.3	382.7	375.7	376.9	381.5	386.2	389.7	392.0	396.7	401.3
70°	376.9	361.8	346.6	342.0	340.8	346.6	351.3	353.6	355.9	361.8	366.4
72.5°	331.5	318.7	305.9	302.4	303.6	307.1	310.6	314.1	316.4	322.2	326.9
75°	285.0	273.4	261.7	259.4	261.7	265.2	268.7	271.0	273.4	280.3	286.1
77.5°	239.6	226.8	212.9	211.7	215.2	218.7	221.0	224.5	228.0	237.3	246.6
80°	191.9	178.0	162.8	161.7	165.2	168.7	172.2	175.6	179.1	190.8	201.2
82.5°	140.7	124.5	108.2	105.9	117.5	121.0	124.5	130.3	134.9	145.4	155.9
85°	84.9	68.6	52.3	51.2	61.6	67.5	73.3	80.3	86.1	95.4	104.7
87.5°	9.3	4.7	0.0	0.0	1.2	5.8	10.5	16.3	22.1	31.4	39.5
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: P320473
 CATALOG NUMBER: GLEON-SA9A-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: P320473

CATALOG NUMBER: GLEON-SA9A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6
2.5°	7451.5	7399.1	7452.7	7505.0	7527.1	7549.2	7492.2	7434.0	7524.8	7614.3	7637.6
5°	6104.5	6056.8	6092.9	6127.8	6049.8	5971.9	5963.8	5954.4	6021.9	6089.4	6099.8
7.5°	4731.9	4716.8	4750.5	4784.3	4685.4	4585.4	4536.5	4487.6	4503.9	4520.2	4517.9
10°	3528.0	3537.3	3579.2	3619.9	3543.1	3466.4	3432.6	3398.9	3436.1	3472.2	3505.9
12.5°	2642.8	2662.6	2706.8	2749.8	2718.4	2685.8	2689.3	2692.8	2735.9	2777.7	2815.0
15°	2053.1	2076.3	2107.7	2138.0	2139.1	2139.1	2169.4	2198.5	2195.0	2191.5	2217.1
17.5°	1699.4	1729.7	1733.2	1736.7	1737.8	1739.0	1736.7	1734.3	1716.9	1699.4	1719.2
20°	1455.2	1465.6	1474.9	1483.1	1472.6	1461.0	1431.9	1402.8	1391.2	1379.6	1398.2
22.5°	1323.7	1342.3	1333.0	1322.6	1301.6	1279.5	1257.4	1234.2	1233.0	1230.7	1241.1
25°	1213.2	1228.3	1212.1	1195.8	1180.7	1165.5	1150.4	1135.3	1134.1	1133.0	1137.6
27.5°	1121.3	1135.3	1120.2	1105.0	1092.2	1079.5	1067.8	1056.2	1053.9	1051.5	1052.7
30°	1042.2	1055.0	1042.2	1028.3	1019.0	1008.5	1000.4	992.2	991.1	989.9	989.9
32.5°	971.3	984.1	974.8	965.5	957.3	949.2	943.4	937.5	931.7	925.9	913.1
35°	909.6	922.4	916.6	909.6	900.3	891.0	880.5	868.9	853.8	837.5	830.5
37.5°	857.3	870.1	864.3	858.4	845.7	832.9	814.2	794.5	789.8	784.0	782.8
40°	815.4	835.2	823.5	810.8	791.0	771.2	761.9	752.6	750.3	747.9	745.6
42.5°	768.9	799.1	778.2	757.2	738.6	720.0	717.7	715.4	714.2	713.0	713.0
45°	710.7	743.3	722.4	700.2	689.8	679.3	679.3	679.3	680.5	680.5	682.8
47.5°	656.0	675.8	665.4	654.9	649.1	643.3	644.4	645.6	649.1	651.4	657.2
50°	609.5	616.5	618.8	620.0	616.5	613.0	615.3	616.5	620.0	622.3	627.0
52.5°	575.8	586.3	586.3	585.1	585.1	585.1	587.4	589.7	593.2	596.7	601.4
55°	553.7	568.8	564.2	559.5	560.7	560.7	563.0	565.3	568.8	571.1	578.1
57.5°	532.7	549.0	544.4	539.7	539.7	539.7	540.9	542.1	545.5	547.9	552.5
60°	508.3	524.6	520.0	514.1	515.3	516.5	517.6	517.6	520.0	521.1	521.1
62.5°	479.2	495.5	490.9	485.1	488.5	490.9	490.9	490.9	493.2	494.4	490.9
65°	449.0	464.1	459.5	454.8	459.5	463.0	465.3	466.4	465.3	464.1	460.6
67.5°	416.4	431.5	426.9	421.1	426.9	431.5	436.2	439.7	436.2	432.7	428.1
70°	381.5	396.7	390.8	385.0	390.8	396.7	401.3	406.0	401.3	396.7	395.5
72.5°	344.3	361.8	354.8	347.8	354.8	361.8	364.1	366.4	362.9	359.4	357.1
75°	303.6	321.0	315.2	308.2	314.1	319.9	321.0	322.2	322.2	321.0	314.1
77.5°	260.6	274.5	271.0	267.5	271.0	274.5	274.5	274.5	275.7	275.7	266.4
80°	209.4	217.5	218.7	219.8	221.0	222.2	221.0	219.8	217.5	215.2	209.4
82.5°	155.9	155.9	165.2	173.3	173.3	172.2	171.0	168.7	164.0	158.2	145.4
85°	98.9	93.1	108.2	122.1	122.1	121.0	118.6	115.2	105.9	95.4	84.9
87.5°	33.7	27.9	43.0	58.2	59.3	59.3	57.0	54.7	45.4	34.9	26.8
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: P320473
 CATALOG NUMBER: GLEON-SA9A-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: P320473

CATALOG NUMBER: GLEON-SA9A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6
2.5°	7672.5	7687.6	7701.6	7815.6	7928.4	8061.0	8193.6	8294.8	8394.9	8498.4	8601.9
5°	6135.9	6154.5	6173.1	6311.6	6448.8	6633.8	6818.7	6978.1	7137.4	7324.7	7512.0
7.5°	4548.1	4588.8	4628.4	4776.1	4922.7	5121.6	5319.3	5527.6	5734.6	5978.9	6223.1
10°	3572.2	3649.0	3724.6	3875.8	4027.0	4223.6	4419.0	4636.5	4854.1	5094.8	5334.5
12.5°	2891.7	2994.1	3095.3	3276.7	3458.2	3693.2	3927.0	4168.9	4409.7	4621.4	4833.1
15°	2284.5	2396.2	2506.7	2698.6	2890.6	3148.8	3405.9	3669.9	3932.8	4186.4	4440.0
17.5°	1782.0	1873.9	1964.7	2127.5	2289.2	2539.3	2789.4	3066.2	3343.1	3652.5	3960.7
20°	1437.7	1476.1	1514.5	1632.0	1748.3	1951.9	2154.3	2436.9	2719.6	3089.5	3459.4
22.5°	1259.8	1279.5	1298.1	1355.1	1411.0	1542.4	1672.7	1922.8	2171.7	2575.3	2977.8
25°	1152.7	1167.9	1183.0	1220.2	1257.4	1320.2	1383.1	1558.7	1734.3	2131.0	2526.5
27.5°	1056.2	1079.5	1101.6	1119.0	1135.3	1178.3	1220.2	1335.4	1450.5	1820.4	2189.2
30°	986.4	994.5	1002.7	1029.4	1055.0	1099.2	1143.4	1223.7	1304.0	1616.9	1928.6
32.5°	905.0	916.6	928.2	956.2	984.1	1024.8	1065.5	1130.6	1194.6	1462.1	1728.5
35°	831.7	843.3	855.0	882.9	909.6	953.8	996.9	1051.5	1105.0	1337.7	1570.3
37.5°	786.3	798.0	809.6	834.0	857.3	901.5	944.5	987.6	1029.4	1244.6	1459.8
40°	747.9	759.6	771.2	794.5	816.6	859.6	901.5	937.5	973.6	1174.8	1376.1
42.5°	714.2	727.0	739.8	763.1	785.2	823.5	861.9	909.6	956.2	1114.4	1271.4
45°	686.3	699.1	710.7	736.3	761.9	799.1	836.3	902.6	968.9	1082.9	1196.9
47.5°	660.7	674.7	687.5	715.4	743.3	789.8	835.2	891.0	945.7	1058.5	1171.3
50°	636.3	652.6	668.8	702.6	735.1	813.1	889.9	898.0	905.0	1038.7	1171.3
52.5°	613.0	631.6	650.2	692.1	732.8	823.5	914.3	885.2	855.0	1001.5	1148.1
55°	589.7	606.0	621.2	672.3	723.5	789.8	856.1	817.7	778.2	931.7	1085.3
57.5°	558.3	575.8	592.1	646.7	701.4	747.9	793.3	758.4	722.4	852.6	981.7
60°	525.8	545.5	565.3	635.1	703.7	695.6	686.3	679.3	671.2	764.2	857.3
62.5°	496.7	517.6	538.6	629.3	720.0	664.2	608.4	614.2	618.8	687.5	756.1
65°	467.6	488.5	508.3	553.7	599.1	576.9	554.8	564.2	572.3	639.8	707.2
67.5°	435.0	453.7	471.1	486.2	501.3	503.7	506.0	515.3	524.6	604.9	684.0
70°	399.0	414.1	429.2	439.7	449.0	453.7	457.1	468.8	480.4	567.6	654.9
72.5°	358.3	371.1	382.7	392.0	401.3	404.8	407.1	418.8	430.4	523.4	616.5
75°	314.1	324.5	333.8	342.0	350.1	354.8	359.4	367.6	375.7	476.9	576.9
77.5°	265.2	275.7	285.0	292.0	297.8	302.4	305.9	316.4	326.9	411.8	495.5
80°	207.1	219.8	231.5	237.3	241.9	243.1	243.1	252.4	261.7	322.2	381.5
82.5°	146.6	160.5	173.3	178.0	182.6	182.6	182.6	193.1	203.6	244.3	283.8
85°	86.1	101.2	115.2	119.8	124.5	126.8	128.0	132.6	136.1	165.2	193.1
87.5°	26.8	39.5	51.2	53.5	55.8	60.5	65.1	66.3	66.3	86.1	105.9
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: P320473
 CATALOG NUMBER: GLEON-SA9A-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: P320473

CATALOG NUMBER: GLEON-SA9A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6	8863.6
2.5°	8720.5	8839.2	8977.6	9114.9	9232.4	9349.8	9447.6
5°	7750.4	7988.9	8280.9	8571.7	8831.1	9090.4	9391.7
7.5°	6531.4	6839.6	7217.7	7595.7	7962.1	8327.4	8790.3
10°	5648.5	5961.4	6361.6	6760.5	7172.3	7582.9	8106.4
12.5°	5087.9	5341.4	5728.8	6116.1	6600.0	7082.8	7586.4
15°	4718.0	4994.8	5371.7	5748.6	6277.8	6807.1	7386.4
17.5°	4323.6	4685.4	5168.1	5650.9	6277.8	6903.6	7586.4
20°	3910.7	4360.9	4986.7	5612.5	6457.0	7300.3	8171.5
22.5°	3498.9	4020.0	4822.6	5624.1	6728.0	7830.7	9006.7
25°	3127.9	3729.2	4722.6	5714.8	7122.3	8528.6	9987.3
27.5°	2846.4	3502.4	4681.9	5860.2	7622.5	9384.7	11053.9
30°	2596.3	3264.0	4633.0	6002.1	8104.1	10204.8	11888.0
32.5°	2379.9	3031.3	4538.8	6045.2	8440.2	10835.3	12594.0
35°	2210.1	2849.9	4380.6	5911.4	8650.8	11390.1	13329.2
37.5°	2063.5	2667.2	4200.3	5733.4	8838.0	11942.6	14156.2
40°	1923.9	2471.8	4045.6	5618.3	9096.3	12574.2	15029.8
42.5°	1791.3	2311.3	3921.2	5531.0	9335.9	13139.6	15794.0
45°	1692.5	2188.0	3810.7	5432.2	9490.6	13549.0	16369.8
47.5°	1643.6	2114.7	3751.3	5386.8	9645.3	13902.6	16847.9
50°	1636.6	2101.9	3818.8	5535.7	9980.3	14423.7	17394.6
52.5°	1635.5	2122.8	4013.1	5903.3	10602.6	15300.8	17986.6
55°	1611.0	2135.6	4244.5	6352.3	11437.8	16522.2	19051.0
57.5°	1536.6	2091.4	4483.0	6873.4	12320.7	17766.8	20250.2
60°	1421.4	1984.4	4679.6	7373.6	12913.9	18453.1	20712.0
62.5°	1277.2	1797.2	4744.7	7691.1	12897.6	18104.1	20246.7
65°	1153.9	1600.6	4530.7	7459.6	12245.1	17029.3	19326.7
67.5°	1044.6	1404.0	3995.6	6586.1	11071.4	15555.5	18156.5
70°	965.5	1274.9	3305.8	5336.8	9602.3	13866.6	16801.3
72.5°	915.4	1213.2	2695.1	4175.9	7792.3	11407.6	14371.4
75°	846.8	1116.7	2114.7	3111.6	5963.8	8815.9	10855.0
77.5°	718.9	941.0	1593.6	2246.1	4376.0	6504.6	7549.2
80°	554.8	727.0	1095.7	1464.5	3011.5	4558.6	5147.2
82.5°	395.5	507.2	664.2	821.2	2000.7	3179.0	3227.9
85°	244.3	295.5	380.4	465.3	1323.7	2182.2	1818.1
87.5°	131.4	157.0	201.2	244.3	423.4	602.5	346.6
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: P320473
 CATALOG NUMBER: GLEON-SA9A-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

REPORT NUMBER: SP1-2408-195-9

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength



Photopic Lumens: NR

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

REPORT NUMBER: SP1-2408-195-9

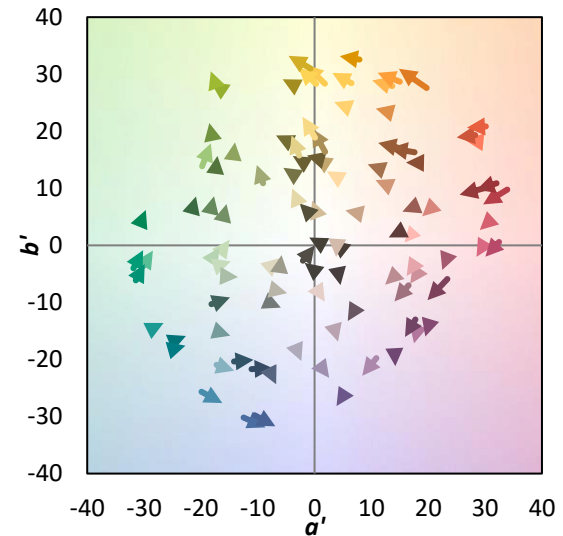
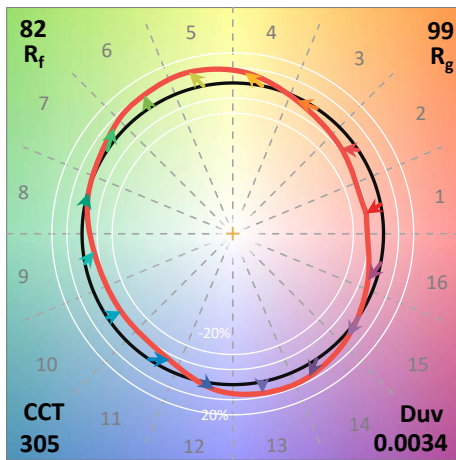
TM-30-18

Summary

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



Color Vector Graphics

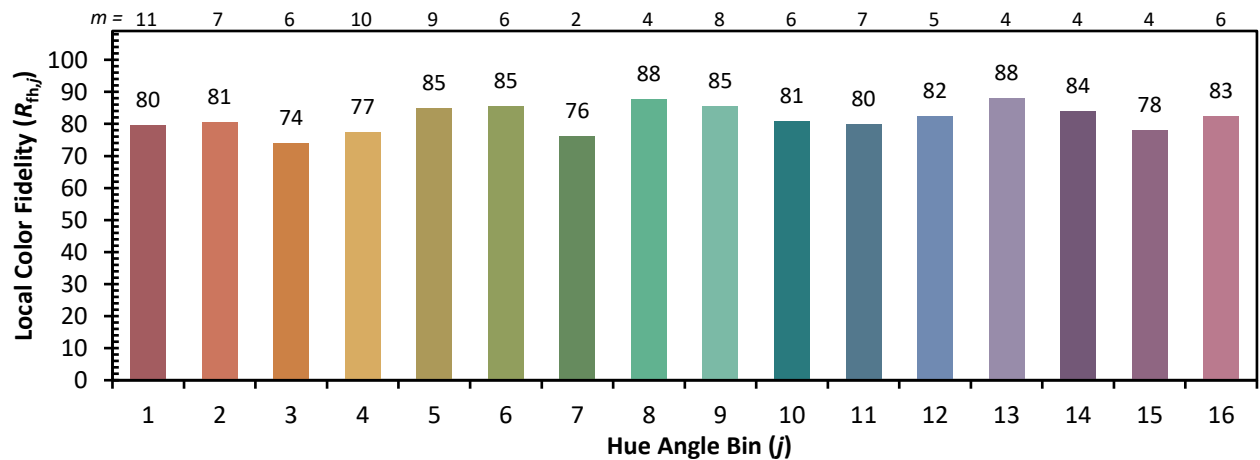


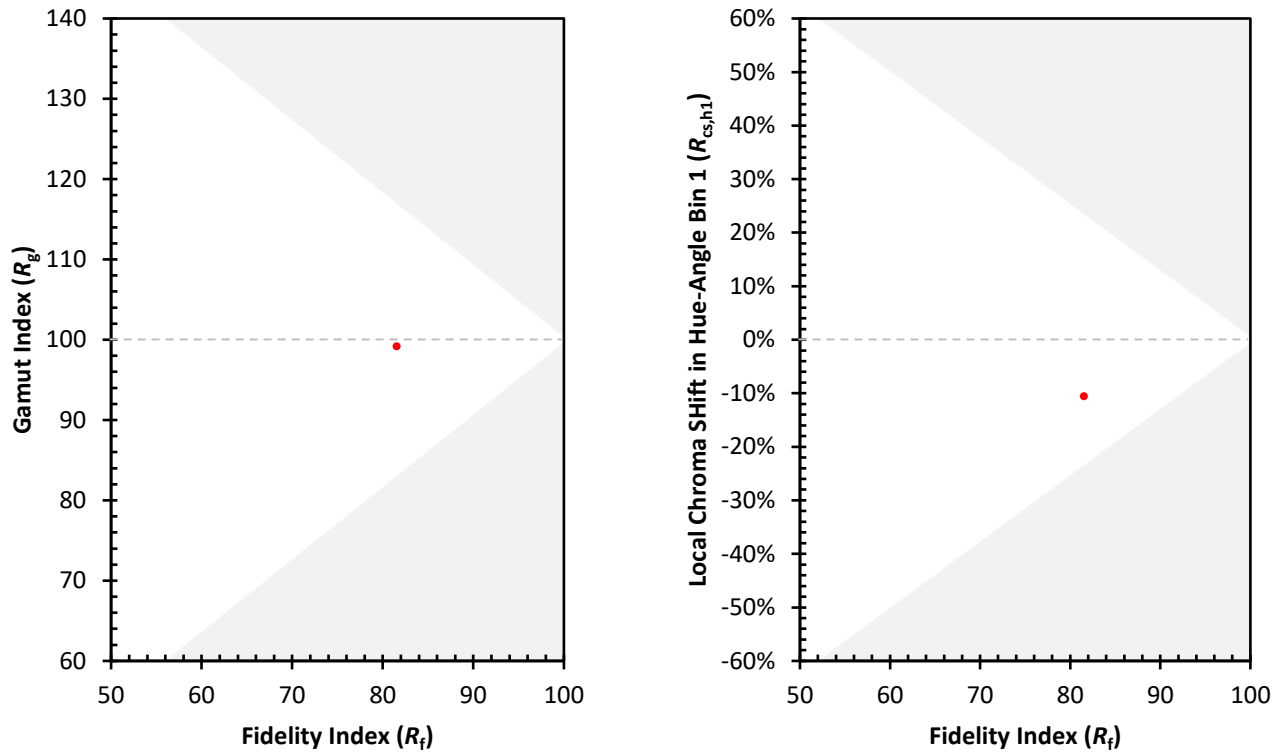
Individual Sample Fidelity Index ($R_{f,i}$)

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)