

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: P320482

Luminaire Tested: **GLEON-SA8B-830-U-SLL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320482
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-SA8B-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA 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: 31984 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

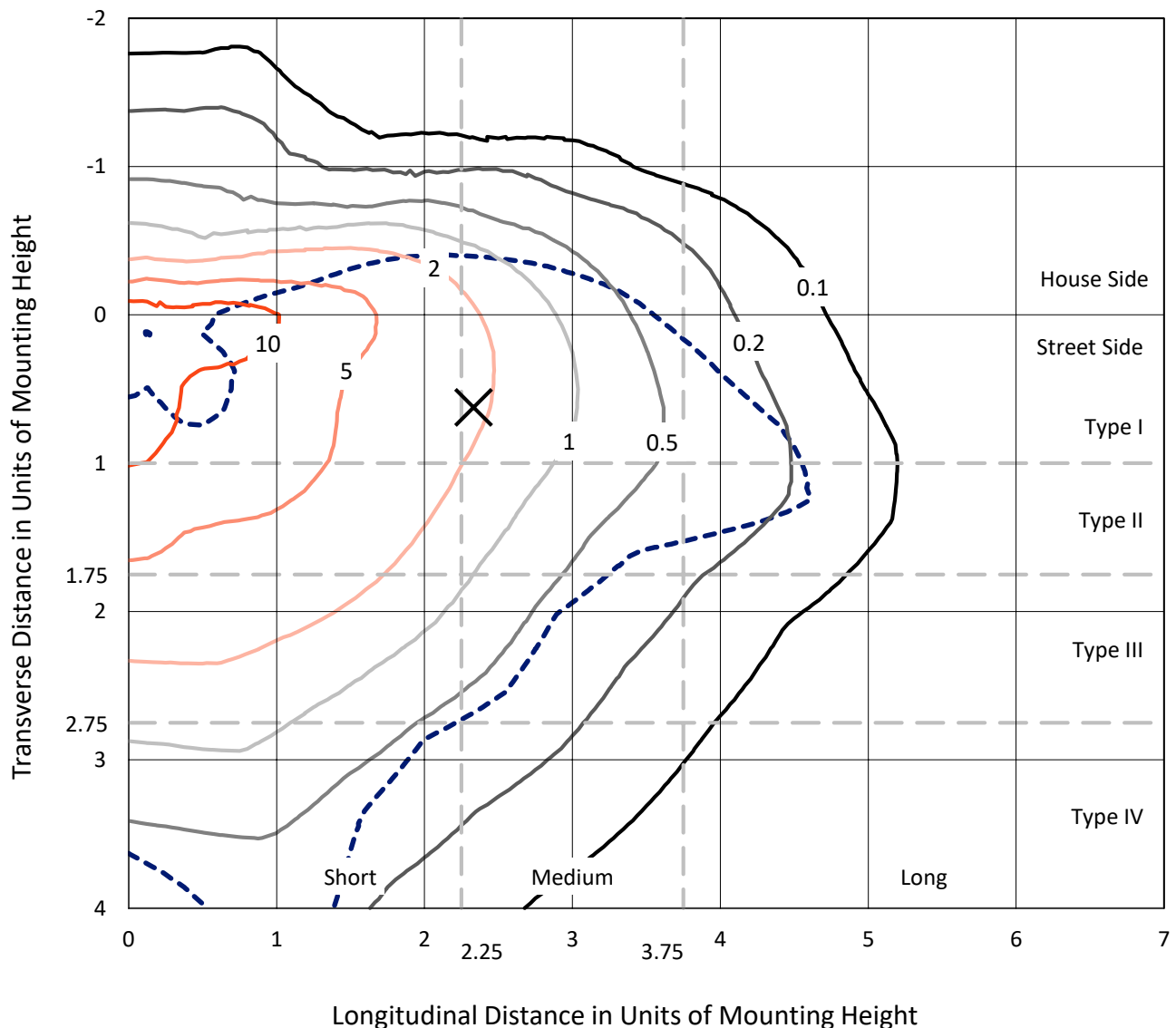
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

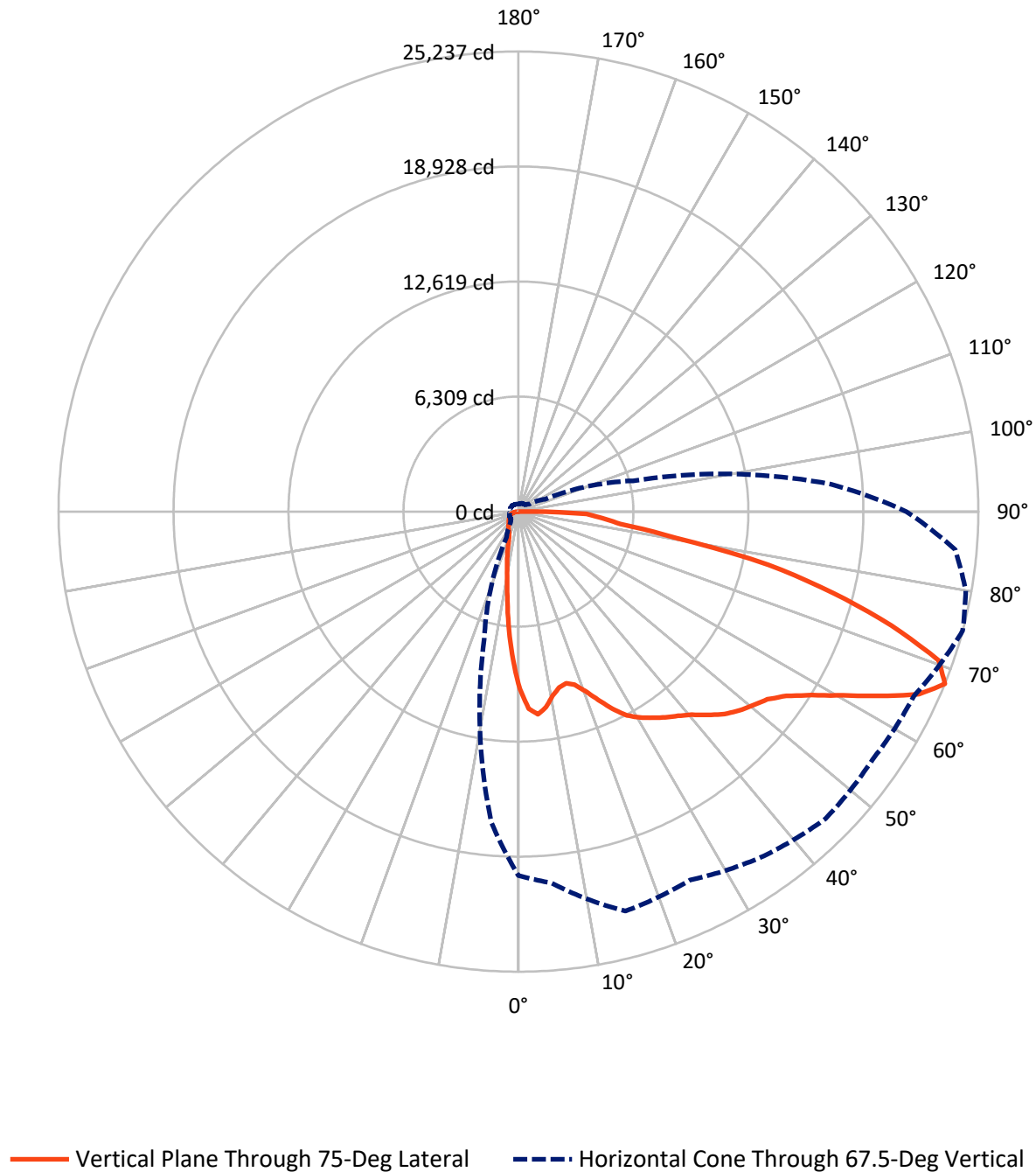
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.6 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	5633.2	0.0	5633.2
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	26350.8	0.0	26350.8
	% Fixture	82.4	0.0	82.4
Total	Lumens	31984.0	0.0	31984.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	752.0	2.4
10°-20°	1562.3	4.9
20°-30°	2221.9	6.9
30°-40°	3201.7	10.0
40°-50°	4512.1	14.1
50°-60°	6272.6	19.6
60°-70°	7585.5	23.7
70°-80°	4662.7	14.6
80°-90°	1213.3	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°	31984.0	100.0
0°-180°	31984.0	100.0

Coefficient of Utilization



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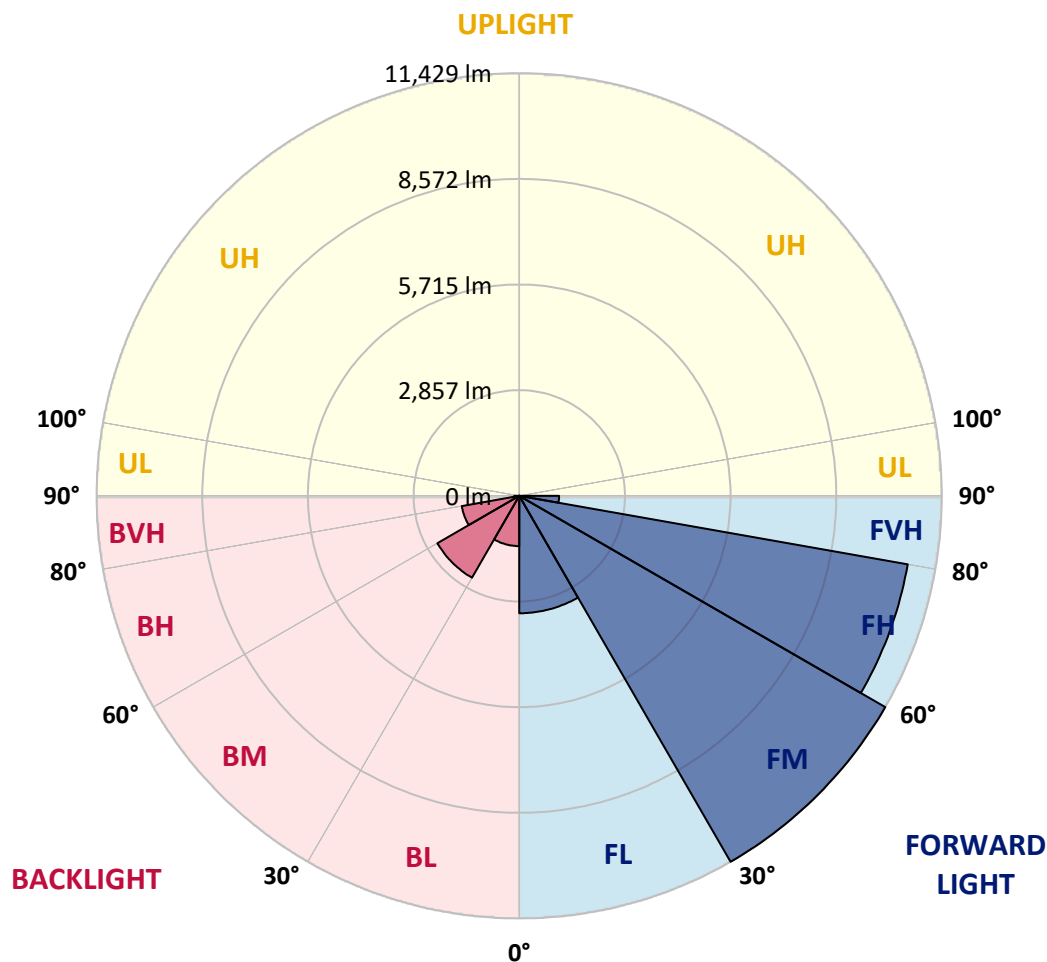
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3175.7	9.9			
FM	(30°-60°)	11429.4	35.7			
FH	(60°-80°)	10668.8	33.4			G4/12000
FVH	(80°-90°)	1077.0	3.4			G5
BL	(0°-30°)	1360.5	4.3	B3/2500		
BM	(30°-60°)	2557.0	8.0	B3/5000		
BH	(60°-80°)	1579.3	4.9	B3/2500		G3/2500
BVH	(80°-90°)	136.3	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°	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1
2.5°	10386.0	10522.8	10617.5	10710.8	10783.7	10855.3	10960.2	11065.0	11085.5	11104.7	11063.7
5°	10324.6	10658.4	10942.3	11224.9	11487.0	11749.2	11906.4	12063.7	12095.7	12127.7	12029.2
7.5°	9663.5	10155.8	10648.2	11140.5	11591.9	12043.3	12318.2	12591.9	12654.5	12715.9	12554.8
10°	8911.6	9484.5	10089.3	10694.2	11288.8	11883.4	12281.1	12678.8	12758.1	12837.4	12636.6
12.5°	8340.0	8965.3	9611.1	10256.9	10884.7	11511.3	11923.1	12334.8	12433.3	12531.8	12386.0
15°	8120.1	8805.5	9412.9	10020.3	10567.6	11113.6	11451.2	11787.5	11828.4	11868.1	11845.1
17.5°	8340.0	9095.7	9645.6	10194.2	10492.1	10788.8	10924.4	11058.6	11103.4	11146.9	11205.7
20°	8983.2	9799.1	10186.5	10572.7	10559.9	10545.9	10480.6	10414.1	10402.6	10391.1	10557.4
22.5°	9901.4	10848.9	11003.6	11157.1	10797.8	10438.4	10219.8	9999.8	9956.3	9911.6	10088.1
25°	10979.3	11988.3	11960.1	11930.7	11246.6	10561.2	10144.3	9727.5	9678.9	9630.3	9781.2
27.5°	12152.0	13116.1	12932.0	12747.9	11818.2	10888.6	10283.7	9678.9	9630.3	9581.7	9714.7
30°	13068.8	13943.5	13648.1	13352.7	12300.3	11247.9	10529.2	9810.6	9731.3	9650.7	9814.4
32.5°	13845.0	14589.3	14192.8	13796.4	12691.6	11586.8	10809.3	10031.8	9907.8	9783.7	10002.4
35°	14653.2	15233.7	14676.2	14117.4	13040.7	11962.7	11140.5	10317.0	10164.8	10012.6	10313.1
37.5°	15562.4	16044.5	15244.0	14442.2	13433.3	12424.3	11636.6	10847.6	10691.6	10535.6	10919.2
40°	16522.7	16924.3	15856.5	14788.7	13862.9	12937.1	12323.3	11708.2	11559.9	11410.3	11875.8
42.5°	17362.9	17655.7	16426.8	15197.9	14380.8	13562.4	13130.2	12696.7	12695.4	12692.9	13164.7
45°	17995.8	18250.3	16902.5	15553.4	14885.9	14217.1	13992.1	13767.0	13947.3	14127.6	14554.7
47.5°	18521.4	18694.0	17301.5	15907.7	15463.9	15020.2	15053.4	15086.7	15453.7	15820.7	16095.6
50°	19122.4	18983.0	17663.4	16342.4	16205.6	16068.8	16368.0	16665.9	17087.9	17508.6	17695.3
52.5°	19773.3	19403.8	18154.4	16903.8	17057.2	17210.7	17819.4	18428.1	18853.9	19279.7	19350.0
55°	20943.4	20376.9	19057.2	17736.3	18031.7	18325.8	19219.6	20112.2	20444.7	20777.1	20802.7
57.5°	22261.8	21759.2	20321.9	18884.6	19201.7	19518.8	20550.8	21581.5	21940.8	22298.8	22249.0
60°	22769.4	22793.7	21522.6	20250.3	20570.0	20889.7	21894.8	22899.9	23312.9	23724.6	23614.7
62.5°	22257.9	22857.7	22178.6	21498.3	21788.6	22077.6	23062.3	24046.9	24470.2	24893.4	24701.6
65°	21246.4	21841.1	22145.4	22449.7	22545.6	22641.5	23561.0	24479.1	24803.9	25127.4	25030.3
67.5°	19960.0	20440.8	21563.6	22685.0	22491.9	22298.8	22729.8	23160.7	23494.5	23828.2	23773.2
70°	18470.3	19043.1	20540.6	22038.0	21089.1	20139.0	19961.3	19783.5	20144.1	20503.5	20281.0
72.5°	15799.0	16663.4	18260.6	19856.4	18108.4	16360.3	15752.9	15145.5	15602.0	16058.5	15704.3
75°	11933.3	13080.3	14845.0	16608.4	14522.8	12437.1	11626.4	10815.7	11208.2	11600.8	11357.9
77.5°	8299.1	9737.7	11475.5	13213.3	11093.2	8971.7	8369.4	7765.8	7883.5	7999.9	7958.9
80°	5658.5	6604.7	7817.0	9028.0	7616.2	6204.5	6251.8	6297.8	6242.9	6186.6	6268.4
82.5°	3548.5	4214.8	5150.8	6085.6	5336.2	4586.9	5016.5	5446.2	5235.2	5022.9	5102.2
85°	1998.7	2405.3	3320.9	4235.2	3947.5	3658.5	3910.4	4161.1	3833.7	3506.3	3650.8
87.5°	381.1	634.3	1837.6	3039.6	2759.5	2479.5	2154.7	1829.9	1396.4	962.9	1406.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1
2.5°	11022.8	11001.1	10979.3	10901.3	10822.1	10704.4	10607.2	10438.4	10346.4	10207.0	10067.6
5°	11929.5	11791.4	11653.2	11415.4	11176.3	10910.3	10604.7	10265.8	10010.1	9677.6	9345.1
7.5°	12393.6	12071.4	11747.9	11291.4	10833.6	10421.8	9938.4	9488.3	9104.7	8672.5	8240.3
10°	12435.8	11952.5	11467.8	10874.5	10279.9	9779.9	9223.6	8723.6	8263.3	7767.1	7269.7
12.5°	12238.9	11724.9	11209.5	10556.1	9901.4	9333.6	8735.1	8175.0	7664.8	7118.8	6571.5
15°	11822.0	11411.6	10999.8	10387.3	9774.8	9201.9	8621.3	7957.7	7380.9	6822.1	6262.0
17.5°	11263.2	11068.9	10873.2	10430.8	9987.0	9490.9	8928.2	8149.5	7474.3	6866.9	6259.5
20°	10722.3	10793.9	10864.3	10687.8	10511.3	10113.6	9622.6	8747.9	7886.1	7091.9	6296.6
22.5°	10263.2	10607.2	10949.9	11086.8	11222.3	10983.2	10599.6	9588.1	8447.4	7410.4	6373.3
25°	9930.8	10501.1	11071.4	11526.7	11980.6	11874.5	11579.1	10608.5	9191.7	7869.4	6545.9
27.5°	9847.7	10547.1	11246.6	11952.5	12657.1	12755.5	12673.7	11683.9	10079.1	8439.8	6799.1
30°	9978.1	10686.5	11393.7	12253.0	13111.0	13503.6	13613.6	12580.3	11093.2	9104.7	7115.0
32.5°	10221.0	10915.4	11609.8	12545.8	13480.6	14073.9	14424.3	13400.0	11800.3	9606.0	7410.4
35°	10613.6	11263.2	11912.8	12887.2	13861.7	14628.9	15268.3	14246.6	12428.2	9956.3	7483.2
37.5°	11301.6	11860.4	12419.2	13319.5	14218.4	15213.3	16173.6	15178.8	13107.2	10293.9	7479.4
40°	12341.2	12736.4	13130.2	13891.1	14650.6	15902.5	17199.2	16218.4	13857.8	10659.7	7461.5
42.5°	13636.6	13839.9	14042.0	14644.2	15246.5	16622.5	18130.1	17235.0	14573.9	10999.8	7425.7
45°	14980.6	15034.3	15088.0	15467.8	15846.3	17192.8	18764.4	17998.4	15199.2	11295.2	7389.9
47.5°	16369.3	16185.1	16001.0	16151.9	16302.8	17630.1	19217.1	18577.7	15827.1	11622.6	7416.8
50°	17882.0	17369.3	16856.5	16777.2	16697.9	18067.5	19750.3	19314.2	16581.6	12099.5	7617.5
52.5°	19419.1	18573.8	17728.6	17415.3	17100.7	18589.2	20457.4	20231.1	17658.3	12838.7	8017.8
55°	20828.3	19752.9	18677.4	18255.4	17833.4	19387.1	21320.6	21577.6	19038.0	13783.6	8528.0
57.5°	22197.8	20979.2	19760.5	19369.2	18977.9	20559.7	22413.9	22786.0	20431.9	14690.3	8947.4
60°	23504.7	22298.8	21091.7	20778.4	20463.8	22017.5	23595.5	23324.4	21150.5	15114.8	9077.8
62.5°	24509.8	23550.7	22591.7	22426.7	22260.5	23491.9	24503.4	23114.7	20694.0	14696.7	8699.3
65°	24933.1	24387.0	23839.7	23994.5	24147.9	24607.0	24729.7	22500.9	19259.3	13525.3	7791.4
67.5°	23717.0	23828.2	23939.5	24589.1	25237.4	24921.6	24057.1	21291.2	17217.1	11865.5	6514.0
70°	20057.2	20724.7	21390.9	22928.0	24463.8	23763.0	22255.4	19119.9	14759.3	9953.8	5147.0
72.5°	15348.8	16099.5	16848.8	19130.1	21410.1	20764.3	18917.8	15704.3	11833.6	7948.7	4062.6
75°	11113.6	11961.4	12808.0	15324.5	17841.1	16944.7	14150.6	11244.0	8988.3	6067.7	3145.7
77.5°	7916.7	8484.5	9052.3	11538.2	14022.8	12562.4	9419.3	7566.4	6221.1	4217.3	2212.2
80°	6350.3	6176.4	6002.5	7387.3	8772.2	8529.3	6230.1	4859.3	4305.6	2826.0	1346.5
82.5°	5180.2	4755.7	4331.1	4983.3	5635.5	5599.6	4323.5	3565.2	3204.5	1964.2	723.8
85°	3794.1	3624.0	3453.9	4030.6	4607.3	4115.0	2928.3	2265.9	2498.7	1446.3	393.9
87.5°	1850.4	2113.8	2375.9	3056.2	3735.2	2804.3	888.7	439.9	608.7	400.2	190.5
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: P320482
 CATALOG NUMBER: GLEON-SA8B-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: P320482

CATALOG NUMBER: GLEON-SA8B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1
2.5°	9964.0	9859.2	9740.2	9621.3	9485.8	9348.9	9268.4	9186.5	9098.3	9010.1	8910.3
5°	9125.2	8905.2	8655.9	8406.5	8159.7	7912.9	7779.9	7646.9	7506.3	7364.3	7241.6
7.5°	7920.6	7599.6	7254.3	6907.8	6600.9	6292.7	6102.2	5910.4	5736.5	5561.3	5414.2
10°	6860.5	6451.3	6104.8	5756.9	5525.5	5294.0	5118.8	4943.6	4774.9	4604.8	4442.4
12.5°	6162.3	5753.1	5533.2	5313.2	5121.4	4929.6	4727.5	4524.2	4292.8	4060.0	3890.0
15°	5889.9	5517.8	5273.6	5028.0	4771.0	4512.7	4264.6	4016.6	3742.9	3469.2	3276.2
17.5°	5772.3	5285.1	4943.6	4600.9	4262.1	3923.2	3635.5	3347.8	3048.5	2749.3	2553.7
20°	5648.2	4999.9	4542.1	4083.0	3648.3	3213.5	2887.4	2561.3	2294.1	2026.8	1877.2
22.5°	5535.7	4696.8	4122.7	3547.3	3033.2	2519.1	2199.5	1878.5	1714.8	1551.1	1491.0
25°	5489.7	4432.1	3726.3	3020.4	2478.2	1934.7	1707.1	1479.5	1416.9	1352.9	1322.2
27.5°	5497.3	4195.6	3392.5	2588.2	2099.7	1611.2	1455.2	1299.2	1260.8	1221.2	1202.0
30°	5526.8	3938.6	3078.0	2217.4	1814.5	1411.7	1310.7	1208.4	1167.5	1126.6	1102.3
32.5°	5560.0	3708.4	2835.0	1960.3	1631.7	1301.8	1218.6	1134.3	1094.6	1055.0	1030.7
35°	5502.5	3520.4	2668.8	1817.1	1514.0	1209.7	1139.4	1067.8	1024.3	980.8	957.8
37.5°	5405.3	3331.1	2539.6	1746.8	1437.3	1126.6	1075.4	1023.0	978.2	932.2	910.5
40°	5317.0	3171.3	2443.7	1714.8	1395.1	1074.2	1030.7	987.2	941.2	893.8	868.3
42.5°	5245.4	3063.9	2349.1	1634.2	1356.8	1078.0	1016.6	953.9	909.2	864.4	836.3
45°	5191.7	2993.6	2274.9	1556.2	1320.9	1085.7	1007.7	929.7	884.9	838.9	805.6
47.5°	5186.6	2956.5	2222.5	1488.5	1253.2	1016.6	984.6	952.7	887.5	821.0	782.6
50°	5256.9	2896.4	2161.1	1424.5	1188.0	951.4	994.9	1037.1	925.8	813.3	764.7
52.5°	5404.0	2790.2	2063.9	1337.6	1108.7	878.5	946.3	1012.8	916.9	819.7	757.0
55°	5581.7	2634.2	1916.8	1198.2	1003.8	808.2	868.3	927.1	867.0	805.6	730.2
57.5°	5693.0	2437.3	1731.4	1025.6	886.2	746.8	781.3	814.6	790.3	766.0	689.2
60°	5626.5	2175.2	1523.0	869.6	782.6	695.6	689.2	681.6	717.4	753.2	665.0
62.5°	5301.7	1904.1	1338.9	773.6	708.4	641.9	627.9	612.5	671.3	728.9	635.5
65°	4753.1	1714.8	1222.5	730.2	657.3	584.4	569.0	553.7	571.6	589.5	546.0
67.5°	4056.2	1598.4	1156.0	713.5	625.3	535.8	517.9	500.0	496.2	492.3	477.0
70°	3337.5	1526.8	1112.5	698.2	590.8	482.1	465.5	448.8	443.7	437.3	425.8
72.5°	2790.2	1517.9	1107.4	696.9	562.7	428.4	413.0	397.7	391.3	383.6	374.7
75°	2285.1	1424.5	1051.1	677.7	524.3	369.6	355.5	341.4	336.3	329.9	322.2
77.5°	1695.6	1179.0	883.6	588.2	448.8	309.5	295.4	280.0	278.8	276.2	269.8
80°	1099.7	852.9	631.7	410.5	327.4	243.0	231.5	218.7	219.9	221.2	216.1
82.5°	611.2	497.4	386.2	274.9	223.8	172.6	167.5	161.1	165.0	167.5	161.1
85°	322.2	250.6	207.2	163.7	129.2	94.6	94.6	93.3	98.5	103.6	98.5
87.5°	139.4	88.2	75.4	61.4	34.5	6.4	7.7	7.7	10.2	12.8	11.5
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: P320482
 CATALOG NUMBER: GLEON-SA8B-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: P320482

CATALOG NUMBER: GLEON-SA8B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1
2.5°	8809.3	8716.0	8621.3	8517.8	8536.9	8457.7	8378.4	8328.5	8278.6	8263.3	8247.9
5°	7118.8	7012.7	6905.3	6809.3	6892.5	6836.2	6779.9	6772.3	6763.3	6763.3	6762.0
7.5°	5267.2	5153.4	5038.3	4959.0	5040.8	5030.6	5020.4	5075.4	5130.3	5175.1	5218.6
10°	4280.0	4141.9	4002.5	3884.8	3864.4	3805.6	3745.5	3758.2	3769.8	3818.3	3866.9
12.5°	3719.9	3554.9	3390.0	3251.9	3189.2	3092.0	2993.6	2932.2	2870.8	2877.2	2882.3
15°	3081.8	2921.9	2760.8	2641.9	2602.3	2526.8	2451.4	2374.6	2296.6	2264.7	2231.4
17.5°	2356.7	2228.9	2099.7	2020.4	2020.4	1998.7	1976.9	1938.6	1898.9	1867.0	1833.7
20°	1727.6	1659.8	1590.8	1557.5	1567.7	1569.0	1569.0	1588.2	1607.4	1597.2	1586.9
22.5°	1429.6	1405.3	1381.1	1367.0	1372.1	1373.4	1374.7	1392.6	1409.2	1422.0	1433.5
25°	1290.3	1274.9	1259.6	1254.5	1266.0	1267.2	1267.2	1278.8	1290.3	1303.0	1315.8
27.5°	1181.6	1175.2	1168.8	1159.8	1171.3	1171.3	1170.1	1182.8	1194.4	1205.9	1216.1
30°	1078.0	1080.5	1081.8	1079.3	1086.9	1092.1	1095.9	1104.8	1112.5	1121.5	1130.4
32.5°	1005.1	1001.3	997.4	994.9	1011.5	1020.4	1029.4	1038.3	1046.0	1049.9	1053.7
35°	934.8	925.8	916.9	910.5	925.8	937.3	948.8	965.5	980.8	983.4	985.9
37.5°	887.5	875.9	864.4	856.8	863.2	868.3	873.4	891.3	909.2	919.4	928.4
40°	842.7	831.2	819.7	813.3	817.1	818.4	819.7	828.6	836.3	855.5	873.4
42.5°	806.9	792.8	778.8	771.1	773.6	776.2	777.5	776.2	774.9	792.8	810.7
45°	771.1	755.7	740.4	731.4	732.7	732.7	732.7	730.2	726.3	735.3	744.2
47.5°	743.0	725.1	707.1	698.2	695.6	693.1	690.5	689.2	686.7	693.1	698.2
50°	714.8	695.6	675.2	665.0	658.6	656.0	653.4	652.2	649.6	656.0	661.1
52.5°	693.1	670.1	647.0	630.4	624.0	620.2	616.4	617.6	617.6	620.2	621.5
55°	654.7	634.3	612.5	601.0	589.5	586.9	584.4	588.2	590.8	590.8	590.8
57.5°	612.5	593.3	572.9	565.2	555.0	555.0	553.7	558.8	562.7	565.2	567.8
60°	575.4	553.7	532.0	525.6	521.7	520.5	519.2	525.6	530.7	535.8	540.9
62.5°	540.9	517.9	494.9	487.2	485.9	487.2	487.2	493.6	498.7	503.8	508.9
65°	502.5	479.5	455.2	447.6	450.1	454.0	457.8	462.9	466.7	471.9	477.0
67.5°	460.4	441.2	420.7	413.0	414.3	419.4	424.5	428.4	430.9	436.1	441.2
70°	414.3	397.7	381.1	376.0	374.7	381.1	386.2	388.7	391.3	397.7	402.8
72.5°	364.4	350.4	336.3	332.5	333.8	337.6	341.4	345.3	347.8	354.2	359.3
75°	313.3	300.5	287.7	285.2	287.7	291.6	295.4	297.9	300.5	308.2	314.6
77.5°	263.4	249.4	234.0	232.7	236.6	240.4	243.0	246.8	250.6	260.9	271.1
80°	211.0	195.6	179.0	177.7	181.6	185.4	189.3	193.1	196.9	209.7	221.2
82.5°	154.7	136.8	118.9	116.4	129.2	133.0	136.8	143.2	148.3	159.8	171.4
85°	93.3	75.4	57.5	56.3	67.8	74.2	80.6	88.2	94.6	104.9	115.1
87.5°	10.2	5.1	0.0	0.0	1.3	6.4	11.5	17.9	24.3	34.5	43.5
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: P320482
 CATALOG NUMBER: GLEON-SA8B-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: P320482

CATALOG NUMBER: GLEON-SA8B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1
2.5°	8191.7	8134.1	8193.0	8250.5	8274.8	8299.1	8236.4	8172.5	8272.2	8370.7	8396.3
5°	6710.9	6658.5	6698.1	6736.5	6650.8	6565.1	6556.2	6545.9	6620.1	6694.3	6705.8
7.5°	5202.0	5185.3	5222.4	5259.5	5150.8	5040.8	4987.1	4933.4	4951.3	4969.2	4966.7
10°	3878.4	3888.7	3934.7	3979.5	3895.1	3810.7	3773.6	3736.5	3777.4	3817.1	3854.2
12.5°	2905.3	2927.1	2975.7	3023.0	2988.4	2952.6	2956.5	2960.3	3007.6	3053.7	3094.6
15°	2257.0	2282.6	2317.1	2350.3	2351.6	2351.6	2384.9	2416.8	2413.0	2409.2	2437.3
17.5°	1868.3	1901.5	1905.3	1909.2	1910.5	1911.7	1909.2	1906.6	1887.4	1868.3	1890.0
20°	1599.7	1611.2	1621.5	1630.4	1618.9	1606.1	1574.1	1542.2	1529.4	1516.6	1537.1
22.5°	1455.2	1475.7	1465.4	1453.9	1430.9	1406.6	1382.3	1356.8	1355.5	1352.9	1364.4
25°	1333.7	1350.4	1332.5	1314.6	1297.9	1281.3	1264.7	1248.1	1246.8	1245.5	1250.6
27.5°	1232.7	1248.1	1231.4	1214.8	1200.7	1186.7	1173.9	1161.1	1158.5	1156.0	1157.3
30°	1145.8	1159.8	1145.8	1130.4	1120.2	1108.7	1099.7	1090.8	1089.5	1088.2	1088.2
32.5°	1067.8	1081.8	1071.6	1061.4	1052.4	1043.5	1037.1	1030.7	1024.3	1017.9	1003.8
35°	1000.0	1014.0	1007.7	1000.0	989.8	979.5	968.0	955.2	938.6	920.7	913.0
37.5°	942.4	956.5	950.1	943.7	929.7	915.6	895.1	873.4	868.3	861.9	860.6
40°	896.4	918.1	905.4	891.3	869.6	847.8	837.6	827.4	824.8	822.2	819.7
42.5°	845.3	878.5	855.5	832.5	812.0	791.5	789.0	786.4	785.2	783.9	783.9
45°	781.3	817.1	794.1	769.8	758.3	746.8	746.8	746.8	748.1	748.1	750.6
47.5°	721.2	743.0	731.4	719.9	713.5	707.1	708.4	709.7	713.5	716.1	722.5
50°	670.1	677.7	680.3	681.6	677.7	673.9	676.5	677.7	681.6	684.1	689.2
52.5°	633.0	644.5	644.5	643.2	643.2	643.2	645.8	648.3	652.2	656.0	661.1
55°	608.7	625.3	620.2	615.1	616.4	616.4	618.9	621.5	625.3	627.9	635.5
57.5°	585.7	603.6	598.5	593.3	593.3	593.3	594.6	595.9	599.7	602.3	607.4
60°	558.8	576.7	571.6	565.2	566.5	567.8	569.0	569.0	571.6	572.9	572.9
62.5°	526.8	544.7	539.6	533.2	537.1	539.6	539.6	539.6	542.2	543.5	539.6
65°	493.6	510.2	505.1	500.0	505.1	508.9	511.5	512.8	511.5	510.2	506.4
67.5°	457.8	474.4	469.3	462.9	469.3	474.4	479.5	483.4	479.5	475.7	470.6
70°	419.4	436.1	429.7	423.3	429.7	436.1	441.2	446.3	441.2	436.1	434.8
72.5°	378.5	397.7	390.0	382.3	390.0	397.7	400.2	402.8	399.0	395.1	392.6
75°	333.8	352.9	346.5	338.9	345.3	351.7	352.9	354.2	354.2	352.9	345.3
77.5°	286.4	301.8	297.9	294.1	297.9	301.8	301.8	301.8	303.1	303.1	292.8
80°	230.2	239.1	240.4	241.7	243.0	244.2	243.0	241.7	239.1	236.6	230.2
82.5°	171.4	171.4	181.6	190.5	190.5	189.3	188.0	185.4	180.3	173.9	159.8
85°	108.7	102.3	118.9	134.3	134.3	133.0	130.4	126.6	116.4	104.9	93.3
87.5°	37.1	30.7	47.3	63.9	65.2	65.2	62.7	60.1	49.9	38.4	29.4
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



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 CATALOG NUMBER: GLEON-SA8B-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: P320482

CATALOG NUMBER: GLEON-SA8B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1
2.5°	8434.6	8451.3	8466.6	8591.9	8716.0	8861.7	9007.5	9118.8	9228.7	9342.5	9456.4
5°	6745.4	6765.9	6786.3	6938.5	7089.4	7292.7	7496.0	7671.2	7846.4	8052.3	8258.2
7.5°	4999.9	5044.7	5088.1	5250.5	5411.7	5630.3	5847.7	6076.6	6304.2	6572.8	6841.3
10°	3927.0	4011.4	4094.6	4260.8	4427.0	4643.1	4858.0	5097.1	5336.2	5600.9	5864.3
12.5°	3179.0	3291.5	3402.8	3602.2	3801.7	4060.0	4317.1	4583.0	4847.7	5080.5	5313.2
15°	2511.5	2634.2	2755.7	2966.7	3177.7	3461.6	3744.2	4034.5	4323.5	4602.2	4881.0
17.5°	1959.0	2060.1	2159.8	2338.8	2516.6	2791.5	3066.4	3370.8	3675.1	4015.3	4354.1
20°	1580.5	1622.7	1664.9	1794.1	1922.0	2145.7	2368.2	2679.0	2989.7	3396.4	3803.0
22.5°	1384.9	1406.6	1427.1	1489.7	1551.1	1695.6	1838.8	2113.8	2387.4	2831.2	3273.6
25°	1267.2	1283.9	1300.5	1341.4	1382.3	1451.4	1520.4	1713.5	1906.6	2342.7	2777.4
27.5°	1161.1	1186.7	1211.0	1230.2	1248.1	1295.4	1341.4	1468.0	1594.6	2001.2	2406.6
30°	1084.4	1093.3	1102.3	1131.7	1159.8	1208.4	1257.0	1345.2	1433.5	1777.5	2120.2
32.5°	994.9	1007.7	1020.4	1051.1	1081.8	1126.6	1171.3	1242.9	1313.3	1607.4	1900.2
35°	914.3	927.1	939.9	970.6	1000.0	1048.6	1095.9	1156.0	1214.8	1470.6	1726.3
37.5°	864.4	877.2	890.0	916.9	942.4	991.0	1038.3	1085.7	1131.7	1368.3	1604.8
40°	822.2	835.0	847.8	873.4	897.7	945.0	991.0	1030.7	1070.3	1291.5	1512.8
42.5°	785.2	799.2	813.3	838.9	863.2	905.4	947.6	1000.0	1051.1	1225.0	1397.7
45°	754.5	768.5	781.3	809.4	837.6	878.5	919.4	992.3	1065.2	1190.5	1315.8
47.5°	726.3	741.7	755.7	786.4	817.1	868.3	918.1	979.5	1039.6	1163.7	1287.7
50°	699.5	717.4	735.3	772.4	808.2	893.8	978.2	987.2	994.9	1141.9	1287.7
52.5°	673.9	694.4	714.8	760.9	805.6	905.4	1005.1	973.1	939.9	1101.0	1262.1
55°	648.3	666.2	682.9	739.1	795.4	868.3	941.2	899.0	855.5	1024.3	1193.1
57.5°	613.8	633.0	650.9	711.0	771.1	822.2	872.1	833.7	794.1	937.3	1079.3
60°	578.0	599.7	621.5	698.2	773.6	764.7	754.5	746.8	737.8	840.1	942.4
62.5°	546.0	569.0	592.1	691.8	791.5	730.2	668.8	675.2	680.3	755.7	831.2
65°	514.1	537.1	558.8	608.7	658.6	634.3	610.0	620.2	629.1	703.3	777.5
67.5°	478.3	498.7	517.9	534.5	551.1	553.7	556.3	566.5	576.7	665.0	751.9
70°	438.6	455.2	471.9	483.4	493.6	498.7	502.5	515.3	528.1	624.0	719.9
72.5°	393.9	407.9	420.7	430.9	441.2	445.0	447.6	460.4	473.1	575.4	677.7
75°	345.3	356.8	367.0	376.0	384.9	390.0	395.1	404.1	413.0	524.3	634.3
77.5°	291.6	303.1	313.3	321.0	327.4	332.5	336.3	347.8	359.3	452.7	544.7
80°	227.6	241.7	254.5	260.9	266.0	267.3	267.3	277.5	287.7	354.2	419.4
82.5°	161.1	176.5	190.5	195.6	200.8	200.8	200.8	212.3	223.8	268.5	312.0
85°	94.6	111.3	126.6	131.7	136.8	139.4	140.7	145.8	149.6	181.6	212.3
87.5°	29.4	43.5	56.3	58.8	61.4	66.5	71.6	72.9	72.9	94.6	116.4
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



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 CATALOG NUMBER: GLEON-SA8B-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

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CATALOG NUMBER: GLEON-SA8B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1
2.5°	9586.8	9717.2	9869.4	10020.3	10149.4	10278.6	10386.0
5°	8520.3	8782.5	9103.4	9423.1	9708.3	9993.4	10324.6
7.5°	7180.2	7519.1	7934.6	8350.2	8753.0	9154.6	9663.5
10°	6209.6	6553.6	6993.5	7432.1	7884.8	8336.2	8911.6
12.5°	5593.3	5872.0	6297.8	6723.7	7255.6	7786.3	8340.0
15°	5186.6	5491.0	5905.3	6319.6	6901.4	7483.2	8120.1
17.5°	4753.1	5150.8	5681.5	6212.2	6901.4	7589.4	8340.0
20°	4299.2	4794.0	5482.0	6170.0	7098.3	8025.4	8983.2
22.5°	3846.5	4419.4	5301.7	6182.8	7396.3	8608.5	9901.4
25°	3438.6	4099.7	5191.7	6282.5	7829.8	9375.8	10979.3
27.5°	3129.1	3850.3	5147.0	6442.3	8379.6	10317.0	12152.0
30°	2854.2	3588.2	5093.3	6598.4	8909.1	11218.5	13068.8
32.5°	2616.3	3332.4	4989.7	6645.7	9278.6	11911.6	13845.0
35°	2429.6	3132.9	4815.8	6498.6	9510.1	12521.5	14653.2
37.5°	2268.5	2932.2	4617.6	6303.0	9715.9	13128.9	15562.4
40°	2115.1	2717.3	4447.5	6176.4	9999.8	13823.3	16522.7
42.5°	1969.3	2540.9	4310.7	6080.5	10263.2	14444.8	17362.9
45°	1860.6	2405.3	4189.2	5971.8	10433.3	14894.9	17995.8
47.5°	1806.9	2324.8	4124.0	5921.9	10603.4	15283.6	18521.4
50°	1799.2	2310.7	4198.1	6085.6	10971.7	15856.5	19122.4
52.5°	1797.9	2333.7	4411.7	6489.7	11655.8	16820.7	19773.3
55°	1771.1	2347.8	4666.2	6983.3	12573.9	18163.4	20943.4
57.5°	1689.2	2299.2	4928.3	7556.1	13544.5	19531.6	22261.8
60°	1562.6	2181.5	5144.4	8106.0	14196.7	20286.1	22769.4
62.5°	1404.1	1975.7	5216.0	8455.1	14178.8	19902.5	22257.9
65°	1268.5	1759.6	4980.7	8200.6	13461.4	18720.9	21246.4
67.5°	1148.3	1543.5	4392.5	7240.3	12171.1	17100.7	19960.0
70°	1061.4	1401.5	3634.2	5866.9	10556.1	15244.0	18470.3
72.5°	1006.4	1333.7	2962.9	4590.7	8566.3	12540.7	15799.0
75°	930.9	1227.6	2324.8	3420.7	6556.2	9691.6	11933.3
77.5°	790.3	1034.5	1751.9	2469.3	4810.7	7150.8	8299.1
80°	610.0	799.2	1204.6	1609.9	3310.7	5011.4	5658.5
82.5°	434.8	557.5	730.2	902.8	2199.5	3494.8	3548.5
85°	268.5	324.8	418.2	511.5	1455.2	2398.9	1998.7
87.5°	144.5	172.6	221.2	268.5	465.5	662.4	381.1
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: P320482
 CATALOG NUMBER: GLEON-SA8B-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

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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			

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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			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.32

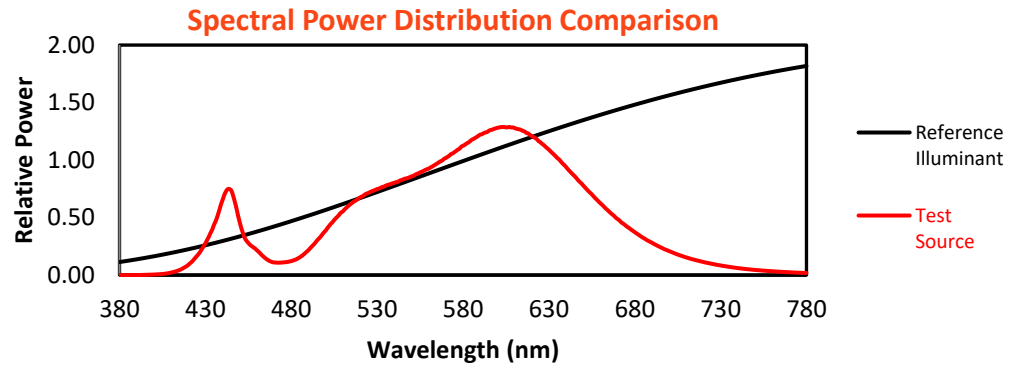
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940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

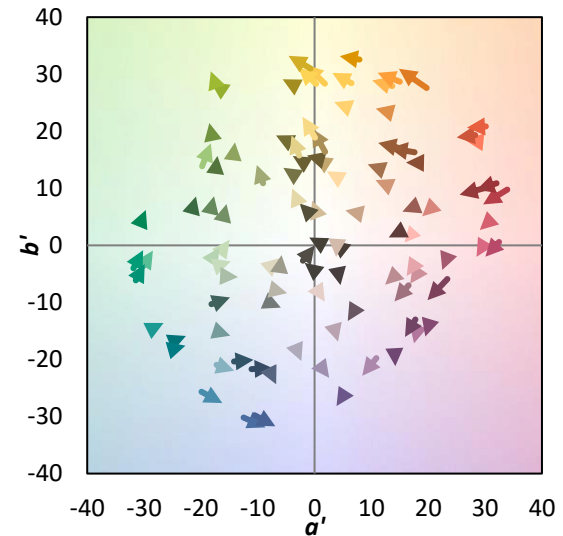
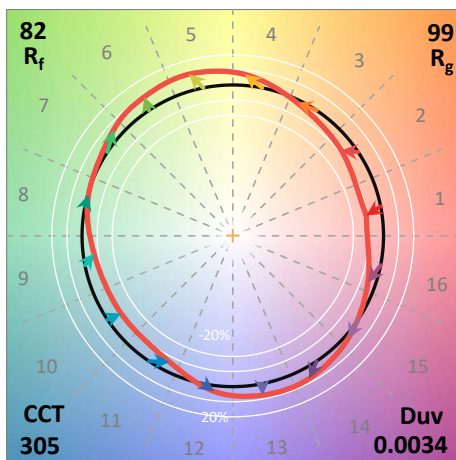
TM-30-18

Summary

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

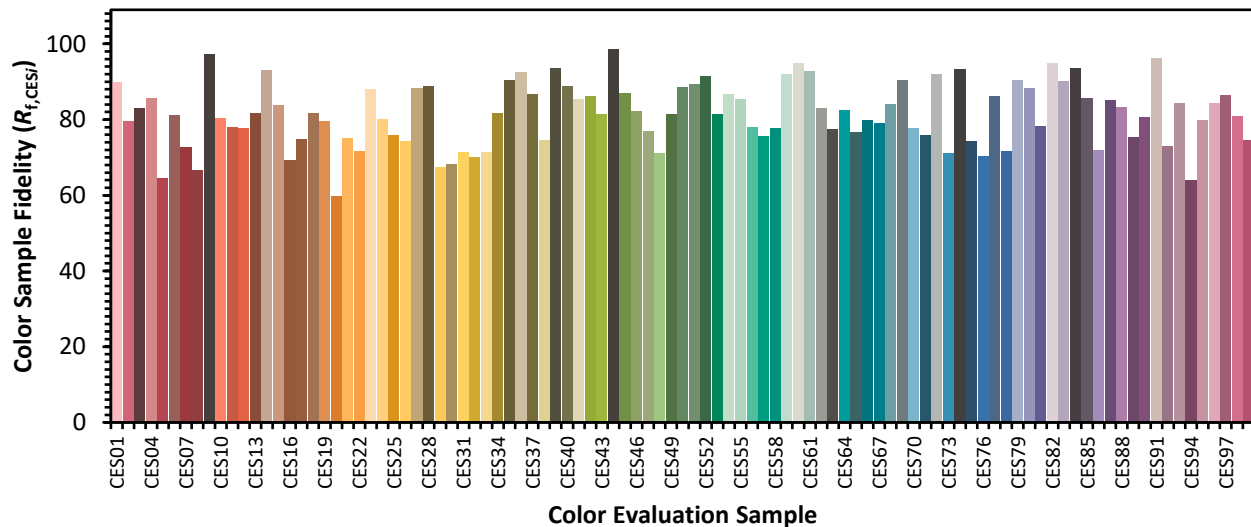


Color Vector Graphics



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)