

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: P320496

Luminaire Tested: **GLEON-SA2D-830-U-SLL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320496
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-SA2D-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA 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: 11086 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

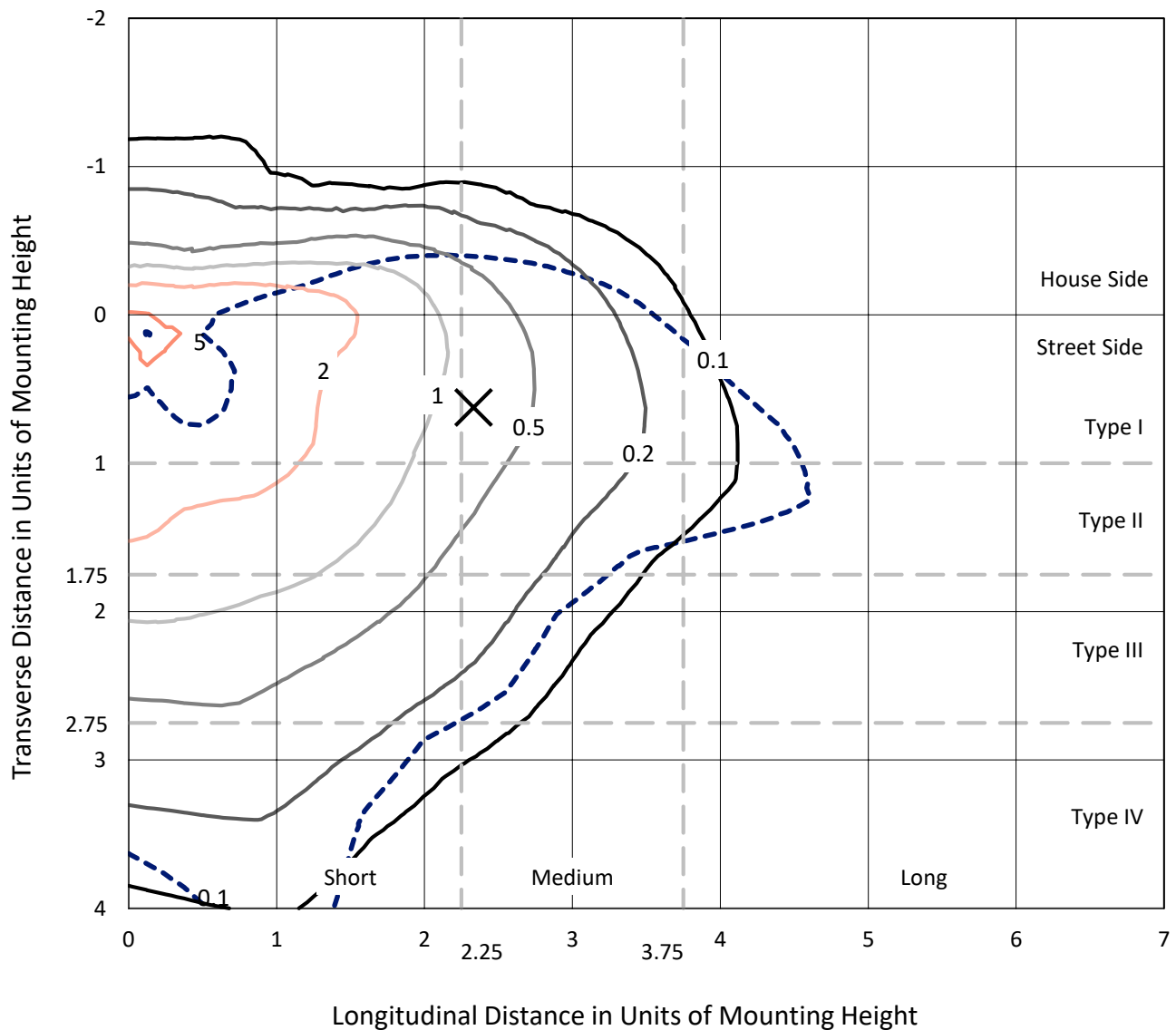
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

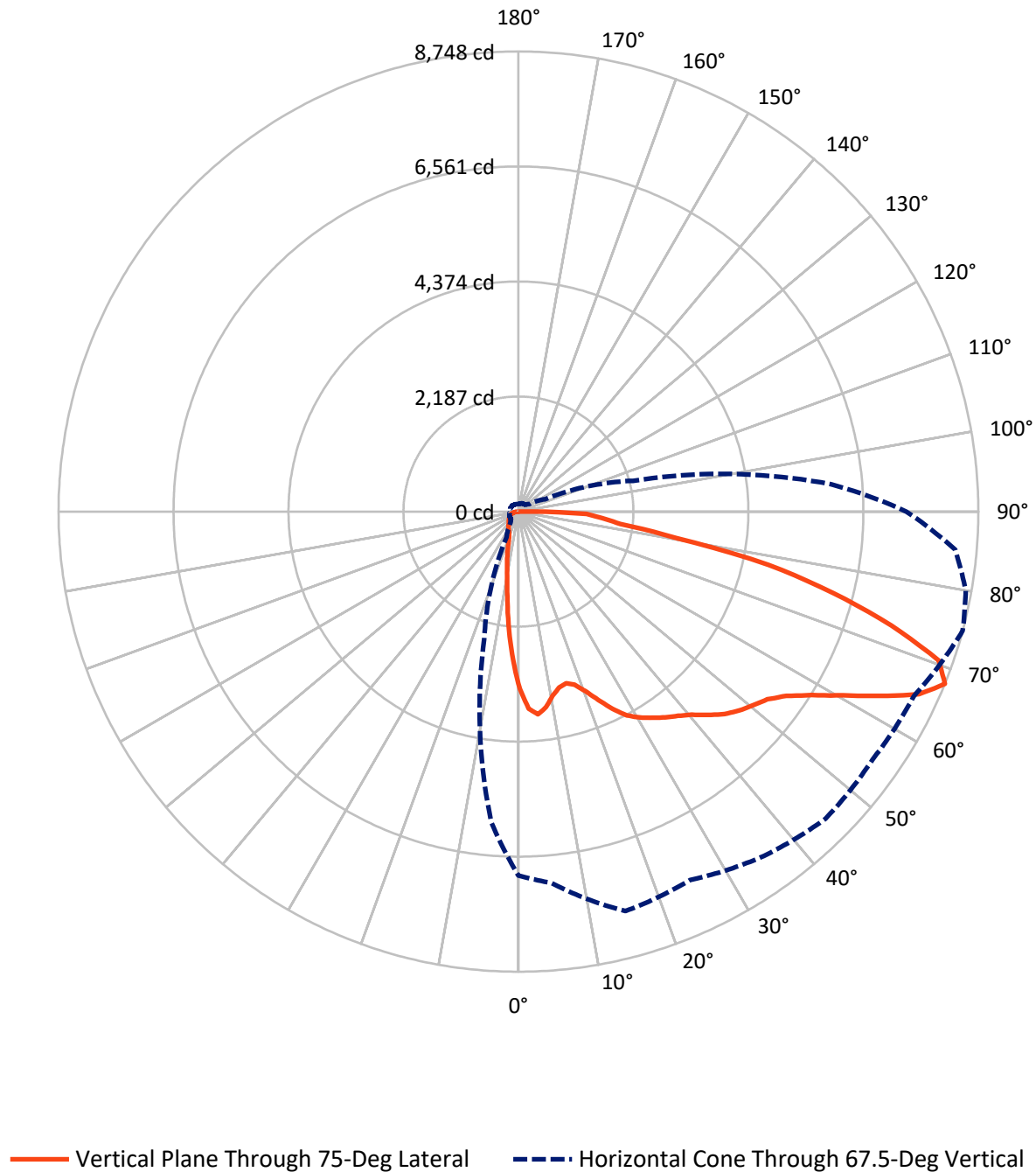
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	1952.5	0.0	1952.5
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	9133.5	0.0	9133.5
	% Fixture	82.4	0.0	82.4
Total	Lumens	11086.0	0.0	11086.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.7	2.4
10°-20°	541.5	4.9
20°-30°	770.1	6.9
30°-40°	1109.7	10.0
40°-50°	1563.9	14.1
50°-60°	2174.2	19.6
60°-70°	2629.2	23.7
70°-80°	1616.1	14.6
80°-90°	420.5	3.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	11086.0	100.0
0°-180°	11086.0	100.0

Coefficient of Utilization



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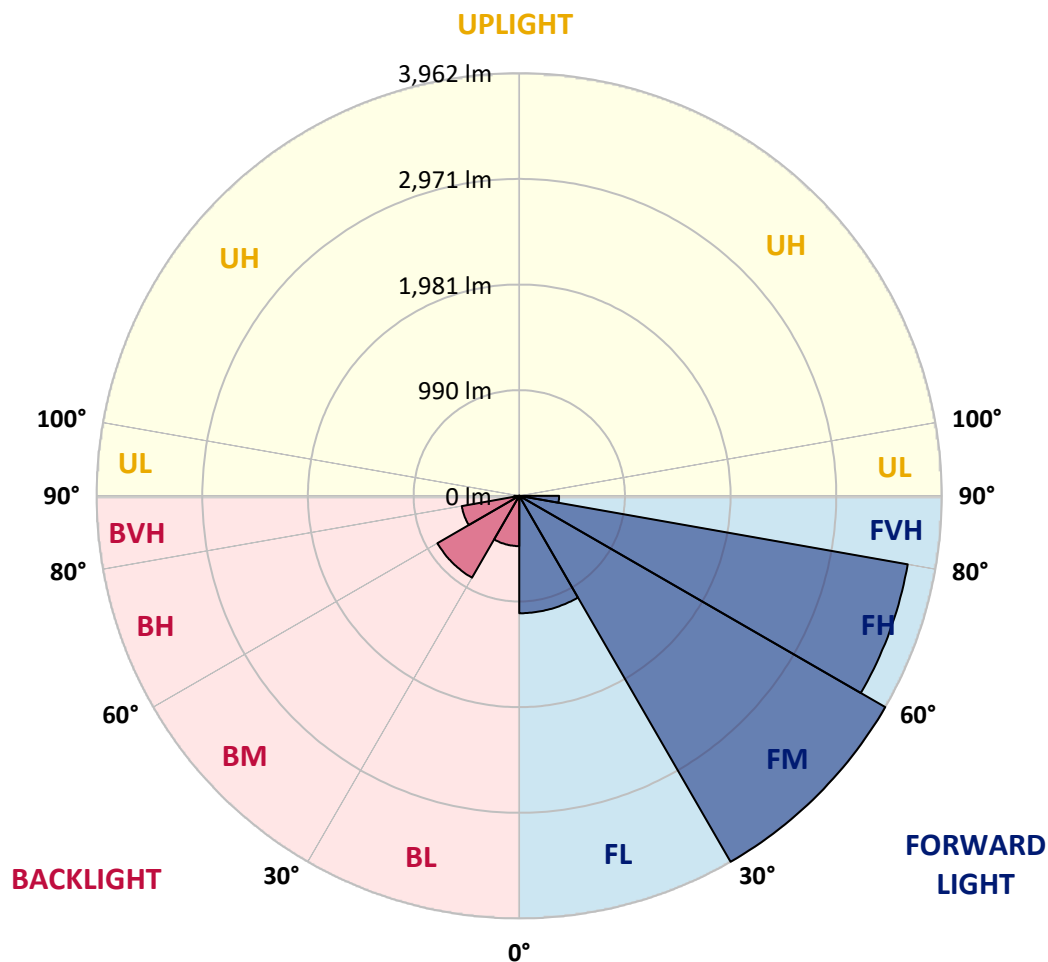
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1100.7	9.9			
FM	(30°-60°)	3961.5	35.7			
FH	(60°-80°)	3697.9	33.4			G2/5000
FVH	(80°-90°)	373.3	3.4			G3/500
BL	(0°-30°)	471.6	4.3	B1/500		
BM	(30°-60°)	886.3	8.0	B1/1000		
BH	(60°-80°)	547.4	4.9	B2/1000		G2/1000
BVH	(80°-90°)	47.3	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4
2.5°	3599.9	3647.3	3680.1	3712.5	3737.7	3762.6	3798.9	3835.3	3842.3	3849.0	3834.8
5°	3578.6	3694.3	3792.7	3890.7	3981.5	4072.4	4126.9	4181.4	4192.5	4203.6	4169.5
7.5°	3349.5	3520.1	3690.8	3861.4	4017.9	4174.3	4269.6	4364.5	4386.2	4407.5	4351.6
10°	3088.9	3287.4	3497.1	3706.7	3912.8	4118.9	4256.8	4394.6	4422.1	4449.6	4380.0
12.5°	2890.7	3107.5	3331.3	3555.1	3772.8	3989.9	4132.7	4275.4	4309.5	4343.6	4293.1
15°	2814.5	3052.1	3262.6	3473.1	3662.8	3852.1	3969.1	4085.7	4099.9	4113.6	4105.6
17.5°	2890.7	3152.7	3343.3	3533.4	3636.7	3739.5	3786.5	3833.0	3848.6	3863.6	3884.0
20°	3113.7	3396.5	3530.8	3664.6	3660.2	3655.3	3632.7	3609.7	3605.7	3601.7	3659.3
22.5°	3431.9	3760.4	3814.0	3867.2	3742.6	3618.1	3542.3	3466.0	3451.0	3435.5	3496.6
25°	3805.6	4155.3	4145.5	4135.3	3898.2	3660.6	3516.1	3371.6	3354.8	3338.0	3390.3
27.5°	4212.0	4546.2	4482.4	4418.5	4096.3	3774.1	3564.4	3354.8	3338.0	3321.1	3367.2
30°	4529.8	4833.0	4730.6	4628.2	4263.4	3898.6	3649.5	3400.4	3373.0	3345.0	3401.8
32.5°	4798.8	5056.8	4919.4	4782.0	4399.0	4016.1	3746.6	3477.1	3434.1	3391.1	3466.9
35°	5079.0	5280.2	5086.9	4893.2	4520.0	4146.4	3861.4	3576.0	3523.2	3470.5	3574.6
37.5°	5394.1	5561.2	5283.7	5005.8	4656.1	4306.4	4033.4	3759.9	3705.8	3651.8	3784.7
40°	5727.0	5866.1	5496.0	5125.9	4805.0	4484.1	4271.4	4058.2	4006.8	3954.9	4116.3
42.5°	6018.2	6119.7	5693.7	5267.8	4984.5	4700.9	4551.1	4400.8	4400.4	4399.5	4563.0
45°	6237.6	6325.8	5858.6	5391.0	5159.6	4927.8	4849.8	4771.8	4834.3	4896.8	5044.8
47.5°	6419.7	6479.6	5996.9	5513.8	5360.0	5206.2	5217.7	5229.2	5356.4	5483.6	5578.9
50°	6628.0	6579.7	6122.3	5664.5	5617.0	5569.6	5673.3	5776.6	5922.9	6068.7	6133.4
52.5°	6853.6	6725.6	6292.5	5859.0	5912.2	5965.4	6176.4	6387.4	6535.0	6682.6	6706.9
55°	7259.2	7062.8	6605.4	6147.6	6250.0	6351.9	6661.7	6971.1	7086.3	7201.6	7210.4
57.5°	7716.2	7542.0	7043.8	6545.6	6655.5	6765.4	7123.1	7480.4	7604.9	7729.0	7711.7
60°	7892.1	7900.5	7460.0	7019.0	7129.8	7240.6	7589.0	7937.3	8080.5	8223.2	8185.1
62.5°	7714.8	7922.7	7687.4	7451.6	7552.2	7652.3	7993.6	8334.9	8481.6	8628.3	8561.8
65°	7364.2	7570.3	7675.8	7781.3	7814.6	7847.8	8166.5	8484.7	8597.3	8709.4	8675.8
67.5°	6918.4	7085.0	7474.2	7862.9	7795.9	7729.0	7878.4	8027.8	8143.4	8259.1	8240.1
70°	6402.0	6600.6	7119.6	7638.6	7309.7	6980.4	6918.8	6857.2	6982.2	7106.7	7029.6
72.5°	5476.1	5775.7	6329.3	6882.5	6276.6	5670.7	5460.1	5249.6	5407.8	5566.1	5443.3
75°	4136.2	4533.8	5145.4	5756.7	5033.7	4310.8	4029.8	3748.8	3884.9	4021.0	3936.8
77.5°	2876.6	3375.2	3977.5	4579.9	3845.0	3109.7	2900.9	2691.7	2732.5	2772.8	2758.7
80°	1961.3	2289.3	2709.5	3129.2	2639.9	2150.5	2166.9	2182.9	2163.8	2144.3	2172.7
82.5°	1230.0	1460.9	1785.3	2109.3	1849.6	1589.9	1738.8	1887.7	1814.6	1741.0	1768.5
85°	692.8	833.7	1151.1	1468.0	1368.2	1268.1	1355.4	1442.3	1328.8	1215.3	1265.4
87.5°	132.1	219.8	636.9	1053.6	956.5	859.4	746.8	634.3	484.0	333.8	487.6
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°	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4
2.5°	3820.6	3813.1	3805.6	3778.5	3751.0	3710.3	3676.6	3618.1	3586.2	3537.9	3489.5
5°	4134.9	4087.0	4039.1	3956.7	3873.8	3781.6	3675.7	3558.2	3469.6	3354.4	3239.1
7.5°	4295.8	4184.1	4071.9	3913.7	3755.0	3612.3	3444.8	3288.8	3155.8	3006.0	2856.2
10°	4310.4	4142.9	3974.9	3769.2	3563.1	3389.8	3197.0	3023.7	2864.1	2692.2	2519.8
12.5°	4242.1	4064.0	3885.3	3658.9	3431.9	3235.1	3027.7	2833.6	2656.7	2467.5	2277.8
15°	4097.6	3955.4	3812.7	3600.3	3388.0	3189.5	2988.2	2758.2	2558.3	2364.6	2170.5
17.5°	3904.0	3836.6	3768.8	3615.4	3461.6	3289.6	3094.6	2824.7	2590.7	2380.1	2169.6
20°	3716.5	3741.3	3765.7	3704.5	3643.3	3505.5	3335.3	3032.1	2733.4	2458.1	2182.5
22.5°	3557.4	3676.6	3795.4	3842.8	3889.8	3806.9	3673.9	3323.3	2928.0	2568.5	2209.1
25°	3442.1	3639.8	3837.5	3995.3	4152.6	4115.8	4013.4	3677.0	3185.9	2727.6	2268.9
27.5°	3413.3	3655.7	3898.2	4142.9	4387.1	4421.2	4392.8	4049.8	3493.5	2925.3	2356.6
30°	3458.5	3704.1	3949.2	4247.0	4544.4	4680.5	4718.6	4360.5	3845.0	3155.8	2466.1
32.5°	3542.7	3783.4	4024.1	4348.5	4672.5	4878.2	4999.6	4644.6	4090.1	3329.5	2568.5
35°	3678.8	3904.0	4129.1	4466.9	4804.6	5070.5	5292.1	4938.0	4307.7	3451.0	2593.8
37.5°	3917.3	4110.9	4304.6	4616.7	4928.3	5273.1	5606.0	5261.1	4543.1	3568.0	2592.4
40°	4277.6	4414.6	4551.1	4814.8	5078.1	5512.0	5961.4	5621.5	4803.3	3694.8	2586.2
42.5°	4726.6	4797.1	4867.1	5075.9	5284.6	5761.5	6284.1	5973.8	5051.5	3812.7	2573.8
45°	5192.4	5211.0	5229.7	5361.3	5492.5	5959.2	6503.9	6238.4	5268.2	3915.0	2561.4
47.5°	5673.8	5609.9	5546.1	5598.4	5650.7	6110.8	6660.8	6439.2	5485.8	4028.5	2570.7
50°	6198.1	6020.4	5842.6	5815.2	5787.7	6262.4	6845.7	6694.5	5747.3	4193.8	2640.3
52.5°	6730.9	6437.9	6144.9	6036.3	5927.3	6443.2	7090.8	7012.3	6120.5	4450.0	2779.0
55°	7219.3	6846.6	6473.8	6327.5	6181.3	6719.8	7390.0	7479.0	6598.8	4777.6	2955.9
57.5°	7694.0	7271.6	6849.2	6713.6	6578.0	7126.2	7768.9	7897.9	7081.9	5091.8	3101.3
60°	8147.0	7729.0	7310.6	7202.0	7093.0	7631.5	8178.5	8084.5	7331.0	5239.0	3146.5
62.5°	8495.4	8162.9	7830.5	7773.3	7715.7	8142.6	8493.1	8011.8	7172.8	5094.0	3015.3
65°	8642.1	8452.8	8263.1	8316.7	8369.9	8529.0	8571.6	7799.1	6675.5	4688.0	2700.6
67.5°	8220.6	8259.1	8297.7	8522.8	8747.6	8638.1	8338.5	7379.8	5967.6	4112.7	2257.8
70°	6952.0	7183.4	7414.3	7947.1	8479.4	8236.5	7714.0	6627.2	5115.7	3450.1	1784.0
72.5°	5320.1	5580.2	5840.0	6630.7	7421.0	7197.1	6557.1	5443.3	4101.6	2755.1	1408.1
75°	3852.1	4146.0	4439.4	5311.7	6183.9	5873.2	4904.8	3897.3	3115.5	2103.1	1090.3
77.5°	2744.0	2940.8	3137.6	3999.3	4860.4	4354.3	3264.8	2622.6	2156.3	1461.8	766.8
80°	2201.1	2140.8	2080.5	2560.5	3040.5	2956.3	2159.4	1684.3	1492.4	979.5	466.7
82.5°	1795.5	1648.4	1501.2	1727.3	1953.3	1940.9	1498.6	1235.7	1110.7	680.8	250.9
85°	1315.1	1256.1	1197.2	1397.1	1597.0	1426.3	1015.0	785.4	866.1	501.3	136.5
87.5°	641.4	732.7	823.5	1059.3	1294.7	972.0	308.0	152.5	211.0	138.7	66.0
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: P320496
 CATALOG NUMBER: GLEON-SA2D-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: P320496

CATALOG NUMBER: GLEON-SA2D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4
2.5°	3453.6	3417.3	3376.1	3334.9	3287.9	3240.4	3212.5	3184.2	3153.6	3123.0	3088.4
5°	3162.9	3086.6	3000.2	2913.8	2828.2	2742.7	2696.6	2650.5	2601.8	2552.6	2510.0
7.5°	2745.4	2634.1	2514.4	2394.3	2287.9	2181.1	2115.1	2048.6	1988.3	1927.6	1876.6
10°	2377.9	2236.1	2116.0	1995.4	1915.2	1835.0	1774.2	1713.5	1655.0	1596.1	1539.8
12.5°	2135.9	1994.1	1917.9	1841.6	1775.1	1708.6	1638.6	1568.1	1487.9	1407.3	1348.3
15°	2041.5	1912.5	1827.9	1742.8	1653.7	1564.2	1478.2	1392.2	1297.3	1202.5	1135.6
17.5°	2000.7	1831.9	1713.5	1594.7	1477.3	1359.8	1260.1	1160.4	1056.7	952.9	885.1
20°	1957.7	1733.0	1574.3	1415.2	1264.5	1113.8	1000.8	887.8	795.2	702.5	650.7
22.5°	1918.7	1628.0	1429.0	1229.5	1051.3	873.2	762.4	651.1	594.4	537.6	516.8
25°	1902.8	1536.2	1291.6	1046.9	859.0	670.6	591.7	512.8	491.1	468.9	458.3
27.5°	1905.4	1454.2	1175.9	897.1	727.8	558.5	504.4	450.3	437.0	423.3	416.6
30°	1915.6	1365.1	1066.9	768.6	628.9	489.3	454.3	418.9	404.7	390.5	382.1
32.5°	1927.2	1285.4	982.6	679.5	565.6	451.2	422.4	393.1	379.4	365.7	357.2
35°	1907.2	1220.2	925.0	629.8	524.8	419.3	394.9	370.1	355.0	340.0	332.0
37.5°	1873.5	1154.6	880.3	605.5	498.2	390.5	372.8	354.6	339.1	323.1	315.6
40°	1842.9	1099.2	847.0	594.4	483.6	372.3	357.2	342.2	326.2	309.8	301.0
42.5°	1818.1	1062.0	814.2	566.4	470.3	373.6	352.4	330.6	315.1	299.6	289.9
45°	1799.5	1037.6	788.5	539.4	457.9	376.3	349.3	322.2	306.7	290.8	279.2
47.5°	1797.7	1024.7	770.3	515.9	434.4	352.4	341.3	330.2	307.6	284.6	271.3
50°	1822.1	1003.9	749.1	493.8	411.8	329.8	344.8	359.5	320.9	281.9	265.1
52.5°	1873.1	967.1	715.4	463.6	384.3	304.5	328.0	351.0	317.8	284.1	262.4
55°	1934.7	913.1	664.4	415.3	347.9	280.1	301.0	321.3	300.5	279.2	253.1
57.5°	1973.3	844.8	600.1	355.5	307.2	258.8	270.8	282.3	273.9	265.5	238.9
60°	1950.2	753.9	527.9	301.4	271.3	241.1	238.9	236.2	248.7	261.1	230.5
62.5°	1837.6	660.0	464.1	268.2	245.5	222.5	217.6	212.3	232.7	252.6	220.3
65°	1647.5	594.4	423.7	253.1	227.8	202.6	197.2	191.9	198.1	204.3	189.3
67.5°	1405.9	554.0	400.7	247.3	216.7	185.7	179.5	173.3	172.0	170.6	165.3
70°	1156.8	529.2	385.6	242.0	204.8	167.1	161.3	155.6	153.8	151.6	147.6
72.5°	967.1	526.1	383.8	241.6	195.0	148.5	143.2	137.8	135.6	133.0	129.9
75°	792.0	493.8	364.3	234.9	181.7	128.1	123.2	118.3	116.6	114.4	111.7
77.5°	587.7	408.7	306.3	203.9	155.6	107.3	102.4	97.1	96.6	95.7	93.5
80°	381.2	295.6	219.0	142.3	113.5	84.2	80.2	75.8	76.2	76.7	74.9
82.5°	211.9	172.4	133.9	95.3	77.6	59.8	58.1	55.8	57.2	58.1	55.8
85°	111.7	86.9	71.8	56.7	44.8	32.8	32.8	32.4	34.1	35.9	34.1
87.5°	48.3	30.6	26.2	21.3	12.0	2.2	2.7	2.7	3.5	4.4	4.0
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: P320496
 CATALOG NUMBER: GLEON-SA2D-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: P320496

CATALOG NUMBER: GLEON-SA2D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4
2.5°	3053.4	3021.0	2988.2	2952.3	2959.0	2931.5	2904.0	2886.7	2869.5	2864.1	2858.8
5°	2467.5	2430.7	2393.4	2360.2	2389.0	2369.5	2350.0	2347.3	2344.2	2344.2	2343.8
7.5°	1825.7	1786.2	1746.3	1718.8	1747.2	1743.7	1740.1	1759.2	1778.2	1793.7	1808.8
10°	1483.5	1435.6	1387.3	1346.5	1339.4	1319.0	1298.2	1302.6	1306.6	1323.5	1340.3
12.5°	1289.4	1232.2	1175.0	1127.1	1105.4	1071.7	1037.6	1016.3	995.0	997.3	999.0
15°	1068.2	1012.8	956.9	915.7	902.0	875.8	849.7	823.1	796.0	785.0	773.4
17.5°	816.9	772.5	727.8	700.3	700.3	692.8	685.2	671.9	658.2	647.1	635.6
20°	598.8	575.3	551.4	539.9	543.4	543.8	543.8	550.5	557.1	553.6	550.0
22.5°	495.5	487.1	478.7	473.8	475.6	476.0	476.5	482.7	488.4	492.9	496.9
25°	447.2	441.9	436.6	434.8	438.8	439.2	439.2	443.2	447.2	451.6	456.1
27.5°	409.5	407.3	405.1	402.0	406.0	406.0	405.6	410.0	414.0	418.0	421.5
30°	373.6	374.5	375.0	374.1	376.7	378.5	379.8	382.9	385.6	388.7	391.8
32.5°	348.4	347.0	345.7	344.8	350.6	353.7	356.8	359.9	362.6	363.9	365.2
35°	324.0	320.9	317.8	315.6	320.9	324.9	328.9	334.6	340.0	340.8	341.7
37.5°	307.6	303.6	299.6	297.0	299.2	301.0	302.7	308.9	315.1	318.7	321.8
40°	292.1	288.1	284.1	281.9	283.2	283.7	284.1	287.2	289.9	296.5	302.7
42.5°	279.7	274.8	269.9	267.3	268.2	269.0	269.5	269.0	268.6	274.8	281.0
45°	267.3	261.9	256.6	253.5	254.0	254.0	254.0	253.1	251.8	254.9	258.0
47.5°	257.5	251.3	245.1	242.0	241.1	240.2	239.3	238.9	238.0	240.2	242.0
50°	247.8	241.1	234.0	230.5	228.3	227.4	226.5	226.0	225.2	227.4	229.1
52.5°	240.2	232.3	224.3	218.5	216.3	215.0	213.6	214.1	214.1	215.0	215.4
55°	226.9	219.8	212.3	208.3	204.3	203.4	202.6	203.9	204.8	204.8	204.8
57.5°	212.3	205.7	198.6	195.9	192.4	192.4	191.9	193.7	195.0	195.9	196.8
60°	199.5	191.9	184.4	182.2	180.8	180.4	180.0	182.2	183.9	185.7	187.5
62.5°	187.5	179.5	171.5	168.9	168.4	168.9	168.9	171.1	172.9	174.6	176.4
65°	174.2	166.2	157.8	155.1	156.0	157.3	158.7	160.4	161.8	163.6	165.3
67.5°	159.6	152.9	145.8	143.2	143.6	145.4	147.2	148.5	149.4	151.1	152.9
70°	143.6	137.8	132.1	130.3	129.9	132.1	133.9	134.7	135.6	137.8	139.6
72.5°	126.3	121.4	116.6	115.2	115.7	117.0	118.3	119.7	120.6	122.8	124.5
75°	108.6	104.2	99.7	98.8	99.7	101.1	102.4	103.3	104.2	106.8	109.0
77.5°	91.3	86.4	81.1	80.7	82.0	83.3	84.2	85.5	86.9	90.4	94.0
80°	73.1	67.8	62.1	61.6	62.9	64.3	65.6	66.9	68.3	72.7	76.7
82.5°	53.6	47.4	41.2	40.3	44.8	46.1	47.4	49.6	51.4	55.4	59.4
85°	32.4	26.2	19.9	19.5	23.5	25.7	27.9	30.6	32.8	36.3	39.9
87.5°	3.5	1.8	0.0	0.0	0.4	2.2	4.0	6.2	8.4	12.0	15.1
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: P320496
 CATALOG NUMBER: GLEON-SA2D-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: P320496

CATALOG NUMBER: GLEON-SA2D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4
2.5°	2839.3	2819.4	2839.8	2859.7	2868.1	2876.6	2854.8	2832.7	2867.2	2901.4	2910.2
5°	2326.1	2307.9	2321.6	2334.9	2305.2	2275.5	2272.4	2268.9	2294.6	2320.3	2324.3
7.5°	1803.1	1797.3	1810.1	1823.0	1785.3	1747.2	1728.6	1710.0	1716.2	1722.4	1721.5
10°	1344.3	1347.9	1363.8	1379.3	1350.1	1320.8	1308.0	1295.1	1309.3	1323.0	1335.9
12.5°	1007.0	1014.6	1031.4	1047.8	1035.8	1023.4	1024.7	1026.1	1042.5	1058.4	1072.6
15°	782.3	791.2	803.1	814.7	815.1	815.1	826.6	837.7	836.4	835.0	844.8
17.5°	647.6	659.1	660.4	661.7	662.2	662.6	661.7	660.9	654.2	647.6	655.1
20°	554.5	558.5	562.0	565.1	561.1	556.7	545.6	534.5	530.1	525.7	532.8
22.5°	504.4	511.5	507.9	504.0	496.0	487.6	479.1	470.3	469.8	468.9	472.9
25°	462.3	468.0	461.8	455.6	449.9	444.1	438.4	432.6	432.1	431.7	433.5
27.5°	427.3	432.6	426.8	421.1	416.2	411.3	406.9	402.5	401.6	400.7	401.1
30°	397.1	402.0	397.1	391.8	388.3	384.3	381.2	378.1	377.6	377.2	377.2
32.5°	370.1	375.0	371.4	367.9	364.8	361.7	359.5	357.2	355.0	352.8	347.9
35°	346.6	351.5	349.3	346.6	343.1	339.5	335.5	331.1	325.3	319.1	316.5
37.5°	326.7	331.5	329.3	327.1	322.2	317.4	310.3	302.7	301.0	298.7	298.3
40°	310.7	318.2	313.8	308.9	301.4	293.9	290.3	286.8	285.9	285.0	284.1
42.5°	293.0	304.5	296.5	288.5	281.5	274.4	273.5	272.6	272.1	271.7	271.7
45°	270.8	283.2	275.2	266.8	262.8	258.8	258.8	258.8	259.3	259.3	260.2
47.5°	250.0	257.5	253.5	249.5	247.3	245.1	245.5	246.0	247.3	248.2	250.4
50°	232.3	234.9	235.8	236.2	234.9	233.6	234.5	234.9	236.2	237.1	238.9
52.5°	219.4	223.4	223.4	222.9	222.9	222.9	223.8	224.7	226.0	227.4	229.1
55°	211.0	216.7	215.0	213.2	213.6	213.6	214.5	215.4	216.7	217.6	220.3
57.5°	203.0	209.2	207.4	205.7	205.7	205.7	206.1	206.5	207.9	208.8	210.5
60°	193.7	199.9	198.1	195.9	196.4	196.8	197.2	197.2	198.1	198.6	198.6
62.5°	182.6	188.8	187.0	184.8	186.2	187.0	187.0	187.0	187.9	188.4	187.0
65°	171.1	176.8	175.1	173.3	175.1	176.4	177.3	177.7	177.3	176.8	175.5
67.5°	158.7	164.4	162.7	160.4	162.7	164.4	166.2	167.5	166.2	164.9	163.1
70°	145.4	151.1	148.9	146.7	148.9	151.1	152.9	154.7	152.9	151.1	150.7
72.5°	131.2	137.8	135.2	132.5	135.2	137.8	138.7	139.6	138.3	137.0	136.1
75°	115.7	122.3	120.1	117.5	119.7	121.9	122.3	122.8	122.8	122.3	119.7
77.5°	99.3	104.6	103.3	101.9	103.3	104.6	104.6	104.6	105.0	105.0	101.5
80°	79.8	82.9	83.3	83.8	84.2	84.7	84.2	83.8	82.9	82.0	79.8
82.5°	59.4	59.4	62.9	66.0	66.0	65.6	65.2	64.3	62.5	60.3	55.4
85°	37.7	35.5	41.2	46.5	46.5	46.1	45.2	43.9	40.3	36.3	32.4
87.5°	12.9	10.6	16.4	22.2	22.6	22.6	21.7	20.8	17.3	13.3	10.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320496
 CATALOG NUMBER: GLEON-SA2D-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: P320496

CATALOG NUMBER: GLEON-SA2D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4
2.5°	2923.5	2929.3	2934.6	2978.1	3021.0	3071.6	3122.1	3160.7	3198.8	3238.2	3277.7
5°	2338.0	2345.1	2352.2	2405.0	2457.3	2527.7	2598.2	2658.9	2719.7	2791.0	2862.4
7.5°	1733.0	1748.5	1763.6	1819.9	1875.7	1951.5	2026.9	2106.2	2185.1	2278.2	2371.3
10°	1361.2	1390.4	1419.2	1476.8	1534.5	1609.4	1683.8	1766.7	1849.6	1941.3	2032.6
12.5°	1101.9	1140.9	1179.4	1248.6	1317.7	1407.3	1496.3	1588.5	1680.3	1760.9	1841.6
15°	870.5	913.1	955.2	1028.3	1101.4	1199.8	1297.8	1398.4	1498.6	1595.2	1691.8
17.5°	679.0	714.0	748.6	810.7	872.3	967.6	1062.9	1168.4	1273.8	1391.7	1509.2
20°	547.8	562.5	577.1	621.8	666.2	743.7	820.9	928.6	1036.3	1177.2	1318.2
22.5°	480.0	487.6	494.6	516.4	537.6	587.7	637.4	732.7	827.5	981.3	1134.7
25°	439.2	445.0	450.8	464.9	479.1	503.1	527.0	593.9	660.9	812.0	962.7
27.5°	402.5	411.3	419.7	426.4	432.6	449.0	464.9	508.8	552.7	693.7	834.2
30°	375.9	379.0	382.1	392.3	402.0	418.9	435.7	466.3	496.9	616.1	734.9
32.5°	344.8	349.3	353.7	364.3	375.0	390.5	406.0	430.8	455.2	557.1	658.6
35°	316.9	321.3	325.8	336.4	346.6	363.4	379.8	400.7	421.1	509.7	598.4
37.5°	299.6	304.1	308.5	317.8	326.7	343.5	359.9	376.3	392.3	474.3	556.3
40°	285.0	289.4	293.9	302.7	311.1	327.5	343.5	357.2	371.0	447.7	524.3
42.5°	272.1	277.0	281.9	290.8	299.2	313.8	328.4	346.6	364.3	424.6	484.4
45°	261.5	266.4	270.8	280.6	290.3	304.5	318.7	343.9	369.2	412.6	456.1
47.5°	251.8	257.1	261.9	272.6	283.2	301.0	318.2	339.5	360.3	403.3	446.3
50°	242.4	248.7	254.9	267.7	280.1	309.8	339.1	342.2	344.8	395.8	446.3
52.5°	233.6	240.7	247.8	263.7	279.2	313.8	348.4	337.3	325.8	381.6	437.5
55°	224.7	230.9	236.7	256.2	275.7	301.0	326.2	311.6	296.5	355.0	413.5
57.5°	212.7	219.4	225.6	246.4	267.3	285.0	302.3	289.0	275.2	324.9	374.1
60°	200.3	207.9	215.4	242.0	268.2	265.1	261.5	258.8	255.7	291.2	326.7
62.5°	189.3	197.2	205.2	239.8	274.4	253.1	231.8	234.0	235.8	261.9	288.1
65°	178.2	186.2	193.7	211.0	228.3	219.8	211.4	215.0	218.1	243.8	269.5
67.5°	165.8	172.9	179.5	185.3	191.0	191.9	192.8	196.4	199.9	230.5	260.6
70°	152.0	157.8	163.6	167.5	171.1	172.9	174.2	178.6	183.1	216.3	249.5
72.5°	136.5	141.4	145.8	149.4	152.9	154.2	155.1	159.6	164.0	199.5	234.9
75°	119.7	123.7	127.2	130.3	133.4	135.2	137.0	140.1	143.2	181.7	219.8
77.5°	101.1	105.0	108.6	111.3	113.5	115.2	116.6	120.6	124.5	156.9	188.8
80°	78.9	83.8	88.2	90.4	92.2	92.6	92.6	96.2	99.7	122.8	145.4
82.5°	55.8	61.2	66.0	67.8	69.6	69.6	69.6	73.6	77.6	93.1	108.1
85°	32.8	38.6	43.9	45.7	47.4	48.3	48.8	50.5	51.9	62.9	73.6
87.5°	10.2	15.1	19.5	20.4	21.3	23.0	24.8	25.3	25.3	32.8	40.3
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: P320496
 CATALOG NUMBER: GLEON-SA2D-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: P320496

CATALOG NUMBER: GLEON-SA2D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4
2.5°	3322.9	3368.1	3420.8	3473.1	3517.9	3562.7	3599.9
5°	2953.2	3044.1	3155.3	3266.2	3365.0	3463.8	3578.6
7.5°	2488.7	2606.2	2750.2	2894.3	3033.9	3173.1	3349.5
10°	2152.3	2271.5	2424.0	2576.0	2732.9	2889.4	3088.9
12.5°	1938.7	2035.3	2182.9	2330.5	2514.9	2698.8	2890.7
15°	1797.7	1903.2	2046.8	2190.4	2392.1	2593.8	2814.5
17.5°	1647.5	1785.3	1969.3	2153.2	2392.1	2630.6	2890.7
20°	1490.1	1661.7	1900.1	2138.6	2460.4	2781.7	3113.7
22.5°	1333.2	1531.8	1837.6	2143.0	2563.6	2983.8	3431.9
25°	1191.8	1421.0	1799.5	2177.6	2713.9	3249.8	3805.6
27.5°	1084.6	1334.6	1784.0	2233.0	2904.5	3576.0	4212.0
30°	989.3	1243.7	1765.4	2287.1	3088.0	3888.4	4529.8
32.5°	906.8	1155.1	1729.5	2303.5	3216.1	4128.7	4798.8
35°	842.1	1085.9	1669.2	2252.5	3296.3	4340.1	5079.0
37.5°	786.3	1016.3	1600.5	2184.7	3367.7	4550.6	5394.1
40°	733.1	941.9	1541.5	2140.8	3466.0	4791.3	5727.0
42.5°	682.6	880.7	1494.1	2107.6	3557.4	5006.7	6018.2
45°	644.9	833.7	1452.0	2069.9	3616.3	5162.7	6237.6
47.5°	626.3	805.8	1429.4	2052.6	3675.3	5297.5	6419.7
50°	623.6	800.9	1455.1	2109.3	3802.9	5496.0	6628.0
52.5°	623.2	808.9	1529.1	2249.4	4040.0	5830.2	6853.6
55°	613.9	813.8	1617.3	2420.5	4358.3	6295.6	7259.2
57.5°	585.5	796.9	1708.2	2619.0	4694.7	6769.9	7716.2
60°	541.6	756.1	1783.1	2809.6	4920.7	7031.4	7892.1
62.5°	486.7	684.8	1807.9	2930.6	4914.5	6898.4	7714.8
65°	439.7	609.9	1726.4	2842.4	4665.9	6488.9	7364.2
67.5°	398.0	535.0	1522.5	2509.6	4218.6	5927.3	6918.4
70°	367.9	485.8	1259.7	2033.5	3658.9	5283.7	6402.0
72.5°	348.8	462.3	1027.0	1591.2	2969.2	4346.7	5476.1
75°	322.7	425.5	805.8	1185.6	2272.4	3359.2	4136.2
77.5°	273.9	358.6	607.2	855.9	1667.4	2478.5	2876.6
80°	211.4	277.0	417.5	558.0	1147.5	1737.0	1961.3
82.5°	150.7	193.2	253.1	312.9	762.4	1211.3	1230.0
85°	93.1	112.6	144.9	177.3	504.4	831.5	692.8
87.5°	50.1	59.8	76.7	93.1	161.3	229.6	132.1
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: P320496
 CATALOG NUMBER: GLEON-SA2D-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.

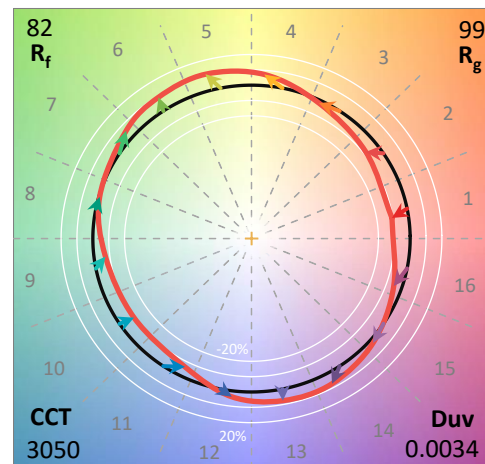
Test Information

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
 Rf: 81.5
 Rg: 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 W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /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

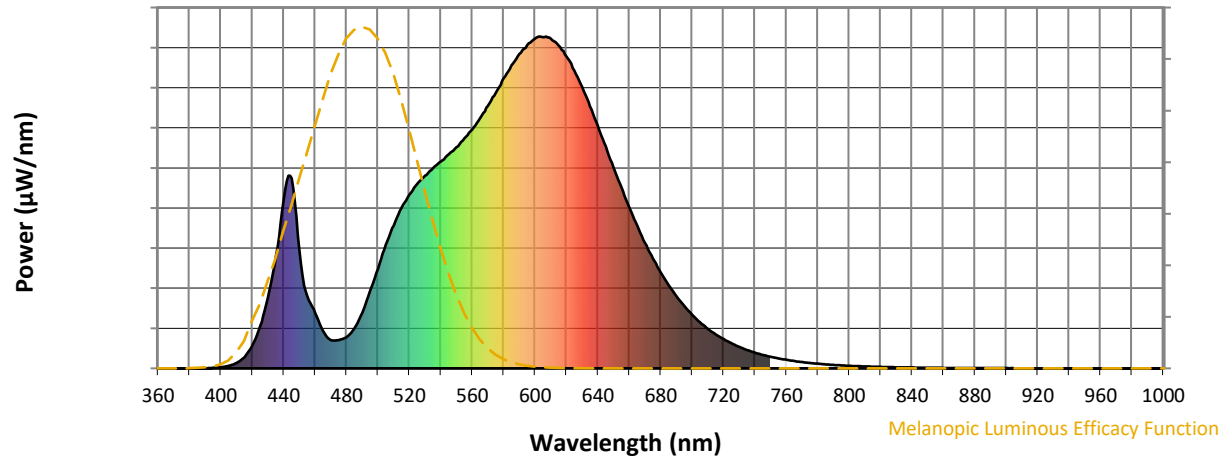


Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power W ^Λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^Λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^Λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^Λ /nm	Lumens (Φ/nm)	λ (nm)	Power W ^Λ /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

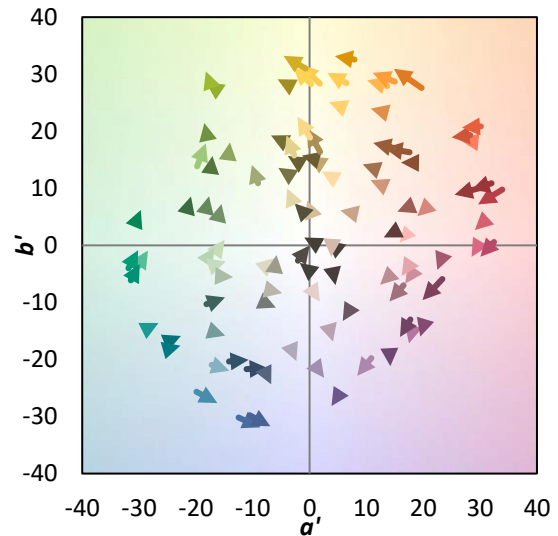
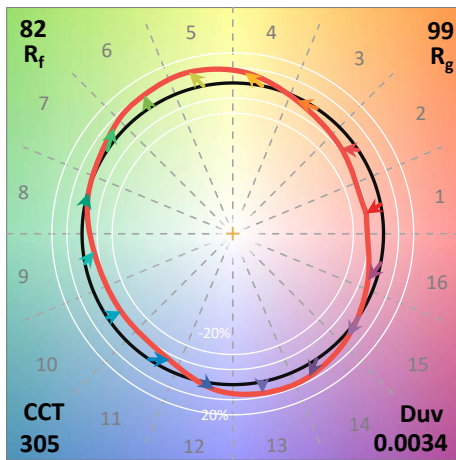
TM-30-18

Summary

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

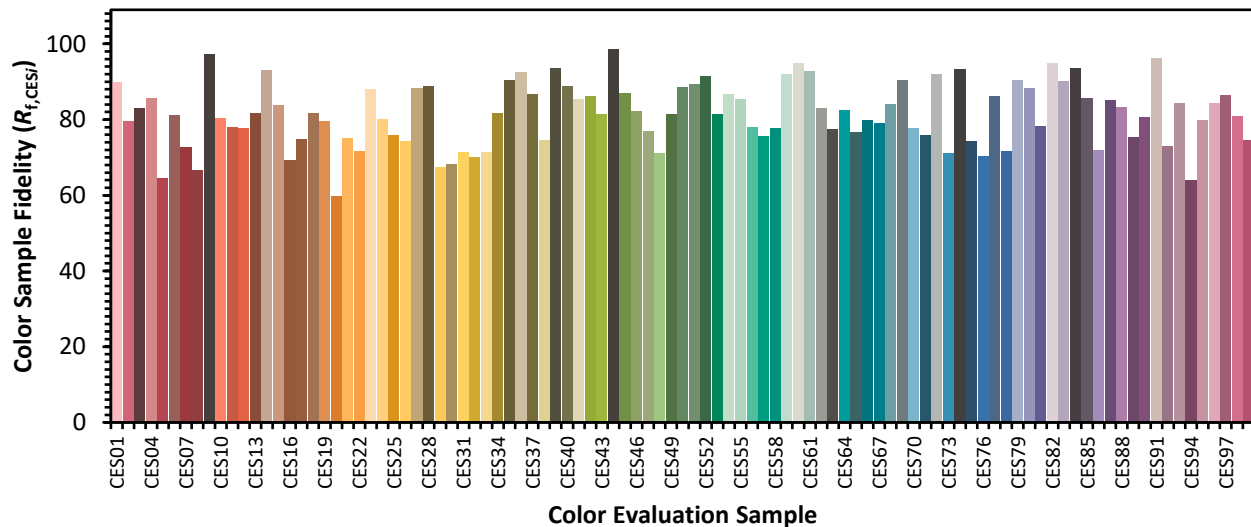


Color Vector Graphics

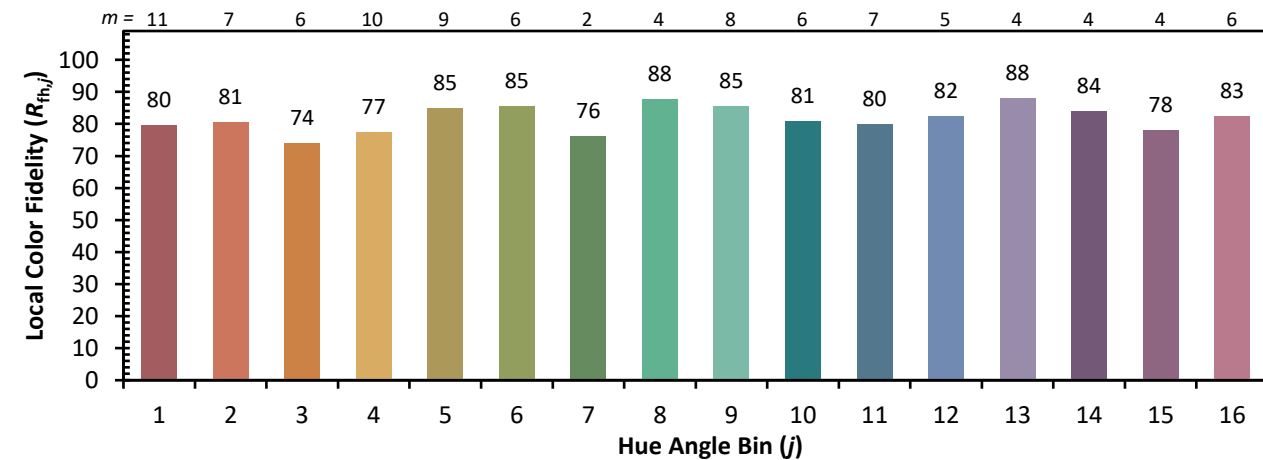


Individual Sample Fidelity Index ($R_{f,i}$)

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)