

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: P320802

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320802
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-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31984 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

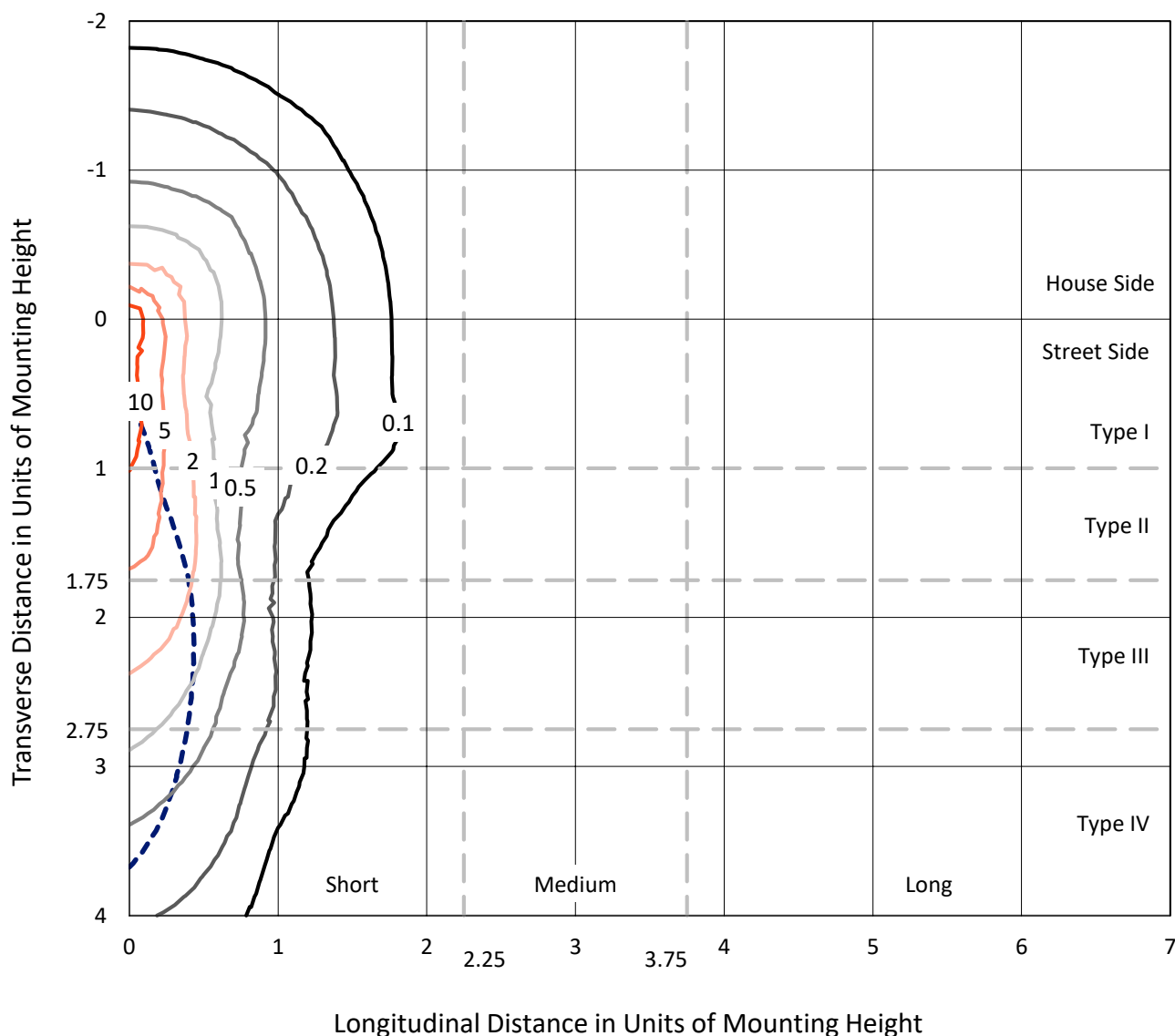
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

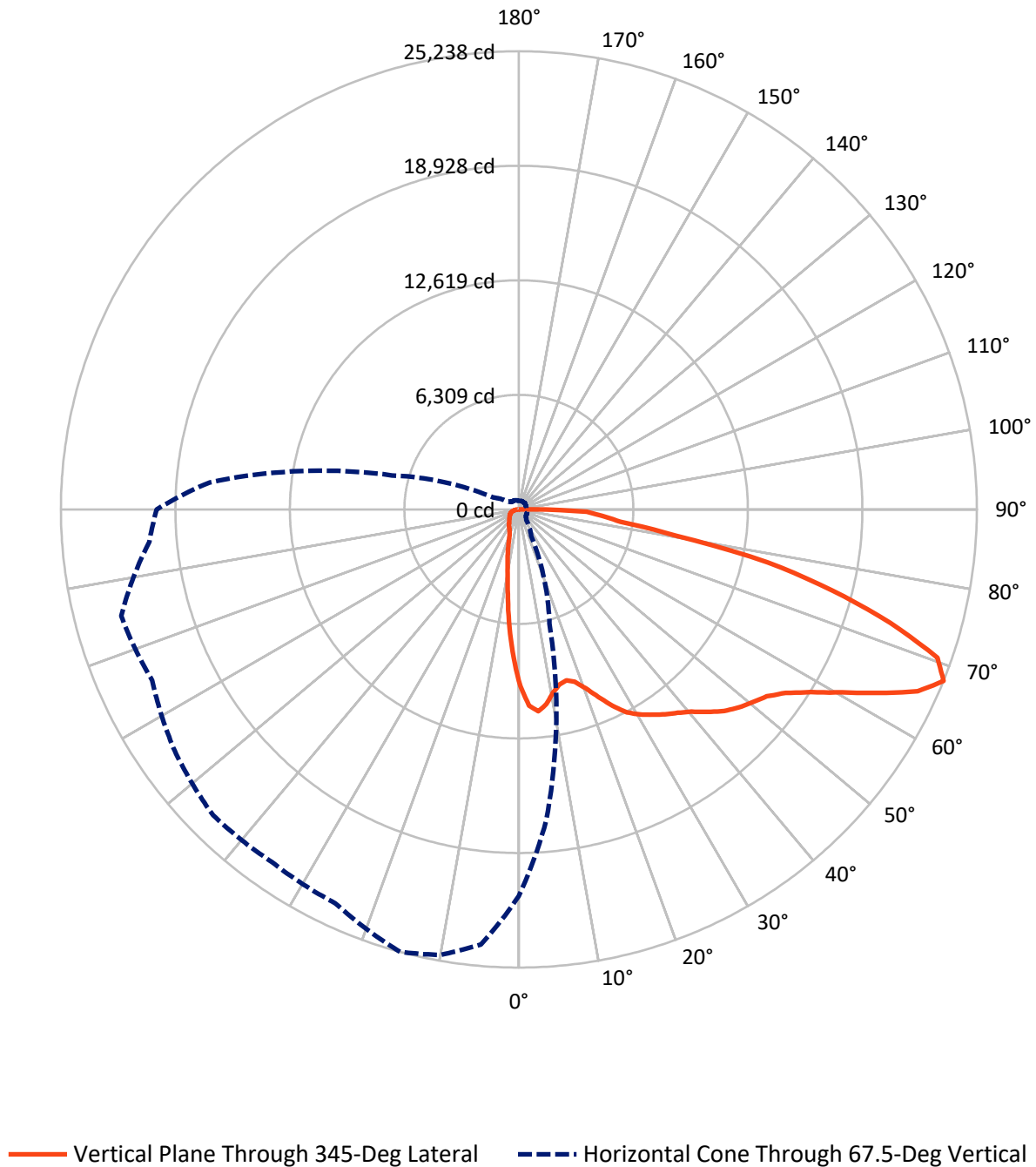
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5529.4	0.0	5529.4
	% Fixture	17.3	0.0	17.3
Street Side	Lumens	26454.6	0.0	26454.6
	% Fixture	82.7	0.0	82.7
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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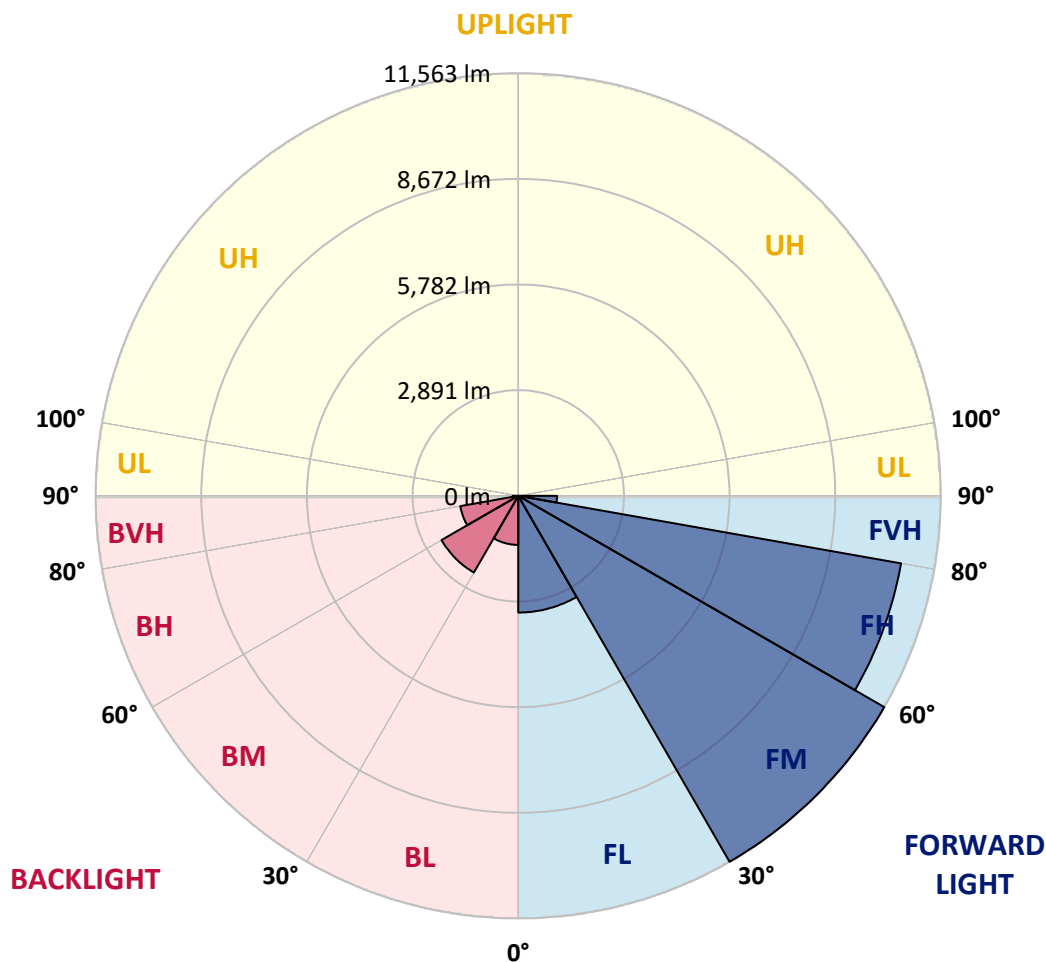
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3193.7	10.0			
FM	(30°-60°)	11563.0	36.2			
FH	(60°-80°)	10636.8	33.3			G4/12000
FVH	(80°-90°)	1061.2	3.3			G5
BL	(0°-30°)	1342.5	4.2	B3/2500		
BM	(30°-60°)	2423.4	7.6	B2/2500		
BH	(60°-80°)	1611.3	5.0	B3/2500		G3/2500
BVH	(80°-90°)	152.1	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1	9744.1
2.5°	10438.5	10346.4	10207.1	10067.7	9964.1	9859.2	9740.3	9621.4	9485.8	9349.0	9268.4
5°	10265.9	10010.1	9677.7	9345.2	9125.2	8905.3	8655.9	8406.6	8159.8	7913.0	7780.0
7.5°	9488.4	9104.8	8672.5	8240.3	7920.6	7599.7	7254.4	6907.9	6601.0	6292.8	6102.2
10°	8723.7	8263.3	7767.2	7269.7	6860.5	6451.3	6104.8	5757.0	5525.5	5294.1	5118.9
12.5°	8175.1	7664.9	7118.9	6571.5	6162.3	5753.1	5533.2	5313.2	5121.4	4929.6	4727.6
15°	7957.7	7381.0	6822.2	6262.1	5890.0	5517.8	5273.6	5028.1	4771.1	4512.7	4264.7
17.5°	8149.5	7474.3	6866.9	6259.5	5772.3	5285.1	4943.7	4601.0	4262.1	3923.2	3635.5
20°	8748.0	7886.1	7092.0	6296.6	5648.3	4999.9	4542.2	4083.1	3648.3	3213.5	2887.4
22.5°	9588.1	8447.5	7410.4	6373.3	5535.7	4696.9	4122.7	3547.3	3033.2	2519.2	2199.5
25°	10608.6	9191.7	7869.5	6546.0	5489.7	4432.2	3726.3	3020.4	2478.2	1934.8	1707.1
27.5°	11684.0	10079.2	8439.8	6799.2	5497.4	4195.6	3392.5	2588.2	2099.7	1611.2	1455.2
30°	12580.4	11093.2	9104.8	7115.0	5526.8	3938.6	3078.0	2217.4	1814.6	1411.8	1310.7
32.5°	13400.1	11800.4	9606.0	7410.4	5560.0	3708.4	2835.0	1960.3	1631.7	1301.8	1218.7
35°	14246.7	12428.3	9956.4	7483.3	5502.5	3520.4	2668.8	1817.1	1514.1	1209.7	1139.4
37.5°	15178.9	13107.3	10294.0	7479.5	5405.3	3331.2	2539.6	1746.8	1437.3	1126.6	1075.4
40°	16218.5	13857.9	10659.7	7461.6	5317.1	3171.3	2443.7	1714.8	1395.1	1074.2	1030.7
42.5°	17235.1	14574.0	10999.9	7425.8	5245.5	3063.9	2349.1	1634.3	1356.8	1078.0	1016.6
45°	17998.5	15199.3	11295.3	7390.0	5191.8	2993.6	2274.9	1556.3	1321.0	1085.7	1007.7
47.5°	18577.8	15827.2	11622.6	7416.8	5186.6	2956.5	2222.5	1488.5	1253.2	1016.6	984.6
50°	19314.4	16581.7	12099.6	7617.6	5257.0	2896.4	2161.1	1424.5	1188.0	951.4	994.9
52.5°	20231.3	17658.4	12838.7	8017.8	5404.0	2790.3	2063.9	1337.6	1108.7	878.5	946.3
55°	21577.8	19038.2	13783.7	8528.0	5581.8	2634.2	1916.9	1198.2	1003.8	808.2	868.3
57.5°	22786.2	20432.0	14690.4	8947.5	5693.0	2437.3	1731.4	1025.6	886.2	746.8	781.3
60°	23324.6	21150.7	15114.9	9077.9	5626.5	2175.2	1523.0	869.6	782.6	695.6	689.3
62.5°	23114.9	20694.2	14696.8	8699.4	5301.7	1904.1	1338.9	773.6	708.4	641.9	627.9
65°	22501.1	19259.4	13525.4	7791.5	4753.1	1714.8	1222.5	730.2	657.3	584.4	569.0
67.5°	21291.3	17217.2	11865.6	6514.0	4056.2	1598.4	1156.0	713.5	625.3	535.8	517.9
70°	19120.0	14759.4	9953.9	5147.0	3337.6	1526.8	1112.5	698.2	590.8	482.1	465.5
72.5°	15704.4	11833.6	7948.8	4062.6	2790.3	1517.9	1107.4	696.9	562.7	428.4	413.0
75°	11244.1	8988.4	6067.7	3145.7	2285.1	1424.5	1051.1	677.7	524.3	369.6	355.5
77.5°	7566.4	6221.2	4217.3	2212.3	1695.6	1179.0	883.6	588.2	448.8	309.5	295.4
80°	4859.3	4305.6	2826.1	1346.5	1099.7	852.9	631.7	410.5	327.4	243.0	231.5
82.5°	3565.2	3204.6	1964.2	723.8	611.2	497.4	386.2	274.9	223.8	172.6	167.5
85°	2266.0	2498.7	1446.3	393.9	322.2	250.6	207.2	163.7	129.2	94.6	94.6
87.5°	439.9	608.7	400.3	190.5	139.4	88.2	75.4	61.4	34.5	6.4	7.7
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°	9186.6	9098.4	9010.1	8910.4	8809.4	8716.0	8621.4	8517.8	8537.0	8457.7	8378.4
5°	7647.0	7506.3	7364.4	7241.6	7118.9	7012.7	6905.3	6809.4	6892.5	6836.2	6780.0
7.5°	5910.4	5736.5	5561.3	5414.3	5267.2	5153.4	5038.3	4959.0	5040.9	5030.6	5020.4
10°	4943.7	4774.9	4604.8	4442.4	4280.0	4141.9	4002.5	3884.9	3864.4	3805.6	3745.5
12.5°	4524.3	4292.8	4060.1	3890.0	3719.9	3555.0	3390.0	3251.9	3189.2	3092.0	2993.6
15°	4016.6	3742.9	3469.3	3276.2	3081.8	2922.0	2760.8	2641.9	2602.3	2526.8	2451.4
17.5°	3347.8	3048.6	2749.3	2553.7	2356.8	2228.9	2099.7	2020.4	2020.4	1998.7	1977.0
20°	2561.4	2294.1	2026.8	1877.2	1727.6	1659.8	1590.8	1557.5	1567.8	1569.0	1569.0
22.5°	1878.5	1714.8	1551.1	1491.0	1429.7	1405.4	1381.1	1367.0	1372.1	1373.4	1374.7
25°	1479.5	1416.9	1352.9	1322.2	1290.3	1274.9	1259.6	1254.5	1266.0	1267.3	1267.3
27.5°	1299.2	1260.9	1221.2	1202.0	1181.6	1175.2	1168.8	1159.8	1171.3	1171.3	1170.1
30°	1208.4	1167.5	1126.6	1102.3	1078.0	1080.6	1081.8	1079.3	1086.9	1092.1	1095.9
32.5°	1134.3	1094.6	1055.0	1030.7	1005.1	1001.3	997.4	994.9	1011.5	1020.5	1029.4
35°	1067.8	1024.3	980.8	957.8	934.8	925.8	916.9	910.5	925.8	937.3	948.8
37.5°	1023.0	978.3	932.2	910.5	887.5	876.0	864.4	856.8	863.2	868.3	873.4
40°	987.2	941.2	893.9	868.3	842.7	831.2	819.7	813.3	817.1	818.4	819.7
42.5°	954.0	909.2	864.4	836.3	806.9	792.8	778.8	771.1	773.6	776.2	777.5
45°	929.7	884.9	838.9	805.6	771.1	755.7	740.4	731.5	732.7	732.7	732.7
47.5°	952.7	887.5	821.0	782.6	743.0	725.1	707.2	698.2	695.6	693.1	690.5
50°	1037.1	925.8	813.3	764.7	714.8	695.6	675.2	665.0	658.6	656.0	653.4
52.5°	1012.8	916.9	819.7	757.0	693.1	670.1	647.1	630.4	624.0	620.2	616.4
55°	927.1	867.0	805.6	730.2	654.7	634.3	612.5	601.0	589.5	587.0	584.4
57.5°	814.6	790.3	766.0	689.3	612.5	593.3	572.9	565.2	555.0	555.0	553.7
60°	681.6	717.4	753.2	665.0	575.4	553.7	532.0	525.6	521.7	520.5	519.2
62.5°	612.5	671.3	728.9	635.5	540.9	517.9	494.9	487.2	485.9	487.2	487.2
65°	553.7	571.6	589.5	546.0	502.6	479.5	455.2	447.6	450.1	454.0	457.8
67.5°	500.0	496.2	492.3	477.0	460.4	441.2	420.7	413.0	414.3	419.4	424.5
70°	448.8	443.7	437.3	425.8	414.3	397.7	381.1	376.0	374.7	381.1	386.2
72.5°	397.7	391.3	383.6	374.7	364.4	350.4	336.3	332.5	333.8	337.6	341.4
75°	341.4	336.3	329.9	322.2	313.3	300.5	287.7	285.2	287.7	291.6	295.4
77.5°	280.0	278.8	276.2	269.8	263.4	249.4	234.0	232.7	236.6	240.4	243.0
80°	218.7	219.9	221.2	216.1	211.0	195.7	179.0	177.7	181.6	185.4	189.3
82.5°	161.1	165.0	167.5	161.1	154.7	136.8	118.9	116.4	129.2	133.0	136.8
85°	93.3	98.5	103.6	98.5	93.3	75.4	57.5	56.3	67.8	74.2	80.6
87.5°	7.7	10.2	12.8	11.5	10.2	5.1	0.0	0.0	1.3	6.4	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: P320802
 CATALOG NUMBER: GLEON-SA8B-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P320802

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

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°	8328.6	8278.7	8263.3	8248.0	8191.7	8134.2	8193.0	8250.6	8274.9	8299.1	8236.5
5°	6772.3	6763.4	6763.4	6762.1	6710.9	6658.5	6698.1	6736.5	6650.8	6565.2	6556.2
7.5°	5075.4	5130.4	5175.1	5218.6	5202.0	5185.4	5222.5	5259.5	5150.8	5040.9	4987.2
10°	3758.3	3769.8	3818.4	3867.0	3878.5	3888.7	3934.7	3979.5	3895.1	3810.7	3773.6
12.5°	2932.2	2870.8	2877.2	2882.3	2905.3	2927.1	2975.7	3023.0	2988.5	2952.7	2956.5
15°	2374.7	2296.7	2264.7	2231.4	2257.0	2282.6	2317.1	2350.4	2351.6	2351.6	2384.9
17.5°	1938.6	1899.0	1867.0	1833.7	1868.3	1901.5	1905.4	1909.2	1910.5	1911.7	1909.2
20°	1588.2	1607.4	1597.2	1586.9	1599.7	1611.2	1621.5	1630.4	1618.9	1606.1	1574.2
22.5°	1392.6	1409.2	1422.0	1433.5	1455.2	1475.7	1465.5	1453.9	1430.9	1406.6	1382.3
25°	1278.8	1290.3	1303.1	1315.8	1333.7	1350.4	1332.5	1314.6	1297.9	1281.3	1264.7
27.5°	1182.9	1194.4	1205.9	1216.1	1232.7	1248.1	1231.4	1214.8	1200.8	1186.7	1173.9
30°	1104.8	1112.5	1121.5	1130.4	1145.8	1159.8	1145.8	1130.4	1120.2	1108.7	1099.7
32.5°	1038.4	1046.0	1049.9	1053.7	1067.8	1081.8	1071.6	1061.4	1052.4	1043.5	1037.1
35°	965.5	980.8	983.4	985.9	1000.0	1014.1	1007.7	1000.0	989.8	979.5	968.0
37.5°	891.3	909.2	919.4	928.4	942.4	956.5	950.1	943.7	929.7	915.6	895.1
40°	828.6	836.3	855.5	873.4	896.4	918.1	905.4	891.3	869.6	847.8	837.6
42.5°	776.2	774.9	792.8	810.7	845.3	878.5	855.5	832.5	812.0	791.6	789.0
45°	730.2	726.3	735.3	744.2	781.3	817.1	794.1	769.8	758.3	746.8	746.8
47.5°	689.3	686.7	693.1	698.2	721.2	743.0	731.5	719.9	713.5	707.2	708.4
50°	652.2	649.6	656.0	661.1	670.1	677.7	680.3	681.6	677.7	673.9	676.5
52.5°	617.6	617.6	620.2	621.5	633.0	644.5	644.5	643.2	643.2	643.2	645.8
55°	588.2	590.8	590.8	590.8	608.7	625.3	620.2	615.1	616.4	616.4	618.9
57.5°	558.8	562.7	565.2	567.8	585.7	603.6	598.5	593.3	593.3	593.3	594.6
60°	525.6	530.7	535.8	540.9	558.8	576.7	571.6	565.2	566.5	567.8	569.0
62.5°	493.6	498.7	503.8	508.9	526.8	544.8	539.6	533.2	537.1	539.6	539.6
65°	462.9	466.7	471.9	477.0	493.6	510.2	505.1	500.0	505.1	508.9	511.5
67.5°	428.4	430.9	436.1	441.2	457.8	474.4	469.3	462.9	469.3	474.4	479.5
70°	388.7	391.3	397.7	402.8	419.4	436.1	429.7	423.3	429.7	436.1	441.2
72.5°	345.3	347.8	354.2	359.3	378.5	397.7	390.0	382.3	390.0	397.7	400.3
75°	298.0	300.5	308.2	314.6	333.8	352.9	346.5	338.9	345.3	351.7	352.9
77.5°	246.8	250.6	260.9	271.1	286.4	301.8	298.0	294.1	298.0	301.8	301.8
80°	193.1	196.9	209.7	221.2	230.2	239.1	240.4	241.7	243.0	244.2	243.0
82.5°	143.2	148.3	159.8	171.4	171.4	171.4	181.6	190.5	190.5	189.3	188.0
85°	88.2	94.6	104.9	115.1	108.7	102.3	118.9	134.3	134.3	133.0	130.4
87.5°	17.9	24.3	34.5	43.5	37.1	30.7	47.3	63.9	65.2	65.2	62.7
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: P320802
 CATALOG NUMBER: GLEON-SA8B-830-U-SLR

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P320802

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

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°	8172.6	8272.3	8370.8	8396.3	8434.7	8451.3	8466.7	8592.0	8716.0	8861.8	9007.6
5°	6546.0	6620.1	6694.3	6705.8	6745.5	6765.9	6786.4	6938.5	7089.4	7292.8	7496.1
7.5°	4933.5	4951.4	4969.3	4966.7	4999.9	5044.7	5088.2	5250.6	5411.7	5630.4	5847.8
10°	3736.5	3777.5	3817.1	3854.2	3927.1	4011.5	4094.6	4260.8	4427.1	4643.2	4858.0
12.5°	2960.3	3007.6	3053.7	3094.6	3179.0	3291.5	3402.8	3602.3	3801.8	4060.1	4317.1
15°	2416.9	2413.0	2409.2	2437.3	2511.5	2634.2	2755.7	2966.7	3177.7	3461.6	3744.2
17.5°	1906.6	1887.4	1868.3	1890.0	1959.1	2060.1	2159.8	2338.9	2516.6	2791.5	3066.5
20°	1542.2	1529.4	1516.6	1537.1	1580.5	1622.7	1664.9	1794.1	1922.0	2145.8	2368.3
22.5°	1356.8	1355.5	1352.9	1364.4	1384.9	1406.6	1427.1	1489.8	1551.1	1695.6	1838.9
25°	1248.1	1246.8	1245.5	1250.6	1267.3	1283.9	1300.5	1341.4	1382.3	1451.4	1520.4
27.5°	1161.1	1158.6	1156.0	1157.3	1161.1	1186.7	1211.0	1230.2	1248.1	1295.4	1341.4
30°	1090.8	1089.5	1088.2	1088.2	1084.4	1093.3	1102.3	1131.7	1159.8	1208.4	1257.0
32.5°	1030.7	1024.3	1017.9	1003.8	994.9	1007.7	1020.5	1051.1	1081.8	1126.6	1171.3
35°	955.2	938.6	920.7	913.0	914.3	927.1	939.9	970.6	1000.0	1048.6	1095.9
37.5°	873.4	868.3	861.9	860.6	864.4	877.2	890.0	916.9	942.4	991.0	1038.4
40°	827.4	824.8	822.2	819.7	822.2	835.0	847.8	873.4	897.7	945.0	991.0
42.5°	786.4	785.2	783.9	783.9	785.2	799.2	813.3	838.9	863.2	905.4	947.6
45°	746.8	748.1	748.1	750.6	754.5	768.5	781.3	809.5	837.6	878.5	919.4
47.5°	709.7	713.5	716.1	722.5	726.3	741.7	755.7	786.4	817.1	868.3	918.1
50°	677.7	681.6	684.1	689.3	699.5	717.4	735.3	772.4	808.2	893.9	978.3
52.5°	648.3	652.2	656.0	661.1	673.9	694.4	714.8	760.9	805.6	905.4	1005.1
55°	621.5	625.3	627.9	635.5	648.3	666.2	682.9	739.1	795.4	868.3	941.2
57.5°	595.9	599.7	602.3	607.4	613.8	633.0	650.9	711.0	771.1	822.2	872.1
60°	569.0	571.6	572.9	572.9	578.0	599.7	621.5	698.2	773.6	764.7	754.5
62.5°	539.6	542.2	543.5	539.6	546.0	569.0	592.1	691.8	791.6	730.2	668.8
65°	512.8	511.5	510.2	506.4	514.1	537.1	558.8	608.7	658.6	634.3	610.0
67.5°	483.4	479.5	475.7	470.6	478.3	498.7	517.9	534.5	551.1	553.7	556.3
70°	446.3	441.2	436.1	434.8	438.6	455.2	471.9	483.4	493.6	498.7	502.6
72.5°	402.8	399.0	395.1	392.6	393.9	407.9	420.7	430.9	441.2	445.0	447.6
75°	354.2	354.2	352.9	345.3	345.3	356.8	367.0	376.0	384.9	390.0	395.1
77.5°	301.8	303.1	303.1	292.8	291.6	303.1	313.3	321.0	327.4	332.5	336.3
80°	241.7	239.1	236.6	230.2	227.6	241.7	254.5	260.9	266.0	267.3	267.3
82.5°	185.4	180.3	173.9	159.8	161.1	176.5	190.5	195.7	200.8	200.8	200.8
85°	126.6	116.4	104.9	93.3	94.6	111.3	126.6	131.7	136.8	139.4	140.7
87.5°	60.1	49.9	38.4	29.4	29.4	43.5	56.3	58.8	61.4	66.5	71.6
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



REPORT NUMBER: P320802
 CATALOG NUMBER: GLEON-SA8B-830-U-SLR

CANDELA DISTRIBUTION (continued):

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



REPORT NUMBER: P320802

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

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°	9118.8	9228.8	9342.6	9456.4	9586.9	9717.3	9869.5	10020.4	10149.5	10278.7	10386.1
5°	7671.3	7846.5	8052.3	8258.2	8520.4	8782.5	9103.5	9423.2	9708.3	9993.5	10324.7
7.5°	6076.7	6304.3	6572.8	6841.4	7180.2	7519.1	7934.7	8350.3	8753.1	9154.6	9663.6
10°	5097.1	5336.3	5601.0	5864.4	6209.7	6553.6	6993.5	7432.2	7884.8	8336.2	8911.7
12.5°	4583.1	4847.8	5080.5	5313.2	5593.3	5872.1	6297.9	6723.7	7255.7	7786.4	8340.1
15°	4034.5	4323.5	4602.3	4881.0	5186.6	5491.0	5905.3	6319.6	6901.5	7483.3	8120.1
17.5°	3370.8	3675.2	4015.3	4354.2	4753.1	5150.8	5681.5	6212.2	6901.5	7589.4	8340.1
20°	2679.0	2989.7	3396.4	3803.0	4299.2	4794.1	5482.0	6170.0	7098.4	8025.5	8983.3
22.5°	2113.8	2387.4	2831.2	3273.6	3846.5	4419.4	5301.7	6182.8	7396.3	8608.6	9901.4
25°	1713.5	1906.6	2342.7	2777.5	3438.6	4099.7	5191.8	6282.5	7829.8	9375.9	10979.4
27.5°	1468.0	1594.6	2001.3	2406.6	3129.1	3850.3	5147.0	6442.4	8379.7	10317.0	12152.1
30°	1345.3	1433.5	1777.5	2120.2	2854.2	3588.2	5093.3	6598.4	8909.1	11218.6	13068.9
32.5°	1243.0	1313.3	1607.4	1900.2	2616.3	3332.4	4989.7	6645.7	9278.7	11911.6	13845.1
35°	1156.0	1214.8	1470.6	1726.3	2429.6	3133.0	4815.8	6498.7	9510.1	12521.6	14653.3
37.5°	1085.7	1131.7	1368.3	1604.8	2268.5	2932.2	4617.6	6303.0	9716.0	13129.0	15562.5
40°	1030.7	1070.3	1291.5	1512.8	2115.1	2717.4	4447.5	6176.4	9999.9	13823.4	16522.9
42.5°	1000.0	1051.1	1225.1	1397.7	1969.3	2540.9	4310.7	6080.5	10263.3	14444.9	17363.0
45°	992.3	1065.2	1190.5	1315.8	1860.6	2405.3	4189.2	5971.8	10433.4	14895.0	17996.0
47.5°	979.5	1039.6	1163.7	1287.7	1806.9	2324.8	4124.0	5921.9	10603.5	15283.7	18521.6
50°	987.2	994.9	1141.9	1287.7	1799.2	2310.7	4198.2	6085.6	10971.8	15856.6	19122.6
52.5°	973.1	939.9	1101.0	1262.1	1797.9	2333.7	4411.7	6489.7	11655.9	16820.8	19773.5
55°	899.0	855.5	1024.3	1193.1	1771.1	2347.8	4666.2	6983.3	12574.0	18163.5	20943.5
57.5°	833.8	794.1	937.3	1079.3	1689.2	2299.2	4928.3	7556.2	13544.6	19531.8	22261.9
60°	746.8	737.8	840.1	942.4	1562.6	2181.6	5144.4	8106.1	14196.8	20286.2	22769.6
62.5°	675.2	680.3	755.7	831.2	1404.1	1975.7	5216.1	8455.2	14178.9	19902.6	22258.1
65°	620.2	629.1	703.3	777.5	1268.5	1759.6	4980.8	8200.7	13461.5	18721.0	21246.6
67.5°	566.5	576.7	665.0	751.9	1148.3	1543.5	4392.5	7240.3	12171.2	17100.9	19960.2
70°	515.3	528.1	624.0	719.9	1061.4	1401.5	3634.2	5866.9	10556.2	15244.1	18470.4
72.5°	460.4	473.1	575.4	677.7	1006.4	1333.7	2962.9	4590.7	8566.4	12540.8	15799.1
75°	404.1	413.0	524.3	634.3	930.9	1227.6	2324.8	3420.7	6556.2	9691.7	11933.4
77.5°	347.8	359.3	452.7	544.8	790.3	1034.5	1751.9	2469.3	4810.7	7150.8	8299.1
80°	277.5	287.7	354.2	419.4	610.0	799.2	1204.6	1610.0	3310.7	5011.5	5658.5
82.5°	212.3	223.8	268.5	312.0	434.8	557.5	730.2	902.8	2199.5	3494.8	3548.6
85°	145.8	149.6	181.6	212.3	268.5	324.8	418.2	511.5	1455.2	2399.0	1998.7
87.5°	72.9	72.9	94.6	116.4	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	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: P320802
 CATALOG NUMBER: GLEON-SA8B-830-U-SLR

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P320802

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

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°	10522.9	10616.3	10710.9	10782.5	10855.4	10960.2	11065.1	11084.3	11104.7	11063.8	11022.9
5°	10658.5	10941.1	11225.0	11487.1	11749.2	11906.5	12063.8	12095.8	12127.8	12029.3	11929.5
7.5°	10155.9	10648.2	11140.6	11592.0	12043.4	12317.0	12591.9	12653.3	12716.0	12554.9	12393.7
10°	9484.6	10089.4	10694.3	11288.9	11883.5	12281.2	12678.9	12758.2	12837.5	12636.7	12435.9
12.5°	8965.4	9611.2	10256.9	10883.5	11511.4	11923.2	12334.9	12433.4	12531.8	12386.1	12239.0
15°	8805.5	9412.9	10020.4	10566.4	11113.7	11450.0	11787.6	11827.2	11868.2	11845.1	11822.1
17.5°	9095.8	9644.4	10194.3	10490.9	10788.9	10923.2	11058.7	11102.2	11146.9	11204.5	11263.3
20°	9799.1	10185.3	10572.8	10560.0	10545.9	10480.7	10414.2	10402.7	10391.2	10556.2	10722.4
22.5°	10849.0	11002.4	11157.2	10797.8	10438.5	10219.8	9999.9	9956.4	9911.7	10086.9	10263.3
25°	11988.4	11960.2	11930.8	11246.7	10561.3	10144.4	9727.5	9678.9	9630.3	9780.0	9930.8
27.5°	13116.2	12932.1	12748.0	11818.3	10888.6	10283.8	9678.9	9630.3	9581.7	9714.7	9847.7
30°	13943.6	13648.2	13352.8	12300.4	11248.0	10529.3	9810.6	9731.4	9650.8	9814.5	9978.2
32.5°	14589.4	14193.0	13796.5	12691.7	11586.8	10809.4	10031.9	9907.8	9783.8	10002.5	10221.1
35°	15233.9	14676.3	14117.5	13040.8	11962.8	11140.6	10317.0	10164.9	10012.7	10313.2	10613.7
37.5°	16044.6	15244.1	14442.3	13433.4	12424.4	11636.7	10847.7	10691.7	10535.7	10918.0	11301.7
40°	16924.4	15856.6	14788.9	13863.0	12937.2	12323.4	11708.3	11560.0	11410.4	11875.8	12341.3
42.5°	17655.8	16426.9	15198.1	14380.9	13562.5	13130.3	12696.8	12695.5	12693.0	13164.8	13636.7
45°	18250.5	16902.6	15553.6	14886.0	14217.2	13992.2	13767.1	13947.4	14127.7	14553.6	14980.7
47.5°	18694.2	17301.6	15907.8	15464.0	15020.3	15053.6	15086.8	15453.8	15820.8	16094.5	16369.4
50°	18983.2	17663.5	16342.5	16205.7	16068.9	16366.8	16666.1	17086.8	17508.8	17695.5	17882.2
52.5°	19403.9	18154.5	16903.9	17057.4	17210.8	17819.5	18428.2	18854.0	19279.9	19348.9	19419.2
55°	20377.0	19057.4	17736.4	18030.5	18325.9	19218.5	20112.3	20444.8	20777.3	20802.9	20828.4
57.5°	21759.4	20322.0	18884.7	19201.9	19519.0	20549.7	21581.6	21939.7	22299.0	22249.1	22198.0
60°	22793.9	21522.8	20250.4	20570.1	20889.8	21894.9	22900.0	23311.8	23724.8	23614.9	23504.9
62.5°	22857.8	22178.8	21498.5	21787.5	22077.8	23062.4	24047.1	24470.3	24893.6	24701.8	24510.0
65°	21841.2	22145.6	22449.9	22545.8	22641.7	23559.9	24479.3	24802.8	25127.6	25030.4	24933.3
67.5°	20441.0	21562.4	22685.2	22492.1	22299.0	22729.9	23160.9	23494.6	23828.4	23773.4	23717.2
70°	19043.3	20540.7	22038.1	21089.3	20139.2	19961.4	19783.7	20143.0	20503.6	20281.1	20057.3
72.5°	16663.5	18259.4	19856.6	18108.5	16360.4	15753.0	15145.6	15602.1	16058.7	15704.4	15348.9
75°	13080.4	14843.8	16608.5	14522.9	12437.2	11626.5	10815.7	11208.3	11600.9	11357.9	11113.7
77.5°	9737.8	11475.6	13213.4	11093.2	8971.8	8369.5	7765.9	7882.3	7999.9	7959.0	7916.8
80°	6604.8	7815.8	9028.0	7616.3	6204.5	6250.6	6297.9	6242.9	6186.6	6268.5	6350.3
82.5°	4214.8	5149.6	6085.6	5336.3	4586.9	5016.6	5446.2	5235.2	5023.0	5101.0	5180.3
85°	2405.3	3319.7	4235.3	3947.5	3658.5	3909.2	4161.1	3833.7	3506.4	3649.6	3794.1
87.5°	634.3	1836.3	3039.6	2759.6	2479.5	2154.7	1829.9	1396.4	962.9	1406.6	1850.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320802
 CATALOG NUMBER: GLEON-SA8B-830-U-SLR

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P320802

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

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°	11001.2	10979.4	10901.4	10822.1	10704.5	10607.3	10438.5
5°	11791.4	11653.3	11415.5	11176.4	10910.4	10604.8	10265.9
7.5°	12071.5	11748.0	11291.4	10833.7	10421.9	9938.5	9488.4
10°	11952.6	11467.9	10874.6	10279.9	9780.0	9223.7	8723.7
12.5°	11724.9	11209.6	10556.2	9901.4	9332.4	8735.2	8175.1
15°	11411.6	10999.9	10387.4	9774.8	9202.0	8621.4	7957.7
17.5°	11068.9	10873.3	10430.8	9987.1	9491.0	8928.3	8149.5
20°	10792.7	10864.3	10687.9	10511.4	10113.7	9622.7	8748.0
22.5°	10606.0	10950.0	11085.6	11222.4	10983.3	10599.6	9588.1
25°	10501.2	11071.5	11525.5	11980.7	11874.6	11579.2	10608.6
27.5°	10547.2	11246.7	11951.3	12657.2	12755.6	12673.8	11684.0
30°	10685.3	11393.7	12251.8	13111.1	13503.7	13613.7	12580.4
32.5°	10915.5	11609.9	12544.6	13480.7	14074.0	14424.4	13400.1
35°	11263.3	11912.9	12887.3	13861.8	14629.0	15268.4	14246.7
37.5°	11860.5	12419.3	13318.3	14218.5	15213.4	16173.7	15178.9
40°	12735.2	13130.3	13889.9	14650.7	15902.7	17199.3	16218.5
42.5°	13838.7	14042.1	14644.4	15246.6	16622.6	18130.3	17235.1
45°	15034.4	15088.1	15466.6	15846.4	17192.9	18764.5	17998.5
47.5°	16185.3	16001.1	16152.0	16302.9	17630.3	19217.2	18577.8
50°	17369.4	16856.6	16777.3	16698.0	18067.6	19750.4	19314.4
52.5°	18574.0	17728.7	17415.4	17100.9	18589.3	20457.6	20231.3
55°	19753.0	18677.6	18255.6	17833.6	19387.3	21320.8	21577.8
57.5°	20979.3	19760.7	19369.4	18978.1	20559.9	22414.1	22786.2
60°	22299.0	21091.9	20778.6	20464.0	22017.7	23595.7	23324.6
62.5°	23550.9	22591.8	22426.9	22260.6	23492.1	24503.6	23114.9
65°	24387.2	23839.9	23993.4	24148.1	24607.2	24729.9	22501.1
67.5°	23828.4	23939.7	24588.0	25237.6	24921.7	24057.3	21291.3
70°	20723.6	21391.1	22926.9	24463.9	23763.2	22255.5	19120.0
72.5°	16098.3	16848.9	19129.0	21410.3	20764.5	18918.0	15704.4
75°	11960.2	12808.1	15324.7	17841.3	16944.8	14150.8	11244.1
77.5°	8484.6	9052.3	11537.0	14022.9	12561.3	9419.3	7566.4
80°	6176.4	6002.5	7387.4	8772.3	8529.3	6230.1	4859.3
82.5°	4755.7	4331.2	4983.3	5635.5	5599.7	4323.5	3565.2
85°	3624.0	3453.9	4030.6	4607.4	4113.8	2928.4	2266.0
87.5°	2112.5	2375.9	3055.0	3735.3	2803.0	888.7	439.9
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: P320802
 CATALOG NUMBER: GLEON-SA8B-830-U-SLR

CANDELA DISTRIBUTION (continued):

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

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

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

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

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

Test Information

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

Spectral Parameters

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

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



Test Conditions

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

REPORT NUMBER: SP1-2408-195-9

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

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CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength



Photopic Lumens: NR

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

REPORT NUMBER: SP1-2408-195-9

Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 2.32

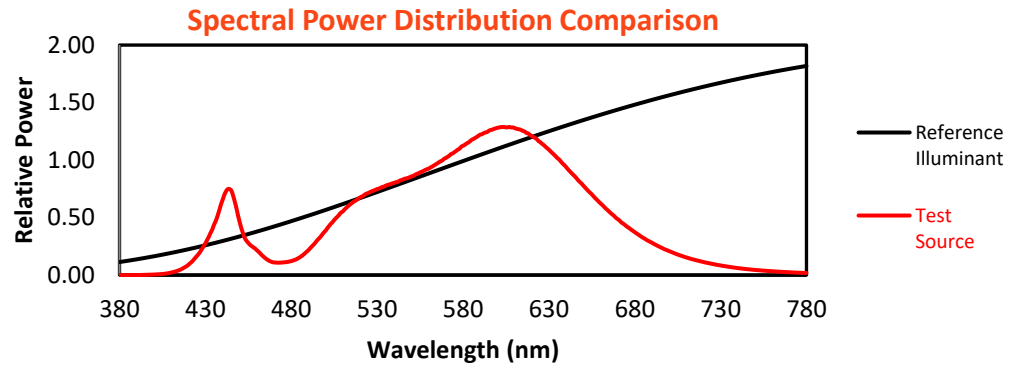
λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940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

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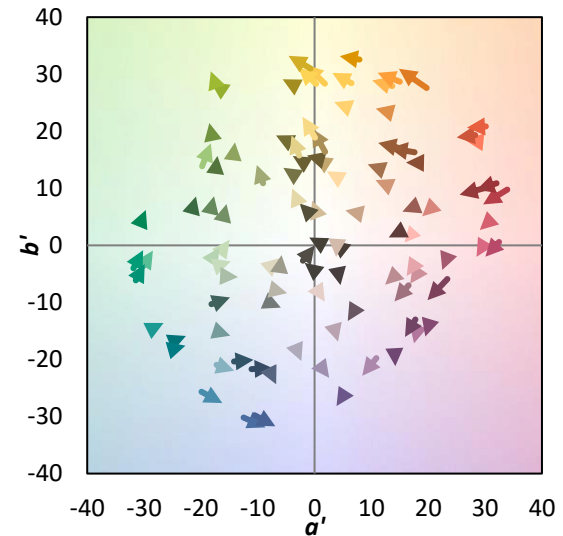
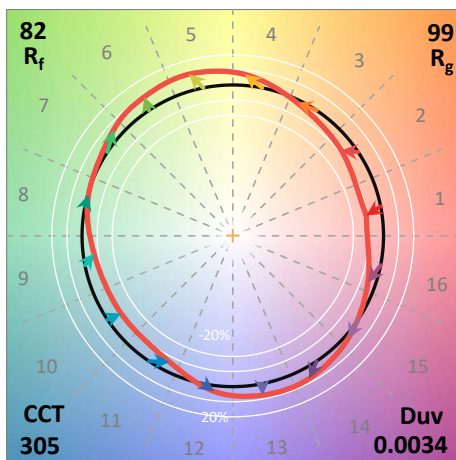
TM-30-18

Summary

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

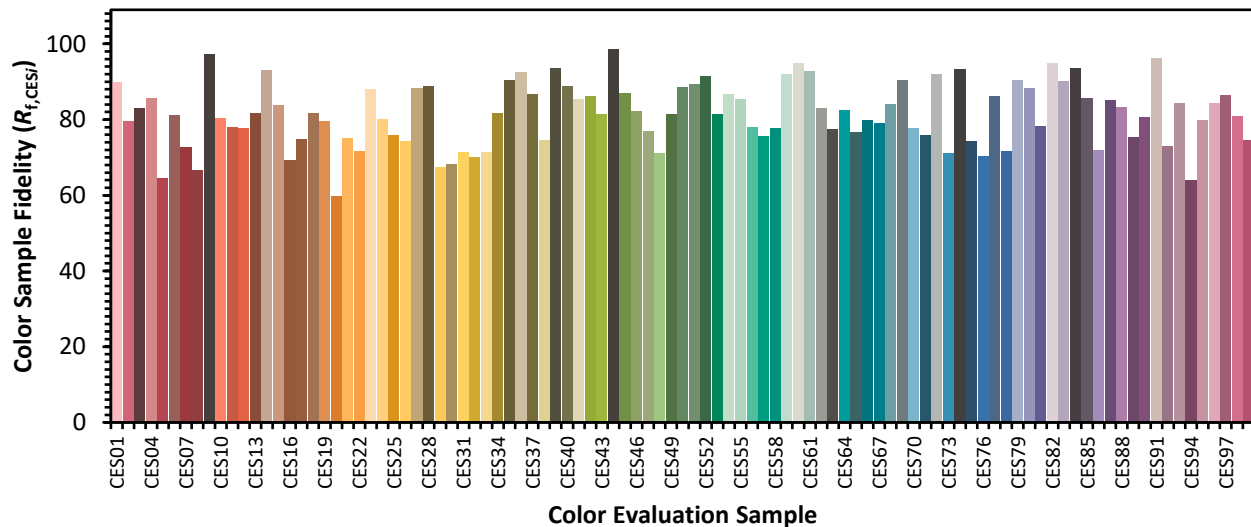


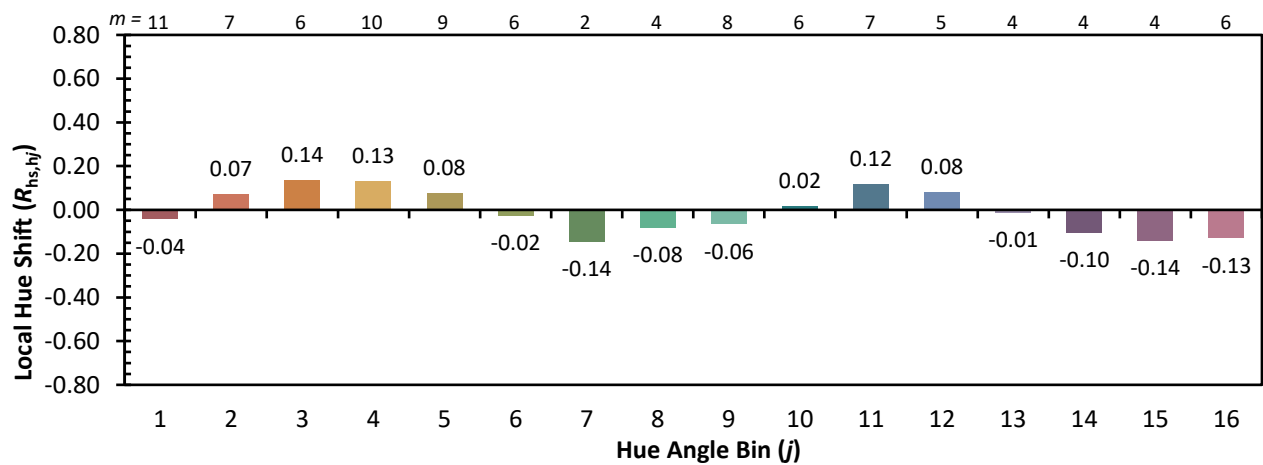
Color Vector Graphics



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

CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 94
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin


Measure Comparisons



(END OF REPORT)