

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P320813

Luminaire Tested: **GLEON-SA9C-830-U-SLR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320813
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-SA9C-830-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA 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: 44158 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

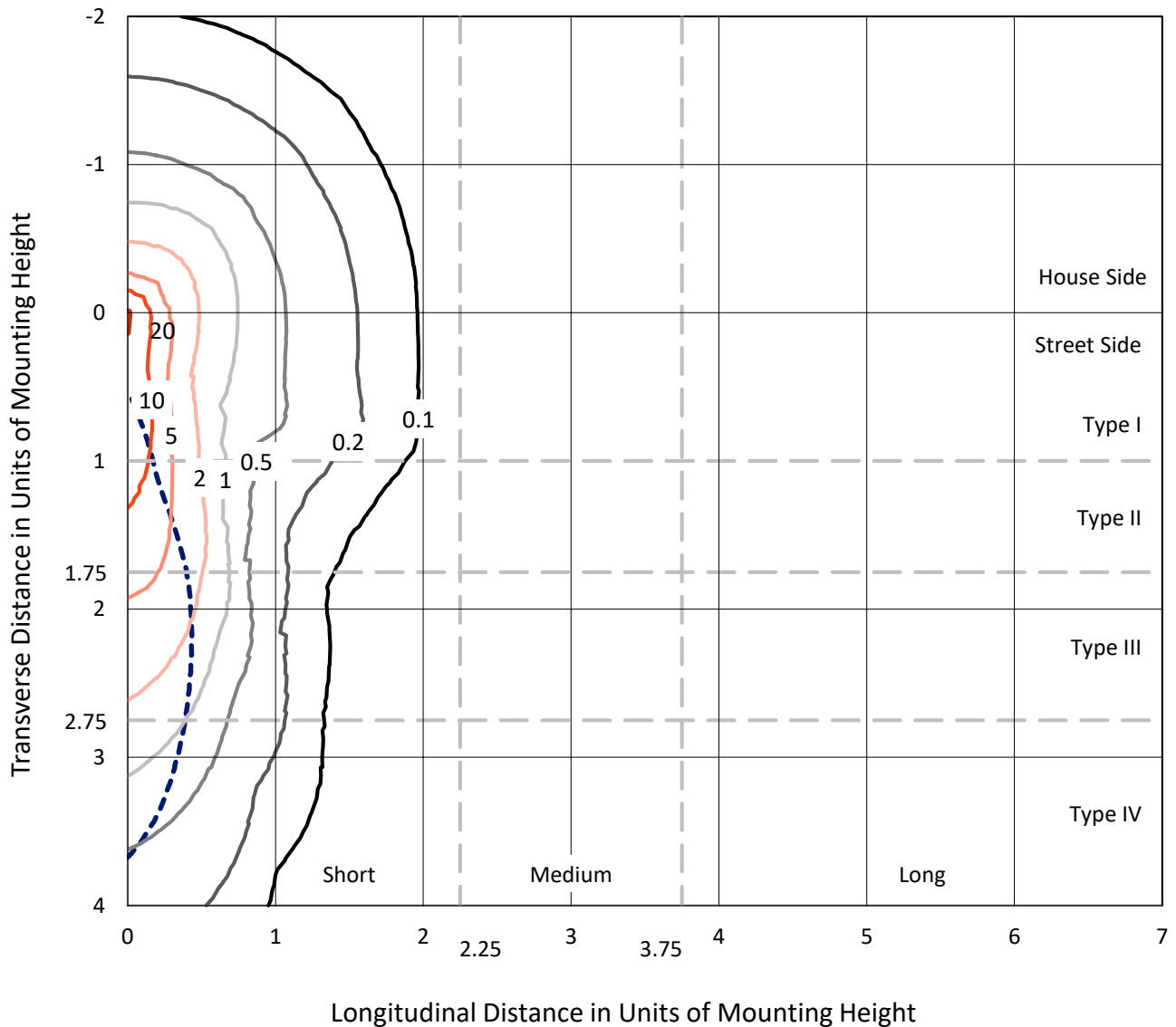
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

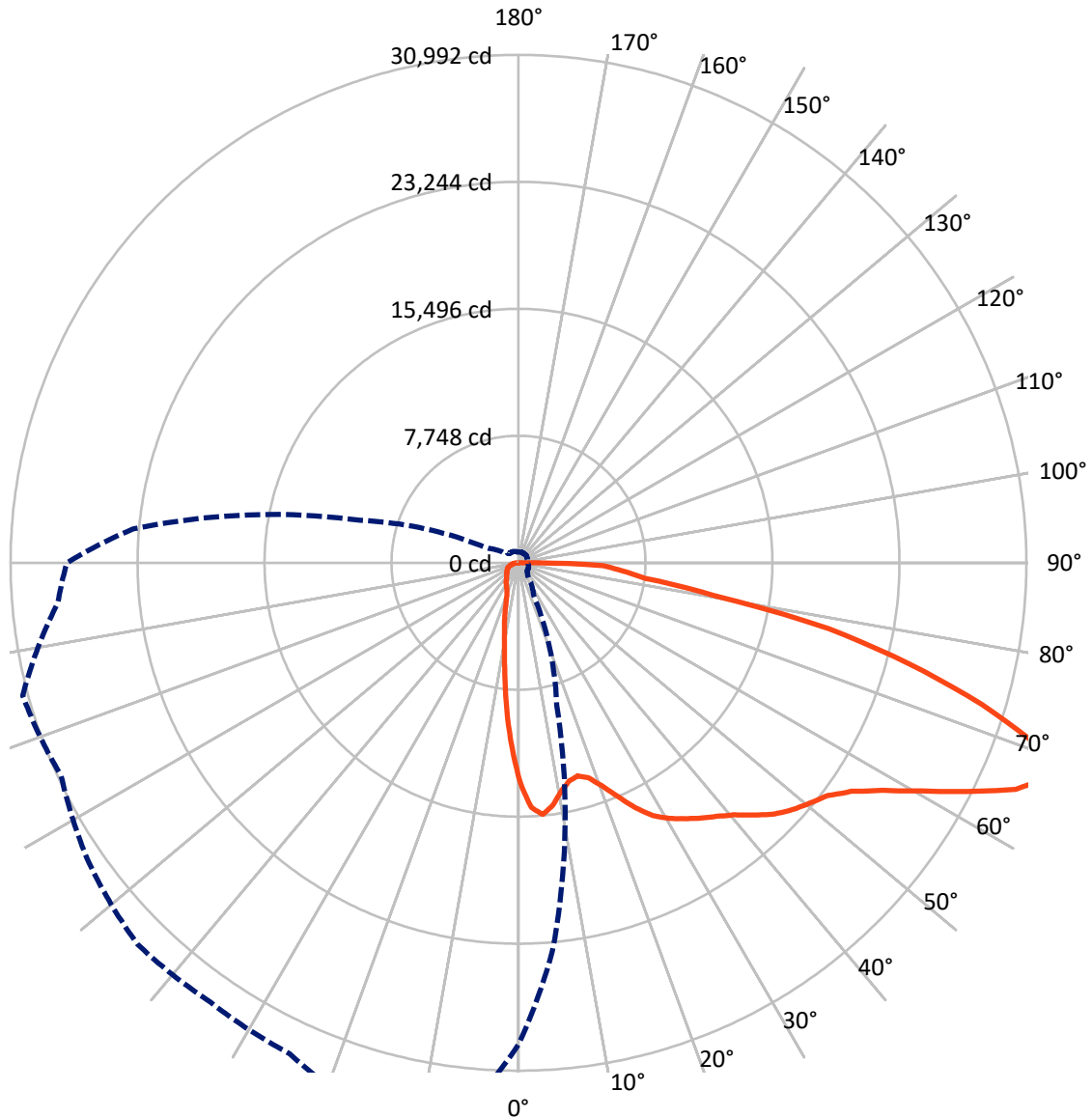
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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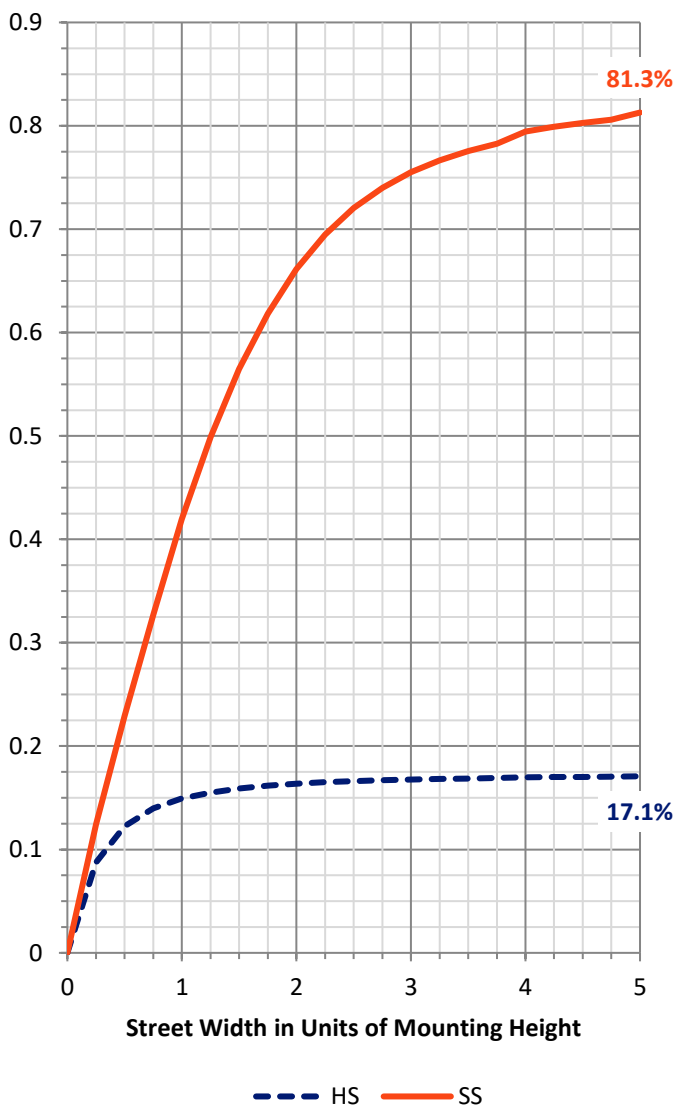
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7634.0	0.0	7634.0
	% Fixture	17.3	0.0	17.3
Street Side	Lumens	36524.0	0.0	36524.0
	% Fixture	82.7	0.0	82.7
Total	Lumens	44158.0	0.0	44158.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1038.3	2.4
10°-20°	2156.9	4.9
20°-30°	3067.6	6.9
30°-40°	4420.4	10.0
40°-50°	6229.6	14.1
50°-60°	8660.2	19.6
60°-70°	10472.7	23.7
70°-80°	6437.4	14.6
80°-90°	1675.1	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°	44158.0	100.0
0°-180°	44158.0	100.0

Coefficient of Utilization

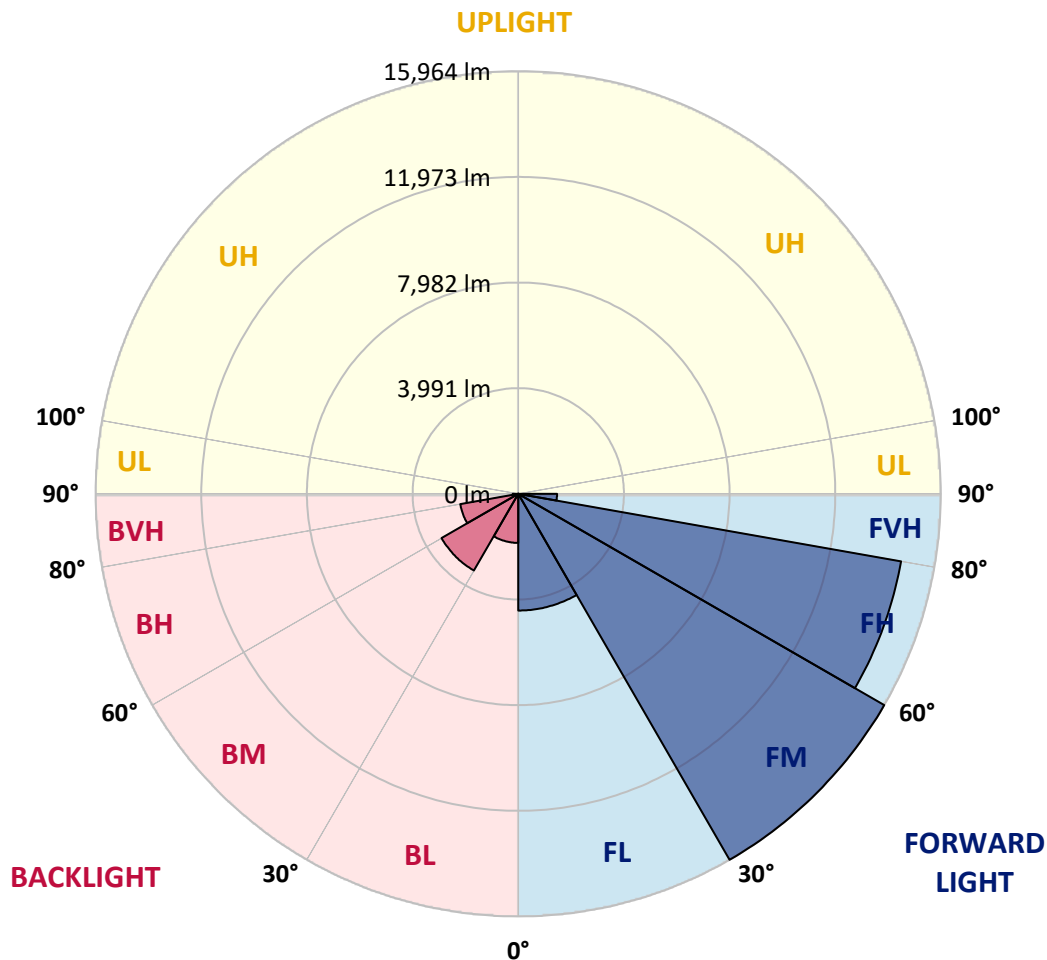


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4409.3	10.0			
FM (30°-60°)	15964.2	36.2			
FH (60°-80°)	14685.4	33.3			G5
FVH (80°-90°)	1465.1	3.3			G5
BL (0°-30°)	1853.5	4.2	B3/2500		
BM (30°-60°)	3345.9	7.6	B3/5000		
BH (60°-80°)	2224.7	5.0	B3/2500		G3/2500
BVH (80°-90°)	210.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	13453.0	13453.0	13453.0	13453.0	13453.0	13453.0	13453.0	13453.0	13453.0	13453.0	13453.0
2.5°	14411.7	14284.6	14092.1	13899.7	13756.7	13611.9	13447.7	13283.6	13096.4	12907.5	12796.3
5°	14173.4	13820.3	13361.2	12902.2	12598.5	12294.9	11950.6	11606.3	11265.6	10924.9	10741.2
7.5°	13099.9	12570.3	11973.6	11376.8	10935.5	10492.3	10015.6	9537.2	9113.5	8688.0	8424.9
10°	12044.2	11408.6	10723.6	10036.8	9471.9	8906.9	8428.5	7948.2	7628.7	7309.1	7067.3
12.5°	11286.8	10582.4	9828.5	9072.9	8507.9	7942.9	7639.3	7335.6	7070.8	6806.0	6527.0
15°	10986.6	10190.4	9418.9	8645.6	8131.9	7618.1	7280.9	6941.9	6587.0	6230.4	5887.9
17.5°	11251.5	10319.3	9480.7	8642.1	7969.4	7296.8	6825.4	6352.2	5884.4	5416.5	5019.3
20°	12077.7	10887.8	9791.4	8693.3	7798.2	6903.1	6271.0	5637.2	5036.9	4436.7	3986.5
22.5°	13237.7	11662.8	10231.0	8799.2	7642.8	6484.6	5691.9	4897.5	4187.7	3478.0	3036.6
25°	14646.5	12690.3	10864.8	9037.5	7579.3	6119.2	5144.6	4170.1	3421.5	2671.2	2356.9
27.5°	16131.3	13915.6	11652.2	9387.1	7589.8	5792.6	4683.8	3573.4	2898.9	2224.5	2009.1
30°	17368.9	15315.6	12570.3	9823.2	7630.5	5437.7	4249.5	3061.4	2505.2	1949.1	1809.6
32.5°	18500.6	16291.9	13262.4	10231.0	7676.4	5119.9	3914.1	2706.5	2252.8	1797.3	1682.5
35°	19669.3	17158.8	13746.1	10331.7	7596.9	4860.4	3684.6	2508.8	2090.3	1670.2	1573.1
37.5°	20956.4	18096.3	14212.2	10326.4	7462.7	4599.1	3506.3	2411.7	1984.4	1555.4	1484.8
40°	22391.7	19132.6	14717.1	10301.6	7340.9	4378.4	3373.9	2367.5	1926.2	1483.0	1423.0
42.5°	23795.3	20121.3	15186.8	10252.2	7242.0	4230.1	3243.2	2256.3	1873.2	1488.3	1403.6
45°	24849.3	20984.6	15594.6	10202.8	7167.9	4133.0	3140.8	2148.6	1823.8	1498.9	1391.2
47.5°	25649.1	21851.5	16046.5	10239.8	7160.8	4081.8	3068.4	2055.0	1730.2	1403.6	1359.4
50°	26666.0	22893.1	16705.1	10517.0	7257.9	3998.8	2983.7	1966.8	1640.1	1313.5	1373.6
52.5°	27931.8	24379.7	17725.5	11069.6	7461.0	3852.3	2849.5	1846.7	1530.7	1212.9	1306.5
55°	29790.9	26284.6	19030.2	11774.1	7706.4	3636.9	2646.5	1654.3	1385.9	1115.8	1198.8
57.5°	31459.3	28209.0	20282.0	12353.1	7860.0	3365.0	2390.5	1415.9	1223.5	1031.0	1078.7
60°	32202.6	29201.2	20868.1	12533.2	7768.2	3003.1	2102.7	1200.5	1080.5	960.4	951.6
62.5°	31913.0	28570.9	20290.8	12010.6	7319.7	2628.8	1848.5	1068.1	978.1	886.3	866.9
65°	31065.6	26590.1	18673.6	10757.1	6562.3	2367.5	1687.8	1008.1	907.5	806.8	785.6
67.5°	29395.4	23770.6	16382.0	8993.4	5600.1	2206.9	1596.0	985.1	863.3	739.7	715.0
70°	26397.6	20377.3	13742.6	7106.1	4607.9	2108.0	1536.0	964.0	815.7	665.6	642.6
72.5°	21682.0	16337.9	10974.3	5609.0	3852.3	2095.6	1528.9	962.2	776.8	591.4	570.3
75°	15524.0	12409.6	8377.3	4343.1	3154.9	1966.8	1451.2	935.7	723.9	510.2	490.8
77.5°	10446.4	8589.1	5822.6	3054.3	2341.0	1627.8	1220.0	812.1	619.7	427.2	407.8
80°	6708.9	5944.4	3901.7	1859.1	1518.3	1177.6	872.2	566.7	452.0	335.4	319.6
82.5°	4922.2	4424.3	2711.8	999.3	843.9	686.8	533.2	379.6	309.0	238.3	231.3
85°	3128.4	3449.8	1996.8	543.8	444.9	346.0	286.0	226.0	178.3	130.6	130.6
87.5°	607.3	840.4	552.6	263.1	192.4	121.8	104.2	84.7	47.7	8.8	10.6
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°	13453.0	13453.0	13453.0	13453.0	13453.0	13453.0	13453.0	13453.0	13453.0	13453.0	13453.0
2.5°	12683.3	12561.5	12439.6	12301.9	12162.5	12033.6	11902.9	11759.9	11786.4	11677.0	11567.5
5°	10557.6	10363.4	10167.5	9998.0	9828.5	9682.0	9533.7	9401.2	9516.0	9438.3	9360.6
7.5°	8160.1	7920.0	7678.1	7475.1	7272.1	7114.9	6956.0	6846.6	6959.6	6945.4	6931.3
10°	6825.4	6592.3	6357.5	6133.3	5909.1	5718.4	5526.0	5363.6	5335.3	5254.1	5171.1
12.5°	6246.3	5926.8	5605.4	5370.6	5135.8	4908.1	4680.3	4489.6	4403.1	4269.0	4133.0
15°	5545.4	5167.6	4789.8	4523.2	4254.8	4034.1	3811.7	3647.5	3592.8	3488.6	3384.4
17.5°	4622.1	4208.9	3795.8	3525.7	3253.8	3077.3	2898.9	2789.5	2789.5	2759.5	2729.4
20°	3536.3	3167.3	2798.3	2591.7	2385.2	2291.6	2196.3	2150.4	2164.5	2166.3	2166.3
22.5°	2593.5	2367.5	2141.5	2058.6	1973.8	1940.3	1906.7	1887.3	1894.4	1896.1	1897.9
25°	2042.7	1956.2	1867.9	1825.5	1781.4	1760.2	1739.0	1731.9	1747.8	1749.6	1749.6
27.5°	1793.7	1740.8	1686.0	1659.6	1631.3	1622.5	1613.7	1601.3	1617.2	1617.2	1615.4
30°	1668.4	1611.9	1555.4	1521.9	1488.3	1491.8	1493.6	1490.1	1500.7	1507.7	1513.0
32.5°	1566.0	1511.3	1456.5	1423.0	1387.7	1382.4	1377.1	1373.6	1396.5	1408.9	1421.2
35°	1474.2	1414.2	1354.1	1322.4	1290.6	1278.2	1265.9	1257.0	1278.2	1294.1	1310.0
37.5°	1412.4	1350.6	1287.0	1257.0	1225.3	1209.4	1193.5	1182.9	1191.7	1198.8	1205.8
40°	1363.0	1299.4	1234.1	1198.8	1163.5	1147.6	1131.7	1122.9	1128.1	1129.9	1131.7
42.5°	1317.1	1255.3	1193.5	1154.6	1114.0	1094.6	1075.2	1064.6	1068.1	1071.7	1073.4
45°	1283.5	1221.7	1158.2	1112.3	1064.6	1043.4	1022.2	1009.9	1011.6	1011.6	1011.6
47.5°	1315.3	1225.3	1133.4	1080.5	1025.8	1001.0	976.3	964.0	960.4	956.9	953.4
50°	1431.8	1278.2	1122.9	1055.8	986.9	960.4	932.2	918.1	909.2	905.7	902.2
52.5°	1398.3	1265.9	1131.7	1045.2	956.9	925.1	893.3	870.4	861.6	856.3	851.0
55°	1280.0	1197.0	1112.3	1008.1	903.9	875.7	845.7	829.8	813.9	810.4	806.8
57.5°	1124.6	1091.1	1057.5	951.6	845.7	819.2	790.9	780.3	766.2	766.2	764.5
60°	941.0	990.4	1039.9	918.1	794.5	764.5	734.4	725.6	720.3	718.6	716.8
62.5°	845.7	926.9	1006.3	877.4	746.8	715.0	683.2	672.7	670.9	672.7	672.7
65°	764.5	789.2	813.9	753.9	693.8	662.1	628.5	617.9	621.5	626.7	632.0
67.5°	690.3	685.0	679.7	658.5	635.6	609.1	580.8	570.3	572.0	579.1	586.1
70°	619.7	612.6	603.8	587.9	572.0	549.1	526.1	519.1	517.3	526.1	533.2
72.5°	549.1	540.2	529.6	517.3	503.2	483.7	464.3	459.0	460.8	466.1	471.4
75°	471.4	464.3	455.5	444.9	432.5	414.9	397.2	393.7	397.2	402.5	407.8
77.5°	386.6	384.9	381.3	372.5	363.7	344.3	323.1	321.3	326.6	331.9	335.4
80°	301.9	303.7	305.4	298.4	291.3	270.1	247.2	245.4	250.7	256.0	261.3
82.5°	222.5	227.7	231.3	222.5	213.6	188.9	164.2	160.7	178.3	183.6	188.9
85°	128.9	135.9	143.0	135.9	128.9	104.2	79.4	77.7	93.6	102.4	111.2
87.5°	10.6	14.1	17.7	15.9	14.1	7.1	0.0	0.0	1.8	8.8	15.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320813
 CATALOG NUMBER: GLEON-SA9C-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: P320813

CATALOG NUMBER: GLEON-SA9C-830-U-SLR

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	13453.0	13453.0	13453.0	13453.0	13453.0	13453.0	13453.0	13453.0	13453.0	13453.0	13453.0
2.5°	11498.6	11429.8	11408.6	11387.4	11309.7	11230.3	11311.5	11390.9	11424.5	11458.0	11371.5
5°	9350.0	9337.7	9337.7	9335.9	9265.3	9192.9	9247.6	9300.6	9182.3	9064.0	9051.7
7.5°	7007.2	7083.1	7144.9	7205.0	7182.0	7159.1	7210.3	7261.5	7111.4	6959.6	6885.4
10°	5188.8	5204.7	5271.8	5338.8	5354.7	5368.9	5432.4	5494.2	5377.7	5261.2	5210.0
12.5°	4048.3	3963.5	3972.4	3979.4	4011.2	4041.2	4108.3	4173.6	4126.0	4076.5	4081.8
15°	3278.5	3170.8	3126.7	3080.8	3116.1	3151.4	3199.1	3245.0	3246.7	3246.7	3292.6
17.5°	2676.5	2621.8	2577.6	2531.7	2579.4	2625.3	2630.6	2635.9	2637.6	2639.4	2635.9
20°	2192.7	2219.2	2205.1	2191.0	2208.6	2224.5	2238.6	2251.0	2235.1	2217.5	2173.3
22.5°	1922.6	1945.6	1963.2	1979.1	2009.1	2037.4	2023.3	2007.4	1975.6	1942.0	1908.5
25°	1765.5	1781.4	1799.0	1816.7	1841.4	1864.4	1839.6	1814.9	1792.0	1769.0	1746.1
27.5°	1633.1	1649.0	1664.9	1679.0	1701.9	1723.1	1700.2	1677.2	1657.8	1638.4	1620.7
30°	1525.4	1536.0	1548.3	1560.7	1581.9	1601.3	1581.9	1560.7	1546.6	1530.7	1518.3
32.5°	1433.6	1444.2	1449.5	1454.8	1474.2	1493.6	1479.5	1465.4	1453.0	1440.6	1431.8
35°	1332.9	1354.1	1357.7	1361.2	1380.6	1400.0	1391.2	1380.6	1366.5	1352.4	1336.5
37.5°	1230.5	1255.3	1269.4	1281.7	1301.2	1320.6	1311.8	1302.9	1283.5	1264.1	1235.8
40°	1144.0	1154.6	1181.1	1205.8	1237.6	1267.6	1250.0	1230.5	1200.5	1170.5	1156.4
42.5°	1071.7	1069.9	1094.6	1119.3	1167.0	1212.9	1181.1	1149.3	1121.1	1092.8	1089.3
45°	1008.1	1002.8	1015.2	1027.5	1078.7	1128.1	1096.4	1062.8	1046.9	1031.0	1031.0
47.5°	951.6	948.1	956.9	964.0	995.7	1025.8	1009.9	994.0	985.1	976.3	978.1
50°	900.4	896.9	905.7	912.8	925.1	935.7	939.2	941.0	935.7	930.4	933.9
52.5°	852.7	852.7	856.3	858.0	873.9	889.8	889.8	888.0	888.0	888.0	891.6
55°	812.1	815.7	815.7	815.7	840.4	863.3	856.3	849.2	851.0	851.0	854.5
57.5°	771.5	776.8	780.3	783.9	808.6	833.3	826.2	819.2	819.2	819.2	821.0
60°	725.6	732.7	739.7	746.8	771.5	796.2	789.2	780.3	782.1	783.9	785.6
62.5°	681.5	688.5	695.6	702.7	727.4	752.1	745.0	736.2	741.5	745.0	745.0
65°	639.1	644.4	651.5	658.5	681.5	704.4	697.4	690.3	697.4	702.7	706.2
67.5°	591.4	595.0	602.0	609.1	632.0	655.0	647.9	639.1	647.9	655.0	662.1
70°	536.7	540.2	549.1	556.1	579.1	602.0	593.2	584.4	593.2	602.0	609.1
72.5°	476.7	480.2	489.0	496.1	522.6	549.1	538.5	527.9	538.5	549.1	552.6
75°	411.4	414.9	425.5	434.3	460.8	487.3	478.4	467.9	476.7	485.5	487.3
77.5°	340.7	346.0	360.2	374.3	395.5	416.7	411.4	406.1	411.4	416.7	416.7
80°	266.6	271.9	289.5	305.4	317.8	330.1	331.9	333.7	335.4	337.2	335.4
82.5°	197.7	204.8	220.7	236.6	236.6	236.6	250.7	263.1	263.1	261.3	259.5
85°	121.8	130.6	144.8	158.9	150.1	141.2	164.2	185.4	185.4	183.6	180.1
87.5°	24.7	33.5	47.7	60.0	51.2	42.4	65.3	88.3	90.0	90.0	86.5
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: P320813
 CATALOG NUMBER: GLEON-SA9C-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: P320813
 CATALOG NUMBER: GLEON-SA9C-830-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	13453.0	13453.0	13453.0	13453.0	13453.0	13453.0	13453.0	13453.0	13453.0	13453.0	13453.0
2.5°	11283.3	11421.0	11556.9	11592.2	11645.2	11668.1	11689.3	11862.3	12033.6	12234.9	12436.1
5°	9037.5	9139.9	9242.3	9258.2	9313.0	9341.2	9369.5	9579.6	9787.9	10068.6	10349.3
7.5°	6811.3	6836.0	6860.7	6857.2	6903.1	6964.9	7024.9	7249.1	7471.6	7773.5	8073.6
10°	5158.8	5215.3	5270.0	5321.2	5421.8	5538.3	5653.1	5882.6	6112.1	6410.5	6707.1
12.5°	4087.1	4152.4	4216.0	4272.5	4389.0	4544.4	4698.0	4973.4	5248.8	5605.4	5960.3
15°	3336.8	3331.5	3326.2	3365.0	3467.4	3636.9	3804.6	4095.9	4387.2	4779.2	5169.4
17.5°	2632.3	2605.9	2579.4	2609.4	2704.7	2844.2	2981.9	3229.1	3474.5	3854.1	4233.6
20°	2129.2	2111.5	2093.9	2122.1	2182.1	2240.4	2298.7	2477.0	2653.5	2962.5	3269.7
22.5°	1873.2	1871.4	1867.9	1883.8	1912.0	1942.0	1970.3	2056.8	2141.5	2341.0	2538.8
25°	1723.1	1721.4	1719.6	1726.7	1749.6	1772.6	1795.5	1852.0	1908.5	2003.8	2099.2
27.5°	1603.1	1599.5	1596.0	1597.8	1603.1	1638.4	1671.9	1698.4	1723.1	1788.4	1852.0
30°	1506.0	1504.2	1502.4	1502.4	1497.1	1509.5	1521.9	1562.5	1601.3	1668.4	1735.5
32.5°	1423.0	1414.2	1405.3	1385.9	1373.6	1391.2	1408.9	1451.2	1493.6	1555.4	1617.2
35°	1318.8	1295.9	1271.2	1260.6	1262.3	1280.0	1297.6	1340.0	1380.6	1447.7	1513.0
37.5°	1205.8	1198.8	1189.9	1188.2	1193.5	1211.1	1228.8	1265.9	1301.2	1368.3	1433.6
40°	1142.3	1138.7	1135.2	1131.7	1135.2	1152.9	1170.5	1205.8	1239.4	1304.7	1368.3
42.5°	1085.8	1084.0	1082.2	1082.2	1084.0	1103.4	1122.9	1158.2	1191.7	1250.0	1308.2
45°	1031.0	1032.8	1032.8	1036.3	1041.6	1061.1	1078.7	1117.6	1156.4	1212.9	1269.4
47.5°	979.8	985.1	988.7	997.5	1002.8	1024.0	1043.4	1085.8	1128.1	1198.8	1267.6
50°	935.7	941.0	944.5	951.6	965.7	990.4	1015.2	1066.4	1115.8	1234.1	1350.6
52.5°	895.1	900.4	905.7	912.8	930.4	958.7	986.9	1050.5	1112.3	1250.0	1387.7
55°	858.0	863.3	866.9	877.4	895.1	919.8	942.8	1020.5	1098.1	1198.8	1299.4
57.5°	822.7	828.0	831.5	838.6	847.4	873.9	898.6	981.6	1064.6	1135.2	1204.1
60°	785.6	789.2	790.9	790.9	798.0	828.0	858.0	964.0	1068.1	1055.8	1041.6
62.5°	745.0	748.6	750.3	745.0	753.9	785.6	817.4	955.1	1092.8	1008.1	923.4
65°	708.0	706.2	704.4	699.1	709.7	741.5	771.5	840.4	909.2	875.7	842.1
67.5°	667.4	662.1	656.8	649.7	660.3	688.5	715.0	738.0	760.9	764.5	768.0
70°	616.2	609.1	602.0	600.3	605.6	628.5	651.5	667.4	681.5	688.5	693.8
72.5°	556.1	550.8	545.5	542.0	543.8	563.2	580.8	595.0	609.1	614.4	617.9
75°	489.0	489.0	487.3	476.7	476.7	492.6	506.7	519.1	531.4	538.5	545.5
77.5°	416.7	418.4	418.4	404.3	402.5	418.4	432.5	443.1	452.0	459.0	464.3
80°	333.7	330.1	326.6	317.8	314.3	333.7	351.3	360.2	367.2	369.0	369.0
82.5°	256.0	248.9	240.1	220.7	222.5	243.6	263.1	270.1	277.2	277.2	277.2
85°	174.8	160.7	144.8	128.9	130.6	153.6	174.8	181.8	188.9	192.4	194.2
87.5°	83.0	68.9	53.0	40.6	40.6	60.0	77.7	81.2	84.7	91.8	98.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320813
 CATALOG NUMBER: GLEON-SA9C-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: P320813

CATALOG NUMBER: GLEON-SA9C-830-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	13453.0	13453.0	13453.0	13453.0	13453.0	13453.0	13453.0	13453.0	13453.0	13453.0	13453.0
2.5°	12589.7	12741.5	12898.7	13055.8	13235.9	13416.0	13626.1	13834.4	14012.7	14191.0	14339.3
5°	10591.2	10833.1	11117.3	11401.5	11763.5	12125.4	12568.5	13009.9	13403.6	13797.3	14254.6
7.5°	8389.6	8703.9	9074.6	9445.4	9913.2	10381.1	10954.9	11528.7	12084.8	12639.1	13341.8
10°	7037.2	7367.4	7732.9	8096.5	8573.2	9048.1	9655.5	10261.0	10886.0	11509.2	12303.7
12.5°	6327.5	6693.0	7014.3	7335.6	7722.3	8107.1	8695.0	9283.0	10017.4	10750.1	11514.5
15°	5570.1	5969.1	6354.0	6738.9	7160.8	7581.0	8153.0	8725.1	9528.4	10331.7	11210.9
17.5°	4653.8	5074.0	5543.6	6011.5	6562.3	7111.4	7844.1	8576.8	9528.4	10478.2	11514.5
20°	3698.7	4127.7	4689.1	5250.6	5935.6	6618.8	7568.7	8518.5	9800.2	11080.2	12402.6
22.5°	2918.4	3296.2	3908.8	4519.7	5310.6	6101.5	7319.7	8536.1	10211.6	11885.3	13670.2
25°	2365.8	2632.3	3234.4	3834.6	4747.4	5660.2	7167.9	8673.9	10810.1	12944.6	15158.5
27.5°	2026.8	2201.6	2763.0	3322.7	4320.2	5315.9	7106.1	8894.5	11569.3	14244.0	16777.5
30°	1857.3	1979.1	2454.0	2927.2	3940.6	4954.0	7032.0	9109.9	12300.2	15488.7	18043.3
32.5°	1716.1	1813.2	2219.2	2623.5	3612.2	4600.9	6888.9	9175.3	12810.4	16445.5	19115.0
35°	1596.0	1677.2	2030.3	2383.4	3354.4	4325.5	6648.8	8972.2	13130.0	17287.7	20230.8
37.5°	1498.9	1562.5	1889.1	2215.7	3132.0	4048.3	6375.2	8702.1	13414.2	18126.3	21486.0
40°	1423.0	1477.7	1783.1	2088.6	2920.1	3751.7	6140.4	8527.3	13806.1	19085.0	22811.9
42.5°	1380.6	1451.2	1691.3	1929.7	2718.9	3508.0	5951.5	8394.9	14169.8	19943.0	23971.8
45°	1370.0	1470.7	1643.7	1816.7	2568.8	3320.9	5783.7	8244.8	14404.6	20564.4	24845.8
47.5°	1352.4	1435.3	1606.6	1777.8	2494.6	3209.7	5693.7	8176.0	14639.5	21101.1	25571.4
50°	1363.0	1373.6	1576.6	1777.8	2484.0	3190.2	5796.1	8402.0	15147.9	21892.1	26401.2
52.5°	1343.5	1297.6	1520.1	1742.5	2482.3	3222.0	6090.9	8959.9	16092.4	23223.3	27299.8
55°	1241.1	1181.1	1414.2	1647.2	2445.2	3241.4	6442.3	9641.3	17360.1	25077.0	28915.2
57.5°	1151.1	1096.4	1294.1	1490.1	2332.2	3174.4	6804.2	10432.3	18700.1	26966.1	30735.4
60°	1031.0	1018.7	1159.9	1301.2	2157.4	3011.9	7102.6	11191.4	19600.5	28007.7	31436.3
62.5°	932.2	939.2	1043.4	1147.6	1938.5	2727.7	7201.4	11673.4	19575.8	27478.1	30730.1
65°	856.3	868.6	971.0	1073.4	1751.4	2429.3	6876.6	11322.1	18585.3	25846.8	29333.6
67.5°	782.1	796.2	918.1	1038.1	1585.4	2130.9	6064.5	9996.2	16803.9	23609.9	27557.5
70°	711.5	729.1	861.6	994.0	1465.4	1935.0	5017.5	8100.1	14574.1	21046.4	25500.8
72.5°	635.6	653.2	794.5	935.7	1389.4	1841.4	4090.6	6338.1	11827.0	17314.2	21812.6
75°	557.9	570.3	723.9	875.7	1285.3	1694.9	3209.7	4722.7	9051.7	13380.7	16475.6
77.5°	480.2	496.1	625.0	752.1	1091.1	1428.3	2418.7	3409.2	6641.8	9872.6	11458.0
80°	383.1	397.2	489.0	579.1	842.1	1103.4	1663.1	2222.8	4570.9	6919.0	7812.3
82.5°	293.1	309.0	370.8	430.8	600.3	769.8	1008.1	1246.4	3036.6	4825.1	4899.2
85°	201.3	206.6	250.7	293.1	370.8	448.4	577.3	706.2	2009.1	3312.1	2759.5
87.5°	100.6	100.6	130.6	160.7	199.5	238.3	305.4	370.8	642.6	914.5	526.1
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: P320813
 CATALOG NUMBER: GLEON-SA9C-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: P320813

CATALOG NUMBER: GLEON-SA9C-830-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	13453.0	13453.0	13453.0	13453.0	13453.0	13453.0	13453.0	13453.0	13453.0	13453.0	13453.0
2.5°	14528.2	14657.1	14787.8	14886.6	14987.3	15132.0	15276.8	15303.3	15331.5	15275.0	15218.5
5°	14715.4	15105.5	15497.5	15859.4	16221.3	16438.5	16655.6	16699.8	16743.9	16608.0	16470.3
7.5°	14021.5	14701.2	15381.0	16004.2	16627.4	17005.2	17384.8	17469.5	17556.0	17333.6	17111.1
10°	13094.6	13929.7	14764.8	15585.8	16406.7	16955.8	17504.8	17614.3	17723.8	17446.6	17169.4
12.5°	12377.9	13269.4	14161.0	15026.1	15892.9	16461.4	17029.9	17165.9	17301.8	17100.5	16897.5
15°	12157.2	12995.8	13834.4	14588.3	15343.9	15808.2	16274.3	16329.0	16385.5	16353.7	16322.0
17.5°	12557.9	13315.3	14074.5	14484.1	14895.4	15080.8	15268.0	15328.0	15389.8	15469.2	15550.4
20°	13529.0	14062.1	14597.1	14579.4	14560.0	14470.0	14378.2	14362.3	14346.4	14574.1	14803.6
22.5°	14978.4	15190.3	15403.9	14907.8	14411.7	14109.8	13806.1	13746.1	13684.3	13926.2	14169.8
25°	16551.5	16512.6	16472.0	15527.5	14581.2	14005.6	13430.1	13363.0	13295.9	13502.5	13710.8
27.5°	18108.6	17854.4	17600.2	16316.7	15033.2	14198.1	13363.0	13295.9	13228.8	13412.4	13596.0
30°	19250.9	18843.1	18435.3	16982.3	15529.3	14537.1	13544.8	13435.4	13324.2	13550.1	13776.1
32.5°	20142.5	19595.2	19047.9	17522.5	15997.1	14923.7	13850.3	13679.0	13507.8	13809.7	14111.6
35°	21032.3	20262.5	19491.0	18004.5	16516.2	15381.0	14244.0	14033.9	13823.8	14238.7	14653.6
37.5°	22151.6	21046.4	19939.5	18546.5	17153.5	16066.0	14976.7	14761.3	14545.9	15073.8	15603.4
40°	23366.3	21892.1	20417.9	19139.7	17861.5	17014.0	16164.8	15960.0	15753.5	16396.1	17038.8
42.5°	24376.1	22679.5	20982.9	19854.7	18724.8	18128.1	17529.6	17527.8	17524.3	18175.7	18827.2
45°	25197.1	23336.3	21473.7	20552.1	19628.7	19318.0	19007.3	19256.2	19505.1	20093.1	20682.7
47.5°	25809.7	23887.1	21962.7	21350.1	20737.5	20783.4	20829.3	21336.0	21842.7	22220.5	22600.0
50°	26208.7	24386.7	22563.0	22374.1	22185.2	22596.5	23009.6	23590.5	24173.1	24430.9	24688.6
52.5°	26789.6	25064.7	23338.0	23549.9	23761.7	24602.1	25442.5	26030.4	26618.3	26713.6	26810.7
55°	28133.1	26311.1	24487.4	24893.4	25301.3	26533.6	27767.6	28226.7	28685.7	28721.0	28756.3
57.5°	30041.6	28057.2	26072.8	26510.6	26948.5	28371.4	29796.2	30290.5	30786.6	30717.8	30647.2
60°	31469.9	29715.0	27958.3	28399.7	28841.1	30228.7	31616.4	32184.9	32755.2	32603.3	32451.5
62.5°	31558.1	30620.7	29681.4	30080.4	30481.2	31840.6	33200.1	33784.4	34368.8	34104.0	33839.2
65°	30154.6	30574.8	30995.0	31127.4	31259.8	32527.4	33796.8	34243.5	34691.9	34557.7	34423.5
67.5°	28221.4	29769.7	31319.8	31053.2	30786.6	31381.6	31976.6	32437.4	32898.2	32822.2	32744.6
70°	26291.7	28359.1	30426.5	29116.5	27804.7	27559.3	27313.9	27810.0	28307.9	28000.7	27691.7
72.5°	23006.1	25209.4	27414.5	25001.1	22587.7	21749.1	20910.5	21540.8	22171.0	21682.0	21191.2
75°	18059.2	20493.8	22930.2	20050.7	17171.2	16051.8	14932.5	15474.5	16016.5	15681.1	15343.9
77.5°	13444.2	15843.5	18242.8	15315.6	12386.7	11555.1	10721.8	10882.5	11044.9	10988.4	10930.2
80°	9118.8	10790.7	12464.4	10515.3	8566.2	8629.7	8695.0	8619.1	8541.4	8654.4	8767.4
82.5°	5819.1	7109.6	8402.0	7367.4	6332.8	6926.0	7519.2	7227.9	6934.8	7042.5	7152.0
85°	3320.9	4583.2	5847.3	5450.1	5051.1	5397.1	5744.9	5292.9	4841.0	5038.7	5238.2
87.5°	875.7	2535.2	4196.6	3809.9	3423.3	2974.9	2526.4	1927.9	1329.4	1942.0	2554.7
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: P320813
 CATALOG NUMBER: GLEON-SA9C-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: P320813

CATALOG NUMBER: GLEON-SA9C-830-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	13453.0	13453.0	13453.0	13453.0	13453.0	13453.0	13453.0
2.5°	15188.5	15158.5	15050.8	14941.3	14778.9	14644.7	14411.7
5°	16279.6	16088.9	15760.5	15430.4	15063.2	14641.2	14173.4
7.5°	16666.2	16219.6	15589.3	14957.2	14388.8	13721.4	13099.9
10°	16502.0	15832.9	15013.7	14192.8	13502.5	12734.5	12044.2
12.5°	16187.8	15476.3	14574.1	13670.2	12884.6	12060.1	11286.8
15°	15755.2	15186.8	14341.1	13495.4	12704.5	11902.9	10986.6
17.5°	15282.1	15012.0	14401.1	13788.5	13103.5	12326.7	11251.5
20°	14900.7	14999.6	14756.0	14512.3	13963.3	13285.3	12077.7
22.5°	14643.0	15117.9	15305.0	15493.9	15163.8	14634.2	13237.7
25°	14498.2	15285.6	15912.4	16540.9	16394.3	15986.5	14646.5
27.5°	14561.8	15527.5	16500.3	17474.8	17610.8	17497.8	16131.3
30°	14752.4	15730.5	16915.2	18101.6	18643.6	18795.4	17368.9
32.5°	15070.2	16028.9	17319.5	18611.8	19431.0	19914.7	18500.6
35°	15550.4	16447.3	17792.6	19137.9	20197.2	21080.0	19669.3
37.5°	16374.9	17146.4	18387.6	19630.5	21004.0	22329.9	20956.4
40°	17582.5	18128.1	19176.8	20227.2	21955.6	23745.9	22391.7
42.5°	19106.1	19386.9	20218.4	21049.9	22949.6	25031.1	23795.3
45°	20756.9	20831.0	21353.6	21878.0	23737.0	25906.8	24849.3
47.5°	22345.8	22091.6	22299.9	22508.2	24340.8	26531.8	25649.1
50°	23980.7	23272.7	23163.2	23053.8	24944.6	27268.0	26666.0
52.5°	25643.8	24476.8	24044.2	23609.9	25664.9	28244.3	27931.8
55°	27271.5	25786.8	25204.1	24621.5	26766.6	29436.0	29790.9
57.5°	28964.6	27282.1	26741.9	26201.7	28385.6	30945.5	31459.3
60°	30786.6	29120.0	28687.5	28253.2	30398.2	32576.8	32202.6
62.5°	32515.0	31190.9	30963.2	30733.7	32433.8	33830.3	31913.0
65°	33669.7	32914.0	33125.9	33339.5	33973.3	34142.8	31065.6
67.5°	32898.2	33051.8	33946.9	34843.7	34407.7	33214.2	29395.4
70°	28611.5	29533.1	31653.5	33775.6	32808.1	30726.6	26397.6
72.5°	22225.8	23262.1	26410.0	29559.6	28668.0	26118.7	21682.0
75°	16512.6	17683.2	21157.6	24632.1	23394.5	19536.9	15524.0
77.5°	11714.0	12497.9	15928.3	19360.4	17342.4	13004.6	10446.4
80°	8527.3	8287.2	10199.2	12111.3	11775.8	8601.5	6708.9
82.5°	6565.9	5979.7	6880.1	7780.5	7731.1	5969.1	4922.2
85°	5003.4	4768.6	5564.8	6361.1	5679.6	4043.0	3128.4
87.5°	2916.6	3280.3	4217.8	5157.0	3870.0	1227.0	607.3
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: P320813
 CATALOG NUMBER: GLEON-SA9C-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

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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.

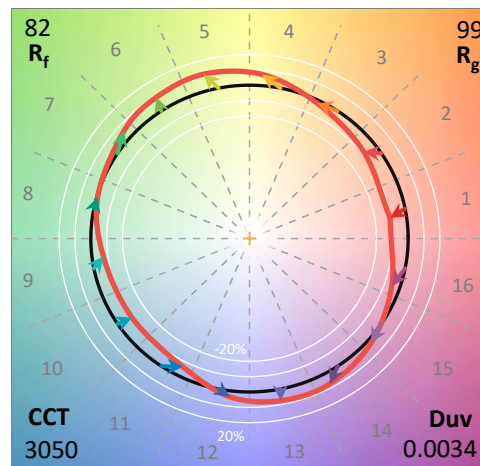
Test Information

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



Test Conditions

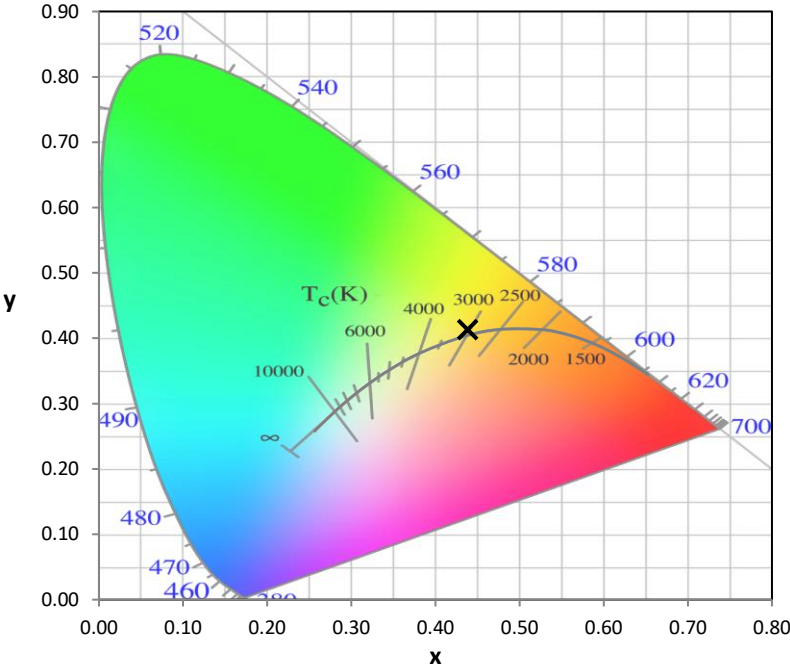
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

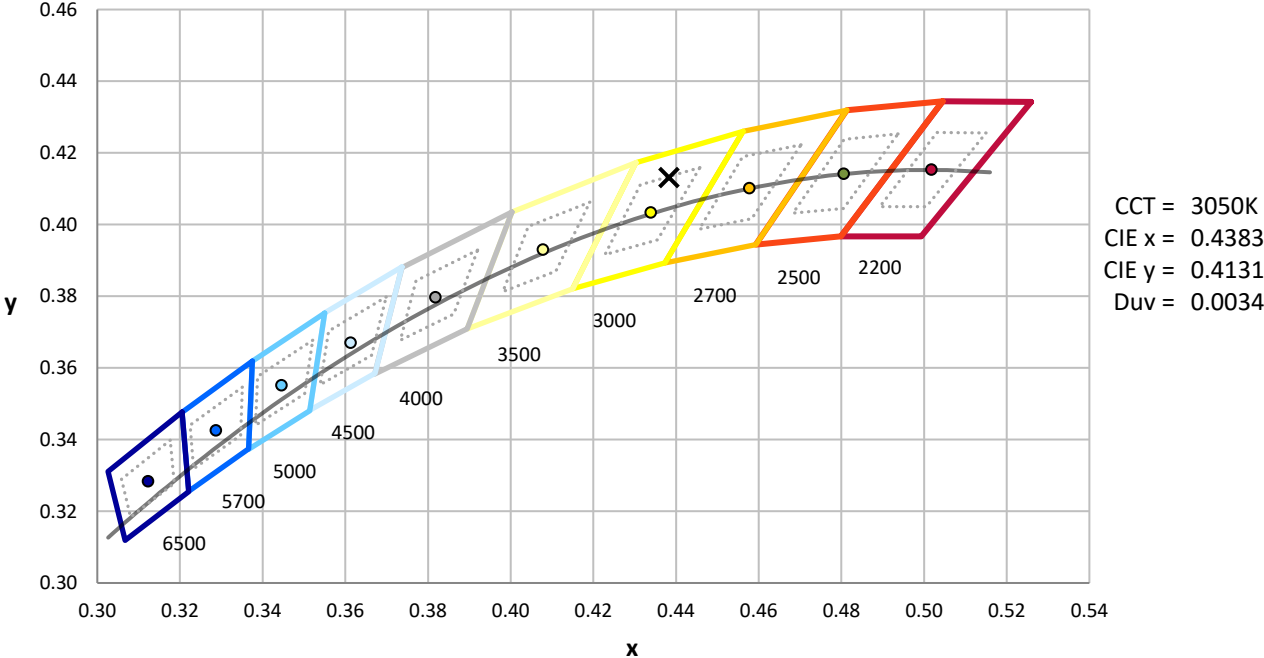
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

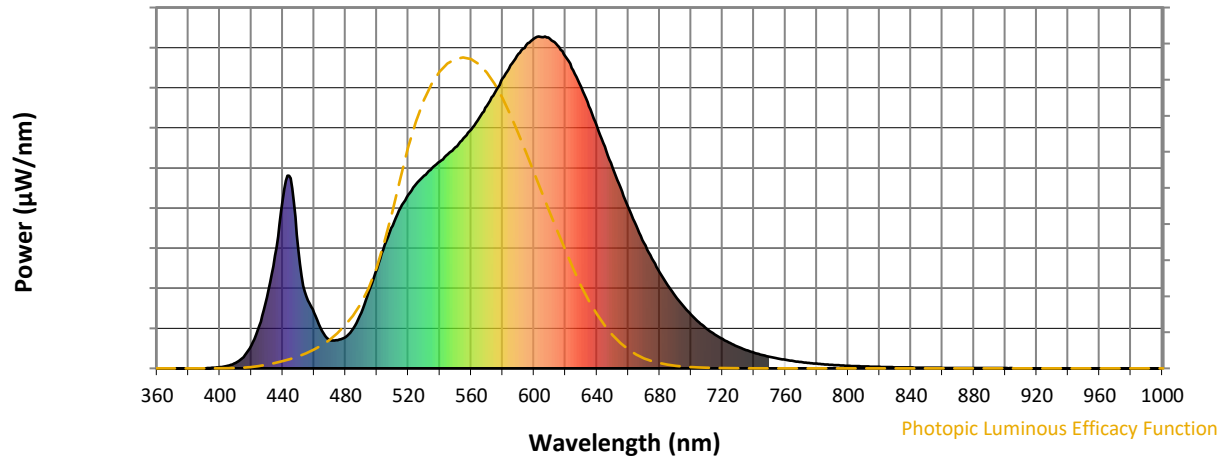


CCT = 3050K
 CIE x = 0.4383
 CIE y = 0.4131
 Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

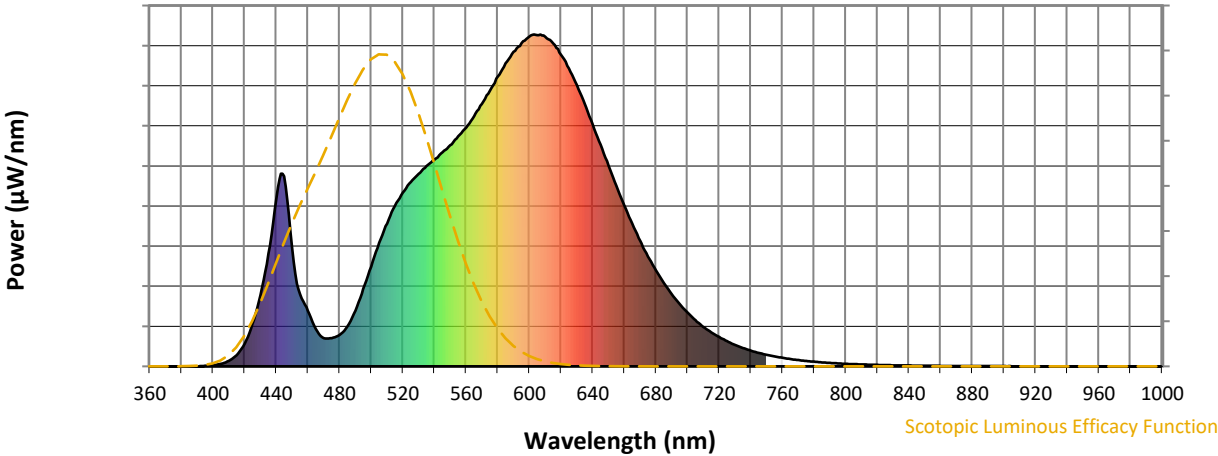


Photopic Lumens: NR

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

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength



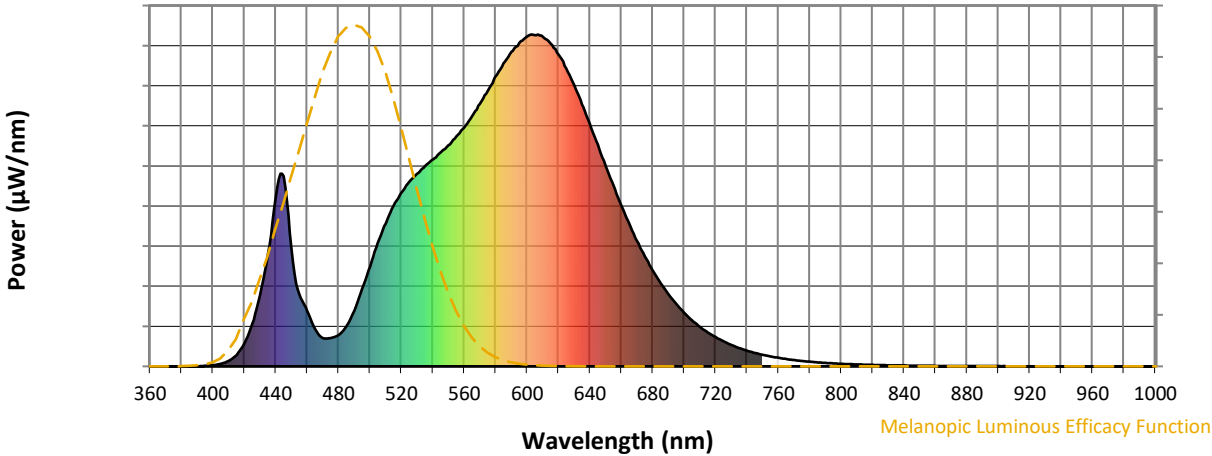
Scotopic Lumens: NR

S/P: 1.27

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

REPORT NUMBER: SP1-2408-195-9

Melanopic Flux vs. Wavelength



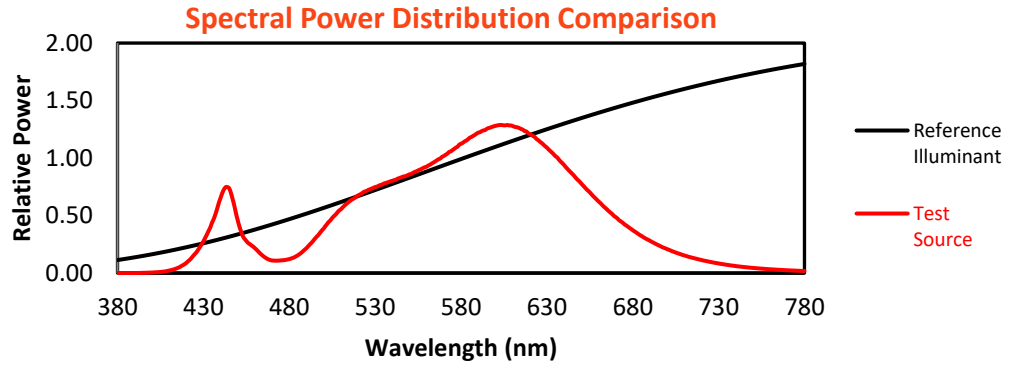
Melanopic Lumens: NR

M/P: 2.32

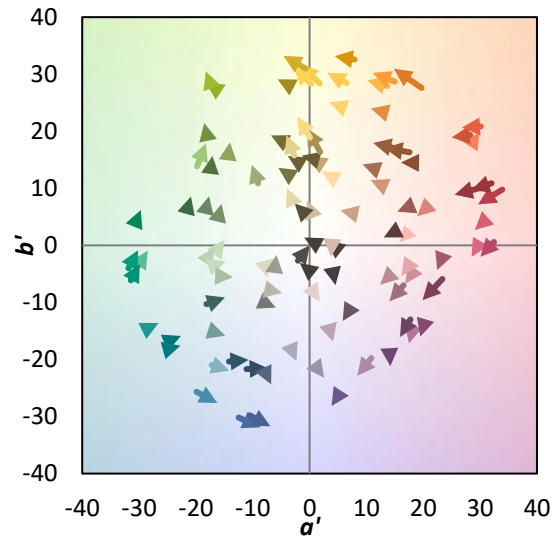
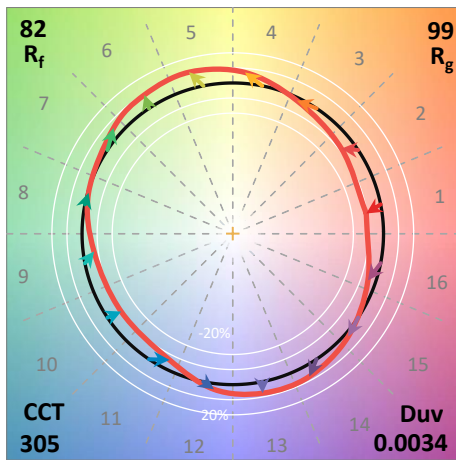
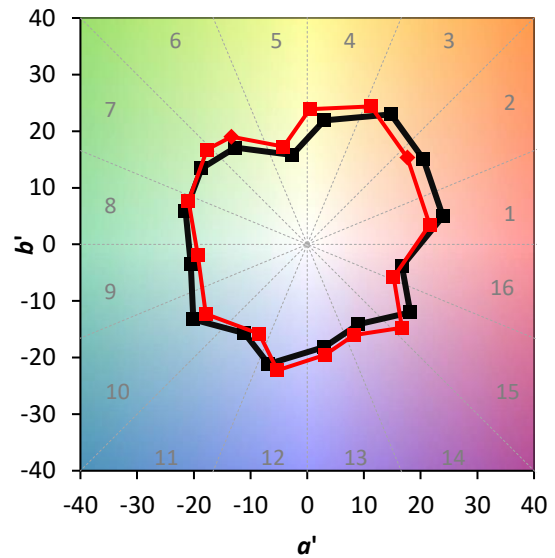
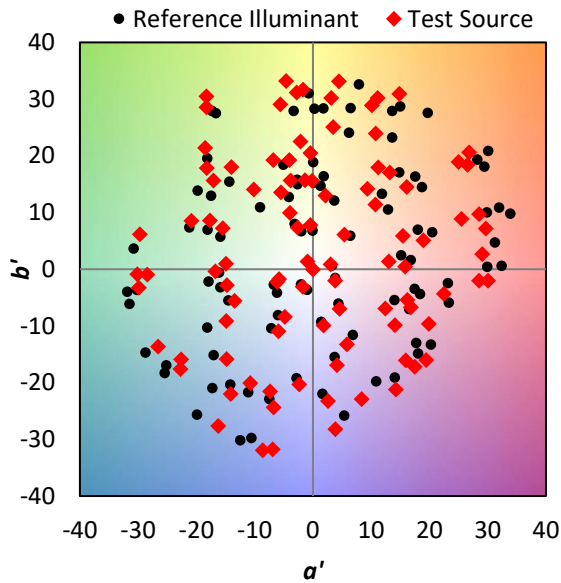
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	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			

Summary

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

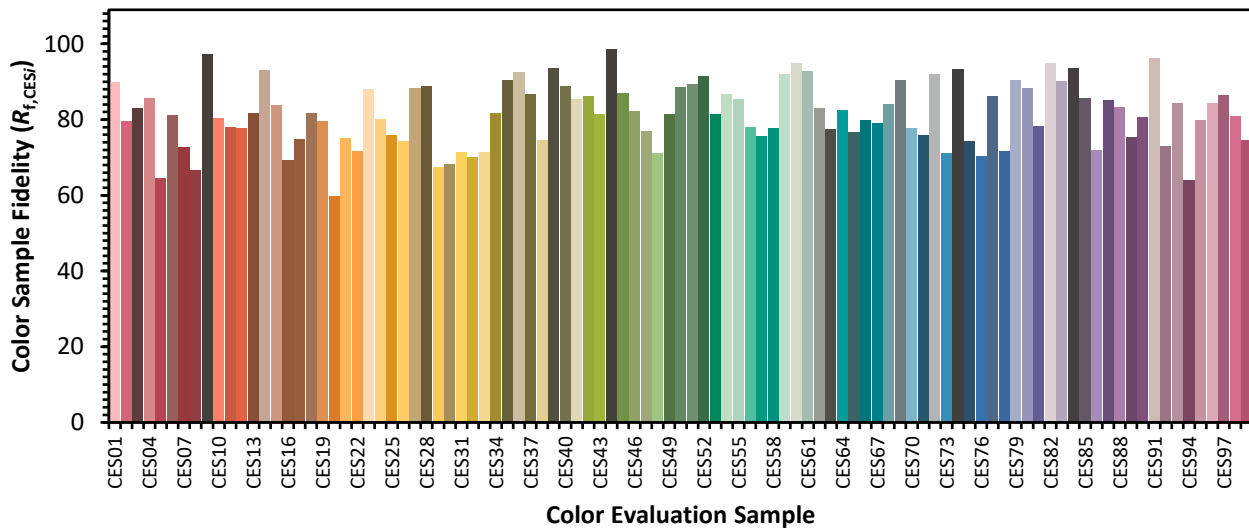


Color Vector Graphics

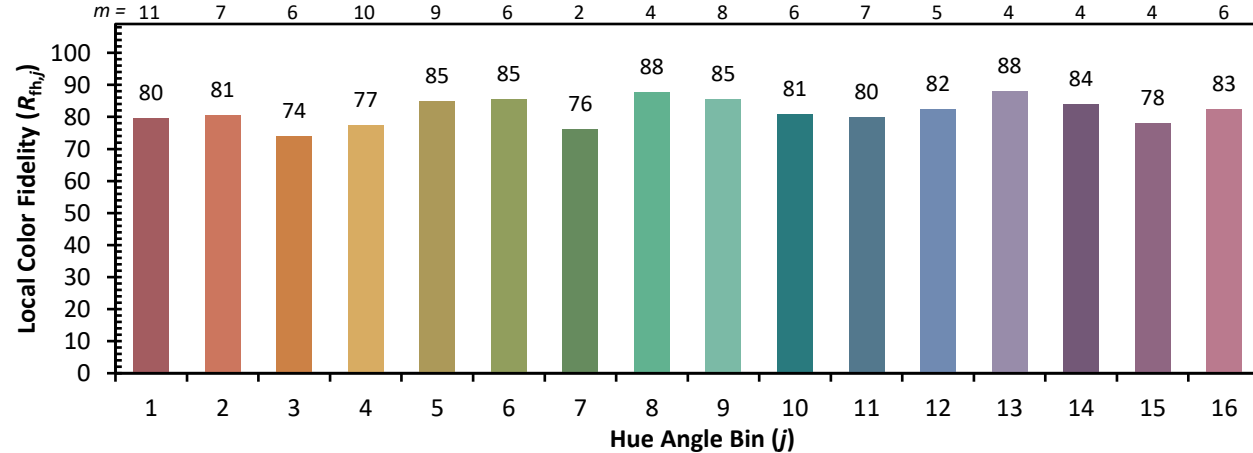
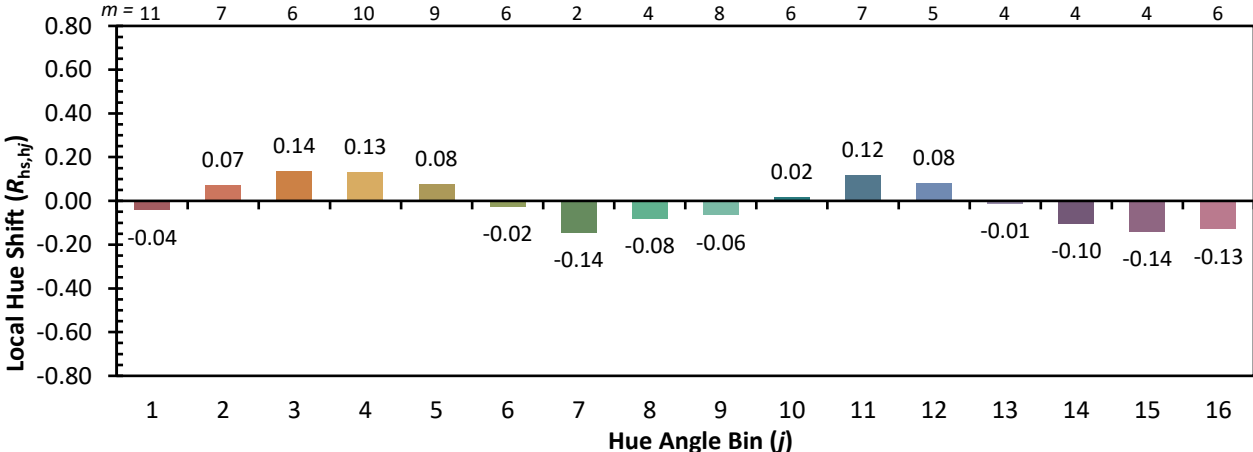
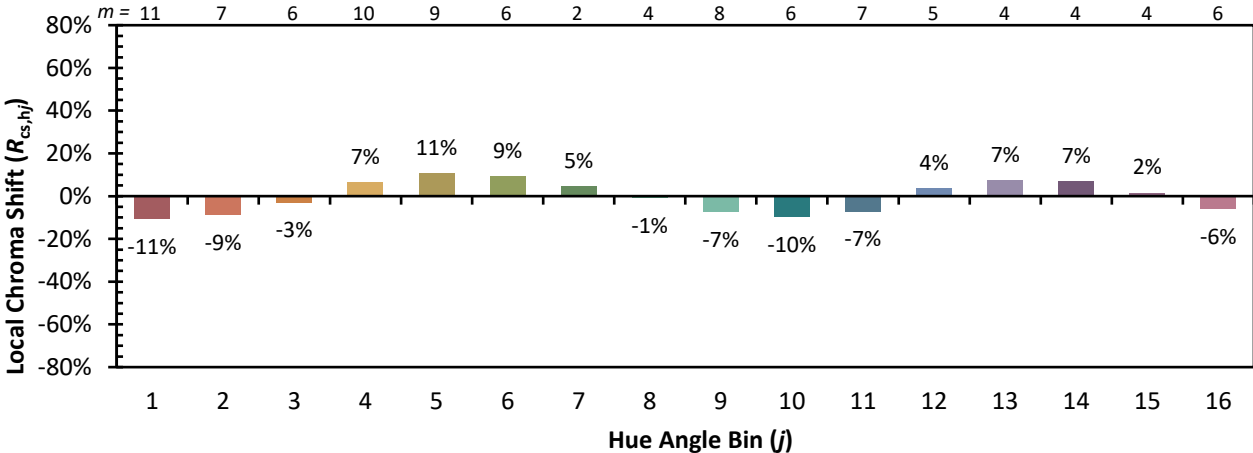


Individual Sample Fidelity Index ($R_{f,i}$)

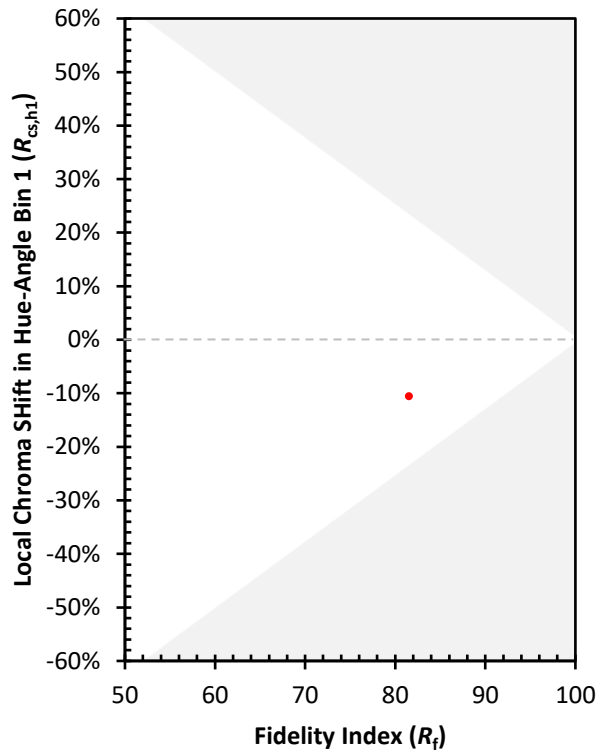
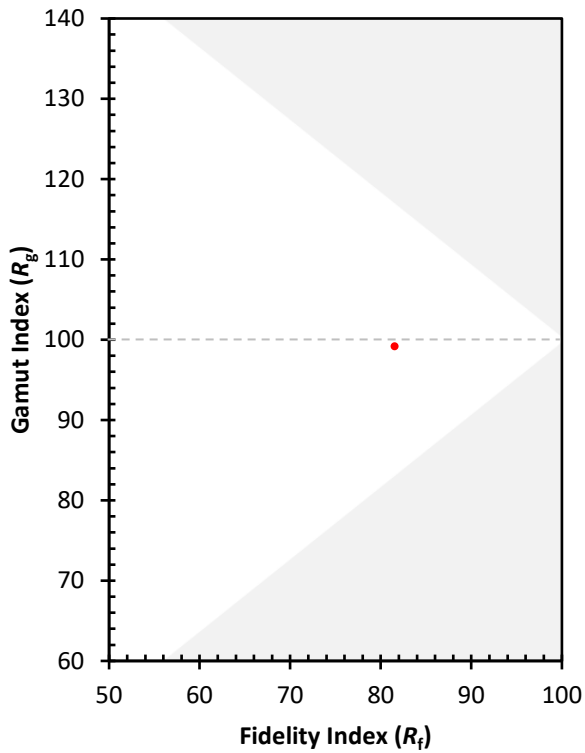
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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