

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: P320821

Luminaire Tested: **GLEON-SA7D-830-U-SLR**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320821  
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-SA7D-830-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K, 1200mA 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: 38326 lumens  
Efficiency: N/A  
Efficacy: 85.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

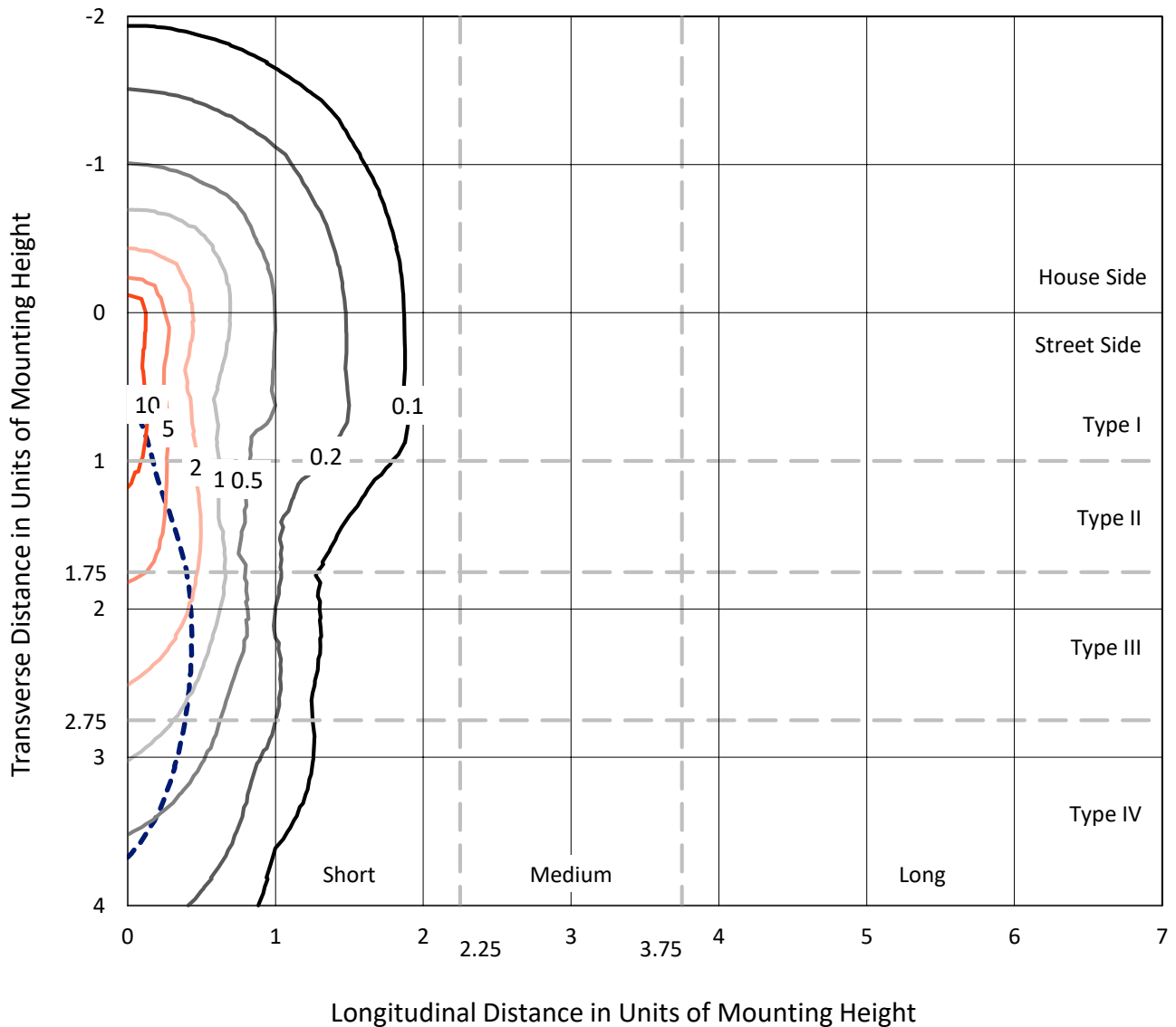
Input Watts (W): 448  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

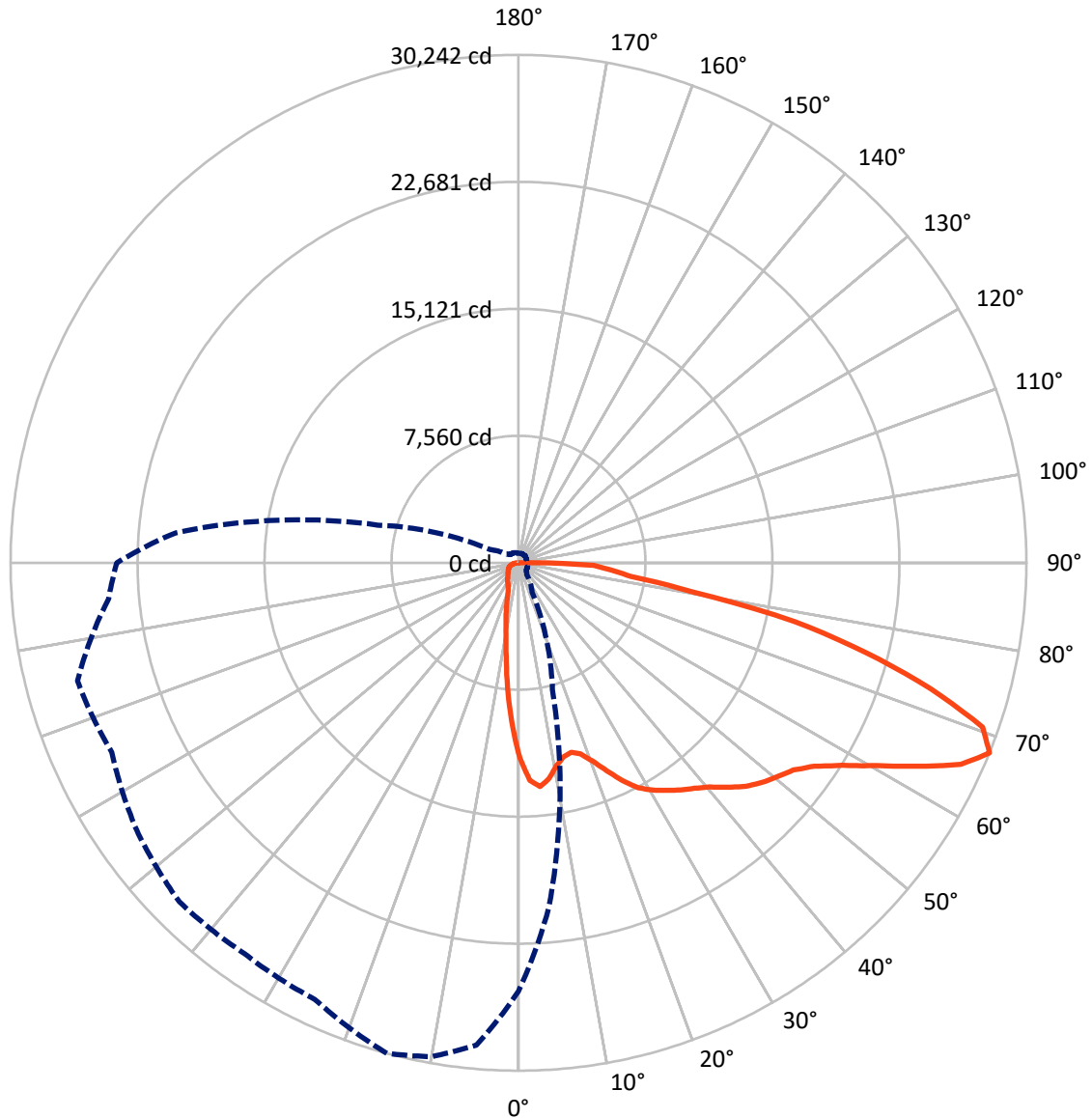
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 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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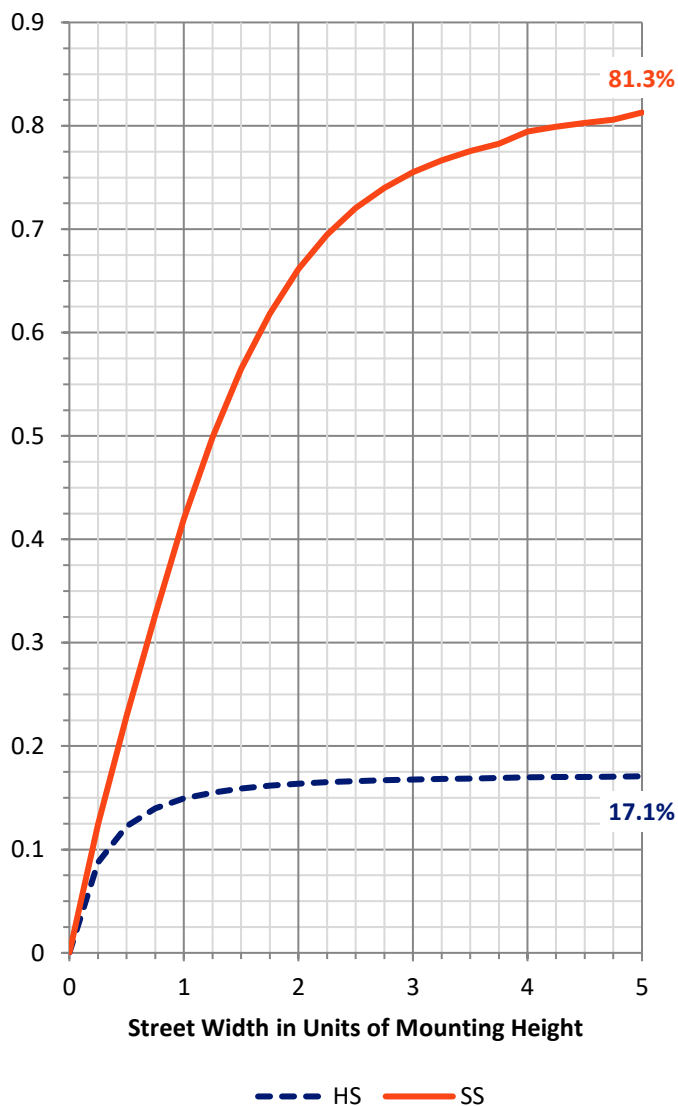
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6625.8	0.0	6625.8
	% Fixture	17.3	0.0	17.3
<b>Street Side</b>	Lumens	31700.2	0.0	31700.2
	% Fixture	82.7	0.0	82.7
<b>Total</b>	Lumens	38326.0	0.0	38326.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	901.1	2.4
10°-20°	1872.0	4.9
20°-30°	2662.4	6.9
30°-40°	3836.6	10.0
40°-50°	5406.8	14.1
50°-60°	7516.4	19.6
60°-70°	9089.6	23.7
70°-80°	5587.2	14.6
80°-90°	1453.8	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°	38326.0	100.0
0°-180°	38326.0	100.0

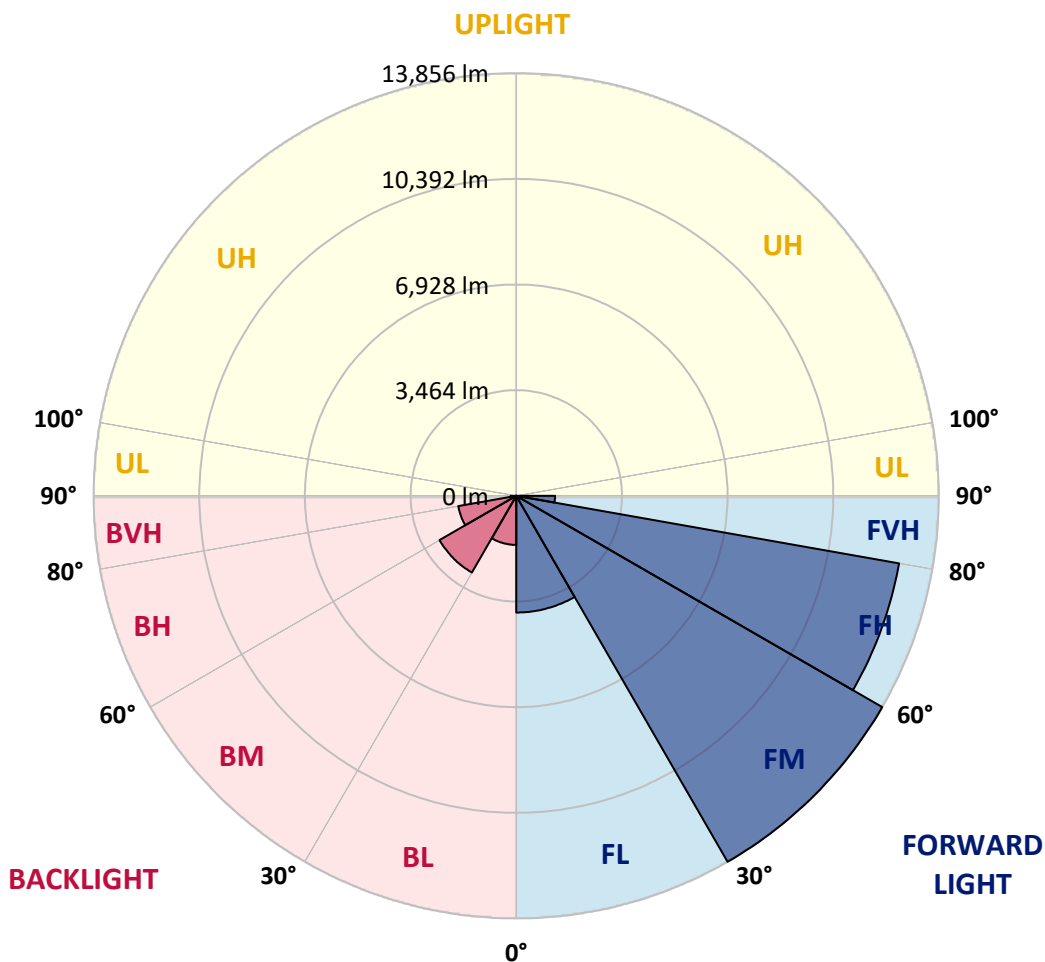


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3826.9	10.0			
FM (30°-60°)	13855.8	36.2			
FH (60°-80°)	12745.9	33.3			G5
FVH (80°-90°)	1271.6	3.3			G5
BL (0°-30°)	1608.7	4.2	B3/2500		
BM (30°-60°)	2904.0	7.6	B3/5000		
BH (60°-80°)	1930.9	5.0	B3/2500		G3/2500
BVH (80°-90°)	182.2	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°	11676.3	11676.3	11676.3	11676.3	11676.3	11676.3	11676.3	11676.3	11676.3	11676.3	11676.3
2.5°	12508.3	12398.0	12231.0	12064.0	11939.8	11814.2	11671.7	11529.2	11366.8	11202.8	11106.3
5°	12301.5	11995.0	11596.6	11198.2	10934.6	10671.1	10372.3	10073.5	9777.7	9482.0	9322.6
7.5°	11369.8	10910.1	10392.2	9874.3	9491.2	9106.6	8692.9	8277.6	7909.8	7540.5	7312.2
10°	10453.5	9901.9	9307.3	8711.2	8220.9	7730.6	7315.3	6898.5	6621.2	6343.8	6133.9
12.5°	9796.1	9184.7	8530.4	7874.6	7384.3	6893.9	6630.4	6366.8	6136.9	5907.1	5665.0
15°	9535.6	8844.6	8174.9	7503.8	7057.9	6612.0	6319.3	6025.1	5717.1	5407.6	5110.3
17.5°	9765.5	8956.4	8228.6	7500.7	6916.9	6333.1	5924.0	5513.3	5107.2	4701.2	4356.4
20°	10482.6	9449.8	8498.2	7545.1	6768.3	5991.4	5442.8	4892.7	4371.7	3850.7	3460.0
22.5°	11489.3	10122.5	8879.8	7637.1	6633.4	5628.2	4940.2	4250.7	3634.7	3018.7	2635.6
25°	12712.1	11014.3	9429.9	7843.9	6578.3	5311.0	4465.2	3619.3	2969.6	2318.4	2045.6
27.5°	14000.8	12077.7	10113.3	8147.3	6587.4	5027.5	4065.2	3101.4	2516.1	1930.7	1743.8
30°	15075.0	13292.9	10910.1	8525.8	6622.7	4719.5	3688.3	2657.0	2174.4	1691.7	1570.6
32.5°	16057.2	14140.3	11510.8	8879.8	6662.5	4443.7	3397.2	2349.0	1955.2	1559.9	1460.3
35°	17071.6	14892.6	11930.6	8967.1	6593.6	4218.5	3198.0	2177.4	1814.3	1449.6	1365.3
37.5°	18188.6	15706.3	12335.2	8962.5	6477.1	3991.7	3043.2	2093.1	1722.3	1350.0	1288.7
40°	19434.4	16605.8	12773.4	8941.1	6371.4	3800.2	2928.3	2054.8	1671.8	1287.1	1235.1
42.5°	20652.6	17463.9	13181.0	8898.2	6285.6	3671.4	2814.9	1958.3	1625.8	1291.7	1218.2
45°	21567.4	18213.2	13535.0	8855.3	6221.2	3587.2	2726.0	1864.8	1582.9	1300.9	1207.5
47.5°	22261.6	18965.5	13927.3	8887.5	6215.1	3542.7	2663.2	1783.6	1501.7	1218.2	1179.9
50°	23144.2	19869.6	14498.8	9128.0	6299.4	3470.7	2589.6	1707.0	1423.5	1140.0	1192.1
52.5°	24242.8	21159.8	15384.5	9607.6	6475.6	3343.5	2473.2	1602.8	1328.5	1052.7	1133.9
55°	25856.4	22813.2	16516.9	10219.0	6688.6	3156.6	2296.9	1435.8	1202.9	968.4	1040.4
57.5°	27304.4	24483.4	17603.3	10721.6	6821.9	2920.6	2074.8	1228.9	1061.9	894.9	936.2
60°	27949.5	25344.6	18112.0	10877.9	6742.2	2606.5	1825.0	1042.0	937.8	833.6	825.9
62.5°	27698.2	24797.5	17611.0	10424.4	6353.0	2281.6	1604.3	927.1	848.9	769.2	752.4
65°	26962.7	23078.3	16207.4	9336.4	5695.6	2054.8	1464.9	875.0	787.6	700.3	681.9
67.5°	25513.1	20631.2	14218.4	7805.6	4860.5	1915.4	1385.2	855.0	749.3	642.0	620.6
70°	22911.3	17686.0	11927.6	6167.6	3999.4	1829.6	1333.1	836.6	707.9	577.7	557.8
72.5°	18818.4	14180.1	9524.9	4868.2	3343.5	1818.9	1327.0	835.1	674.2	513.3	494.9
75°	13473.7	10770.7	7270.9	3769.5	2738.3	1707.0	1259.6	812.1	628.3	442.8	426.0
77.5°	9066.7	7454.7	5053.6	2650.9	2031.9	1412.8	1058.8	704.9	537.8	370.8	354.0
80°	5822.8	5159.3	3386.4	1613.5	1317.8	1022.1	757.0	491.9	392.3	291.1	277.3
82.5°	4272.1	3840.0	2353.6	867.3	732.4	596.1	462.8	329.4	268.2	206.9	200.7
85°	2715.3	2994.2	1733.1	472.0	386.1	300.3	248.2	196.1	154.8	113.4	113.4
87.5°	527.1	729.4	479.6	228.3	167.0	105.7	90.4	73.6	41.4	7.7	9.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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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°	11676.3	11676.3	11676.3	11676.3	11676.3	11676.3	11676.3	11676.3	11676.3	11676.3	11676.3
2.5°	11008.2	10902.5	10796.7	10677.2	10556.2	10444.3	10330.9	10206.8	10229.8	10134.8	10039.8
5°	9163.3	8994.7	8824.6	8677.5	8530.4	8403.2	8274.5	8159.6	8259.2	8191.8	8124.4
7.5°	7082.4	6874.0	6664.1	6487.8	6311.6	6175.3	6037.3	5942.3	6040.4	6028.1	6015.9
10°	5924.0	5721.7	5517.9	5323.3	5128.7	4963.2	4796.2	4655.2	4630.7	4560.2	4488.2
12.5°	5421.3	5144.0	4865.1	4661.3	4457.5	4259.9	4062.2	3896.7	3821.6	3705.2	3587.2
15°	4813.0	4485.1	4157.2	3925.8	3692.9	3501.4	3308.3	3165.8	3118.3	3027.9	2937.5
17.5°	4011.6	3653.1	3294.5	3060.0	2824.1	2670.8	2516.1	2421.1	2421.1	2395.0	2369.0
20°	3069.2	2749.0	2428.7	2249.4	2070.2	1989.0	1906.2	1866.4	1878.6	1880.2	1880.2
22.5°	2251.0	2054.8	1858.7	1786.7	1713.1	1684.0	1654.9	1638.1	1644.2	1645.7	1647.2
25°	1772.9	1697.8	1621.2	1584.4	1546.1	1527.7	1509.3	1503.2	1517.0	1518.5	1518.5
27.5°	1556.8	1510.9	1463.4	1440.4	1415.9	1408.2	1400.5	1389.8	1403.6	1403.6	1402.1
30°	1448.0	1399.0	1350.0	1320.9	1291.7	1294.8	1296.3	1293.3	1302.5	1308.6	1313.2
32.5°	1359.2	1311.7	1264.2	1235.1	1204.4	1199.8	1195.2	1192.1	1212.1	1222.8	1233.5
35°	1279.5	1227.4	1175.3	1147.7	1120.1	1109.4	1098.7	1091.0	1109.4	1123.2	1137.0
37.5°	1225.9	1172.2	1117.1	1091.0	1063.4	1049.6	1035.8	1026.7	1034.3	1040.4	1046.6
40°	1183.0	1127.8	1071.1	1040.4	1009.8	996.0	982.2	974.6	979.2	980.7	982.2
42.5°	1143.1	1089.5	1035.8	1002.1	966.9	950.0	933.2	924.0	927.1	930.1	931.7
45°	1114.0	1060.4	1005.2	965.4	924.0	905.6	887.2	876.5	878.0	878.0	878.0
47.5°	1141.6	1063.4	983.7	937.8	890.3	868.8	847.4	836.6	833.6	830.5	827.5
50°	1242.7	1109.4	974.6	916.3	856.6	833.6	809.1	796.8	789.1	786.1	783.0
52.5°	1213.6	1098.7	982.2	907.1	830.5	802.9	775.4	755.4	747.8	743.2	738.6
55°	1110.9	1038.9	965.4	875.0	784.5	760.0	734.0	720.2	706.4	703.3	700.3
57.5°	976.1	947.0	917.9	825.9	734.0	711.0	686.5	677.3	665.0	665.0	663.5
60°	816.7	859.6	902.5	796.8	689.5	663.5	637.4	629.8	625.2	623.7	622.1
62.5°	734.0	804.5	873.4	761.6	648.2	620.6	593.0	583.8	582.3	583.8	583.8
65°	663.5	684.9	706.4	654.3	602.2	574.6	545.5	536.3	539.4	544.0	548.6
67.5°	599.1	594.5	589.9	571.6	551.6	528.7	504.1	494.9	496.5	502.6	508.7
70°	537.8	531.7	524.1	510.3	496.5	476.6	456.6	450.5	449.0	456.6	462.8
72.5°	476.6	468.9	459.7	449.0	436.7	419.9	403.0	398.4	399.9	404.5	409.1
75°	409.1	403.0	395.3	386.1	375.4	360.1	344.8	341.7	344.8	349.4	354.0
77.5°	335.6	334.0	331.0	323.3	315.7	298.8	280.4	278.9	283.5	288.1	291.1
80°	262.0	263.6	265.1	259.0	252.8	234.4	214.5	213.0	217.6	222.2	226.8
82.5°	193.1	197.7	200.7	193.1	185.4	164.0	142.5	139.4	154.8	159.4	164.0
85°	111.9	118.0	124.1	118.0	111.9	90.4	69.0	67.4	81.2	88.9	96.5
87.5°	9.2	12.3	15.3	13.8	12.3	6.1	0.0	0.0	1.5	7.7	13.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320821  
 CATALOG NUMBER: GLEON-SA7D-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: P320821

CATALOG NUMBER: GLEON-SA7D-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	11676.3	11676.3	11676.3	11676.3	11676.3	11676.3	11676.3	11676.3	11676.3	11676.3	11676.3
2.5°	9980.0	9920.2	9901.9	9883.5	9816.0	9747.1	9817.6	9886.5	9915.6	9944.8	9869.7
5°	8115.2	8104.4	8104.4	8102.9	8041.6	7978.8	8026.3	8072.3	7969.6	7866.9	7856.2
7.5°	6081.8	6147.7	6201.3	6253.4	6233.5	6213.6	6258.0	6302.4	6172.2	6040.4	5976.0
10°	4503.5	4517.3	4575.5	4633.7	4647.5	4659.8	4714.9	4768.6	4667.4	4566.3	4521.9
12.5°	3513.6	3440.1	3447.7	3453.9	3481.4	3507.5	3565.7	3622.4	3581.0	3538.1	3542.7
15°	2845.5	2752.0	2713.7	2673.9	2704.5	2735.2	2776.6	2816.4	2817.9	2817.9	2857.8
17.5°	2323.0	2275.5	2237.2	2197.3	2238.7	2278.6	2283.2	2287.8	2289.3	2290.8	2287.8
20°	1903.1	1926.1	1913.9	1901.6	1916.9	1930.7	1943.0	1953.7	1939.9	1924.6	1886.3
22.5°	1668.7	1688.6	1703.9	1717.7	1743.8	1768.3	1756.0	1742.2	1714.7	1685.6	1656.4
25°	1532.3	1546.1	1561.4	1576.8	1598.2	1618.1	1596.7	1575.2	1555.3	1535.4	1515.5
27.5°	1417.4	1431.2	1445.0	1457.2	1477.2	1495.5	1475.6	1455.7	1438.8	1422.0	1406.7
30°	1323.9	1333.1	1343.8	1354.6	1373.0	1389.8	1373.0	1354.6	1342.3	1328.5	1317.8
32.5°	1244.2	1253.4	1258.0	1262.6	1279.5	1296.3	1284.1	1271.8	1261.1	1250.4	1242.7
35°	1156.9	1175.3	1178.4	1181.4	1198.3	1215.1	1207.5	1198.3	1186.0	1173.8	1160.0
37.5°	1068.0	1089.5	1101.7	1112.5	1129.3	1146.2	1138.5	1130.9	1114.0	1097.1	1072.6
40°	992.9	1002.1	1025.1	1046.6	1074.2	1100.2	1084.9	1068.0	1042.0	1015.9	1003.7
42.5°	930.1	928.6	950.0	971.5	1012.9	1052.7	1025.1	997.5	973.0	948.5	945.4
45°	875.0	870.4	881.1	891.8	936.2	979.2	951.6	922.5	908.7	894.9	894.9
47.5°	825.9	822.9	830.5	836.6	864.2	890.3	876.5	862.7	855.0	847.4	848.9
50°	781.5	778.4	786.1	792.2	802.9	812.1	815.2	816.7	812.1	807.5	810.6
52.5°	740.1	740.1	743.2	744.7	758.5	772.3	772.3	770.8	770.8	770.8	773.8
55°	704.9	707.9	707.9	707.9	729.4	749.3	743.2	737.0	738.6	738.6	741.6
57.5°	669.6	674.2	677.3	680.4	701.8	723.3	717.1	711.0	711.0	711.0	712.5
60°	629.8	635.9	642.0	648.2	669.6	691.1	684.9	677.3	678.8	680.4	681.9
62.5°	591.5	597.6	603.7	609.9	631.3	652.8	646.6	639.0	643.6	646.6	646.6
65°	554.7	559.3	565.4	571.6	591.5	611.4	605.3	599.1	605.3	609.9	612.9
67.5°	513.3	516.4	522.5	528.7	548.6	568.5	562.4	554.7	562.4	568.5	574.6
70°	465.8	468.9	476.6	482.7	502.6	522.5	514.9	507.2	514.9	522.5	528.7
72.5°	413.7	416.8	424.5	430.6	453.6	476.6	467.4	458.2	467.4	476.6	479.6
75°	357.0	360.1	369.3	377.0	399.9	422.9	415.3	406.1	413.7	421.4	422.9
77.5°	295.7	300.3	312.6	324.9	343.2	361.6	357.0	352.4	357.0	361.6	361.6
80°	231.4	236.0	251.3	265.1	275.8	286.5	288.1	289.6	291.1	292.7	291.1
82.5°	171.6	177.7	191.5	205.3	205.3	205.3	217.6	228.3	228.3	226.8	225.3
85°	105.7	113.4	125.7	137.9	130.2	122.6	142.5	160.9	160.9	159.4	156.3
87.5°	21.5	29.1	41.4	52.1	44.4	36.8	56.7	76.6	78.1	78.1	75.1
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: P320821  
 CATALOG NUMBER: GLEON-SA7D-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: P320821  
 CATALOG NUMBER: GLEON-SA7D-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	11676.3	11676.3	11676.3	11676.3	11676.3	11676.3	11676.3	11676.3	11676.3	11676.3	11676.3
2.5°	9793.1	9912.6	10030.6	10061.2	10107.2	10127.1	10145.5	10295.7	10444.3	10619.0	10793.7
5°	7843.9	7932.8	8021.7	8035.5	8083.0	8107.5	8132.0	8314.4	8495.2	8738.8	8982.5
7.5°	5911.7	5933.1	5954.6	5951.5	5991.4	6045.0	6097.1	6291.7	6484.8	6746.8	7007.3
10°	4477.4	4526.5	4574.0	4618.4	4705.8	4806.9	4906.5	5105.7	5304.9	5563.9	5821.3
12.5°	3547.3	3604.0	3659.2	3708.2	3809.3	3944.2	4077.5	4316.5	4555.6	4865.1	5173.1
15°	2896.1	2891.5	2886.9	2920.6	3009.5	3156.6	3302.2	3555.0	3807.8	4148.0	4486.6
17.5°	2284.7	2261.7	2238.7	2264.8	2347.5	2468.6	2588.1	2802.6	3015.6	3345.1	3674.5
20°	1848.0	1832.7	1817.3	1841.8	1893.9	1944.5	1995.1	2149.8	2303.1	2571.2	2837.9
22.5°	1625.8	1624.3	1621.2	1635.0	1659.5	1685.6	1710.1	1785.2	1858.7	2031.9	2203.5
25°	1495.5	1494.0	1492.5	1498.6	1518.5	1538.4	1558.4	1607.4	1656.4	1739.2	1821.9
27.5°	1391.3	1388.3	1385.2	1386.7	1391.3	1422.0	1451.1	1474.1	1495.5	1552.2	1607.4
30°	1307.1	1305.5	1304.0	1304.0	1299.4	1310.1	1320.9	1356.1	1389.8	1448.0	1506.3
32.5°	1235.1	1227.4	1219.7	1202.9	1192.1	1207.5	1222.8	1259.6	1296.3	1350.0	1403.6
35°	1144.6	1124.7	1103.3	1094.1	1095.6	1110.9	1126.3	1163.0	1198.3	1256.5	1313.2
37.5°	1046.6	1040.4	1032.8	1031.3	1035.8	1051.2	1066.5	1098.7	1129.3	1187.5	1244.2
40°	991.4	988.3	985.3	982.2	985.3	1000.6	1015.9	1046.6	1075.7	1132.4	1187.5
42.5°	942.4	940.8	939.3	939.3	940.8	957.7	974.6	1005.2	1034.3	1084.9	1135.4
45°	894.9	896.4	896.4	899.5	904.1	920.9	936.2	970.0	1003.7	1052.7	1101.7
47.5°	850.4	855.0	858.1	865.8	870.4	888.7	905.6	942.4	979.2	1040.4	1100.2
50°	812.1	816.7	819.8	825.9	838.2	859.6	881.1	925.5	968.4	1071.1	1172.2
52.5°	776.9	781.5	786.1	792.2	807.5	832.0	856.6	911.7	965.4	1084.9	1204.4
55°	744.7	749.3	752.4	761.6	776.9	798.3	818.3	885.7	953.1	1040.4	1127.8
57.5°	714.1	718.7	721.7	727.9	735.5	758.5	780.0	852.0	924.0	985.3	1045.0
60°	681.9	684.9	686.5	686.5	692.6	718.7	744.7	836.6	927.1	916.3	904.1
62.5°	646.6	649.7	651.2	646.6	654.3	681.9	709.5	829.0	948.5	875.0	801.4
65°	614.5	612.9	611.4	606.8	616.0	643.6	669.6	729.4	789.1	760.0	730.9
67.5°	579.2	574.6	570.0	563.9	573.1	597.6	620.6	640.5	660.4	663.5	666.6
70°	534.8	528.7	522.5	521.0	525.6	545.5	565.4	579.2	591.5	597.6	602.2
72.5°	482.7	478.1	473.5	470.4	472.0	488.8	504.1	516.4	528.7	533.2	536.3
75°	424.5	424.5	422.9	413.7	413.7	427.5	439.8	450.5	461.2	467.4	473.5
77.5°	361.6	363.2	363.2	350.9	349.4	363.2	375.4	384.6	392.3	398.4	403.0
80°	289.6	286.5	283.5	275.8	272.8	289.6	304.9	312.6	318.7	320.3	320.3
82.5°	222.2	216.1	208.4	191.5	193.1	211.5	228.3	234.4	240.6	240.6	240.6
85°	151.7	139.4	125.7	111.9	113.4	133.3	151.7	157.8	164.0	167.0	168.6
87.5°	72.0	59.8	46.0	35.2	35.2	52.1	67.4	70.5	73.6	79.7	85.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320821  
 CATALOG NUMBER: GLEON-SA7D-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: P320821

CATALOG NUMBER: GLEON-SA7D-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	11676.3	11676.3	11676.3	11676.3	11676.3	11676.3	11676.3	11676.3	11676.3	11676.3	11676.3
2.5°	10927.0	11058.8	11195.1	11331.5	11487.8	11644.1	11826.4	12007.3	12162.0	12316.8	12445.5
5°	9192.4	9402.3	9649.0	9895.7	10209.9	10524.0	10908.6	11291.7	11633.4	11975.1	12372.0
7.5°	7281.6	7554.3	7876.1	8197.9	8604.0	9010.0	9508.0	10006.1	10488.7	10969.9	11579.7
10°	6107.8	6394.4	6711.6	7027.2	7440.9	7853.1	8380.3	8905.8	9448.3	9989.2	10678.7
12.5°	5491.8	5809.0	6087.9	6366.8	6702.4	7036.4	7546.7	8056.9	8694.4	9330.3	9993.8
15°	4834.5	5180.8	5514.8	5848.9	6215.1	6579.8	7076.3	7572.7	8269.9	8967.1	9730.2
17.5°	4039.2	4403.9	4811.5	5217.6	5695.6	6172.2	6808.1	7444.0	8269.9	9094.3	9993.8
20°	3210.2	3582.6	4069.8	4557.1	5151.7	5744.7	6569.1	7393.4	8505.9	9616.8	10764.6
22.5°	2532.9	2860.8	3392.6	3922.7	4609.2	5295.7	6353.0	7408.8	8862.9	10315.6	11864.8
25°	2053.3	2284.7	2807.2	3328.2	4120.4	4912.6	6221.2	7528.3	9382.4	11235.0	13156.5
27.5°	1759.1	1910.8	2398.1	2883.8	3749.6	4613.8	6167.6	7719.8	10041.3	12362.8	14561.6
30°	1612.0	1717.7	2129.9	2540.6	3420.1	4299.7	6103.2	7906.8	10675.7	13443.0	15660.3
32.5°	1489.4	1573.7	1926.1	2277.0	3135.1	3993.2	5979.1	7963.5	11118.5	14273.6	16590.4
35°	1385.2	1455.7	1762.2	2068.6	2911.4	3754.2	5770.7	7787.3	11395.9	15004.5	17558.9
37.5°	1300.9	1356.1	1639.6	1923.1	2718.3	3513.6	5533.2	7552.8	11642.6	15732.3	18648.3
40°	1235.1	1282.6	1547.6	1812.7	2534.5	3256.2	5329.4	7401.1	11982.7	16564.4	19799.1
42.5°	1198.3	1259.6	1468.0	1674.8	2359.8	3044.7	5165.5	7286.2	12298.4	17309.1	20805.8
45°	1189.1	1276.4	1426.6	1576.8	2229.5	2882.3	5019.9	7155.9	12502.2	17848.5	21564.3
47.5°	1173.8	1245.8	1394.4	1543.0	2165.2	2785.8	4941.7	7096.2	12706.0	18314.3	22194.1
50°	1183.0	1192.1	1368.4	1543.0	2156.0	2768.9	5030.6	7292.3	13147.3	19000.8	22914.3
52.5°	1166.1	1126.3	1319.3	1512.4	2154.4	2796.5	5286.5	7776.5	13967.1	20156.1	23694.3
55°	1077.2	1025.1	1227.4	1429.7	2122.3	2813.3	5591.4	8368.0	15067.3	21765.1	25096.3
57.5°	999.1	951.6	1123.2	1293.3	2024.2	2755.1	5905.6	9054.5	16230.3	23404.7	26676.2
60°	894.9	884.1	1006.7	1129.3	1872.5	2614.1	6164.5	9713.4	17011.8	24308.7	27284.5
62.5°	809.1	815.2	905.6	996.0	1682.5	2367.4	6250.3	10131.7	16990.4	23849.0	26671.6
65°	743.2	753.9	842.8	931.7	1520.1	2108.5	5968.4	9826.8	16130.7	22433.2	25459.5
67.5°	678.8	691.1	796.8	901.0	1376.0	1849.5	5263.5	8676.0	14584.6	20491.7	23918.0
70°	617.5	632.8	747.8	862.7	1271.8	1679.4	4354.9	7030.3	12649.3	18266.8	22132.8
72.5°	551.6	567.0	689.5	812.1	1205.9	1598.2	3550.4	5501.0	10265.0	15027.5	18931.8
75°	484.2	494.9	628.3	760.0	1115.5	1471.0	2785.8	4099.0	7856.2	11613.5	14299.6
77.5°	416.8	430.6	542.4	652.8	947.0	1239.6	2099.3	2958.9	5764.6	8568.7	9944.8
80°	332.5	344.8	424.5	502.6	730.9	957.7	1443.4	1929.2	3967.2	6005.2	6780.5
82.5°	254.4	268.2	321.8	373.9	521.0	668.1	875.0	1081.8	2635.6	4187.8	4252.2
85°	174.7	179.3	217.6	254.4	321.8	389.2	501.1	612.9	1743.8	2874.6	2395.0
87.5°	87.3	87.3	113.4	139.4	173.2	206.9	265.1	321.8	557.8	793.7	456.6
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: P320821  
 CATALOG NUMBER: GLEON-SA7D-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: P320821

CATALOG NUMBER: GLEON-SA7D-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	11676.3	11676.3	11676.3	11676.3	11676.3	11676.3	11676.3	11676.3	11676.3	11676.3	11676.3
2.5°	12609.5	12721.3	12834.7	12920.5	13007.9	13133.5	13259.2	13282.2	13306.7	13257.6	13208.6
5°	12771.9	13110.5	13450.7	13764.8	14079.0	14267.4	14455.9	14494.2	14532.5	14414.5	14295.0
7.5°	12169.7	12759.6	13349.6	13890.5	14431.4	14759.3	15088.8	15162.3	15237.4	15044.3	14851.2
10°	11365.2	12090.0	12814.8	13527.3	14239.9	14716.4	15193.0	15288.0	15383.0	15142.4	14901.8
12.5°	10743.1	11516.9	12290.7	13041.6	13793.9	14287.4	14780.8	14898.8	15016.7	14842.1	14665.8
15°	10551.6	11279.4	12007.3	12661.6	13317.4	13720.4	14124.9	14172.4	14221.5	14193.9	14166.3
17.5°	10899.4	11556.8	12215.7	12571.2	12928.2	13089.1	13251.5	13303.6	13357.2	13426.2	13496.7
20°	11742.2	12204.9	12669.2	12653.9	12637.0	12558.9	12479.2	12465.4	12451.6	12649.3	12848.5
22.5°	13000.2	13184.1	13369.5	12938.9	12508.3	12246.3	11982.7	11930.6	11877.0	12086.9	12298.4
25°	14365.5	14331.8	14296.5	13476.8	12655.4	12155.9	11656.4	11598.1	11539.9	11719.2	11900.0
27.5°	15717.0	15496.4	15275.7	14161.7	13047.7	12322.9	11598.1	11539.9	11481.7	11641.0	11800.4
30°	16708.4	16354.5	16000.5	14739.4	13478.3	12617.1	11756.0	11661.0	11564.4	11760.6	11956.7
32.5°	17482.2	17007.2	16532.2	15208.3	13884.4	12952.7	12021.1	11872.4	11723.8	11985.8	12247.8
35°	18254.5	17586.4	16916.8	15626.6	14334.9	13349.6	12362.8	12180.4	11998.1	12358.2	12718.3
37.5°	19226.0	18266.8	17306.0	16097.0	14888.0	13944.1	12998.7	12811.7	12624.8	13083.0	13542.6
40°	20280.3	19000.8	17721.3	16611.9	15502.5	14767.0	14029.9	13852.2	13672.9	14230.7	14788.4
42.5°	21156.7	19684.2	18211.6	17232.5	16251.8	15733.9	15214.4	15212.9	15209.8	15775.2	16340.7
45°	21869.3	20254.2	18637.6	17837.7	17036.3	16766.6	16497.0	16713.0	16929.1	17439.3	17951.1
47.5°	22401.0	20732.3	19062.1	18530.4	17998.6	18038.5	18078.3	18518.1	18957.9	19285.8	19615.2
50°	22747.3	21165.9	19583.1	19419.1	19255.1	19612.2	19970.7	20474.9	20980.5	21204.2	21428.0
52.5°	23251.4	21754.4	20255.7	20439.6	20623.5	21352.9	22082.3	22592.5	23102.8	23185.5	23269.8
55°	24417.5	22836.2	21253.3	21605.7	21959.7	23029.2	24100.3	24498.7	24897.1	24927.8	24958.4
57.5°	26074.0	24351.6	22629.3	23009.3	23389.3	24624.4	25861.0	26290.0	26720.6	26660.8	26599.5
60°	27313.6	25790.5	24265.8	24648.9	25032.0	26236.4	27440.8	27934.2	28429.1	28297.4	28165.6
62.5°	27390.2	26576.6	25761.4	26107.7	26455.5	27635.4	28815.3	29322.5	29829.7	29599.8	29370.0
65°	26172.0	26536.7	26901.4	27016.3	27131.3	28231.5	29333.2	29720.9	30110.1	29993.6	29877.2
67.5°	24494.1	25838.0	27183.4	26952.0	26720.6	27237.0	27753.4	28153.3	28553.3	28487.4	28419.9
70°	22819.3	24613.7	26408.0	25271.0	24132.5	23919.5	23706.5	24137.1	24569.2	24302.6	24034.4
72.5°	19967.7	21880.0	23793.9	21699.2	19604.5	18876.7	18148.8	18695.8	19242.9	18818.4	18392.4
75°	15674.1	17787.2	19901.8	17402.6	14903.3	13931.9	12960.4	13430.8	13901.2	13610.1	13317.4
77.5°	11668.6	13751.0	15833.5	13292.9	10750.8	10029.0	9305.8	9445.2	9586.2	9537.2	9486.6
80°	7914.4	9365.5	10818.2	9126.5	7434.8	7490.0	7546.7	7480.8	7413.4	7511.4	7609.5
82.5°	5050.5	6170.7	7292.3	6394.4	5496.4	6011.3	6526.2	6273.3	6019.0	6112.4	6207.4
85°	2882.3	3977.9	5075.0	4730.3	4384.0	4684.3	4986.2	4593.9	4201.6	4373.2	4546.4
87.5°	760.0	2200.4	3642.3	3306.7	2971.2	2582.0	2192.8	1673.3	1153.8	1685.6	2217.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320821  
 CATALOG NUMBER: GLEON-SA7D-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: P320821

CATALOG NUMBER: GLEON-SA7D-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	11676.3	11676.3	11676.3	11676.3	11676.3	11676.3	11676.3
2.5°	13182.6	13156.5	13063.0	12968.0	12827.1	12710.6	12508.3
5°	14129.5	13964.0	13679.0	13392.5	13073.8	12707.5	12301.5
7.5°	14465.1	14077.4	13530.4	12981.8	12488.4	11909.2	11369.8
10°	14322.6	13741.8	13030.9	12318.3	11719.2	11052.6	10453.5
12.5°	14049.8	13432.3	12649.3	11864.8	11182.9	10467.3	9796.1
15°	13674.4	13181.0	12447.0	11713.1	11026.6	10330.9	9535.6
17.5°	13263.8	13029.3	12499.1	11967.4	11372.9	10698.7	9765.5
20°	12932.8	13018.6	12807.1	12595.7	12119.1	11530.7	10482.6
22.5°	12709.1	13121.3	13283.7	13447.6	13161.1	12701.4	11489.3
25°	12583.4	13266.8	13810.8	14356.3	14229.1	13875.2	12712.1
27.5°	12638.6	13476.8	14321.1	15166.9	15284.9	15186.8	14000.8
30°	12804.1	13653.0	14681.2	15710.9	16181.3	16313.1	15075.0
32.5°	13079.9	13911.9	15032.1	16153.7	16864.7	17284.6	16057.2
35°	13496.7	14275.1	15442.7	16610.4	17529.7	18295.9	17071.6
37.5°	14212.3	14881.9	15959.1	17037.9	18230.0	19380.8	18188.6
40°	15260.4	15733.9	16644.1	17555.8	19055.9	20609.7	19434.4
42.5°	16582.8	16826.4	17548.1	18269.9	19918.6	21725.2	20652.6
45°	18015.5	18079.8	18533.4	18988.5	20602.0	22485.3	21567.4
47.5°	19394.6	19173.9	19354.7	19535.6	21126.1	23027.7	22261.6
50°	20813.5	20199.0	20104.0	20009.0	21650.2	23666.7	23144.2
52.5°	22257.0	21244.1	20868.7	20491.7	22275.3	24514.1	24242.8
55°	23669.8	22381.1	21875.4	21369.7	23231.5	25548.4	25856.4
57.5°	25139.2	23678.9	23210.1	22741.2	24636.6	26858.5	27304.4
60°	26720.6	25274.1	24898.7	24521.7	26383.5	28274.4	27949.5
62.5°	28220.7	27071.5	26873.8	26674.6	28150.3	29362.3	27698.2
65°	29222.9	28567.0	28750.9	28936.3	29486.4	29633.5	26962.7
67.5°	28553.3	28686.6	29463.5	30241.9	29863.4	28827.5	25513.1
70°	24832.8	25632.7	27473.0	29314.8	28475.1	26668.5	22911.3
72.5°	19290.4	20189.9	22922.0	25655.6	24881.8	22669.1	18818.4
75°	14331.8	15347.7	18363.3	21378.9	20304.8	16956.7	13473.7
77.5°	10166.9	10847.3	13824.6	16803.4	15052.0	11287.1	9066.7
80°	7401.1	7192.7	8852.2	10511.7	10220.6	7465.5	5822.8
82.5°	5698.7	5190.0	5971.5	6752.9	6710.0	5180.8	4272.1
85°	4342.6	4138.8	4829.9	5521.0	4929.5	3509.0	2715.3
87.5°	2531.4	2847.1	3660.7	4475.9	3358.8	1065.0	527.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320821  
 CATALOG NUMBER: GLEON-SA7D-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.

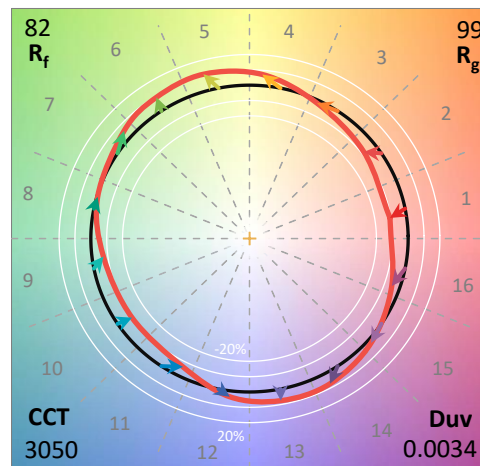
**Test Information**

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**

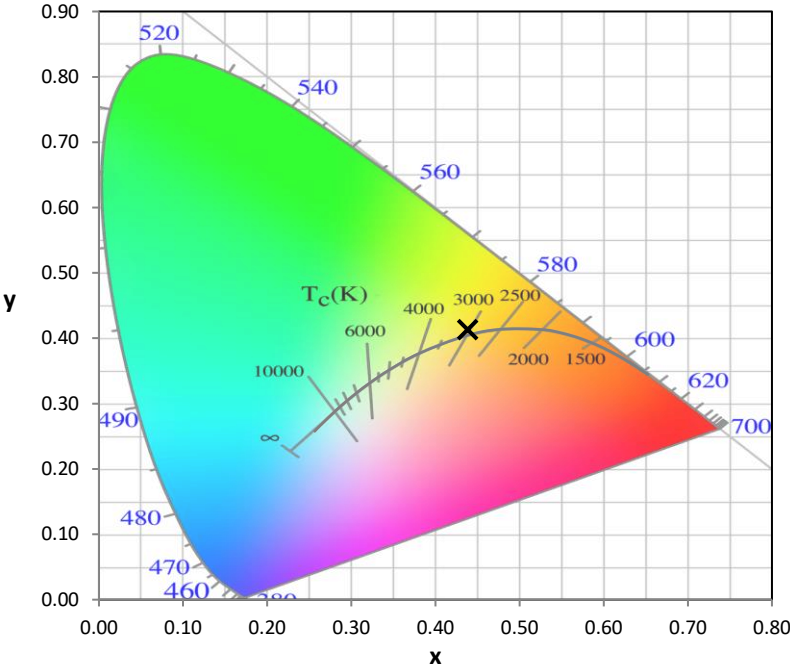
Stabilization Time: 20M  
 Operation Time: 1H 20M  
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

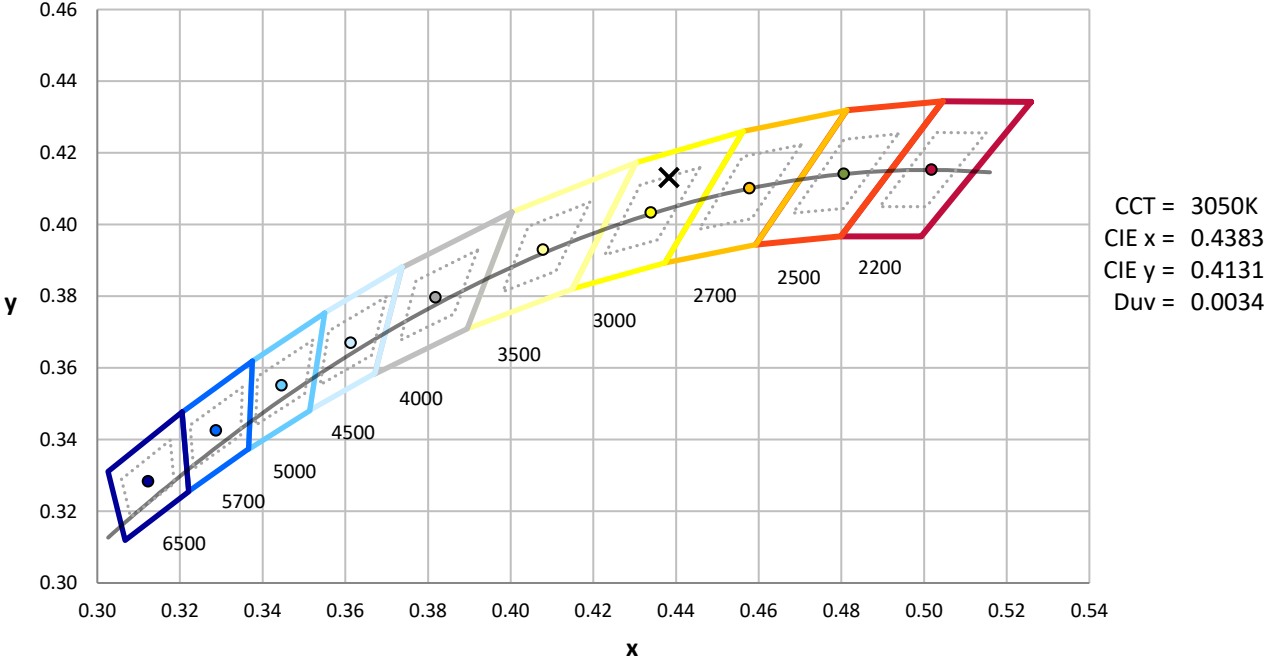
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



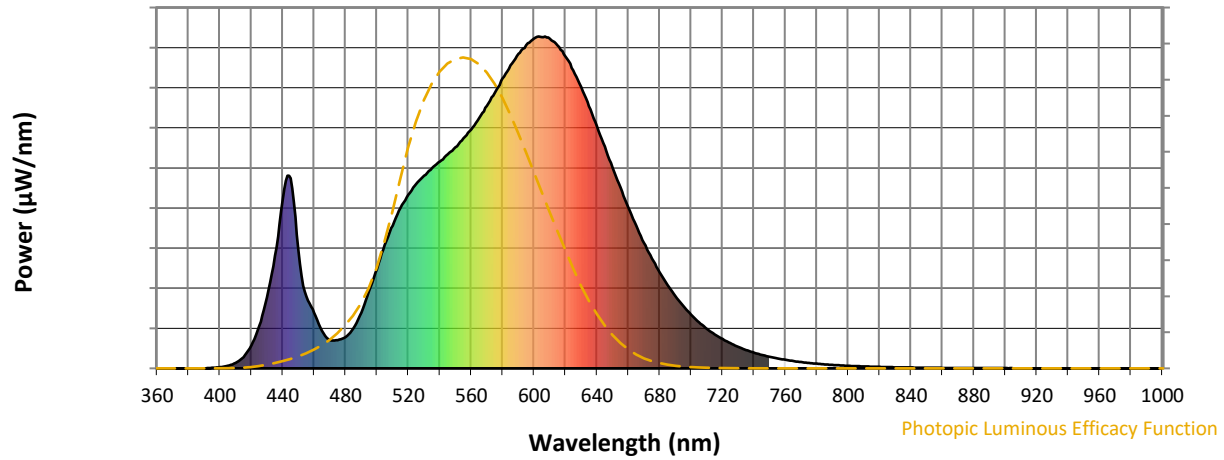
CCT = 3050K  
 CIE x = 0.4383  
 CIE y = 0.4131  
 Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle



REPORT NUMBER: SP1-2408-195-9

**Photopic Flux vs. Wavelength**

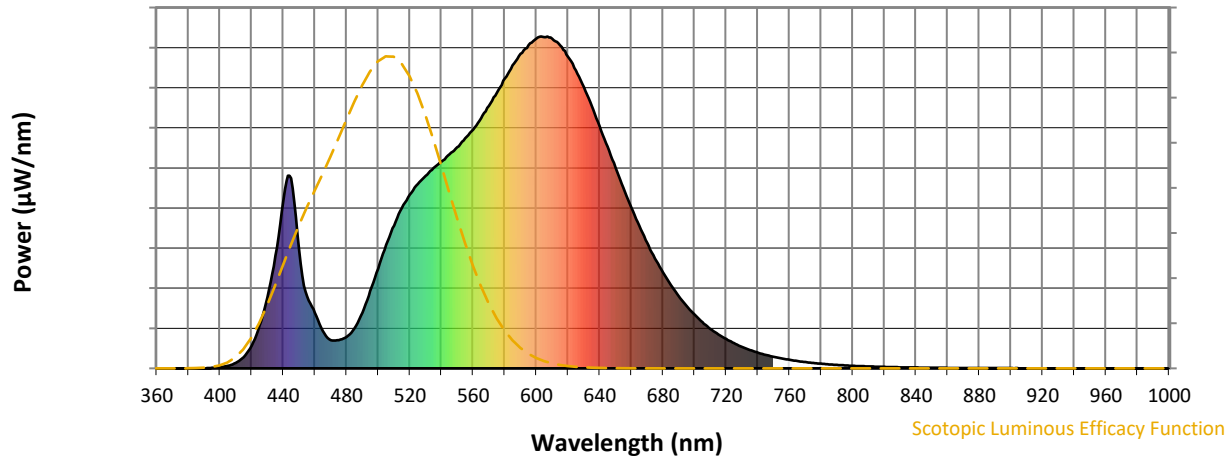


**Photopic Lumens: NR**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /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**



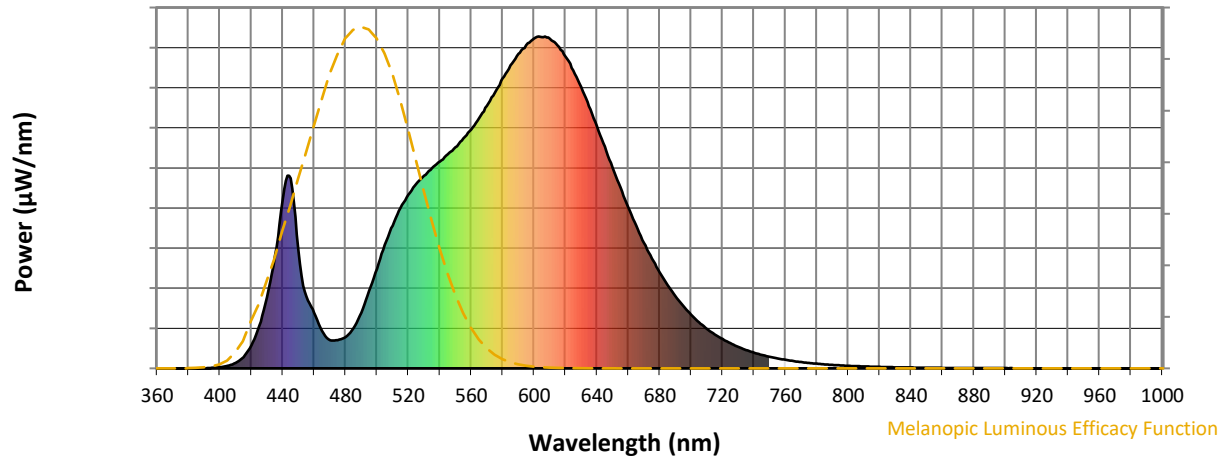
**Scotopic Lumens: NR**

**S/P: 1.27**

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

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**Melanopic Flux vs. Wavelength**



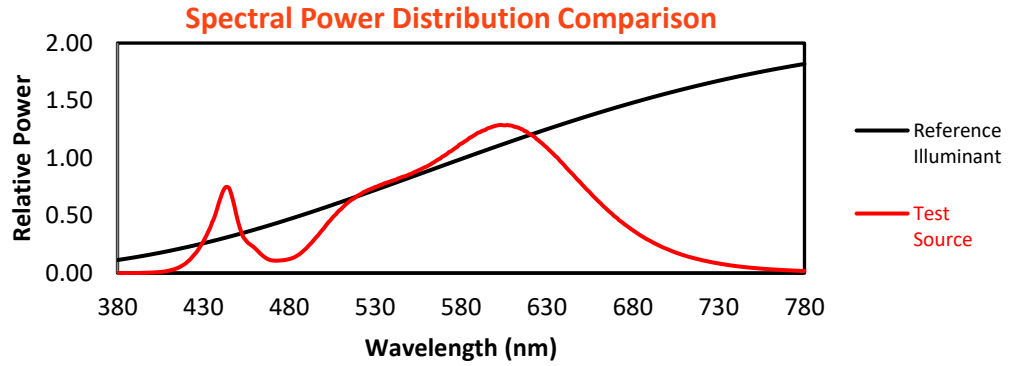
**Melanopic Lumens: NR**

**M/P: 2.32**

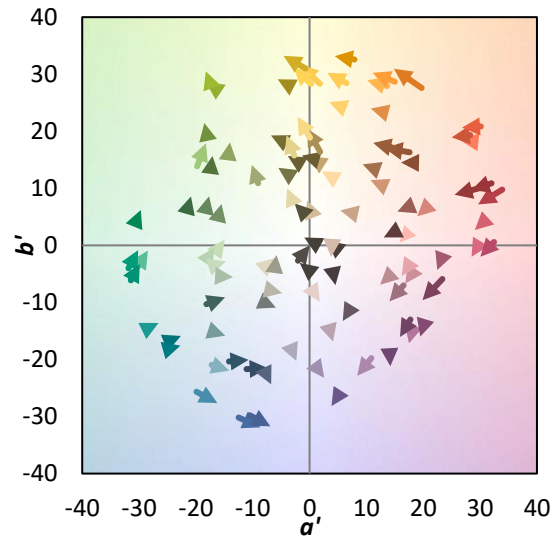
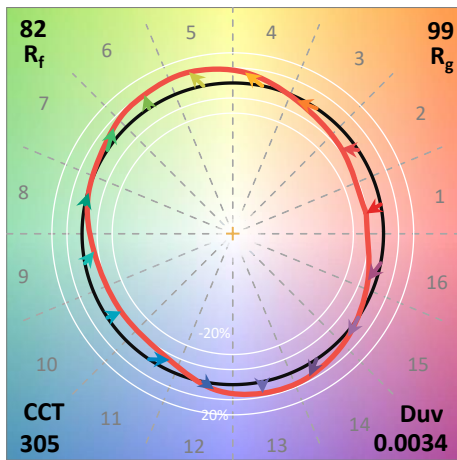
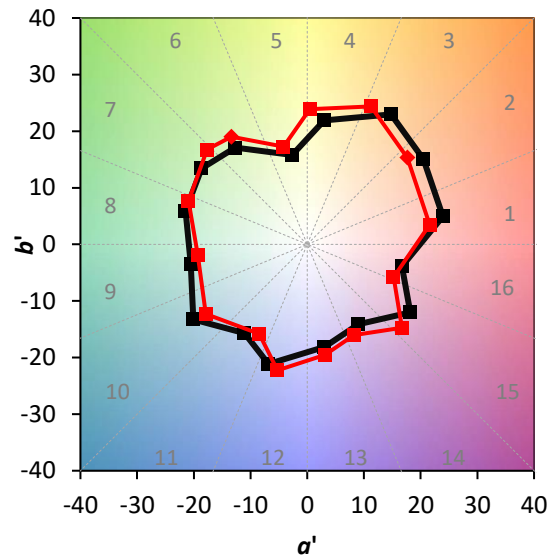
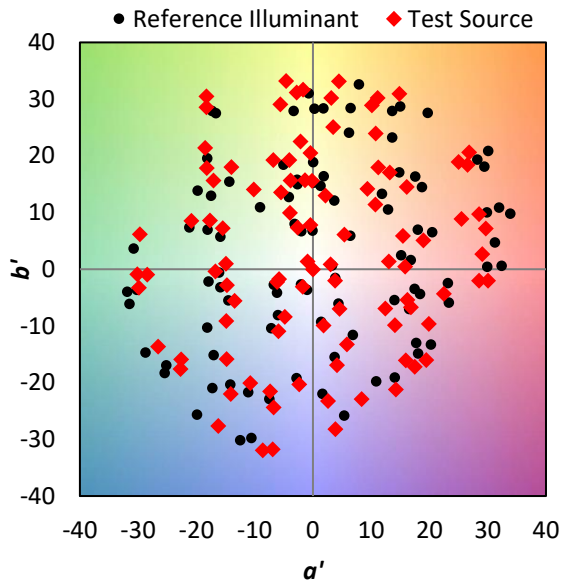
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	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**

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

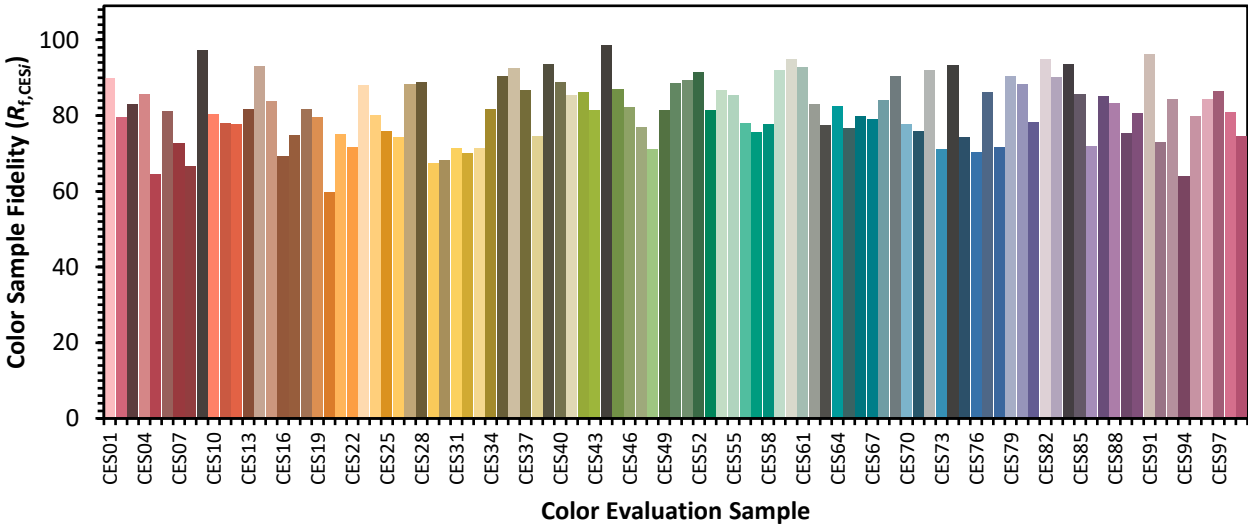


**Color Vector Graphics**

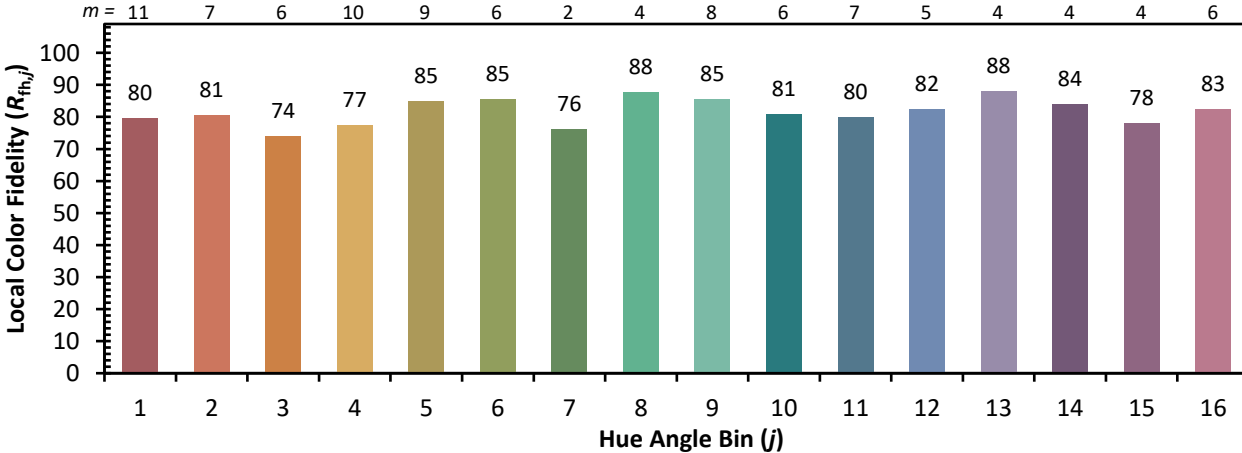
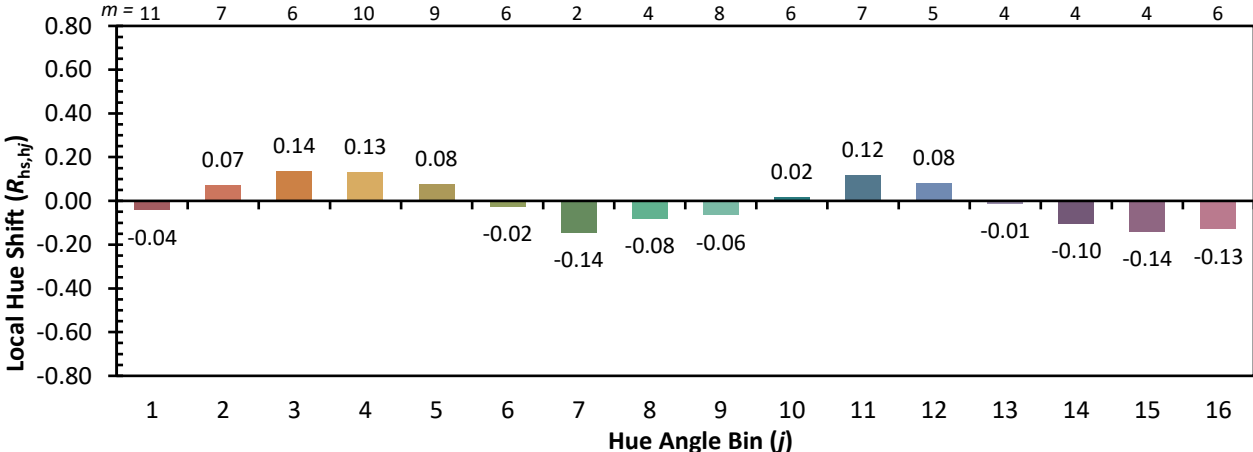
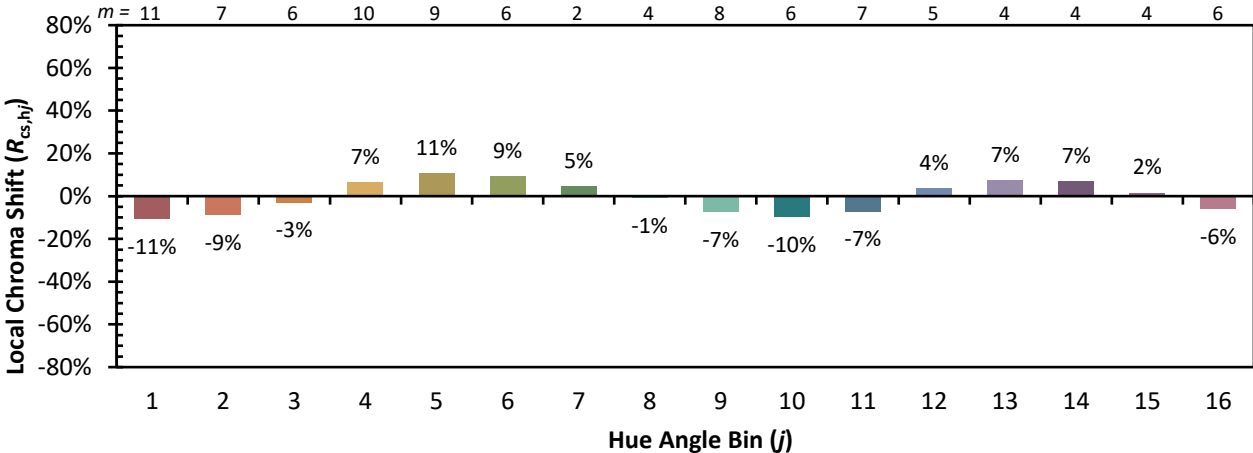


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

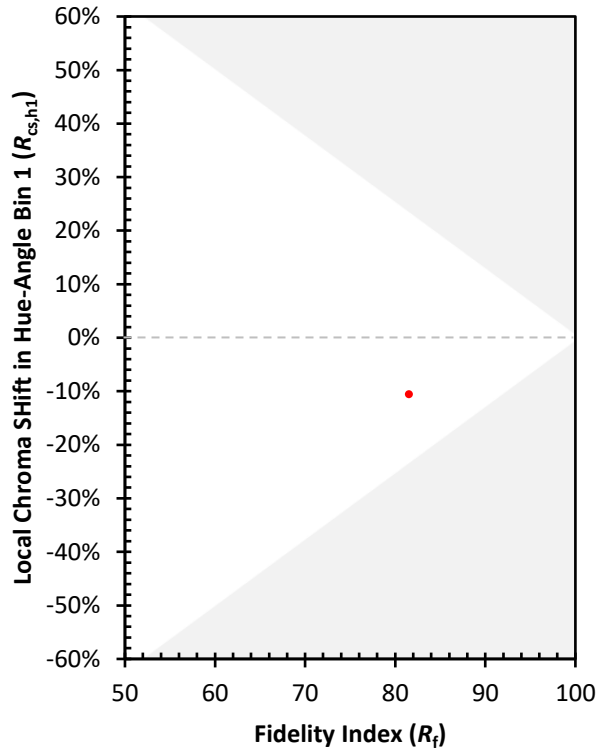
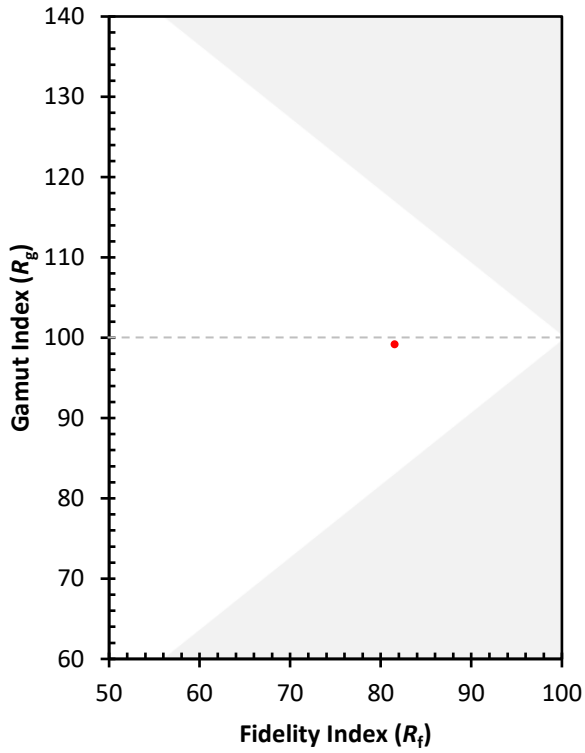
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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