

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: P320465

Luminaire Tested: **GLEON-SA1A-830-U-SLL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320465
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-SA1A-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3408 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 34
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

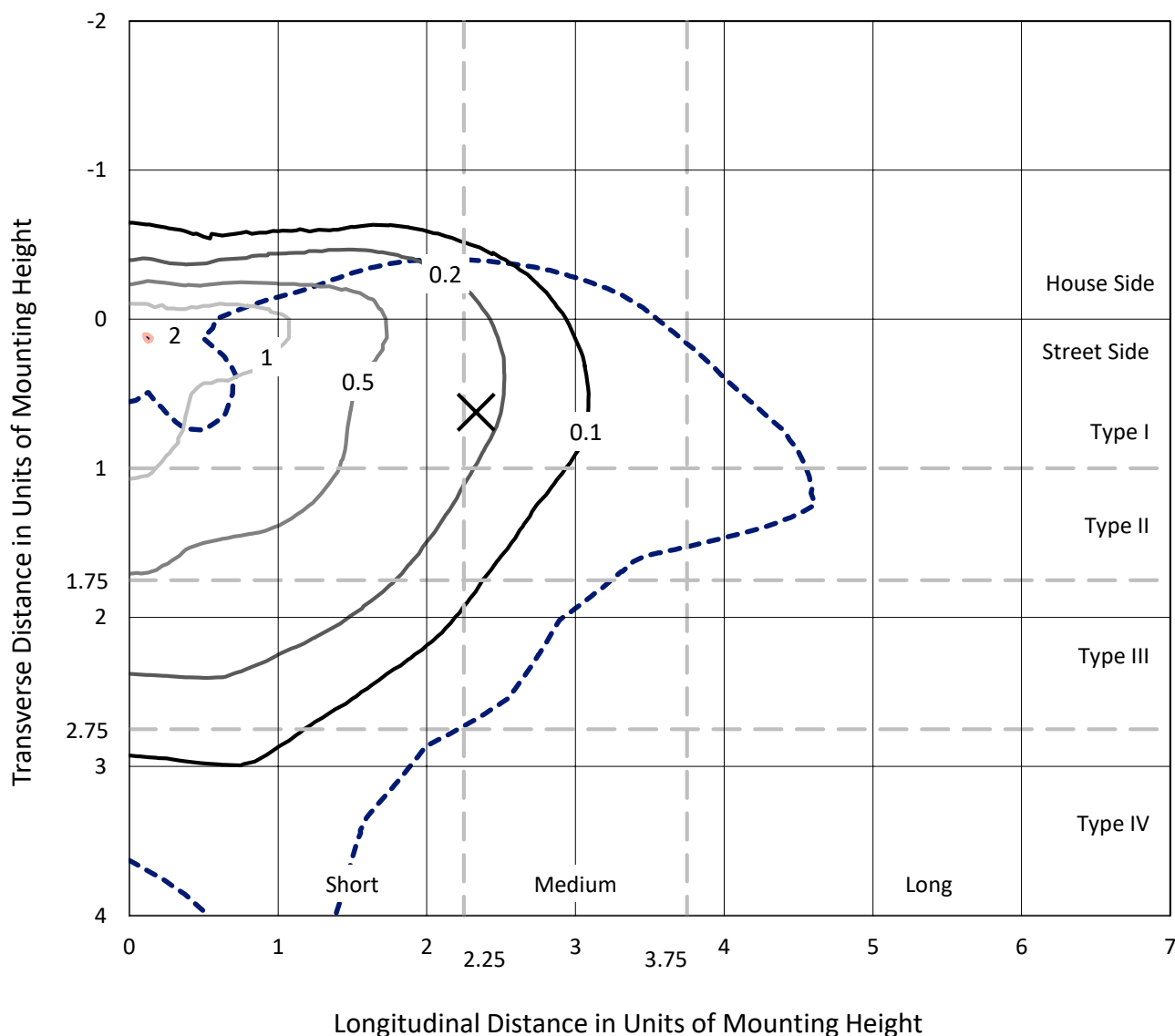


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

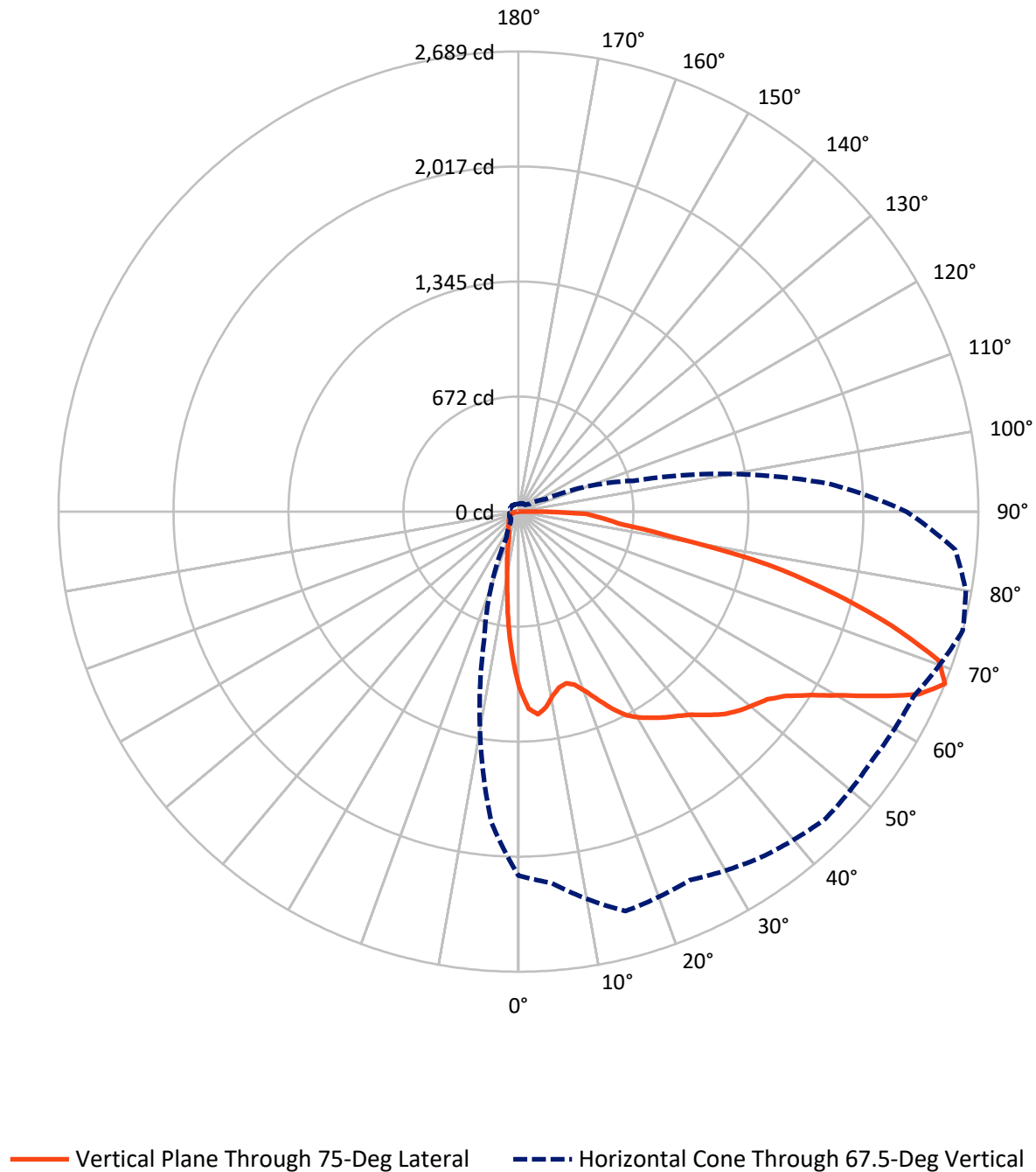
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	600.2	0.0	600.2
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	2807.8	0.0	2807.8
	% Fixture	82.4	0.0	82.4
Total	Lumens	3408.0	0.0	3408.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.1	2.4
10°-20°	166.5	4.9
20°-30°	236.7	6.9
30°-40°	341.2	10.0
40°-50°	480.8	14.1
50°-60°	668.4	19.6
60°-70°	808.3	23.7
70°-80°	496.8	14.6
80°-90°	129.3	3.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3408.0	100.0
0°-180°	3408.0	100.0

Coefficient of Utilization



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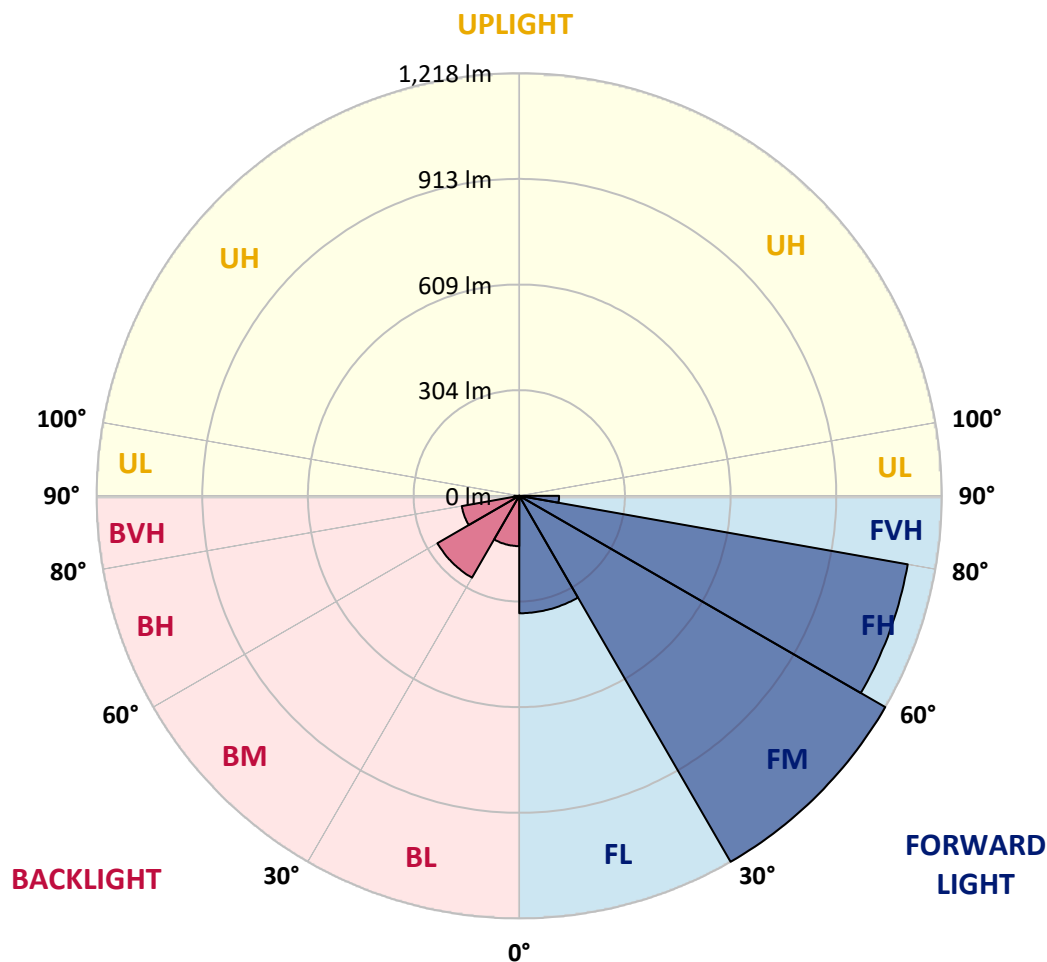
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	338.4	9.9			
FM	(30°-60°)	1217.8	35.7			
FH	(60°-80°)	1136.8	33.4			G1/1800
FVH	(80°-90°)	114.8	3.4			G2/225
BL	(0°-30°)	145.0	4.3	B1/500		
BM	(30°-60°)	272.5	8.0	B1/1000		
BH	(60°-80°)	168.3	4.9	B1/500		G1/500
BVH	(80°-90°)	14.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3
2.5°	1106.7	1121.2	1131.3	1141.3	1149.0	1156.7	1167.8	1179.0	1181.2	1183.2	1178.9
5°	1100.1	1135.7	1165.9	1196.0	1224.0	1251.9	1268.7	1285.4	1288.8	1292.2	1281.8
7.5°	1029.7	1082.1	1134.6	1187.1	1235.2	1283.2	1312.5	1341.7	1348.4	1354.9	1337.8
10°	949.6	1010.6	1075.1	1139.5	1202.9	1266.2	1308.6	1351.0	1359.4	1367.9	1346.5
12.5°	888.7	955.3	1024.1	1092.9	1159.8	1226.6	1270.4	1314.3	1324.8	1335.3	1319.8
15°	865.2	938.3	1003.0	1067.7	1126.0	1184.2	1220.2	1256.0	1260.4	1264.6	1262.1
17.5°	888.7	969.2	1027.8	1086.2	1118.0	1149.6	1164.0	1178.3	1183.1	1187.7	1194.0
20°	957.2	1044.1	1085.4	1126.6	1125.2	1123.7	1116.7	1109.7	1108.4	1107.2	1124.9
22.5°	1055.0	1156.0	1172.5	1188.8	1150.5	1112.2	1089.0	1065.5	1060.9	1056.1	1074.9
25°	1169.9	1277.4	1274.4	1271.3	1198.4	1125.3	1080.9	1036.5	1031.3	1026.1	1042.2
27.5°	1294.8	1397.6	1377.9	1358.3	1259.3	1160.2	1095.8	1031.3	1026.1	1021.0	1035.1
30°	1392.5	1485.7	1454.2	1422.8	1310.6	1198.5	1121.9	1045.3	1036.9	1028.3	1045.8
32.5°	1475.2	1554.5	1512.3	1470.1	1352.3	1234.6	1151.8	1068.9	1055.7	1042.5	1065.8
35°	1561.3	1623.2	1563.8	1504.3	1389.5	1274.7	1187.1	1099.3	1083.1	1066.9	1098.9
37.5°	1658.2	1709.6	1624.3	1538.9	1431.4	1323.9	1239.9	1155.9	1139.2	1122.6	1163.5
40°	1760.6	1803.3	1689.6	1575.8	1477.1	1378.5	1313.1	1247.6	1231.7	1215.8	1265.4
42.5°	1850.1	1881.3	1750.3	1619.4	1532.3	1445.1	1399.1	1352.9	1352.7	1352.5	1402.7
45°	1917.5	1944.6	1801.0	1657.3	1586.1	1514.9	1490.9	1466.9	1486.1	1505.3	1550.9
47.5°	1973.5	1991.9	1843.5	1695.0	1647.7	1600.5	1604.0	1607.5	1646.6	1685.7	1715.0
50°	2037.6	2022.7	1882.1	1741.3	1726.8	1712.2	1744.1	1775.8	1820.8	1865.6	1885.5
52.5°	2106.9	2067.5	1934.4	1801.2	1817.5	1833.9	1898.7	1963.6	2008.9	2054.3	2061.8
55°	2231.6	2171.2	2030.6	1889.9	1921.3	1952.7	2047.9	2143.0	2178.4	2213.9	2216.6
57.5°	2372.1	2318.5	2165.4	2012.2	2046.0	2079.8	2189.8	2299.6	2337.9	2376.0	2370.7
60°	2426.2	2428.7	2293.3	2157.7	2191.8	2225.9	2333.0	2440.1	2484.1	2527.9	2516.2
62.5°	2371.7	2435.6	2363.2	2290.7	2321.6	2352.4	2457.4	2562.3	2607.4	2652.5	2632.0
65°	2263.9	2327.2	2359.7	2392.1	2402.3	2412.5	2510.5	2608.3	2642.9	2677.4	2667.1
67.5°	2126.8	2178.0	2297.7	2417.2	2396.6	2376.0	2421.9	2467.9	2503.4	2539.0	2533.1
70°	1968.1	2029.1	2188.7	2348.2	2247.1	2145.9	2126.9	2108.0	2146.4	2184.7	2161.0
72.5°	1683.4	1775.5	1945.7	2115.8	1929.5	1743.2	1678.5	1613.8	1662.4	1711.1	1673.3
75°	1271.5	1393.8	1581.8	1769.7	1547.4	1325.2	1238.8	1152.4	1194.3	1236.1	1210.2
77.5°	884.3	1037.6	1222.8	1407.9	1182.0	956.0	891.8	827.5	840.0	852.4	848.1
80°	602.9	703.8	832.9	962.0	811.5	661.1	666.2	671.1	665.2	659.2	667.9
82.5°	378.1	449.1	548.8	648.4	568.6	488.7	534.5	580.3	557.8	535.2	543.7
85°	213.0	256.3	353.9	451.3	420.6	389.8	416.7	443.4	408.5	373.6	389.0
87.5°	40.6	67.6	195.8	323.9	294.0	264.2	229.6	195.0	148.8	102.6	149.9
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



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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°	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3
2.5°	1174.5	1172.2	1169.9	1161.6	1153.1	1140.6	1130.2	1112.2	1102.4	1087.6	1072.7
5°	1271.1	1256.4	1241.7	1216.3	1190.9	1162.5	1130.0	1093.9	1066.6	1031.2	995.8
7.5°	1320.6	1286.2	1251.8	1203.1	1154.4	1110.5	1059.0	1011.0	970.1	924.1	878.0
10°	1325.1	1273.6	1221.9	1158.7	1095.4	1042.1	982.8	929.5	880.5	827.6	774.6
12.5°	1304.1	1249.3	1194.4	1124.8	1055.0	994.5	930.8	871.1	816.7	758.5	700.2
15°	1259.7	1215.9	1172.1	1106.8	1041.5	980.5	918.6	847.9	786.5	726.9	667.2
17.5°	1200.1	1179.4	1158.6	1111.4	1064.2	1011.3	951.3	868.4	796.4	731.7	667.0
20°	1142.5	1150.1	1157.6	1138.8	1120.0	1077.6	1025.3	932.1	840.3	755.7	670.9
22.5°	1093.6	1130.2	1166.8	1181.3	1195.8	1170.3	1129.4	1021.6	900.1	789.6	679.1
25°	1058.2	1118.9	1179.7	1228.2	1276.6	1265.3	1233.8	1130.4	979.4	838.5	697.5
27.5°	1049.3	1123.8	1198.4	1273.6	1348.7	1359.1	1350.4	1245.0	1074.0	899.3	724.5
30°	1063.2	1138.7	1214.0	1305.6	1397.0	1438.9	1450.6	1340.5	1182.0	970.1	758.1
32.5°	1089.1	1163.1	1237.1	1336.8	1436.4	1499.6	1537.0	1427.8	1257.4	1023.5	789.6
35°	1130.9	1200.1	1269.4	1373.2	1477.0	1558.8	1626.9	1518.0	1324.3	1060.9	797.4
37.5°	1204.2	1263.8	1323.3	1419.2	1515.0	1621.0	1723.4	1617.3	1396.6	1096.9	797.0
40°	1315.0	1357.1	1399.1	1480.1	1561.1	1694.5	1832.6	1728.1	1476.6	1135.8	795.0
42.5°	1453.0	1474.7	1496.2	1560.4	1624.6	1771.2	1931.8	1836.4	1552.9	1172.1	791.2
45°	1596.2	1602.0	1607.7	1648.1	1688.5	1831.9	1999.4	1917.8	1619.5	1203.5	787.4
47.5°	1744.2	1724.6	1705.0	1721.0	1737.1	1878.5	2047.6	1979.5	1686.4	1238.4	790.3
50°	1905.4	1850.8	1796.1	1787.7	1779.2	1925.1	2104.5	2058.0	1766.8	1289.2	811.7
52.5°	2069.2	1979.1	1889.0	1855.7	1822.1	1980.7	2179.8	2155.7	1881.5	1368.0	854.3
55°	2219.3	2104.7	1990.1	1945.2	1900.2	2065.8	2271.8	2299.2	2028.6	1468.7	908.7
57.5°	2365.3	2235.4	2105.5	2063.9	2022.2	2190.7	2388.3	2427.9	2177.1	1565.3	953.4
60°	2504.5	2376.0	2247.4	2214.0	2180.5	2346.0	2514.2	2485.3	2253.7	1610.5	967.3
62.5°	2611.6	2509.4	2407.2	2389.6	2371.9	2503.1	2610.9	2462.9	2205.0	1566.0	926.9
65°	2656.7	2598.5	2540.2	2556.7	2573.0	2622.0	2635.0	2397.5	2052.1	1441.2	830.2
67.5°	2527.1	2539.0	2550.8	2620.0	2689.1	2655.5	2563.4	2268.6	1834.5	1264.3	694.1
70°	2137.2	2208.3	2279.3	2443.1	2606.7	2532.0	2371.4	2037.3	1572.7	1060.6	548.4
72.5°	1635.5	1715.5	1795.3	2038.4	2281.3	2212.5	2015.8	1673.3	1260.9	847.0	432.9
75°	1184.2	1274.5	1364.7	1632.9	1901.0	1805.5	1507.8	1198.1	957.7	646.5	335.2
77.5°	843.6	904.1	964.5	1229.4	1494.2	1338.6	1003.7	806.2	662.9	449.4	235.7
80°	676.6	658.1	639.6	787.1	934.7	908.8	663.8	517.8	458.8	301.1	143.5
82.5°	552.0	506.7	461.5	531.0	600.5	596.7	460.7	379.9	341.5	209.3	77.1
85°	404.3	386.1	368.0	429.5	490.9	438.5	312.0	241.4	266.2	154.1	42.0
87.5°	197.2	225.2	253.2	325.6	398.0	298.8	94.7	46.9	64.9	42.6	20.3
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: P320465
 CATALOG NUMBER: GLEON-SA1A-830-U-SLL

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P320465

CATALOG NUMBER: GLEON-SA1A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3
2.5°	1061.7	1050.5	1037.9	1025.2	1010.7	996.2	987.6	978.9	969.5	960.1	949.4
5°	972.3	948.9	922.3	895.7	869.4	843.1	829.0	814.8	799.8	784.7	771.6
7.5°	844.0	809.8	773.0	736.0	703.3	670.5	650.2	629.8	611.2	592.6	576.9
10°	731.0	687.4	650.5	613.4	588.8	564.1	545.4	526.8	508.8	490.7	473.3
12.5°	656.6	613.0	589.6	566.1	545.7	525.3	503.7	482.1	457.4	432.6	414.5
15°	627.6	587.9	561.9	535.8	508.4	480.8	454.4	428.0	398.8	369.7	349.1
17.5°	615.1	563.1	526.8	490.2	454.1	418.0	387.4	356.7	324.8	292.9	272.1
20°	601.8	532.8	484.0	435.1	388.7	342.4	307.7	272.9	244.4	216.0	200.0
22.5°	589.8	500.5	439.3	378.0	323.2	268.4	234.4	200.2	182.7	165.3	158.9
25°	584.9	472.3	397.0	321.8	264.1	206.2	181.9	157.6	151.0	144.2	140.9
27.5°	585.8	447.1	361.5	275.8	223.7	171.7	155.1	138.4	134.3	130.1	128.1
30°	588.9	419.7	328.0	236.3	193.3	150.4	139.7	128.8	124.4	120.0	117.5
32.5°	592.4	395.1	302.1	208.9	173.9	138.7	129.9	120.9	116.6	112.4	109.8
35°	586.3	375.1	284.4	193.6	161.3	128.9	121.4	113.8	109.1	104.5	102.1
37.5°	575.9	354.9	270.6	186.1	153.2	120.0	114.6	109.0	104.2	99.3	97.0
40°	566.5	337.9	260.4	182.7	148.7	114.5	109.8	105.2	100.3	95.2	92.5
42.5°	558.9	326.5	250.3	174.1	144.6	114.9	108.3	101.6	96.9	92.1	89.1
45°	553.2	319.0	242.4	165.8	140.8	115.7	107.4	99.1	94.3	89.4	85.8
47.5°	552.7	315.0	236.8	158.6	133.5	108.3	104.9	101.5	94.6	87.5	83.4
50°	560.1	308.6	230.3	151.8	126.6	101.4	106.0	110.5	98.6	86.7	81.5
52.5°	575.8	297.3	219.9	142.5	118.1	93.6	100.8	107.9	97.7	87.3	80.7
55°	594.8	280.7	204.2	127.7	107.0	86.1	92.5	98.8	92.4	85.8	77.8
57.5°	606.6	259.7	184.5	109.3	94.4	79.6	83.3	86.8	84.2	81.6	73.4
60°	599.5	231.8	162.3	92.7	83.4	74.1	73.4	72.6	76.4	80.3	70.9
62.5°	564.9	202.9	142.7	82.4	75.5	68.4	66.9	65.3	71.5	77.7	67.7
65°	506.5	182.7	130.3	77.8	70.0	62.3	60.6	59.0	60.9	62.8	58.2
67.5°	432.2	170.3	123.2	76.0	66.6	57.1	55.2	53.3	52.9	52.5	50.8
70°	355.6	162.7	118.5	74.4	62.9	51.4	49.6	47.8	47.3	46.6	45.4
72.5°	297.3	161.7	118.0	74.3	60.0	45.6	44.0	42.4	41.7	40.9	39.9
75°	243.5	151.8	112.0	72.2	55.9	39.4	37.9	36.4	35.8	35.2	34.3
77.5°	180.7	125.6	94.2	62.7	47.8	33.0	31.5	29.8	29.7	29.4	28.7
80°	117.2	90.9	67.3	43.7	34.9	25.9	24.7	23.3	23.4	23.6	23.0
82.5°	65.1	53.0	41.1	29.3	23.8	18.4	17.8	17.2	17.6	17.8	17.2
85°	34.3	26.7	22.1	17.4	13.8	10.1	10.1	9.9	10.5	11.0	10.5
87.5°	14.9	9.4	8.0	6.5	3.7	0.7	0.8	0.8	1.1	1.4	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320465
 CATALOG NUMBER: GLEON-SA1A-830-U-SLL

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P320465

CATALOG NUMBER: GLEON-SA1A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3
2.5°	938.7	928.7	918.6	907.6	909.6	901.2	892.7	887.4	882.1	880.5	878.8
5°	758.5	747.2	735.8	725.6	734.4	728.4	722.4	721.6	720.7	720.7	720.5
7.5°	561.2	549.1	536.8	528.4	537.1	536.0	534.9	540.8	546.7	551.4	556.1
10°	456.0	441.3	426.5	413.9	411.8	405.5	399.1	400.5	401.7	406.9	412.0
12.5°	396.4	378.8	361.2	346.5	339.8	329.5	319.0	312.4	305.9	306.6	307.1
15°	328.4	311.3	294.2	281.5	277.3	269.2	261.2	253.0	244.7	241.3	237.8
17.5°	251.1	237.5	223.7	215.3	215.3	213.0	210.7	206.6	202.3	198.9	195.4
20°	184.1	176.9	169.5	166.0	167.0	167.2	167.2	169.2	171.3	170.2	169.1
22.5°	152.3	149.7	147.2	145.7	146.2	146.3	146.5	148.4	150.2	151.5	152.7
25°	137.5	135.8	134.2	133.7	134.9	135.0	135.0	136.3	137.5	138.8	140.2
27.5°	125.9	125.2	124.5	123.6	124.8	124.8	124.7	126.0	127.3	128.5	129.6
30°	114.9	115.1	115.3	115.0	115.8	116.4	116.8	117.7	118.5	119.5	120.4
32.5°	107.1	106.7	106.3	106.0	107.8	108.7	109.7	110.6	111.5	111.9	112.3
35°	99.6	98.6	97.7	97.0	98.6	99.9	101.1	102.9	104.5	104.8	105.1
37.5°	94.6	93.3	92.1	91.3	92.0	92.5	93.1	95.0	96.9	98.0	98.9
40°	89.8	88.6	87.3	86.7	87.1	87.2	87.3	88.3	89.1	91.2	93.1
42.5°	86.0	84.5	83.0	82.2	82.4	82.7	82.8	82.7	82.6	84.5	86.4
45°	82.2	80.5	78.9	77.9	78.1	78.1	78.1	77.8	77.4	78.3	79.3
47.5°	79.2	77.3	75.3	74.4	74.1	73.9	73.6	73.4	73.2	73.9	74.4
50°	76.2	74.1	71.9	70.9	70.2	69.9	69.6	69.5	69.2	69.9	70.4
52.5°	73.9	71.4	68.9	67.2	66.5	66.1	65.7	65.8	65.8	66.1	66.2
55°	69.8	67.6	65.3	64.0	62.8	62.5	62.3	62.7	62.9	62.9	62.9
57.5°	65.3	63.2	61.0	60.2	59.1	59.1	59.0	59.5	60.0	60.2	60.5
60°	61.3	59.0	56.7	56.0	55.6	55.5	55.3	56.0	56.5	57.1	57.6
62.5°	57.6	55.2	52.7	51.9	51.8	51.9	51.9	52.6	53.1	53.7	54.2
65°	53.5	51.1	48.5	47.7	48.0	48.4	48.8	49.3	49.7	50.3	50.8
67.5°	49.1	47.0	44.8	44.0	44.1	44.7	45.2	45.6	45.9	46.5	47.0
70°	44.1	42.4	40.6	40.1	39.9	40.6	41.1	41.4	41.7	42.4	42.9
72.5°	38.8	37.3	35.8	35.4	35.6	36.0	36.4	36.8	37.1	37.7	38.3
75°	33.4	32.0	30.7	30.4	30.7	31.1	31.5	31.7	32.0	32.8	33.5
77.5°	28.1	26.6	24.9	24.8	25.2	25.6	25.9	26.3	26.7	27.8	28.9
80°	22.5	20.8	19.1	18.9	19.3	19.8	20.2	20.6	21.0	22.3	23.6
82.5°	16.5	14.6	12.7	12.4	13.8	14.2	14.6	15.3	15.8	17.0	18.3
85°	9.9	8.0	6.1	6.0	7.2	7.9	8.6	9.4	10.1	11.2	12.3
87.5°	1.1	0.5	0.0	0.0	0.1	0.7	1.2	1.9	2.6	3.7	4.6
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: P320465
 CATALOG NUMBER: GLEON-SA1A-830-U-SLL

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P320465

CATALOG NUMBER: GLEON-SA1A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3
2.5°	872.8	866.7	873.0	879.1	881.7	884.3	877.6	870.8	881.4	891.9	894.7
5°	715.1	709.5	713.7	717.8	708.7	699.5	698.6	697.5	705.4	713.3	714.5
7.5°	554.3	552.5	556.5	560.4	548.8	537.1	531.4	525.7	527.6	529.5	529.2
10°	413.3	414.4	419.3	424.0	415.0	406.0	402.1	398.1	402.5	406.7	410.7
12.5°	309.6	311.9	317.1	322.1	318.4	314.6	315.0	315.4	320.5	325.4	329.7
15°	240.5	243.2	246.9	250.4	250.6	250.6	254.1	257.5	257.1	256.7	259.7
17.5°	199.1	202.6	203.0	203.4	203.6	203.7	203.4	203.2	201.1	199.1	201.4
20°	170.5	171.7	172.8	173.7	172.5	171.1	167.7	164.3	163.0	161.6	163.8
22.5°	155.1	157.2	156.1	154.9	152.5	149.9	147.3	144.6	144.4	144.2	145.4
25°	142.1	143.9	142.0	140.1	138.3	136.5	134.8	133.0	132.8	132.7	133.3
27.5°	131.3	133.0	131.2	129.4	127.9	126.4	125.1	123.7	123.4	123.2	123.3
30°	122.1	123.6	122.1	120.4	119.4	118.1	117.2	116.2	116.1	116.0	116.0
32.5°	113.8	115.3	114.2	113.1	112.1	111.2	110.5	109.8	109.1	108.5	107.0
35°	106.6	108.1	107.4	106.6	105.5	104.4	103.1	101.8	100.0	98.1	97.3
37.5°	100.4	101.9	101.2	100.6	99.1	97.6	95.4	93.1	92.5	91.8	91.7
40°	95.5	97.8	96.5	95.0	92.7	90.3	89.2	88.2	87.9	87.6	87.3
42.5°	90.1	93.6	91.2	88.7	86.5	84.3	84.1	83.8	83.7	83.5	83.5
45°	83.3	87.1	84.6	82.0	80.8	79.6	79.6	79.6	79.7	79.7	80.0
47.5°	76.8	79.2	77.9	76.7	76.0	75.3	75.5	75.6	76.0	76.3	77.0
50°	71.4	72.2	72.5	72.6	72.2	71.8	72.1	72.2	72.6	72.9	73.4
52.5°	67.4	68.7	68.7	68.5	68.5	68.5	68.8	69.1	69.5	69.9	70.4
55°	64.9	66.6	66.1	65.5	65.7	65.7	65.9	66.2	66.6	66.9	67.7
57.5°	62.4	64.3	63.8	63.2	63.2	63.2	63.4	63.5	63.9	64.2	64.7
60°	59.5	61.5	60.9	60.2	60.4	60.5	60.6	60.6	60.9	61.0	61.0
62.5°	56.1	58.0	57.5	56.8	57.2	57.5	57.5	57.5	57.8	57.9	57.5
65°	52.6	54.4	53.8	53.3	53.8	54.2	54.5	54.6	54.5	54.4	54.0
67.5°	48.8	50.6	50.0	49.3	50.0	50.6	51.1	51.5	51.1	50.7	50.1
70°	44.7	46.5	45.8	45.1	45.8	46.5	47.0	47.6	47.0	46.5	46.3
72.5°	40.3	42.4	41.6	40.7	41.6	42.4	42.6	42.9	42.5	42.1	41.8
75°	35.6	37.6	36.9	36.1	36.8	37.5	37.6	37.7	37.7	37.6	36.8
77.5°	30.5	32.2	31.7	31.3	31.7	32.2	32.2	32.2	32.3	32.3	31.2
80°	24.5	25.5	25.6	25.8	25.9	26.0	25.9	25.8	25.5	25.2	24.5
82.5°	18.3	18.3	19.3	20.3	20.3	20.2	20.0	19.8	19.2	18.5	17.0
85°	11.6	10.9	12.7	14.3	14.3	14.2	13.9	13.5	12.4	11.2	9.9
87.5°	4.0	3.3	5.0	6.8	6.9	6.9	6.7	6.4	5.3	4.1	3.1
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: P320465
 CATALOG NUMBER: GLEON-SA1A-830-U-SLL

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P320465

CATALOG NUMBER: GLEON-SA1A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3
2.5°	898.7	900.5	902.1	915.5	928.7	944.2	959.8	971.6	983.4	995.5	1007.6
5°	718.7	720.9	723.1	739.3	755.4	777.1	798.7	817.4	836.1	858.0	879.9
7.5°	532.8	537.5	542.2	559.5	576.6	599.9	623.1	647.5	671.7	700.4	729.0
10°	418.4	427.4	436.3	454.0	471.7	494.7	517.6	543.1	568.6	596.8	624.9
12.5°	338.7	350.7	362.6	383.8	405.1	432.6	460.0	488.3	516.5	541.3	566.1
15°	267.6	280.7	293.6	316.1	338.6	368.8	399.0	429.9	460.7	490.4	520.1
17.5°	208.7	219.5	230.1	249.2	268.1	297.4	326.7	359.2	391.6	427.8	463.9
20°	168.4	172.9	177.4	191.2	204.8	228.6	252.3	285.5	318.6	361.9	405.2
22.5°	147.6	149.9	152.1	158.7	165.3	180.7	195.9	225.2	254.4	301.7	348.8
25°	135.0	136.8	138.6	142.9	147.3	154.6	162.0	182.6	203.2	249.6	295.9
27.5°	123.7	126.4	129.0	131.1	133.0	138.0	142.9	156.4	169.9	213.2	256.4
30°	115.5	116.5	117.5	120.6	123.6	128.8	133.9	143.3	152.7	189.4	225.9
32.5°	106.0	107.4	108.7	112.0	115.3	120.0	124.8	132.4	139.9	171.3	202.5
35°	97.4	98.8	100.1	103.4	106.6	111.7	116.8	123.2	129.4	156.7	183.9
37.5°	92.1	93.5	94.8	97.7	100.4	105.6	110.6	115.7	120.6	145.8	171.0
40°	87.6	89.0	90.3	93.1	95.7	100.7	105.6	109.8	114.0	137.6	161.2
42.5°	83.7	85.2	86.7	89.4	92.0	96.5	101.0	106.6	112.0	130.5	148.9
45°	80.4	81.9	83.3	86.2	89.2	93.6	98.0	105.7	113.5	126.9	140.2
47.5°	77.4	79.0	80.5	83.8	87.1	92.5	97.8	104.4	110.8	124.0	137.2
50°	74.5	76.4	78.3	82.3	86.1	95.2	104.2	105.2	106.0	121.7	137.2
52.5°	71.8	74.0	76.2	81.1	85.8	96.5	107.1	103.7	100.1	117.3	134.5
55°	69.1	71.0	72.8	78.8	84.8	92.5	100.3	95.8	91.2	109.1	127.1
57.5°	65.4	67.4	69.4	75.8	82.2	87.6	92.9	88.8	84.6	99.9	115.0
60°	61.6	63.9	66.2	74.4	82.4	81.5	80.4	79.6	78.6	89.5	100.4
62.5°	58.2	60.6	63.1	73.7	84.3	77.8	71.3	71.9	72.5	80.5	88.6
65°	54.8	57.2	59.5	64.9	70.2	67.6	65.0	66.1	67.0	74.9	82.8
67.5°	51.0	53.1	55.2	57.0	58.7	59.0	59.3	60.4	61.5	70.9	80.1
70°	46.7	48.5	50.3	51.5	52.6	53.1	53.5	54.9	56.3	66.5	76.7
72.5°	42.0	43.5	44.8	45.9	47.0	47.4	47.7	49.1	50.4	61.3	72.2
75°	36.8	38.0	39.1	40.1	41.0	41.6	42.1	43.1	44.0	55.9	67.6
77.5°	31.1	32.3	33.4	34.2	34.9	35.4	35.8	37.1	38.3	48.2	58.0
80°	24.3	25.8	27.1	27.8	28.3	28.5	28.5	29.6	30.7	37.7	44.7
82.5°	17.2	18.8	20.3	20.8	21.4	21.4	21.4	22.6	23.8	28.6	33.2
85°	10.1	11.9	13.5	14.0	14.6	14.9	15.0	15.5	15.9	19.3	22.6
87.5°	3.1	4.6	6.0	6.3	6.5	7.1	7.6	7.8	7.8	10.1	12.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320465
 CATALOG NUMBER: GLEON-SA1A-830-U-SLL

CANDELA DISTRIBUTION (continued):

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

REPORT NUMBER: P320465

CATALOG NUMBER: GLEON-SA1A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3
2.5°	1021.5	1035.4	1051.6	1067.7	1081.5	1095.2	1106.7
5°	907.9	935.8	970.0	1004.1	1034.4	1064.8	1100.1
7.5°	765.1	801.2	845.5	889.7	932.7	975.4	1029.7
10°	661.7	698.3	745.2	791.9	840.1	888.2	949.6
12.5°	596.0	625.7	671.1	716.4	773.1	829.7	888.7
15°	552.7	585.1	629.2	673.4	735.4	797.4	865.2
17.5°	506.5	548.8	605.4	661.9	735.4	808.7	888.7
20°	458.1	510.8	584.1	657.4	756.4	855.1	957.2
22.5°	409.9	470.9	564.9	658.8	788.1	917.3	1055.0
25°	366.4	436.8	553.2	669.4	834.3	999.0	1169.9
27.5°	333.4	410.3	548.4	686.5	892.9	1099.3	1294.8
30°	304.1	382.3	542.7	703.1	949.3	1195.4	1392.5
32.5°	278.8	355.1	531.7	708.1	988.7	1269.2	1475.2
35°	258.9	333.8	513.1	692.4	1013.3	1334.2	1561.3
37.5°	241.7	312.4	492.0	671.6	1035.3	1398.9	1658.2
40°	225.4	289.5	473.9	658.1	1065.5	1472.9	1760.6
42.5°	209.8	270.7	459.3	647.9	1093.6	1539.1	1850.1
45°	198.3	256.3	446.4	636.3	1111.7	1587.1	1917.5
47.5°	192.5	247.7	439.4	631.0	1129.8	1628.5	1973.5
50°	191.7	246.2	447.3	648.4	1169.1	1689.6	2037.6
52.5°	191.6	248.7	470.1	691.5	1242.0	1792.3	2106.9
55°	188.7	250.2	497.2	744.1	1339.8	1935.4	2231.6
57.5°	180.0	245.0	525.1	805.1	1443.2	2081.2	2372.1
60°	166.5	232.5	548.2	863.7	1512.7	2161.5	2426.2
62.5°	149.6	210.5	555.8	900.9	1510.8	2120.7	2371.7
65°	135.2	187.5	530.7	873.8	1434.4	1994.8	2263.9
67.5°	122.4	164.5	468.0	771.5	1296.9	1822.1	2126.8
70°	113.1	149.3	387.2	625.1	1124.8	1624.3	1968.1
72.5°	107.2	142.1	315.7	489.2	912.8	1336.3	1683.4
75°	99.2	130.8	247.7	364.5	698.6	1032.7	1271.5
77.5°	84.2	110.2	186.7	263.1	512.6	761.9	884.3
80°	65.0	85.2	128.4	171.5	352.8	534.0	602.9
82.5°	46.3	59.4	77.8	96.2	234.4	372.4	378.1
85°	28.6	34.6	44.6	54.5	155.1	255.6	213.0
87.5°	15.4	18.4	23.6	28.6	49.6	70.6	40.6
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: P320465
 CATALOG NUMBER: GLEON-SA1A-830-U-SLL

CANDELA DISTRIBUTION (continued):

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

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

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

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

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

Test Information

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

Spectral Parameters

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

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



Test Conditions

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

REPORT NUMBER: SP1-2408-195-9

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

REPORT NUMBER: SP1-2408-195-9

CIE 1931 Chromaticity Diagram



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



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength



Photopic Lumens: NR

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

REPORT NUMBER: SP1-2408-195-9

Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.27

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

REPORT NUMBER: SP1-2408-195-9

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.32

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

REPORT NUMBER: SP1-2408-195-9

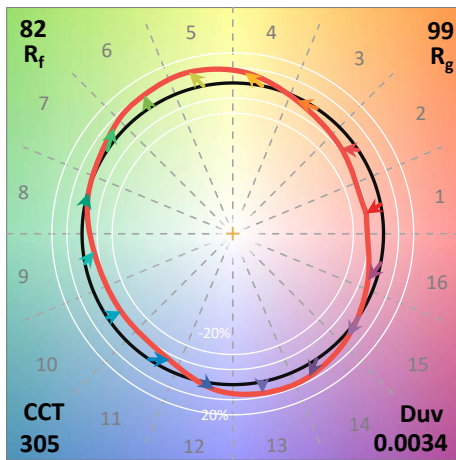
TM-30-18

Summary

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



Color Vector Graphics



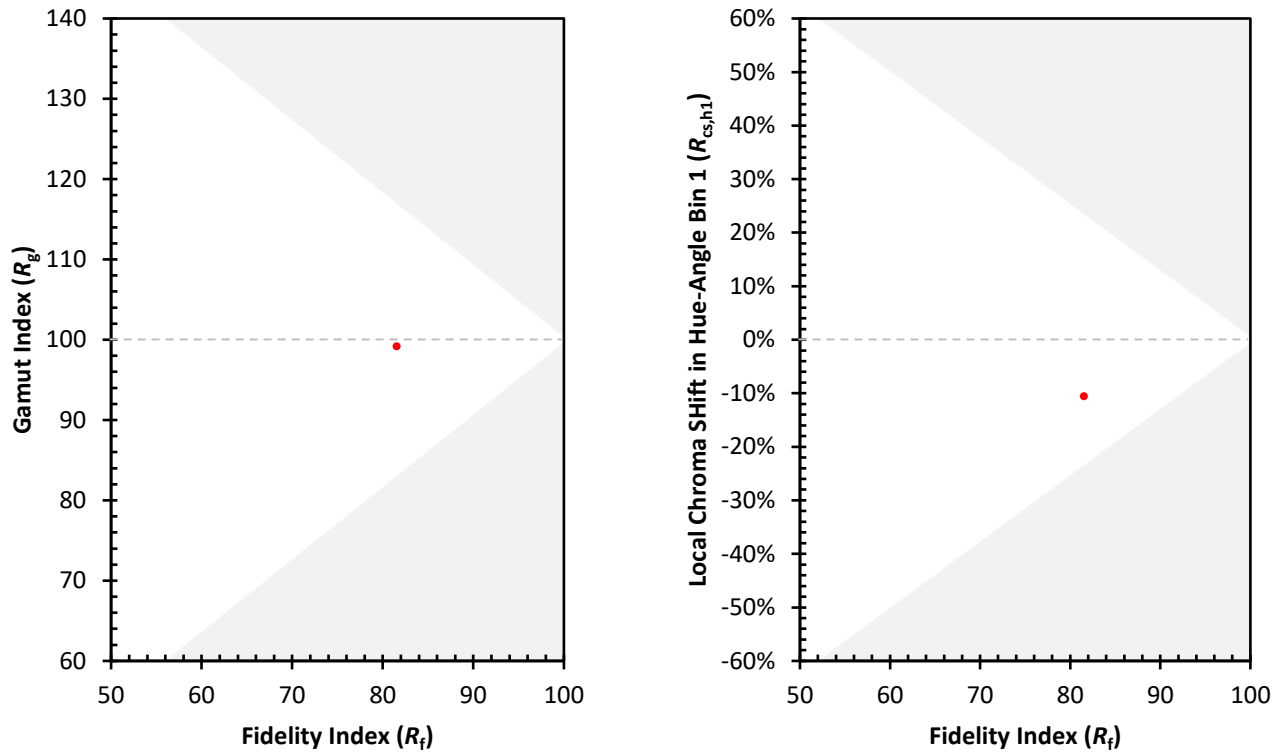
Individual Sample Fidelity Index ($R_{f,i}$)

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)