

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: P324275

Luminaire Tested: **GLEON-SA1B-827-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1B-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3262 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

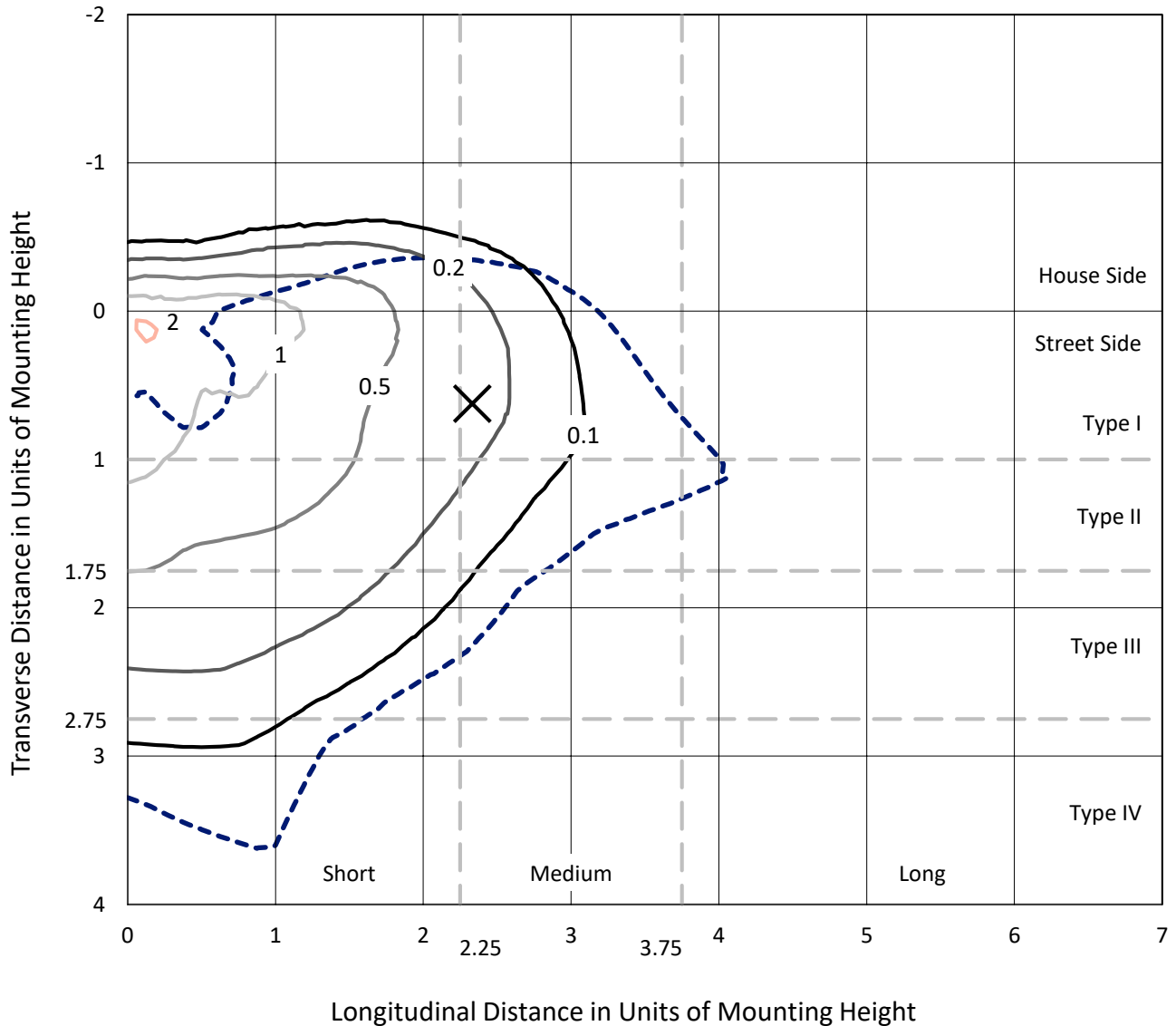
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324275
 CATALOG NUMBER: GLEON-SA1B-827-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

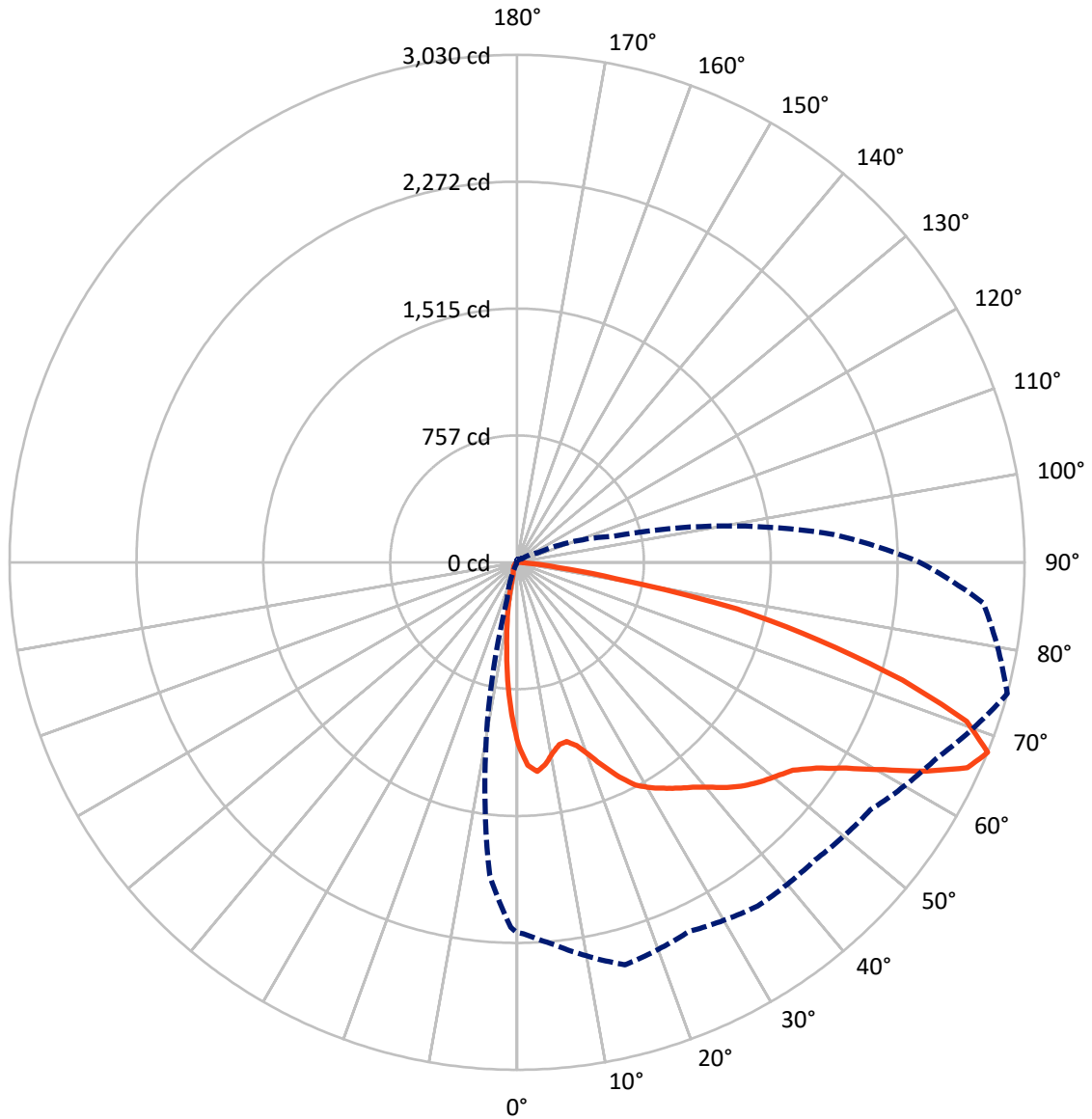
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Medium - N/A

REPORT NUMBER: P324275
CATALOG NUMBER: GLEON-SA1B-827-U-SLL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P324275
 CATALOG NUMBER: GLEON-SA1B-827-U-SLL-HSS

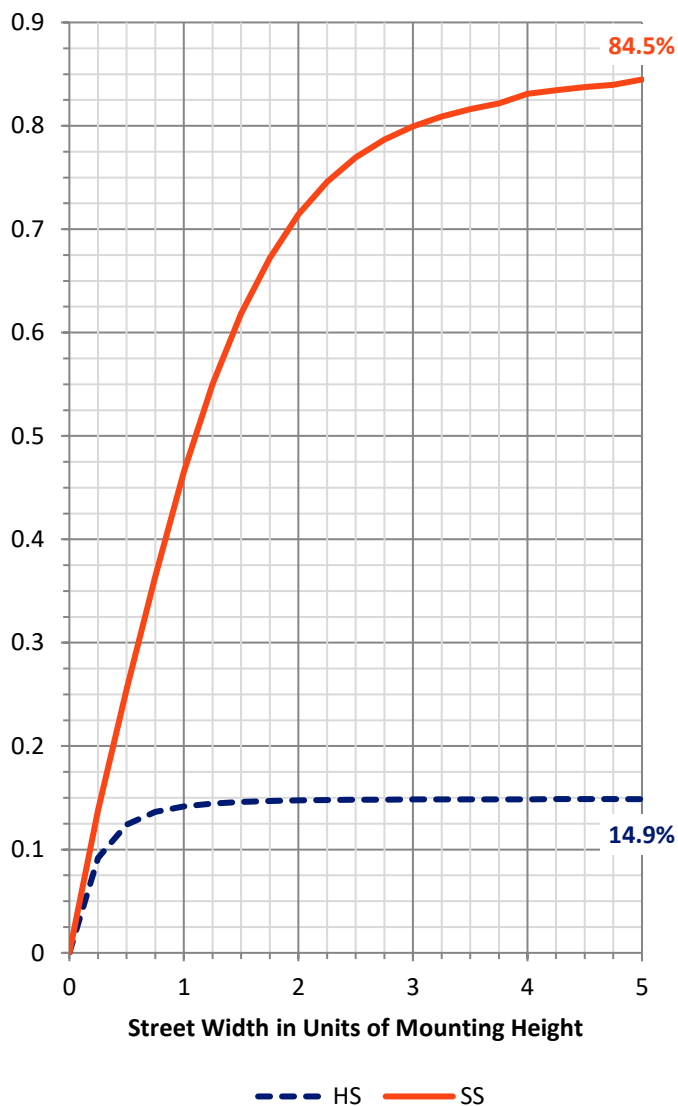
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	489.5	0.0	489.5
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	2772.5	0.0	2772.5
	% Fixture	85.0	0.0	85.0
Total	Lumens	3262.0	0.0	3262.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	2.5
10°-20°	163.4	5.0
20°-30°	231.2	7.1
30°-40°	340.0	10.4
40°-50°	488.7	15.0
50°-60°	687.9	21.1
60°-70°	803.4	24.6
70°-80°	409.9	12.6
80°-90°	54.4	1.7
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°	3262.0	100.0
0°-180°	3262.0	100.0

Coefficient of Utilization

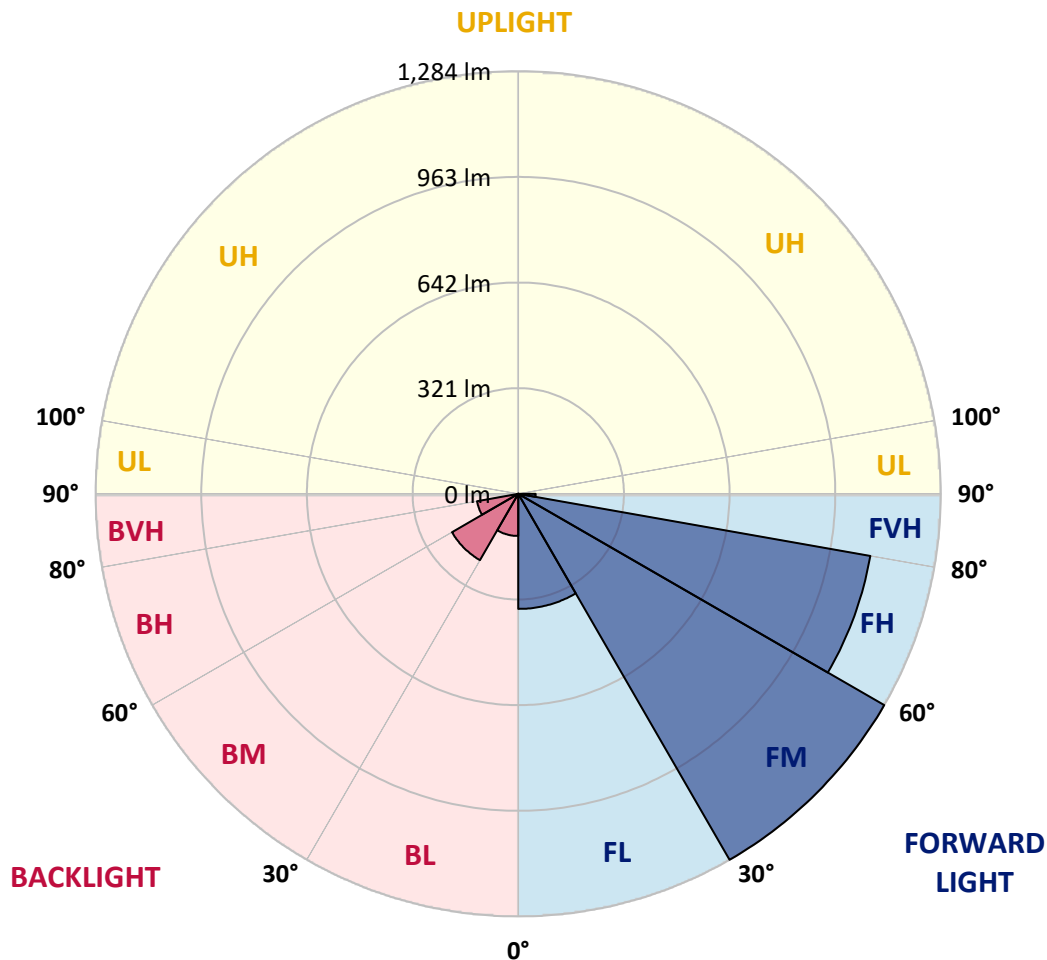


REPORT NUMBER: P324275
 CATALOG NUMBER: GLEON-SA1B-827-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	349.7	10.7			
FM (30°-60°)	1283.9	39.4			
FH (60°-80°)	1086.2	33.3			G1/1800
FVH (80°-90°)	52.8	1.6			G1/100
BL (0°-30°)	128.0	3.9	B1/500		
BM (30°-60°)	232.7	7.1	B1/1000		
BH (60°-80°)	127.1	3.9	B1/500		G1/500
BVH (80°-90°)	1.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type III Medium





REPORT NUMBER: P324275

CATALOG NUMBER: GLEON-SA1B-827-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1094.3	1094.3	1094.3	1094.3	1094.3	1094.3	1094.3	1094.3	1094.3	1094.3	1094.3
2.5°	1186.3	1188.1	1197.7	1220.0	1244.2	1246.1	1262.5	1245.6	1239.9	1212.7	1184.6
5°	1195.2	1202.4	1235.3	1300.6	1357.3	1375.6	1388.6	1355.5	1320.7	1254.3	1183.4
7.5°	1123.1	1135.0	1186.8	1309.4	1410.8	1455.6	1464.1	1412.4	1327.2	1217.8	1111.2
10°	1030.7	1044.3	1106.7	1257.5	1396.8	1473.5	1485.3	1417.5	1295.1	1158.8	1033.2
12.5°	955.9	971.8	1035.6	1199.1	1348.4	1433.4	1456.6	1400.3	1267.3	1116.9	979.8
15°	921.4	939.7	1006.7	1161.4	1294.8	1361.7	1380.8	1356.6	1251.8	1110.3	967.5
17.5°	941.2	961.0	1030.2	1164.7	1244.4	1273.0	1288.4	1298.3	1251.8	1150.3	1003.6
20°	1022.3	1043.7	1116.9	1197.6	1202.7	1192.0	1208.5	1243.3	1266.3	1226.3	1090.5
22.5°	1134.5	1159.6	1242.2	1254.0	1182.3	1141.9	1144.1	1198.6	1292.8	1322.7	1211.0
25°	1271.3	1301.9	1385.9	1338.0	1190.8	1112.1	1111.3	1161.9	1318.6	1419.3	1345.3
27.5°	1407.1	1440.8	1514.7	1440.6	1225.8	1106.7	1105.2	1150.7	1343.7	1505.2	1491.9
30°	1521.0	1553.7	1617.4	1515.0	1263.7	1119.4	1112.0	1162.6	1358.7	1561.0	1598.9
32.5°	1613.7	1640.0	1691.4	1566.1	1304.2	1143.9	1127.9	1194.5	1384.2	1608.1	1697.1
35°	1715.7	1743.3	1763.9	1614.8	1349.6	1179.3	1156.3	1245.0	1423.5	1656.0	1804.9
37.5°	1832.0	1859.6	1857.1	1659.3	1407.3	1237.9	1223.2	1325.1	1484.5	1703.5	1925.1
40°	1945.9	1974.1	1954.0	1708.0	1474.9	1334.5	1323.7	1445.3	1566.3	1764.2	2066.0
42.5°	2052.6	2083.0	2040.0	1754.0	1555.6	1456.2	1474.8	1600.1	1668.6	1839.0	2187.5
45°	2138.5	2169.5	2112.2	1798.8	1640.6	1604.0	1659.8	1771.6	1791.6	1902.2	2269.5
47.5°	2200.9	2230.3	2162.3	1843.6	1749.4	1784.6	1881.8	1951.5	1902.7	1957.1	2327.8
50°	2240.8	2263.6	2176.9	1899.7	1892.2	1995.4	2113.1	2147.1	2007.3	2006.5	2398.5
52.5°	2266.1	2276.5	2187.8	1958.3	2041.1	2224.8	2339.7	2350.3	2115.0	2060.9	2493.9
55°	2353.4	2361.8	2264.4	2029.2	2164.3	2425.9	2544.6	2534.7	2236.9	2167.4	2606.4
57.5°	2502.4	2511.2	2422.8	2131.2	2263.9	2550.1	2693.1	2710.8	2379.8	2316.9	2726.9
60°	2577.2	2593.5	2562.0	2260.4	2360.5	2629.5	2794.3	2851.0	2558.5	2514.1	2843.7
62.5°	2509.3	2533.1	2578.9	2403.6	2456.5	2673.3	2825.8	2901.2	2741.4	2743.9	2915.7
65°	2374.0	2393.0	2470.5	2482.1	2512.1	2667.9	2747.9	2831.1	2853.5	2955.0	2911.9
67.5°	2210.5	2217.6	2283.4	2488.3	2431.4	2505.3	2514.0	2575.5	2764.9	3029.8	2794.9
70°	1975.1	1979.0	2036.5	2281.4	2089.5	2105.7	2092.9	2105.4	2377.1	2847.6	2499.6
72.5°	1589.6	1599.3	1681.1	1894.6	1522.2	1475.4	1576.2	1570.6	1830.7	2405.8	1856.5
75°	1170.4	1187.2	1310.7	1526.1	1068.4	966.4	1040.0	1059.6	1301.4	1860.9	1160.9
77.5°	819.4	832.0	951.6	1121.9	773.2	691.0	664.5	687.8	859.0	1346.2	584.9
80°	472.1	476.7	553.0	647.8	521.1	596.2	540.1	556.1	514.7	598.9	251.6
82.5°	308.9	309.7	339.5	385.5	324.5	377.0	279.1	356.8	316.6	240.6	81.9
85°	166.9	167.8	196.9	273.7	183.7	103.8	61.0	125.3	195.8	55.2	22.4
87.5°	18.4	16.8	59.3	99.5	51.0	9.4	3.2	14.1	31.4	3.6	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P324275

CATALOG NUMBER: GLEON-SA1B-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1094.3	1094.3	1094.3	1094.3	1094.3	1094.3	1094.3	1094.3	1094.3	1094.3	1094.3
2.5°	1170.2	1157.4	1125.4	1091.6	1064.4	1038.9	1013.2	981.9	957.6	952.6	944.6
5°	1145.2	1104.5	1037.5	970.1	915.9	847.4	804.0	770.2	737.1	735.1	728.4
7.5°	1057.7	1004.3	909.8	816.7	740.3	675.1	609.3	565.3	530.6	518.4	511.2
10°	973.7	913.6	795.6	689.3	621.2	563.6	517.2	471.1	429.4	400.7	387.7
12.5°	914.9	848.5	718.5	626.9	578.1	523.4	466.8	409.3	361.3	326.7	305.5
15°	892.2	821.3	692.7	602.2	541.9	472.7	400.4	334.7	281.4	250.0	231.0
17.5°	919.3	836.8	690.7	572.1	487.8	401.8	321.9	244.3	194.1	170.3	158.1
20°	987.9	885.9	690.0	535.1	423.6	317.7	218.0	160.7	130.3	117.0	111.3
22.5°	1084.9	948.6	696.1	498.7	356.6	227.0	150.5	118.1	102.4	95.3	92.1
25°	1209.8	1036.7	713.6	465.6	293.8	169.4	117.3	98.9	87.9	82.4	80.0
27.5°	1342.8	1138.1	740.8	436.8	242.6	135.1	100.4	84.7	76.8	72.9	70.8
30°	1452.5	1255.5	768.3	404.9	205.5	117.7	91.9	77.3	68.1	65.7	63.7
32.5°	1548.5	1344.4	787.8	376.0	181.3	104.6	83.1	69.1	62.9	58.1	55.9
35°	1647.9	1418.4	787.1	355.7	164.6	94.7	75.7	61.8	54.4	48.8	47.1
37.5°	1755.4	1502.0	773.7	338.4	157.3	86.8	71.5	57.9	50.5	45.0	42.8
40°	1881.3	1589.8	760.0	322.2	155.3	80.5	68.6	54.9	47.0	41.6	39.4
42.5°	2004.0	1668.9	747.9	310.1	146.6	80.4	66.0	52.5	44.2	38.9	36.5
45°	2102.2	1742.6	745.6	302.9	137.5	83.1	64.6	51.0	42.0	36.8	34.5
47.5°	2183.7	1822.6	760.4	297.8	128.9	75.9	68.0	49.9	40.0	34.9	32.3
50°	2280.8	1920.9	795.3	289.4	119.8	68.3	77.9	50.2	38.3	33.1	30.3
52.5°	2416.2	2056.9	846.6	275.4	107.2	61.3	76.6	50.5	36.5	31.1	28.3
55°	2567.9	2226.7	901.8	252.0	89.8	52.2	65.7	48.4	32.9	28.9	26.3
57.5°	2727.4	2380.8	934.6	224.2	71.4	45.1	52.5	44.0	29.1	26.0	24.3
60°	2752.4	2439.3	919.6	190.1	56.7	39.2	38.9	44.8	26.0	22.9	21.6
62.5°	2690.1	2365.8	847.1	159.6	47.4	34.5	32.0	39.1	23.5	20.4	19.2
65°	2570.4	2166.9	729.7	143.9	44.0	29.5	26.6	27.5	20.6	17.8	16.7
67.5°	2403.8	1901.4	599.1	134.9	43.6	25.3	22.7	20.9	17.8	15.5	14.5
70°	2063.2	1584.0	477.9	130.0	42.3	21.3	19.2	17.0	14.8	13.1	12.4
72.5°	1518.5	1122.5	371.8	124.5	42.6	17.0	16.7	14.1	11.9	10.2	9.9
75°	877.4	641.3	243.8	100.9	40.6	13.1	13.9	9.9	8.3	7.1	7.1
77.5°	467.6	391.1	92.9	42.0	14.8	8.3	7.9	5.9	5.3	4.3	4.2
80°	203.8	172.1	28.0	11.7	8.2	4.5	2.9	2.6	2.3	1.9	1.7
82.5°	72.2	62.3	9.1	5.7	3.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.4	11.7	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P324275
 CATALOG NUMBER: GLEON-SA1B-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1094.3	1094.3	1094.3	1094.3	1094.3	1094.3	1094.3	1094.3	1094.3	1094.3	1094.3
2.5°	928.2	924.8	904.7	905.5	909.1	914.2	902.1	907.7	922.7	937.0	942.4
5°	717.8	718.5	706.3	713.9	720.7	725.3	705.9	706.2	718.1	734.3	742.8
7.5°	505.8	504.5	505.1	523.2	536.0	526.8	534.0	508.9	510.4	522.0	513.3
10°	376.0	359.0	349.4	363.0	377.0	371.9	359.4	351.2	357.0	369.8	368.9
12.5°	295.5	271.0	256.7	246.9	258.5	248.9	248.6	241.5	233.8	235.2	255.7
15°	222.2	204.4	187.4	171.8	171.5	168.3	151.7	133.2	131.7	132.6	143.2
17.5°	152.8	146.8	139.8	126.4	122.8	109.2	93.2	85.8	82.1	83.8	87.3
20°	107.4	105.1	105.8	98.6	93.5	80.5	71.1	68.1	67.5	69.2	70.9
22.5°	89.0	84.8	84.4	81.1	76.0	66.6	61.5	59.8	59.0	60.6	61.8
25°	77.9	73.7	72.0	70.0	64.6	58.1	55.0	53.5	52.7	53.6	54.4
27.5°	68.6	64.7	63.2	61.8	56.6	51.9	49.4	48.1	47.4	47.7	48.5
30°	61.7	58.3	56.2	54.5	50.1	46.8	44.7	43.3	42.6	42.6	43.4
32.5°	54.4	52.5	50.7	48.5	44.3	42.2	40.0	38.5	37.9	38.0	38.6
35°	45.3	44.7	45.1	43.1	39.6	37.7	35.5	33.8	33.4	33.5	34.1
37.5°	40.2	37.4	39.1	38.0	36.0	33.5	30.8	29.2	28.4	28.9	29.2
40°	36.9	33.5	32.3	33.4	33.1	29.1	26.6	25.0	24.4	24.6	24.9
42.5°	34.1	30.1	27.4	27.2	29.1	25.3	22.7	21.3	20.6	20.6	20.9
45°	31.5	27.2	23.8	21.2	24.4	21.5	19.0	17.8	16.8	16.8	17.0
47.5°	29.5	24.7	20.7	17.3	18.4	17.6	15.6	14.4	13.4	13.4	13.6
50°	27.7	22.3	17.9	14.5	13.8	14.5	12.7	11.3	10.7	10.5	10.8
52.5°	25.7	19.8	15.3	12.4	10.8	11.0	9.9	9.0	8.2	8.2	8.5
55°	23.6	17.8	13.3	10.5	9.0	8.2	7.9	7.3	6.6	6.6	7.0
57.5°	21.6	15.6	11.3	8.7	7.1	6.5	6.5	6.0	5.6	5.6	5.9
60°	19.8	13.4	9.3	7.1	5.6	5.4	5.6	5.1	4.8	4.8	5.1
62.5°	17.6	11.4	7.6	5.9	4.5	4.3	4.8	4.5	4.2	4.2	4.5
65°	15.0	9.7	6.0	4.5	3.4	3.4	4.0	3.7	3.4	3.4	3.7
67.5°	12.7	8.2	4.6	3.2	2.5	2.6	3.4	3.1	2.9	2.9	3.2
70°	10.5	6.3	3.2	2.0	1.4	2.0	2.6	2.6	2.6	2.6	2.9
72.5°	7.9	4.3	1.9	0.8	0.6	1.4	2.2	2.5	2.3	2.3	2.8
75°	5.1	2.5	0.6	0.0	0.0	0.8	1.7	2.0	2.0	1.9	2.3
77.5°	2.9	0.8	0.0	0.0	0.0	0.0	1.1	0.9	0.8	0.6	1.1
80°	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P324275
CATALOG NUMBER: GLEON-SA1B-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1094.3	1094.3	1094.3	1094.3	1094.3	1094.3	1094.3	1094.3	1094.3	1094.3
2.5°	964.2	982.5	1008.1	1035.3	1077.2	1110.4	1143.0	1171.0	1181.8	1186.3
5°	763.2	789.9	827.5	875.7	951.3	1019.2	1088.2	1157.5	1187.7	1195.2
7.5°	547.6	581.8	629.5	690.0	778.5	866.6	962.8	1064.7	1111.3	1123.1
10°	405.3	447.0	501.7	565.4	649.9	740.5	845.4	961.8	1015.1	1030.7
12.5°	287.6	344.0	417.2	494.6	567.9	648.7	754.9	883.1	939.0	955.9
15°	168.9	223.4	310.1	413.8	507.6	589.5	697.4	842.8	904.4	921.4
17.5°	96.9	124.1	189.6	305.2	432.5	545.9	679.3	852.8	925.4	941.2
20°	74.0	82.7	109.2	196.6	344.7	503.1	679.3	909.7	999.2	1022.3
22.5°	64.7	71.1	81.9	117.3	253.7	457.2	687.2	991.9	1108.9	1134.5
25°	57.5	63.2	72.5	88.2	173.1	402.7	705.9	1092.8	1238.1	1271.3
27.5°	51.5	56.9	65.2	77.3	118.4	336.9	731.1	1211.2	1380.5	1407.1
30°	46.0	51.1	58.7	67.2	91.3	262.2	752.5	1322.7	1492.4	1521.0
32.5°	40.9	45.6	52.4	58.7	74.8	193.9	754.9	1411.1	1585.3	1613.7
35°	36.2	40.3	46.5	51.5	62.0	153.1	718.8	1487.8	1678.1	1715.7
37.5°	31.5	35.5	40.9	44.7	54.5	124.9	663.8	1573.2	1797.3	1832.0
40°	27.2	30.8	36.3	38.8	51.6	96.0	604.0	1662.8	1914.1	1945.9
42.5°	23.2	26.6	32.0	36.8	45.3	71.7	539.4	1746.9	2019.2	2052.6
45°	19.3	22.9	28.3	38.9	37.5	53.6	470.4	1802.7	2102.2	2138.5
47.5°	15.6	19.6	27.0	37.1	30.0	39.4	415.7	1855.5	2165.0	2200.9
50°	12.5	16.5	30.4	33.1	24.6	30.1	392.8	1902.8	2206.3	2240.8
52.5°	10.2	13.9	28.7	25.3	20.6	24.9	405.2	1979.5	2244.5	2266.1
55°	8.5	11.0	17.3	17.6	17.5	21.2	420.5	2089.5	2343.2	2353.4
57.5°	7.4	8.8	12.1	13.6	14.7	18.9	420.8	2247.4	2496.0	2502.4
60°	6.3	7.7	10.0	11.0	12.7	16.8	405.5	2302.6	2556.2	2577.2
62.5°	5.6	6.8	8.3	9.1	10.7	15.1	369.6	2222.7	2473.6	2509.3
65°	4.9	6.2	7.0	7.7	9.4	13.6	310.6	2062.9	2336.7	2374.0
67.5°	4.3	5.4	6.2	7.0	8.5	12.1	228.7	1877.3	2179.6	2210.5
70°	3.9	4.8	5.6	6.2	7.4	10.2	138.8	1593.0	1962.3	1975.1
72.5°	3.7	4.3	5.1	5.6	6.5	9.0	70.3	1170.7	1568.7	1589.6
75°	3.2	3.9	4.6	4.9	5.7	7.7	28.6	768.9	1136.8	1170.4
77.5°	2.6	3.6	4.2	4.5	4.9	6.3	14.5	491.4	797.8	819.4
80°	0.9	2.6	3.6	3.7	4.2	4.6	9.6	269.0	462.8	472.1
82.5°	0.0	1.7	2.8	2.6	2.9	3.6	6.2	127.9	305.5	308.9
85°	0.0	0.8	2.2	1.7	1.2	2.5	2.2	28.0	160.2	166.9
87.5°	0.0	0.0	0.2	0.8	0.6	0.9	0.3	0.2	14.5	18.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)