

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: P324266

Luminaire Tested: **GLEON-SA2A-827-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324266
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-SA2A-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5197 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 66
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

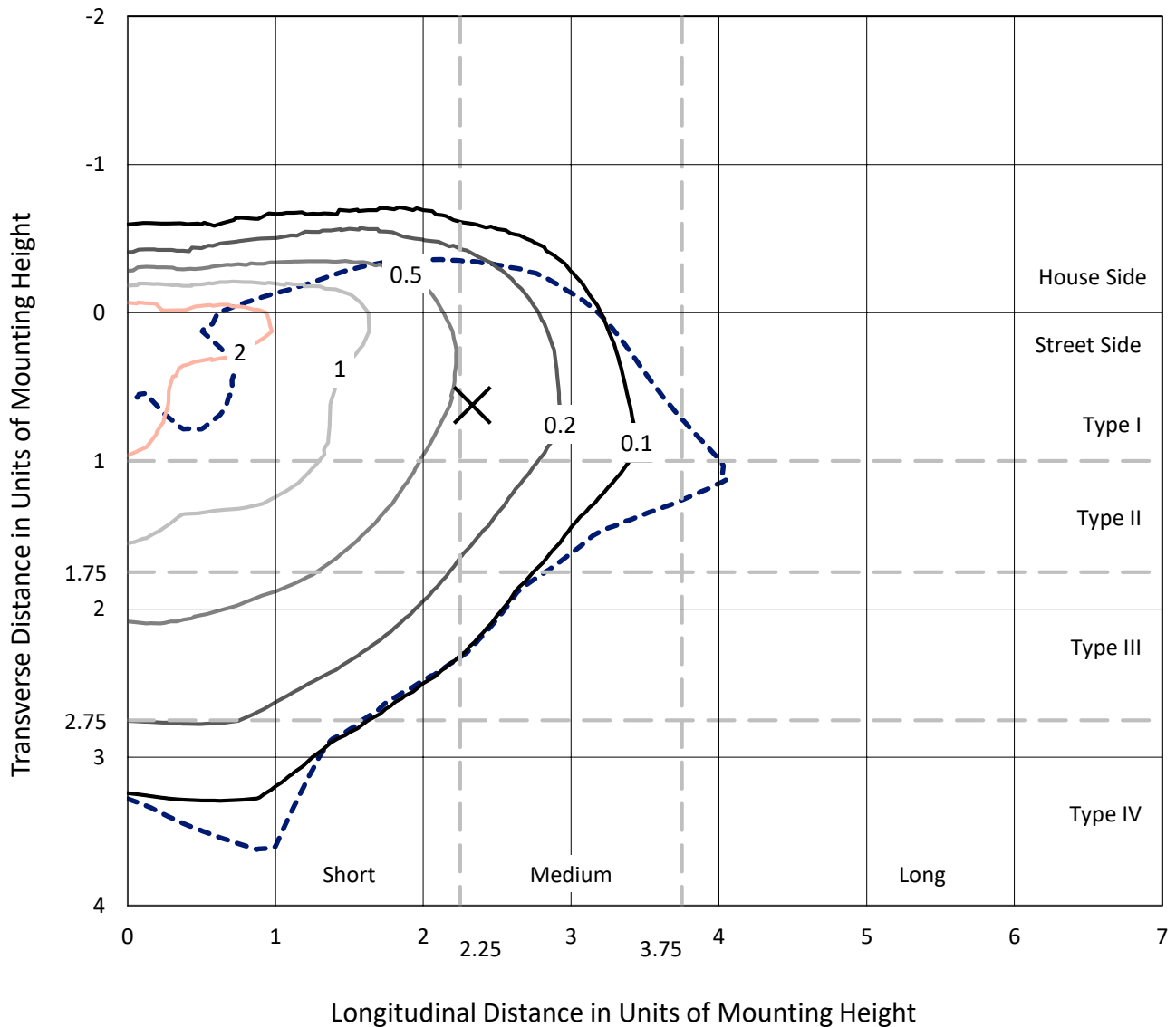




REPORT NUMBER: P324266
 CATALOG NUMBER: GLEON-SA2A-827-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

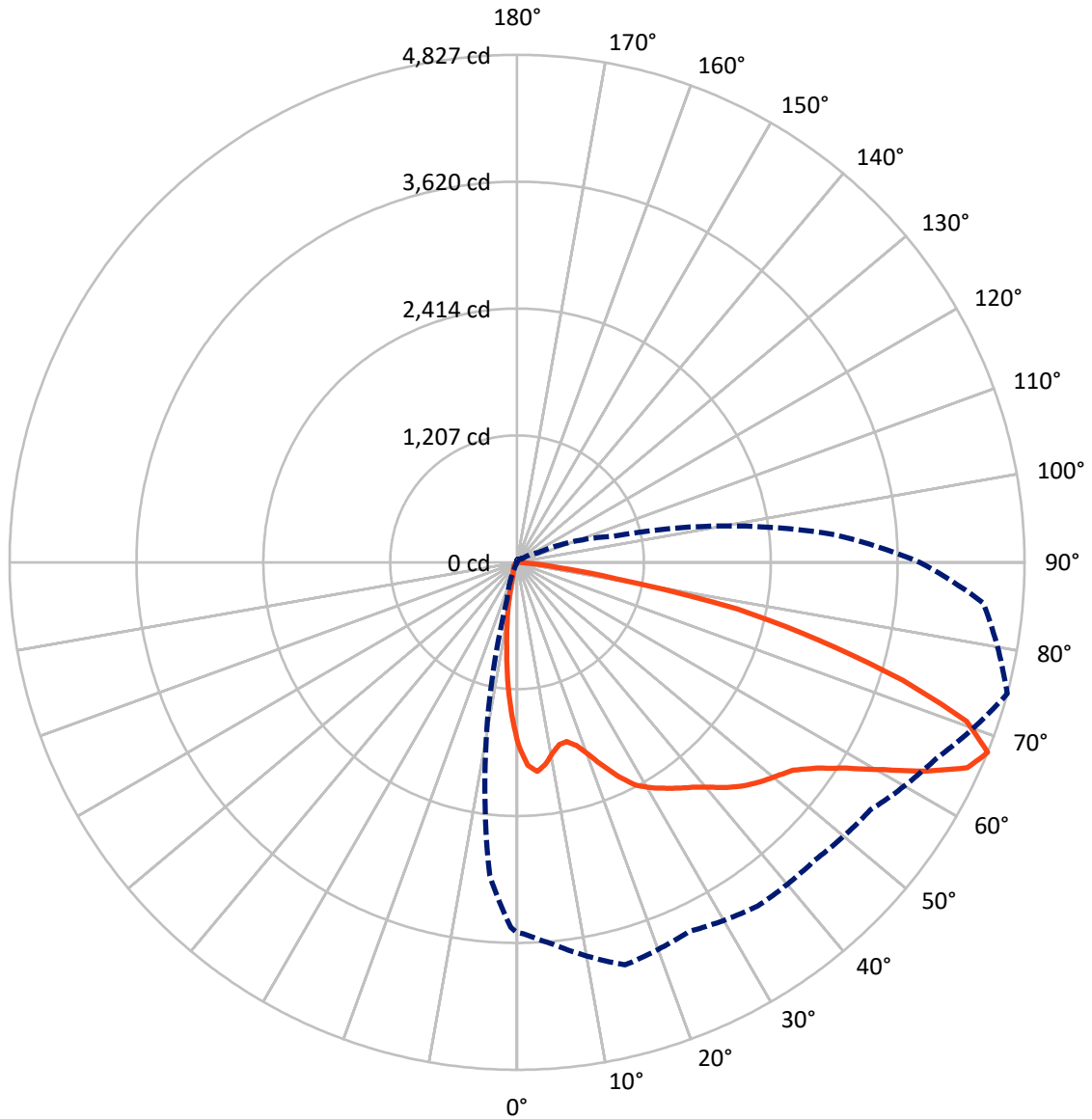
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Medium - N/A

REPORT NUMBER: P324266
CATALOG NUMBER: GLEON-SA2A-827-U-SLL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P324266
 CATALOG NUMBER: GLEON-SA2A-827-U-SLL-HSS

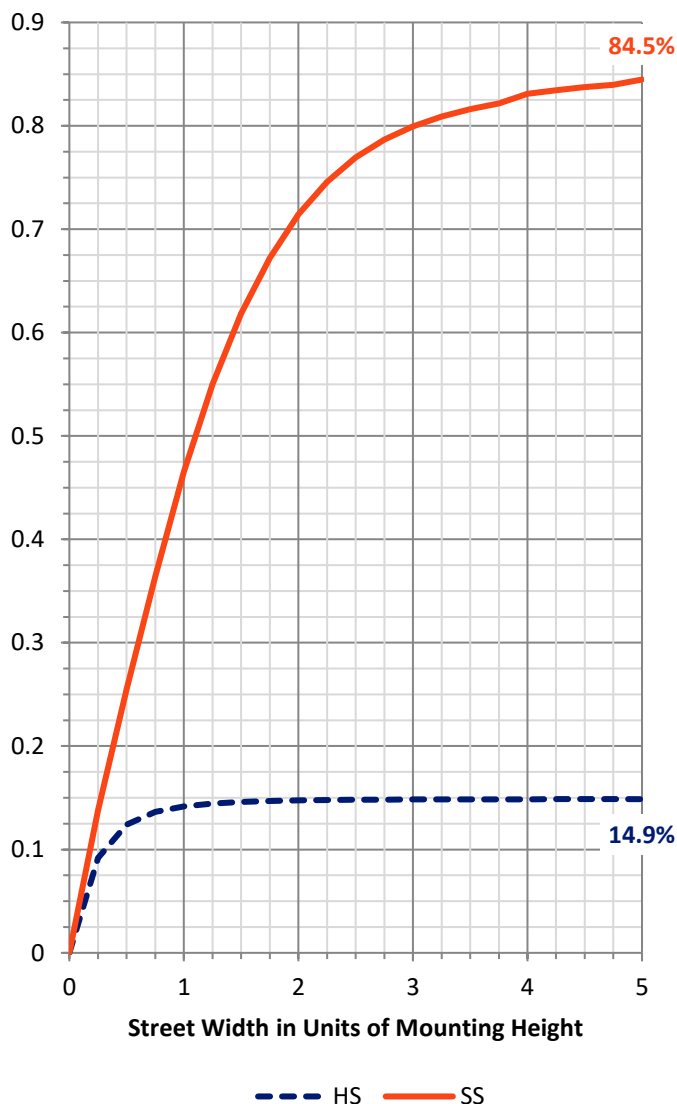
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	779.9	0.0	779.9
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	4417.1	0.0	4417.1
	% Fixture	85.0	0.0	85.0
Total	Lumens	5197.0	0.0	5197.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.3	2.5
10°-20°	260.4	5.0
20°-30°	368.4	7.1
30°-40°	541.7	10.4
40°-50°	778.5	15.0
50°-60°	1096.0	21.1
60°-70°	1280.0	24.6
70°-80°	653.0	12.6
80°-90°	86.7	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°	5197.0	100.0
0°-180°	5197.0	100.0

Coefficient of Utilization

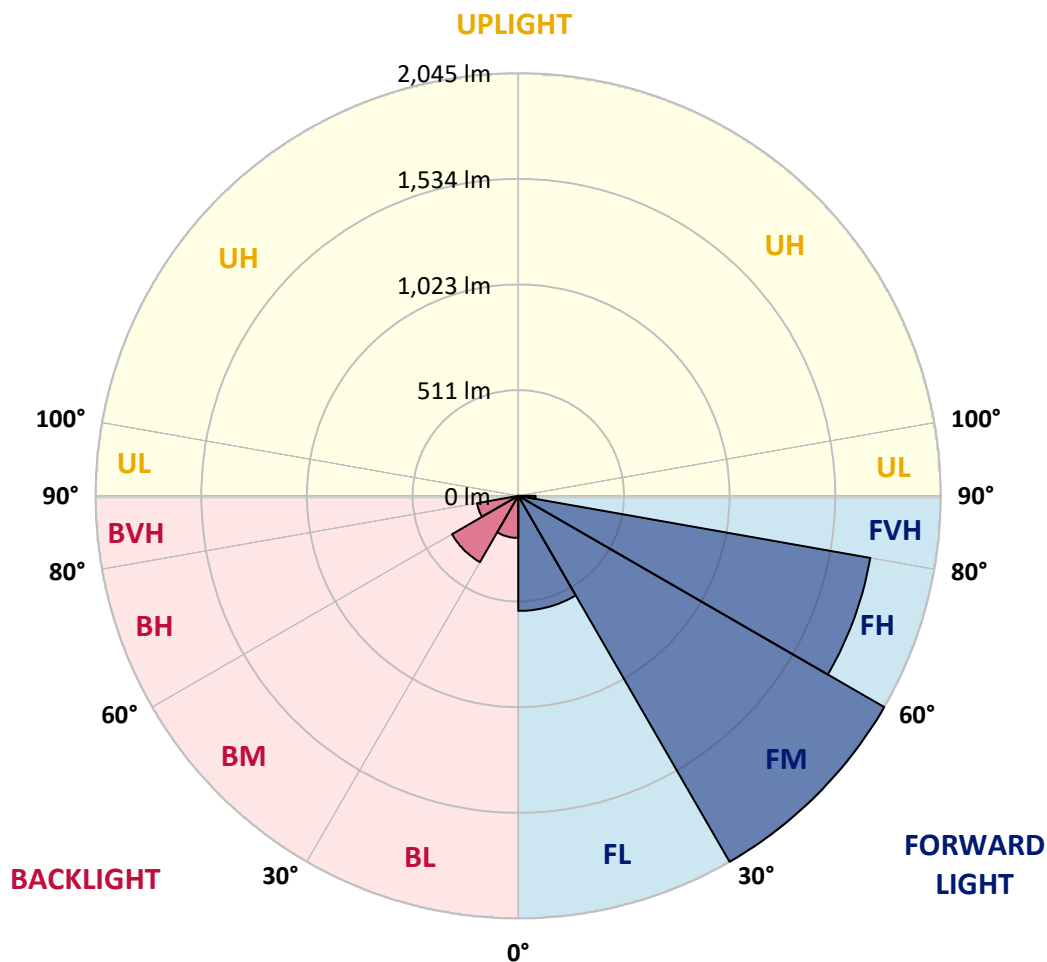


REPORT NUMBER: P324266
 CATALOG NUMBER: GLEON-SA2A-827-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	557.1	10.7			
FM (30°-60°)	2045.4	39.4			
FH (60°-80°)	1730.5	33.3			G1/1800
FVH (80°-90°)	84.1	1.6			G1/100
BL (0°-30°)	203.9	3.9	B1/500		
BM (30°-60°)	370.7	7.1	B1/1000		
BH (60°-80°)	202.6	3.9	B1/500		G1/500
BVH (80°-90°)	2.6	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: P324266

CATALOG NUMBER: GLEON-SA2A-827-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1890.0	1892.9	1908.2	1943.7	1982.3	1985.3	2011.4	1984.5	1975.4	1932.1	1887.3
5°	1904.3	1915.6	1968.0	2072.2	2162.5	2191.6	2212.2	2159.6	2104.2	1998.3	1885.3
7.5°	1789.3	1808.3	1890.7	2086.2	2247.7	2319.1	2332.6	2250.2	2114.5	1940.2	1770.3
10°	1642.1	1663.7	1763.2	2003.5	2225.3	2347.7	2366.4	2258.3	2063.3	1846.2	1646.0
12.5°	1522.9	1548.3	1650.0	1910.4	2148.2	2283.6	2320.6	2231.0	2019.0	1779.4	1561.1
15°	1468.0	1497.1	1603.9	1850.4	2062.8	2169.4	2199.9	2161.3	1994.4	1768.9	1541.4
17.5°	1499.5	1531.0	1641.3	1855.5	1982.6	2028.1	2052.7	2068.5	1994.4	1832.6	1599.0
20°	1628.8	1662.8	1779.4	1908.0	1916.1	1899.1	1925.4	1980.8	2017.5	1953.7	1737.3
22.5°	1807.5	1847.4	1979.1	1997.8	1883.6	1819.3	1822.8	1909.7	2059.6	2107.4	1929.4
25°	2025.4	2074.1	2208.1	2131.7	1897.1	1771.8	1770.6	1851.1	2100.7	2261.2	2143.3
27.5°	2241.8	2295.5	2413.1	2295.2	1953.0	1763.2	1760.7	1833.4	2140.9	2398.1	2376.9
30°	2423.2	2475.4	2576.9	2413.6	2013.3	1783.4	1771.6	1852.3	2164.7	2487.0	2547.3
32.5°	2570.9	2612.8	2694.8	2495.1	2077.8	1822.5	1796.9	1903.0	2205.4	2562.1	2703.9
35°	2733.4	2777.5	2810.2	2572.7	2150.2	1878.9	1842.2	1983.5	2267.9	2638.4	2875.5
37.5°	2918.8	2962.6	2958.7	2643.6	2242.0	1972.2	1948.8	2111.1	2365.1	2714.0	3067.0
40°	3100.2	3145.1	3113.0	2721.1	2349.9	2126.1	2108.8	2302.6	2495.4	2810.7	3291.5
42.5°	3270.1	3318.6	3250.2	2794.5	2478.4	2320.1	2349.6	2549.3	2658.3	2929.9	3485.0
45°	3407.0	3456.5	3365.1	2865.9	2613.8	2555.4	2644.3	2822.5	2854.3	3030.6	3615.8
47.5°	3506.5	3553.2	3444.9	2937.3	2787.1	2843.2	2998.1	3109.1	3031.3	3118.0	3708.6
50°	3570.0	3606.4	3468.3	3026.6	3014.6	3179.0	3366.6	3420.8	3198.0	3196.8	3821.3
52.5°	3610.3	3626.8	3485.5	3119.9	3251.9	3544.6	3727.5	3744.5	3369.6	3283.4	3973.2
55°	3749.4	3762.7	3607.6	3232.9	3448.1	3864.9	4054.0	4038.2	3563.8	3453.0	4152.5
57.5°	3986.8	4000.8	3860.0	3395.4	3606.9	4062.8	4290.6	4318.9	3791.5	3691.3	4344.5
60°	4105.9	4132.0	4081.8	3601.2	3760.8	4189.4	4451.8	4542.2	4076.1	4005.5	4530.6
62.5°	3997.8	4035.8	4108.6	3829.5	3913.7	4259.1	4502.0	4622.2	4367.6	4371.6	4645.3
65°	3782.2	3812.5	3936.1	3954.5	4002.3	4250.4	4378.0	4510.4	4546.1	4707.9	4639.2
67.5°	3521.7	3533.0	3637.9	3964.4	3873.8	3991.4	4005.2	4103.2	4405.0	4827.0	4452.8
70°	3146.8	3152.9	3244.5	3634.7	3329.0	3354.8	3334.4	3354.3	3787.1	4536.8	3982.3
72.5°	2532.5	2548.0	2678.3	3018.5	2425.2	2350.6	2511.1	2502.3	2916.6	3832.9	2957.7
75°	1864.6	1891.5	2088.2	2431.4	1702.1	1539.7	1656.8	1688.1	2073.4	2964.8	1849.6
77.5°	1305.5	1325.5	1516.0	1787.3	1231.9	1101.0	1058.6	1095.8	1368.6	2144.8	931.8
80°	752.1	759.5	881.1	1032.0	830.1	949.8	860.4	886.0	820.1	954.2	400.8
82.5°	492.1	493.4	540.9	614.2	517.0	600.7	444.6	568.4	504.4	383.3	130.5
85°	265.9	267.4	313.6	436.0	292.7	165.4	97.2	199.7	311.9	87.9	35.7
87.5°	29.3	26.8	94.5	158.5	81.2	15.0	5.2	22.4	50.0	5.7	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: P324266

CATALOG NUMBER: GLEON-SA2A-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1864.4	1843.9	1793.0	1739.1	1695.7	1655.1	1614.3	1564.3	1525.6	1517.8	1504.9
5°	1824.5	1759.8	1652.9	1545.6	1459.2	1350.1	1280.9	1227.0	1174.3	1171.1	1160.5
7.5°	1685.2	1600.0	1449.6	1301.1	1179.5	1075.6	970.7	900.6	845.4	826.0	814.4
10°	1551.2	1455.5	1267.6	1098.2	989.7	897.8	824.0	750.6	684.2	638.4	617.7
12.5°	1457.7	1351.8	1144.8	998.8	921.0	833.8	743.7	652.2	575.6	520.4	486.7
15°	1421.5	1308.5	1103.7	959.4	863.4	753.1	637.9	533.2	448.3	398.3	368.1
17.5°	1464.6	1333.1	1100.5	911.4	777.2	640.1	512.8	389.2	309.2	271.3	251.9
20°	1573.9	1411.4	1099.2	852.5	674.8	506.2	347.4	256.0	207.5	186.4	177.3
22.5°	1728.5	1511.3	1109.1	794.4	568.2	361.7	239.8	188.1	163.2	151.9	146.7
25°	1927.4	1651.7	1136.9	741.8	468.0	269.8	186.9	157.6	140.1	131.2	127.5
27.5°	2139.4	1813.2	1180.2	696.0	386.5	215.2	160.0	134.9	122.4	116.2	112.8
30°	2314.2	2000.3	1224.0	645.0	327.4	187.6	146.5	123.1	108.6	104.6	101.4
32.5°	2467.1	2141.8	1255.1	599.0	288.8	166.7	132.4	110.0	100.2	92.6	89.1
35°	2625.4	2259.8	1254.1	566.7	262.2	150.9	120.6	98.5	86.7	77.8	75.1
37.5°	2796.7	2392.9	1232.7	539.2	250.6	138.4	114.0	92.3	80.5	71.6	68.2
40°	2997.3	2532.8	1210.8	513.3	247.4	128.3	109.3	87.4	74.8	66.2	62.8
42.5°	3192.8	2658.8	1191.6	494.1	233.6	128.0	105.1	83.7	70.4	62.0	58.1
45°	3349.1	2776.3	1187.9	482.5	219.1	132.4	102.9	81.2	67.0	58.6	54.9
47.5°	3479.1	2903.8	1211.5	474.4	205.3	120.9	108.3	79.5	63.8	55.6	51.5
50°	3633.7	3060.4	1267.1	461.1	190.8	108.8	124.1	80.0	61.1	52.7	48.3
52.5°	3849.4	3277.0	1348.9	438.7	170.9	97.7	122.1	80.5	58.1	49.5	45.1
55°	4091.2	3547.6	1436.8	401.5	143.0	83.2	104.6	77.1	52.4	46.0	41.9
57.5°	4345.2	3793.0	1488.9	357.2	113.7	71.9	83.7	70.2	46.3	41.4	38.7
60°	4385.1	3886.3	1465.1	302.8	90.4	62.5	62.0	71.4	41.4	36.4	34.5
62.5°	4285.9	3769.1	1349.6	254.3	75.6	54.9	51.0	62.3	37.4	32.5	30.5
65°	4095.1	3452.3	1162.5	229.2	70.2	47.0	42.3	43.8	32.7	28.3	26.6
67.5°	3829.7	3029.3	954.5	214.9	69.4	40.4	36.2	33.2	28.3	24.6	23.1
70°	3287.1	2523.7	761.5	207.0	67.5	34.0	30.5	27.1	23.6	20.9	19.7
72.5°	2419.3	1788.3	592.3	198.4	67.9	27.1	26.6	22.4	19.0	16.2	15.8
75°	1397.9	1021.7	388.5	160.8	64.7	20.9	22.2	15.8	13.3	11.3	11.3
77.5°	745.0	623.1	148.0	67.0	23.6	13.3	12.6	9.4	8.4	6.9	6.6
80°	324.7	274.3	44.6	18.7	13.0	7.1	4.7	4.2	3.7	3.0	2.7
82.5°	115.0	99.2	14.5	9.1	5.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.1	18.7	0.0	2.2	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: P324266

CATALOG NUMBER: GLEON-SA2A-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1478.9	1473.4	1441.4	1442.7	1448.3	1456.4	1437.2	1446.1	1470.0	1492.9	1501.5
5°	1143.5	1144.8	1125.3	1137.4	1148.2	1155.6	1124.6	1125.1	1144.0	1169.9	1183.4
7.5°	805.8	803.8	804.8	833.6	854.0	839.3	850.8	810.7	813.2	831.6	817.8
10°	599.0	571.9	556.6	578.3	600.7	592.6	572.6	559.6	568.7	589.1	587.7
12.5°	470.7	431.8	408.9	393.4	411.9	396.6	396.1	384.8	372.5	374.7	407.4
15°	354.0	325.7	298.6	273.8	273.3	268.1	241.8	212.2	209.8	211.2	228.2
17.5°	243.5	233.9	222.8	201.4	195.7	174.1	148.5	136.6	130.7	133.4	139.1
20°	171.1	167.4	168.6	157.1	148.9	128.3	113.2	108.6	107.6	110.3	113.0
22.5°	141.8	135.2	134.4	129.2	121.1	106.1	98.0	95.3	94.0	96.5	98.5
25°	124.1	117.4	114.7	111.5	102.9	92.6	87.6	85.2	84.0	85.4	86.7
27.5°	109.3	103.2	100.7	98.5	90.1	82.7	78.8	76.6	75.6	76.1	77.3
30°	98.2	92.8	89.6	86.9	79.8	74.6	71.1	68.9	67.9	67.9	69.2
32.5°	86.7	83.7	80.7	77.3	70.7	67.2	63.8	61.3	60.3	60.6	61.5
35°	72.1	71.1	71.9	68.7	63.0	60.1	56.6	53.9	53.2	53.4	54.4
37.5°	64.0	59.6	62.3	60.6	57.4	53.4	49.0	46.5	45.3	46.0	46.5
40°	58.8	53.4	51.5	53.2	52.7	46.3	42.3	39.9	38.9	39.1	39.6
42.5°	54.4	48.0	43.6	43.3	46.3	40.4	36.2	34.0	32.7	32.7	33.2
45°	50.2	43.3	37.9	33.7	38.9	34.2	30.3	28.3	26.8	26.8	27.1
47.5°	47.0	39.4	33.0	27.6	29.3	28.1	24.9	22.9	21.4	21.4	21.7
50°	44.1	35.5	28.6	23.1	21.9	23.1	20.2	18.0	17.0	16.7	17.2
52.5°	40.9	31.5	24.4	19.7	17.2	17.5	15.8	14.3	13.0	13.0	13.5
55°	37.7	28.3	21.2	16.7	14.3	13.0	12.6	11.6	10.6	10.6	11.1
57.5°	34.5	24.9	18.0	13.8	11.3	10.3	10.3	9.6	8.9	8.9	9.4
60°	31.5	21.4	14.8	11.3	8.9	8.6	8.9	8.1	7.6	7.6	8.1
62.5°	28.1	18.2	12.1	9.4	7.1	6.9	7.6	7.1	6.6	6.6	7.1
65°	23.9	15.5	9.6	7.1	5.4	5.4	6.4	5.9	5.4	5.4	5.9
67.5°	20.2	13.0	7.4	5.2	3.9	4.2	5.4	4.9	4.7	4.7	5.2
70°	16.7	10.1	5.2	3.2	2.2	3.2	4.2	4.2	4.2	4.2	4.7
72.5°	12.6	6.9	3.0	1.2	1.0	2.2	3.4	3.9	3.7	3.7	4.4
75°	8.1	3.9	1.0	0.0	0.0	1.2	2.7	3.2	3.2	3.0	3.7
77.5°	4.7	1.2	0.0	0.0	0.0	0.0	1.7	1.5	1.2	1.0	1.7
80°	1.2	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: P324266

CATALOG NUMBER: GLEON-SA2A-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5	1743.5
2.5°	1536.2	1565.3	1606.1	1649.5	1716.2	1769.1	1821.1	1865.6	1882.8	1890.0
5°	1215.9	1258.5	1318.3	1395.1	1515.5	1623.9	1733.7	1844.2	1892.2	1904.3
7.5°	872.5	926.9	1003.0	1099.2	1240.3	1380.6	1534.0	1696.2	1770.6	1789.3
10°	645.8	712.2	799.4	900.8	1035.5	1179.7	1346.9	1532.3	1617.2	1642.1
12.5°	458.2	548.0	664.7	788.0	904.7	1033.5	1202.6	1407.0	1496.1	1522.9
15°	269.1	356.0	494.1	659.3	808.7	939.2	1111.0	1342.7	1440.9	1468.0
17.5°	154.4	197.7	302.1	486.2	689.1	869.8	1082.2	1358.7	1474.4	1499.5
20°	117.9	131.7	174.1	313.2	549.2	801.6	1082.2	1449.3	1591.9	1628.8
22.5°	103.2	113.2	130.5	186.9	404.2	728.5	1094.8	1580.3	1766.6	1807.5
25°	91.6	100.7	115.5	140.6	275.7	641.6	1124.6	1741.0	1972.5	2025.4
27.5°	82.0	90.6	103.9	123.1	188.6	536.7	1164.7	1929.6	2199.4	2241.8
30°	73.4	81.5	93.6	107.1	145.5	417.8	1198.9	2107.4	2377.7	2423.2
32.5°	65.2	72.6	83.5	93.6	119.2	309.0	1202.6	2248.2	2525.6	2570.9
35°	57.6	64.3	74.1	82.0	98.7	244.0	1145.3	2370.3	2673.6	2733.4
37.5°	50.2	56.6	65.2	71.1	86.9	198.9	1057.6	2506.4	2863.4	2918.8
40°	43.3	49.0	57.9	61.8	82.2	152.9	962.3	2649.2	3049.5	3100.2
42.5°	36.9	42.3	51.0	58.6	72.1	114.2	859.4	2783.2	3216.9	3270.1
45°	30.8	36.4	45.1	62.0	59.8	85.4	749.4	2872.0	3349.1	3407.0
47.5°	24.9	31.3	43.1	59.1	47.8	62.8	662.2	2956.2	3449.3	3506.5
50°	19.9	26.3	48.5	52.7	39.1	48.0	625.8	3031.6	3515.1	3570.0
52.5°	16.2	22.2	45.8	40.4	32.7	39.6	645.5	3153.7	3575.9	3610.3
55°	13.5	17.5	27.6	28.1	27.8	33.7	669.9	3329.0	3733.2	3749.4
57.5°	11.8	14.0	19.2	21.7	23.4	30.0	670.4	3580.6	3976.7	3986.8
60°	10.1	12.3	16.0	17.5	20.2	26.8	646.0	3668.4	4072.4	4105.9
62.5°	8.9	10.8	13.3	14.5	17.0	24.1	588.9	3541.2	3941.0	3997.8
65°	7.9	9.8	11.1	12.3	15.0	21.7	494.8	3286.6	3722.9	3782.2
67.5°	6.9	8.6	9.8	11.1	13.5	19.2	364.4	2990.9	3472.5	3521.7
70°	6.2	7.6	8.9	9.8	11.8	16.2	221.1	2538.0	3126.3	3146.8
72.5°	5.9	6.9	8.1	8.9	10.3	14.3	112.0	1865.1	2499.3	2532.5
75°	5.2	6.2	7.4	7.9	9.1	12.3	45.5	1225.0	1811.2	1864.6
77.5°	4.2	5.7	6.6	7.1	7.9	10.1	23.1	782.9	1271.1	1305.5
80°	1.5	4.2	5.7	5.9	6.6	7.4	15.3	428.6	737.3	752.1
82.5°	0.0	2.7	4.4	4.2	4.7	5.7	9.8	203.8	486.7	492.1
85°	0.0	1.2	3.4	2.7	2.0	3.9	3.4	44.6	255.3	265.9
87.5°	0.0	0.0	0.2	1.2	1.0	1.5	0.5	0.2	23.1	29.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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