

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: P324284

Luminaire Tested: **GLEON-SA0B-827-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324284
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-SA0B-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 800mA 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: 30826 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

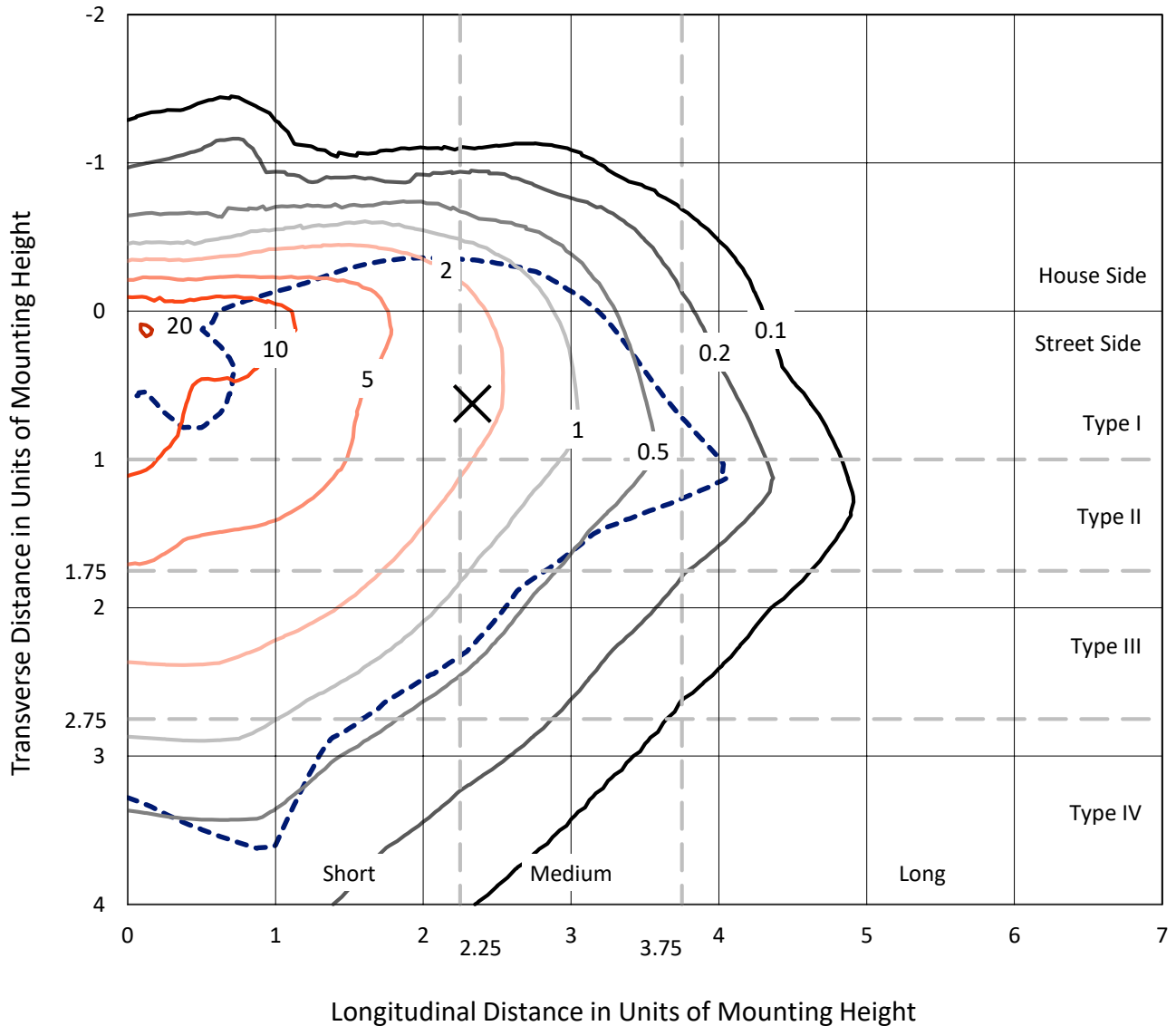
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324284
 CATALOG NUMBER: GLEON-SA0B-827-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

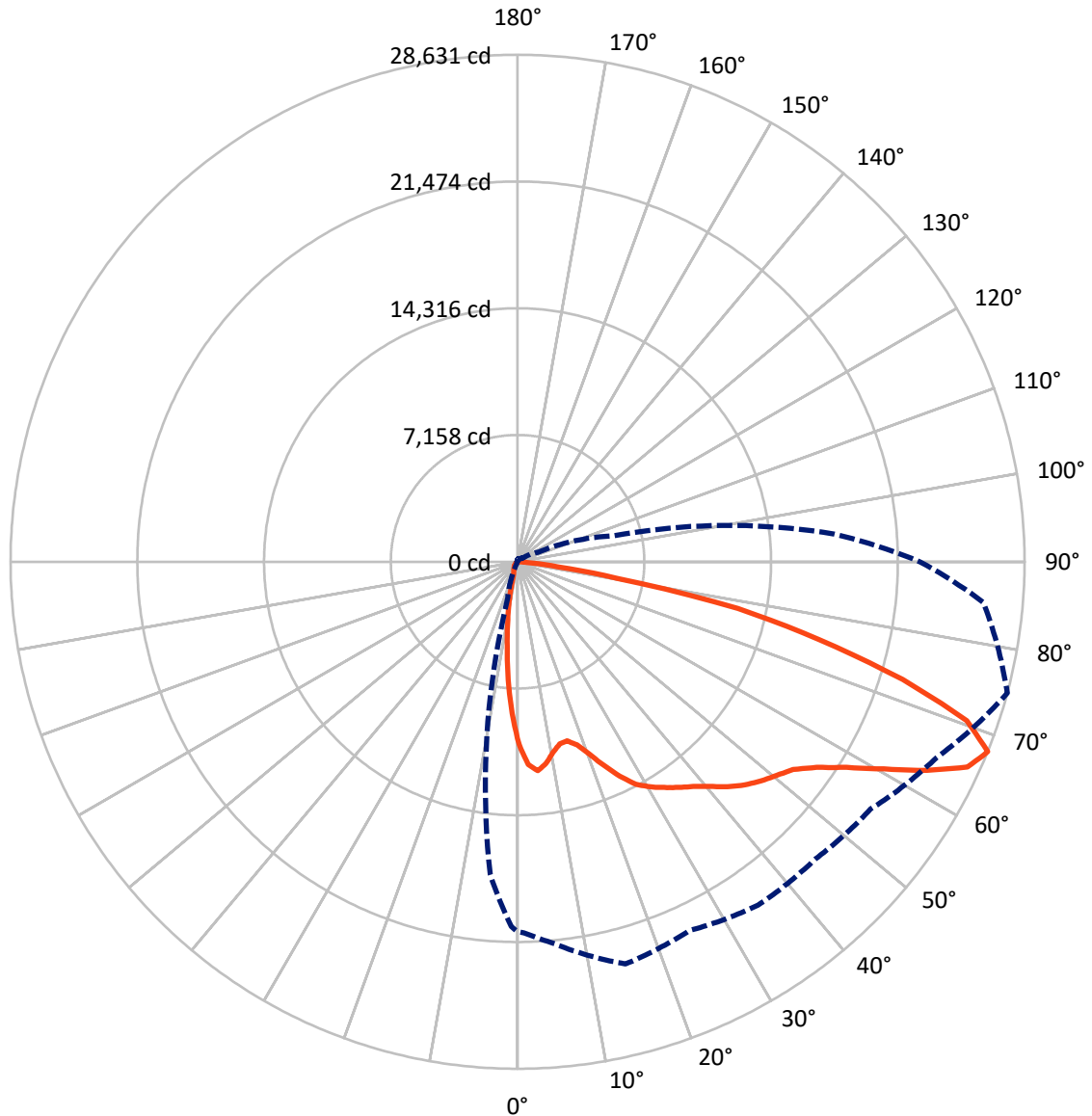
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.4 fc
 Type III - Medium - N/A

REPORT NUMBER: P324284
CATALOG NUMBER: GLEON-SA0B-827-U-SLL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P324284
 CATALOG NUMBER: GLEON-SA0B-827-U-SLL-HSS

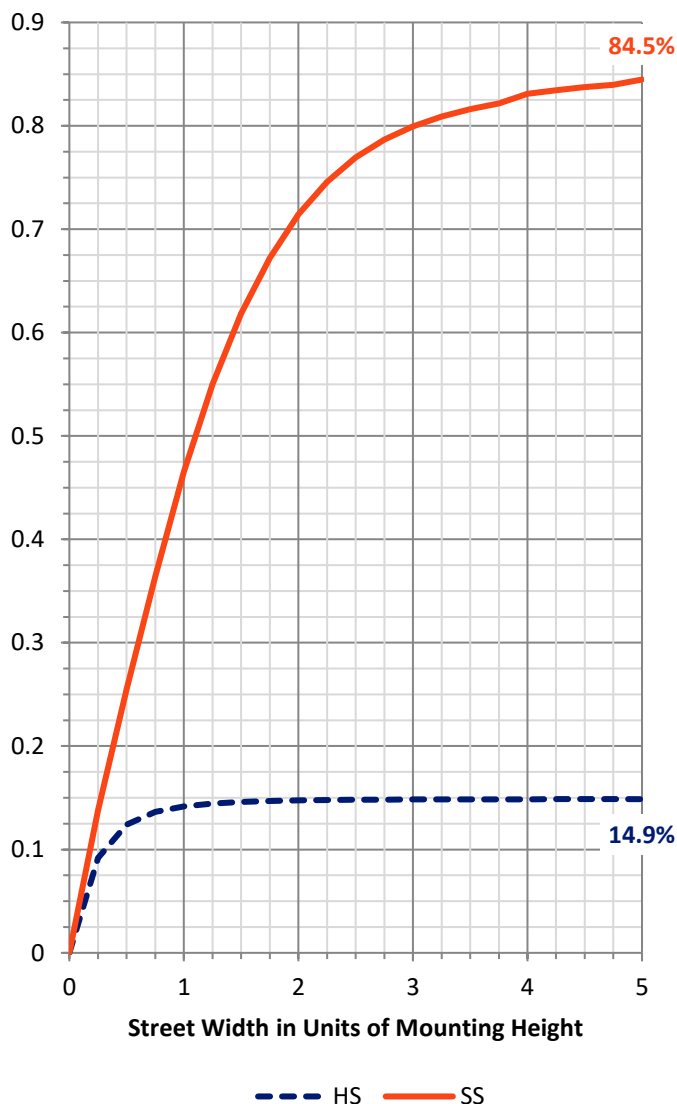
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4625.8	0.0	4625.8
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	26200.2	0.0	26200.2
	% Fixture	85.0	0.0	85.0
Total	Lumens	30826.0	0.0	30826.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	784.5	2.5
10°-20°	1544.6	5.0
20°-30°	2185.2	7.1
30°-40°	3212.8	10.4
40°-50°	4617.9	15.0
50°-60°	6500.8	21.1
60°-70°	7592.3	24.6
70°-80°	3873.4	12.6
80°-90°	514.5	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°	30826.0	100.0
0°-180°	30826.0	100.0

Coefficient of Utilization

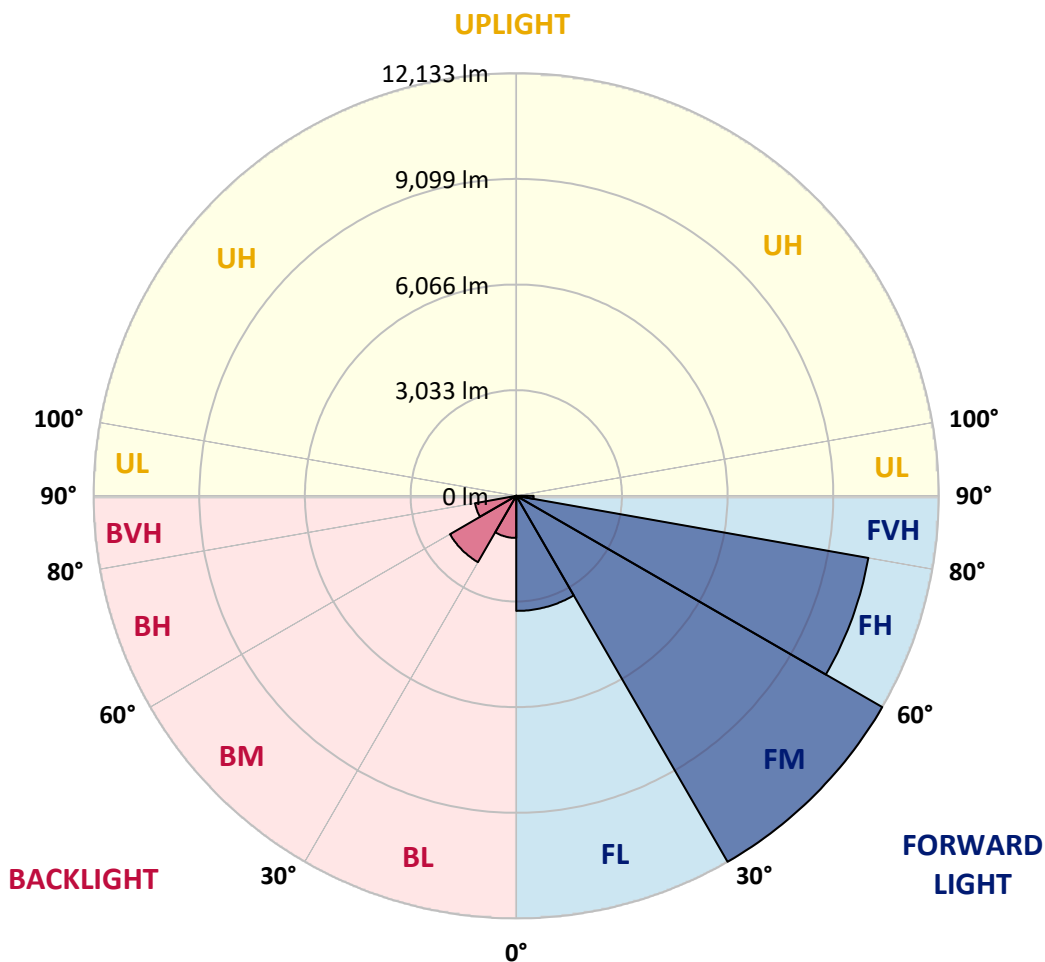


REPORT NUMBER: P324284
 CATALOG NUMBER: GLEON-SA0B-827-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3304.6	10.7			
FM (30°-60°)	12132.6	39.4			
FH (60°-80°)	10264.2	33.3			G4/12000
FVH (80°-90°)	498.9	1.6			G3/500
BL (0°-30°)	1209.7	3.9	B3/2500		
BM (30°-60°)	2198.9	7.1	B2/2500		
BH (60°-80°)	1201.5	3.9	B3/2500		G3/2500
BVH (80°-90°)	15.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





REPORT NUMBER: P324284

CATALOG NUMBER: GLEON-SA0B-827-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10341.6	10341.6	10341.6	10341.6	10341.6	10341.6	10341.6	10341.6	10341.6	10341.6	10341.6
2.5°	11210.5	11228.0	11318.5	11528.8	11758.1	11775.6	11930.4	11771.2	11717.2	11460.2	11194.4
5°	11295.1	11362.3	11673.4	12291.0	12827.0	12999.3	13121.9	12809.4	12480.9	11853.0	11182.7
7.5°	10613.2	10725.6	11214.8	12374.3	13332.2	13755.7	13836.0	13346.8	12542.2	11508.3	10500.8
10°	9740.0	9868.5	10458.4	11883.6	13199.3	13925.1	14036.1	13395.0	12238.5	10950.5	9763.3
12.5°	9033.2	9183.6	9786.7	11331.7	12742.3	13545.4	13764.5	13232.9	11975.6	10554.8	9259.5
15°	8707.6	8879.9	9513.6	10975.4	12235.6	12867.9	13048.9	12819.7	11829.6	10492.0	9142.7
17.5°	8894.5	9081.4	9735.6	11006.0	11759.5	12029.7	12175.7	12269.1	11829.6	10870.2	9484.4
20°	9661.1	9862.6	10554.8	11317.1	11365.2	11264.5	11420.7	11749.3	11966.9	11588.7	10305.1
22.5°	10721.3	10957.8	11739.1	11850.0	11172.5	10791.4	10811.8	11327.3	12216.6	12499.9	11444.1
25°	12013.6	12302.7	13097.1	12644.4	11252.8	10509.5	10502.2	10979.7	12460.4	13412.5	12713.1
27.5°	13297.2	13615.5	14313.5	13614.0	11584.3	10458.4	10443.8	10874.6	12698.5	14224.4	14098.9
30°	14373.4	14683.0	15284.6	14316.4	11942.0	10578.2	10508.1	10987.0	12840.1	14751.6	15109.4
32.5°	15249.5	15497.8	15984.1	14799.8	12324.6	10810.3	10658.5	11287.8	13081.1	15197.0	16038.1
35°	16213.3	16474.7	16668.9	15259.8	12754.0	11144.7	10927.2	11765.4	13452.0	15649.7	17055.9
37.5°	17312.9	17572.8	17549.5	15680.3	13298.6	11698.2	11559.5	12521.8	14028.8	16098.0	18192.0
40°	18389.1	18654.9	18465.0	16140.3	13938.2	12610.8	12508.6	13657.9	14801.2	16671.8	19523.7
42.5°	19396.7	19684.4	19278.4	16575.5	14700.5	13761.5	13936.8	15121.0	15767.9	17378.6	20671.5
45°	20208.6	20502.1	19960.4	16998.9	15503.6	15157.5	15684.7	16741.9	16930.3	17975.9	21446.9
47.5°	20798.6	21076.0	20433.5	17422.4	16531.7	16864.6	17783.1	18441.7	17980.2	18494.3	21997.4
50°	21175.3	21391.4	20572.2	17952.5	17880.9	18856.4	19969.1	20290.4	18968.8	18961.5	22666.2
52.5°	21414.8	21512.6	20674.4	18505.9	19288.6	21024.9	22109.9	22210.6	19986.6	19475.6	23567.2
55°	22239.8	22318.7	21398.7	19176.2	20452.5	22924.7	24046.2	23952.7	21138.8	20481.7	24630.3
57.5°	23647.5	23730.8	22895.5	20140.0	21394.3	24098.8	25449.5	25617.4	22489.5	21895.2	25769.3
60°	24354.3	24509.1	24211.2	21360.8	22307.0	24849.3	26406.0	26941.9	24177.6	23758.5	26873.3
62.5°	23713.2	23938.1	24370.4	22714.4	23213.8	25262.6	26703.9	27416.5	25906.6	25929.9	27553.7
65°	22434.0	22613.7	23346.7	23456.2	23739.5	25211.5	25967.9	26753.5	26965.3	27924.6	27517.2
67.5°	20889.1	20956.3	21578.3	23514.6	22977.3	23675.3	23757.0	24338.2	26128.5	28631.4	26411.8
70°	18665.1	18701.6	19244.8	21559.4	19745.7	19899.0	19777.8	19896.1	22463.3	26909.8	23621.2
72.5°	15021.7	15113.7	15886.2	17904.3	14385.1	13942.6	14894.7	14842.1	17299.8	22734.9	17543.6
75°	11060.0	11219.2	12386.0	14421.6	10096.3	9132.5	9827.6	10013.0	12298.4	17586.0	10971.0
77.5°	7743.8	7862.1	8992.3	10601.5	7307.2	6530.3	6279.1	6499.6	8117.6	12721.8	5527.1
80°	4461.1	4504.9	5226.3	6121.4	4924.0	5633.7	5103.6	5255.5	4864.1	5660.0	2377.3
82.5°	2919.1	2926.4	3208.2	3643.4	3066.6	3563.0	2637.2	3371.8	2992.1	2273.6	773.9
85°	1577.1	1585.8	1860.4	2586.1	1736.3	981.3	576.8	1184.3	1850.2	521.3	211.7
87.5°	173.8	159.2	560.7	940.4	481.9	89.1	30.7	132.9	296.4	33.6	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: P324284

CATALOG NUMBER: GLEON-SA0B-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10341.6	10341.6	10341.6	10341.6	10341.6	10341.6	10341.6	10341.6	10341.6	10341.6	10341.6
2.5°	11058.6	10937.4	10635.1	10315.3	10058.3	9817.4	9575.0	9278.5	9049.3	9002.5	8926.6
5°	10822.0	10438.0	9804.2	9167.5	8655.0	8008.1	7597.8	7278.0	6965.5	6946.5	6883.7
7.5°	9995.5	9490.3	8598.0	7717.5	6996.1	6379.9	5757.8	5341.6	5014.5	4899.2	4830.6
10°	9201.1	8633.1	7518.9	6514.2	5870.3	5325.6	4887.5	4452.3	4058.1	3786.5	3663.8
12.5°	8646.2	8018.3	6790.2	5924.3	5462.9	4945.9	4411.5	3868.2	3414.1	3087.0	2886.9
15°	8431.6	7761.3	6546.4	5690.7	5121.1	4467.0	3783.5	3162.9	2659.1	2362.7	2183.1
17.5°	8687.1	7907.3	6527.4	5405.9	4610.1	3796.7	3041.7	2308.7	1834.1	1609.2	1493.9
20°	9335.5	8371.7	6520.1	5056.9	4002.6	3002.3	2060.4	1518.7	1231.0	1105.4	1051.4
22.5°	10252.5	8964.6	6578.5	4712.3	3370.3	2145.1	1422.3	1115.6	968.2	901.0	870.3
25°	11432.4	9796.9	6743.5	4399.8	2776.0	1600.5	1108.3	934.6	830.9	778.3	756.4
27.5°	12689.7	10754.9	7000.5	4128.2	2292.6	1276.3	949.2	800.2	725.8	689.2	668.8
30°	13726.5	11864.7	7260.4	3825.9	1942.2	1112.7	868.9	730.1	644.0	620.6	601.6
32.5°	14633.3	12704.3	7444.4	3552.8	1712.9	988.6	785.6	652.7	594.3	549.1	528.6
35°	15572.3	13403.8	7438.6	3361.5	1555.2	895.1	715.5	584.1	514.0	461.4	445.4
37.5°	16588.6	14193.8	7311.5	3198.0	1486.5	820.7	676.1	547.6	477.5	424.9	404.5
40°	17778.7	15023.2	7181.6	3044.7	1467.6	760.8	648.4	518.4	443.9	392.8	372.4
42.5°	18938.2	15770.9	7067.7	2930.8	1385.8	759.3	623.5	496.5	417.6	368.0	344.6
45°	19865.4	16467.4	7045.8	2862.1	1299.6	785.6	610.4	481.9	397.2	347.5	325.6
47.5°	20636.5	17223.8	7186.0	2813.9	1217.9	717.0	642.5	471.7	378.2	330.0	305.2
50°	21553.5	18152.6	7516.0	2735.1	1131.7	645.4	736.0	474.6	362.1	312.5	286.2
52.5°	22832.7	19437.6	8000.8	2602.2	1013.4	579.7	724.3	477.5	344.6	293.5	267.2
55°	24266.7	21042.4	8522.1	2381.7	848.4	493.6	620.6	457.1	311.0	273.1	248.2
57.5°	25773.7	22498.3	8831.7	2118.8	674.6	426.4	496.5	416.2	274.5	245.3	229.3
60°	26010.2	23051.7	8690.0	1796.1	535.9	370.9	368.0	423.5	245.3	216.1	204.4
62.5°	25421.8	22356.7	8005.2	1508.5	448.3	325.6	302.3	369.4	222.0	192.8	181.1
65°	24290.0	20477.3	6895.4	1359.5	416.2	278.9	251.2	259.9	194.2	167.9	157.7
67.5°	22715.9	17968.6	5661.4	1274.8	411.8	239.5	214.7	197.1	167.9	146.0	137.3
70°	19497.5	14969.2	4516.6	1228.1	400.1	201.5	181.1	160.6	140.2	124.1	116.8
72.5°	14350.0	10607.4	3513.4	1177.0	403.0	160.6	157.7	132.9	112.4	96.4	93.5
75°	8291.4	6060.1	2304.3	953.6	384.0	124.1	131.4	93.5	78.9	67.2	67.2
77.5°	4418.8	3695.9	877.6	397.2	140.2	78.9	74.5	55.5	49.6	40.9	39.4
80°	1926.1	1626.7	264.3	111.0	77.4	42.3	27.7	24.8	21.9	17.5	16.1
82.5°	681.9	588.5	86.2	54.0	33.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	154.8	111.0	0.0	13.1	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: P324284

CATALOG NUMBER: GLEON-SA0B-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	10341.6	10341.6	10341.6	10341.6	10341.6	10341.6	10341.6	10341.6	10341.6	10341.6	10341.6
2.5°	8771.8	8739.7	8549.9	8557.2	8590.7	8638.9	8525.0	8577.6	8719.2	8855.0	8906.2
5°	6782.9	6790.2	6674.9	6746.4	6810.7	6854.5	6670.5	6673.4	6785.9	6939.2	7019.5
7.5°	4779.4	4767.8	4773.6	4944.5	5065.7	4978.0	5046.7	4808.7	4823.3	4932.8	4851.0
10°	3552.8	3392.2	3301.7	3430.2	3563.0	3514.9	3396.6	3319.2	3373.2	3494.4	3485.7
12.5°	2792.0	2561.3	2425.5	2333.5	2443.0	2352.5	2349.6	2282.4	2209.4	2222.5	2416.7
15°	2099.9	1931.9	1771.3	1623.8	1620.9	1590.2	1434.0	1258.7	1244.1	1252.9	1353.7
17.5°	1444.2	1387.3	1321.5	1194.5	1160.9	1032.4	880.5	810.4	775.4	791.5	825.0
20°	1014.9	993.0	1000.3	931.6	883.5	760.8	671.7	644.0	638.1	654.2	670.3
22.5°	841.1	801.7	797.3	766.6	718.5	629.4	581.2	565.1	557.8	572.4	584.1
25°	736.0	696.5	680.5	661.5	610.4	549.1	519.9	505.3	498.0	506.7	514.0
27.5°	648.4	611.9	597.2	584.1	534.5	490.6	467.3	454.1	448.3	451.2	458.5
30°	582.6	550.5	531.5	515.5	473.1	442.5	422.0	408.9	403.0	403.0	410.3
32.5°	514.0	496.5	479.0	458.5	419.1	398.7	378.2	363.6	357.8	359.2	365.1
35°	427.9	422.0	426.4	407.4	373.8	356.3	335.9	319.8	315.4	316.9	322.7
37.5°	379.7	353.4	369.4	359.2	340.2	316.9	290.6	276.0	268.7	273.1	276.0
40°	349.0	316.9	305.2	315.4	312.5	274.5	251.2	236.6	230.7	232.2	235.1
42.5°	322.7	284.8	258.5	257.0	274.5	239.5	214.7	201.5	194.2	194.2	197.1
45°	297.9	257.0	224.9	200.1	230.7	203.0	179.6	167.9	159.2	159.2	160.6
47.5°	278.9	233.6	195.7	163.5	173.8	166.5	147.5	135.8	127.0	127.0	128.5
50°	261.4	210.3	169.4	137.3	130.0	137.3	119.7	106.6	100.8	99.3	102.2
52.5°	242.4	186.9	144.6	116.8	102.2	103.7	93.5	84.7	77.4	77.4	80.3
55°	223.4	167.9	125.6	99.3	84.7	77.4	74.5	68.6	62.8	62.8	65.7
57.5°	204.4	147.5	106.6	81.8	67.2	61.3	61.3	57.0	52.6	52.6	55.5
60°	186.9	127.0	87.6	67.2	52.6	51.1	52.6	48.2	45.3	45.3	48.2
62.5°	166.5	108.1	71.6	55.5	42.3	40.9	45.3	42.3	39.4	39.4	42.3
65°	141.6	92.0	57.0	42.3	32.1	32.1	38.0	35.0	32.1	32.1	35.0
67.5°	119.7	77.4	43.8	30.7	23.4	24.8	32.1	29.2	27.7	27.7	30.7
70°	99.3	59.9	30.7	19.0	13.1	19.0	24.8	24.8	24.8	24.8	27.7
72.5°	74.5	40.9	17.5	7.3	5.8	13.1	20.4	23.4	21.9	21.9	26.3
75°	48.2	23.4	5.8	0.0	0.0	7.3	16.1	19.0	19.0	17.5	21.9
77.5°	27.7	7.3	0.0	0.0	0.0	0.0	10.2	8.8	7.3	5.8	10.2
80°	7.3	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: P324284

CATALOG NUMBER: GLEON-SA0B-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10341.6	10341.6	10341.6	10341.6	10341.6	10341.6	10341.6	10341.6	10341.6	10341.6
2.5°	9112.1	9284.4	9526.8	9783.8	10179.5	10493.5	10801.6	11065.9	11168.1	11210.5
5°	7212.2	7464.9	7819.7	8275.3	8989.4	9631.9	10283.2	10938.8	11223.6	11295.1
7.5°	5175.2	5497.9	5949.1	6520.1	7356.8	8189.2	9098.9	10061.2	10502.2	10613.2
10°	3830.3	4224.5	4741.5	5343.1	6141.9	6997.6	7989.1	9088.7	9592.5	9740.0
12.5°	2717.6	3250.5	3942.7	4674.3	5366.5	6130.2	7133.4	8345.4	8874.0	9033.2
15°	1596.1	2111.5	2930.8	3910.6	4797.0	5570.9	6590.2	7964.3	8546.9	8707.6
17.5°	915.6	1172.6	1791.7	2884.0	4087.3	5159.1	6419.3	8059.2	8745.5	8894.5
20°	699.5	781.2	1032.4	1857.5	3257.9	4754.6	6419.3	8596.6	9442.1	9661.1
22.5°	611.9	671.7	773.9	1108.3	2397.8	4320.9	6493.8	9373.4	10478.9	10721.3
25°	543.2	597.2	684.9	833.8	1635.5	3805.5	6670.5	10327.0	11699.6	12013.6
27.5°	486.3	537.4	616.2	730.1	1118.6	3183.4	6908.5	11445.6	13046.0	13297.2
30°	435.2	483.3	554.9	635.2	863.0	2478.1	7111.5	12499.9	14103.2	14373.4
32.5°	387.0	430.8	495.0	554.9	706.8	1832.6	7133.4	13335.1	14980.9	15249.5
35°	341.7	381.1	439.5	486.3	585.6	1447.1	6793.2	14059.4	15858.5	16213.3
37.5°	297.9	335.9	387.0	422.0	515.5	1179.9	6273.3	14867.0	16984.3	17312.9
40°	257.0	290.6	343.2	366.5	487.7	906.8	5708.2	15713.9	18088.3	18389.1
42.5°	219.0	251.2	302.3	347.5	427.9	677.6	5097.8	16508.3	19081.3	19396.7
45°	182.5	216.1	267.2	368.0	354.8	506.7	4445.0	17035.4	19865.4	20208.6
47.5°	147.5	185.5	255.5	350.5	283.3	372.4	3928.1	17534.9	20459.8	20798.6
50°	118.3	156.2	287.7	312.5	232.2	284.8	3712.0	17981.7	20849.7	21175.3
52.5°	96.4	131.4	271.6	239.5	194.2	235.1	3828.8	18706.0	21210.3	21414.8
55°	80.3	103.7	163.5	166.5	165.0	200.1	3973.4	19745.7	22143.5	22239.8
57.5°	70.1	83.2	113.9	128.5	138.7	178.2	3976.3	21238.1	23587.7	23647.5
60°	59.9	73.0	94.9	103.7	119.7	159.2	3831.7	21759.4	24155.7	24354.3
62.5°	52.6	64.3	78.9	86.2	100.8	143.1	3493.0	21004.4	23375.9	23713.2
65°	46.7	58.4	65.7	73.0	89.1	128.5	2935.1	19494.5	22082.1	22434.0
67.5°	40.9	51.1	58.4	65.7	80.3	113.9	2161.2	17740.8	20597.0	20889.1
70°	36.5	45.3	52.6	58.4	70.1	96.4	1311.3	15053.9	18543.9	18665.1
72.5°	35.0	40.9	48.2	52.6	61.3	84.7	664.4	11063.0	14824.6	15021.7
75°	30.7	36.5	43.8	46.7	54.0	73.0	270.1	7266.3	10743.2	11060.0
77.5°	24.8	33.6	39.4	42.3	46.7	59.9	137.3	4643.6	7539.3	7743.8
80°	8.8	24.8	33.6	35.0	39.4	43.8	90.5	2542.3	4373.5	4461.1
82.5°	0.0	16.1	26.3	24.8	27.7	33.6	58.4	1209.1	2886.9	2919.1
85°	0.0	7.3	20.4	16.1	11.7	23.4	20.4	264.3	1514.3	1577.1
87.5°	0.0	0.0	1.5	7.3	5.8	8.8	2.9	1.5	137.3	173.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)