

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: P324297

Luminaire Tested: **GLEON-SA3D-827-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324297
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-SA3D-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1200mA 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: 12909 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

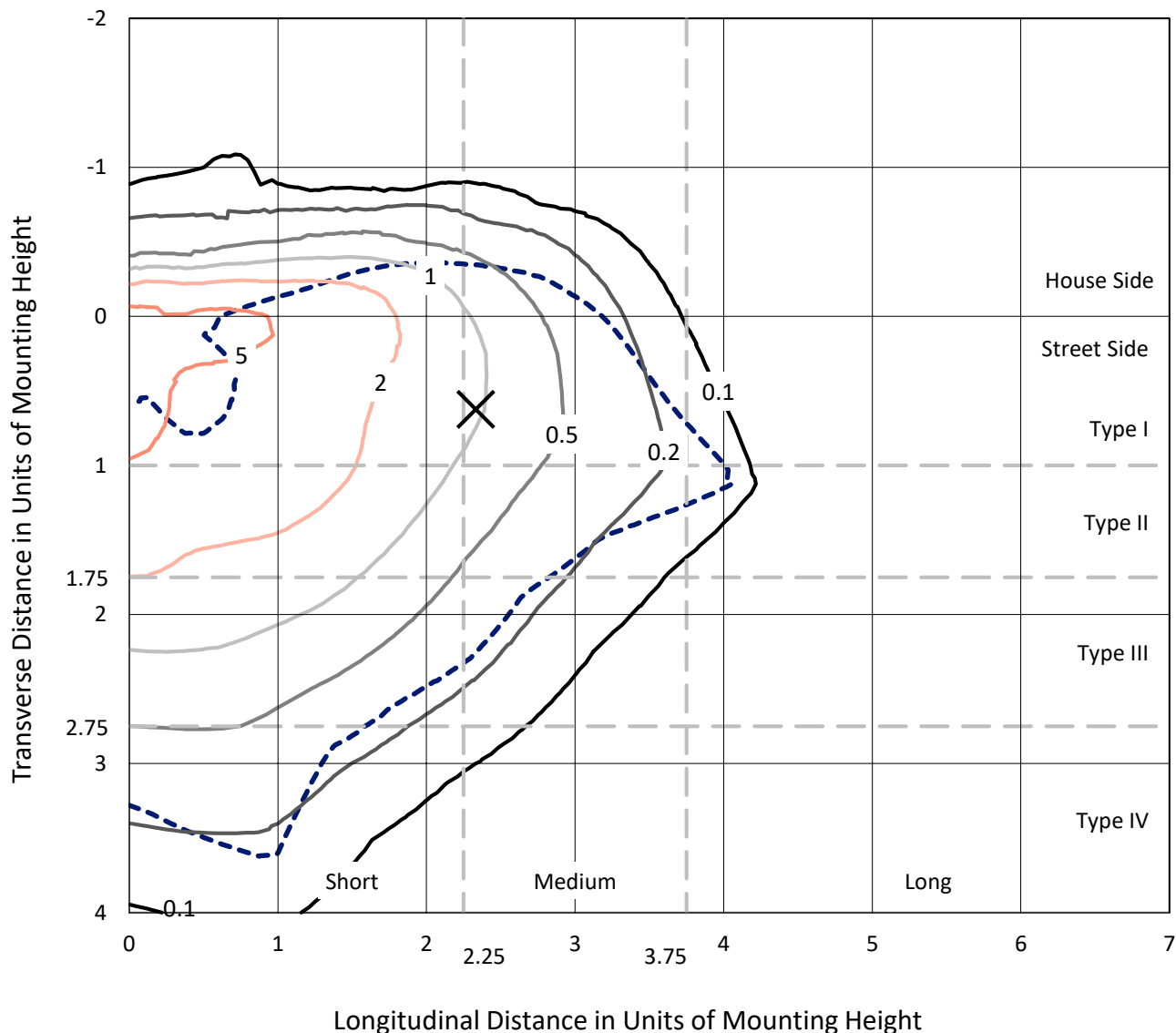
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324297
 CATALOG NUMBER: GLEON-SA3D-827-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

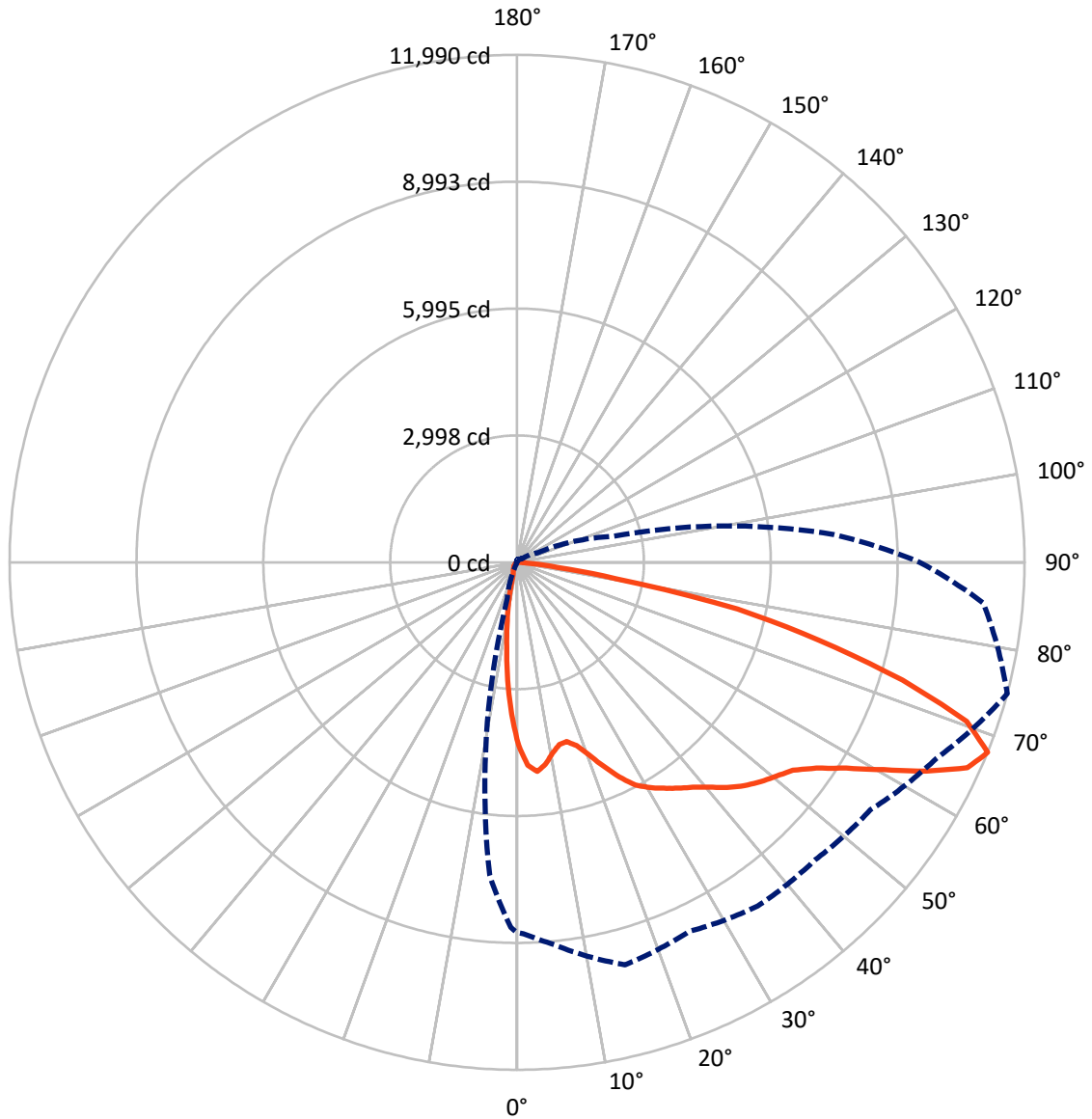
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type III - Medium - N/A

REPORT NUMBER: P324297
CATALOG NUMBER: GLEON-SA3D-827-U-SLL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P324297
 CATALOG NUMBER: GLEON-SA3D-827-U-SLL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1937.1	0.0	1937.1
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	10971.9	0.0	10971.9
	% Fixture	85.0	0.0	85.0
Total	Lumens	12909.0	0.0	12909.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.5	2.5
10°-20°	646.8	5.0
20°-30°	915.1	7.1
30°-40°	1345.4	10.4
40°-50°	1933.8	15.0
50°-60°	2722.3	21.1
60°-70°	3179.4	24.6
70°-80°	1622.0	12.6
80°-90°	215.5	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°	12909.0	100.0
0°-180°	12909.0	100.0

Coefficient of Utilization

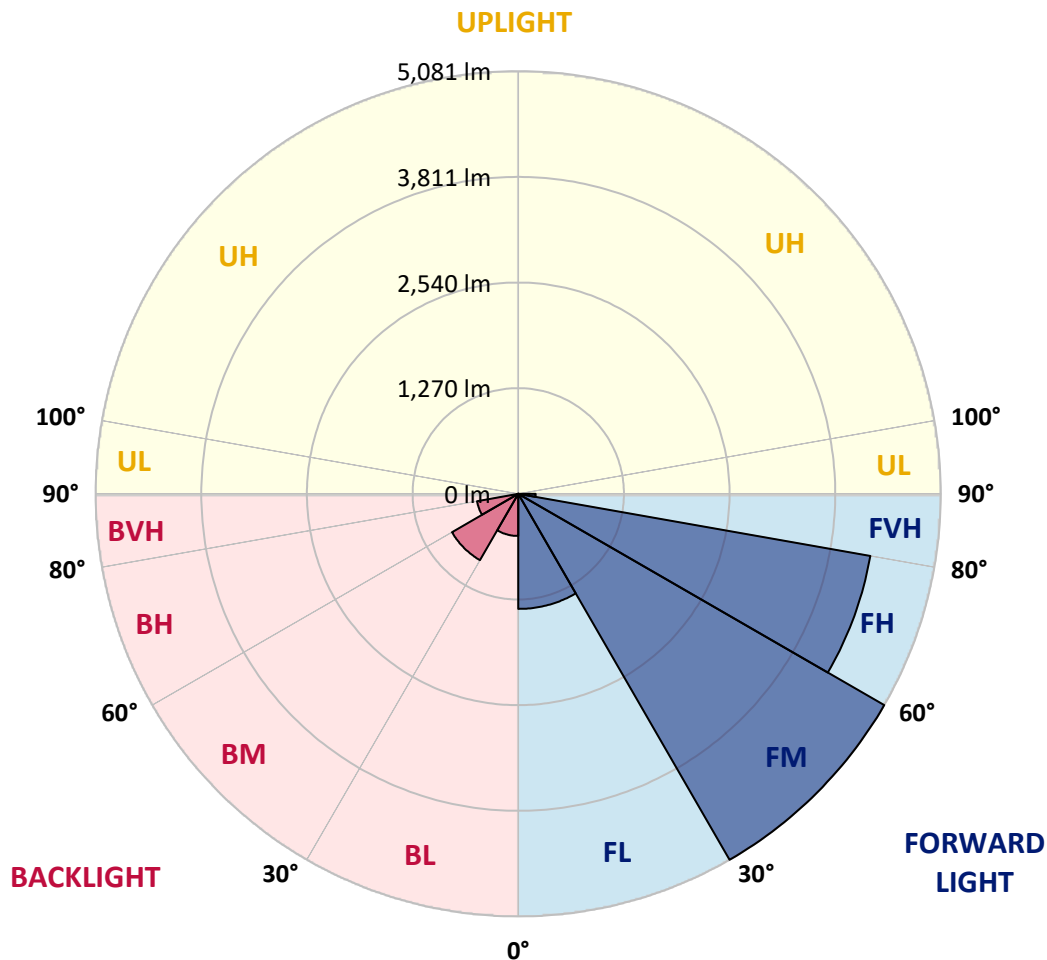


REPORT NUMBER: P324297
 CATALOG NUMBER: GLEON-SA3D-827-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1383.8	10.7			
FM (30°-60°)	5080.8	39.4			
FH (60°-80°)	4298.3	33.3			G2/5000
FVH (80°-90°)	208.9	1.6			G2/225
BL (0°-30°)	506.6	3.9	B2/1000		
BM (30°-60°)	920.9	7.1	B1/1000		
BH (60°-80°)	503.2	3.9	B2/1000		G2/1000
BVH (80°-90°)	6.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type III Medium





REPORT NUMBER: P324297

CATALOG NUMBER: GLEON-SA3D-827-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4330.7	4330.7	4330.7	4330.7	4330.7	4330.7	4330.7	4330.7	4330.7	4330.7	4330.7
2.5°	4694.6	4701.9	4739.9	4827.9	4923.9	4931.3	4996.1	4929.4	4906.8	4799.2	4687.9
5°	4730.1	4758.2	4888.5	5147.1	5371.5	5443.7	5495.1	5364.2	5226.6	4963.7	4683.0
7.5°	4444.5	4491.6	4696.4	5182.0	5583.1	5760.5	5794.1	5589.2	5252.3	4819.3	4397.4
10°	4078.8	4132.6	4379.7	4976.5	5527.5	5831.4	5877.9	5609.4	5125.1	4585.8	4088.6
12.5°	3782.8	3845.8	4098.4	4745.4	5336.1	5672.4	5764.1	5541.5	5015.0	4420.0	3877.6
15°	3646.5	3718.6	3984.0	4596.1	5123.9	5388.7	5464.5	5368.5	4953.9	4393.7	3828.7
17.5°	3724.7	3803.0	4077.0	4609.0	4924.5	5037.7	5098.8	5137.9	4953.9	4552.1	3971.8
20°	4045.8	4130.2	4420.0	4739.2	4759.4	4717.2	4782.7	4920.2	5011.4	4853.0	4315.5
22.5°	4489.7	4588.8	4916.0	4962.4	4678.7	4519.1	4527.7	4743.5	5115.9	5234.6	4792.4
25°	5030.9	5152.0	5484.7	5295.1	4712.3	4401.1	4398.0	4598.0	5218.1	5616.8	5323.8
27.5°	5568.5	5701.8	5994.1	5701.2	4851.1	4379.7	4373.6	4554.0	5317.7	5956.8	5904.2
30°	6019.1	6148.8	6400.7	5995.3	5001.0	4429.8	4400.5	4601.0	5377.1	6177.5	6327.3
32.5°	6386.1	6490.0	6693.6	6197.7	5161.2	4527.0	4463.4	4727.0	5478.0	6364.0	6716.3
35°	6789.7	6899.1	6980.4	6390.3	5341.0	4667.1	4576.0	4927.0	5633.3	6553.6	7142.5
37.5°	7250.1	7359.0	7349.2	6566.4	5569.1	4898.8	4840.8	5243.7	5874.8	6741.3	7618.3
40°	7700.8	7812.1	7732.6	6759.1	5836.9	5281.0	5238.2	5719.5	6198.3	6981.7	8176.0
42.5°	8122.8	8243.2	8073.2	6941.3	6156.1	5762.9	5836.3	6332.2	6603.1	7277.6	8656.6
45°	8462.8	8585.7	8358.8	7118.6	6492.5	6347.5	6568.3	7011.0	7089.9	7527.7	8981.3
47.5°	8709.8	8826.0	8556.9	7296.0	6923.0	7062.4	7447.0	7722.8	7529.6	7744.8	9211.9
50°	8867.6	8958.1	8615.0	7518.0	7488.0	7896.5	8362.5	8497.0	7943.6	7940.5	9491.9
52.5°	8967.9	9008.8	8657.8	7749.7	8077.5	8804.6	9258.9	9301.1	8369.8	8155.8	9869.2
55°	9313.4	9346.4	8961.1	8030.4	8564.9	9600.2	10069.8	10030.7	8852.3	8577.1	10314.4
57.5°	9902.9	9937.7	9587.9	8434.0	8959.3	10091.8	10657.5	10727.8	9417.9	9169.1	10791.4
60°	10198.8	10263.7	10138.9	8945.2	9341.5	10406.1	11058.0	11282.5	10124.9	9949.3	11253.7
62.5°	9930.4	10024.6	10205.6	9512.1	9721.3	10579.2	11182.8	11481.2	10848.9	10858.7	11538.7
65°	9394.7	9469.9	9776.9	9822.8	9941.4	10557.8	10874.6	11203.6	11292.2	11694.0	11523.4
67.5°	8747.7	8775.9	9036.4	9847.2	9622.2	9914.5	9948.7	10192.1	10941.8	11990.0	11060.5
70°	7816.4	7831.7	8059.2	9028.4	8268.9	8333.1	8282.4	8331.9	9406.9	11269.0	9891.9
72.5°	6290.7	6329.2	6652.7	7497.8	6024.0	5838.7	6237.5	6215.4	7244.6	9520.7	7346.7
75°	4631.6	4698.3	5186.9	6039.3	4228.0	3824.4	4115.5	4193.2	5150.2	7364.5	4594.3
77.5°	3242.9	3292.4	3765.7	4439.6	3060.0	2734.7	2629.5	2721.9	3399.4	5327.5	2314.6
80°	1868.2	1886.5	2188.6	2563.5	2062.0	2359.2	2137.2	2200.8	2037.0	2370.2	995.5
82.5°	1222.4	1225.5	1343.5	1525.7	1284.2	1492.1	1104.4	1412.0	1253.0	952.1	324.1
85°	660.4	664.1	779.1	1083.0	727.1	410.9	241.5	495.9	774.8	218.3	88.7
87.5°	72.8	66.7	234.8	393.8	201.8	37.3	12.8	55.6	124.1	14.1	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: P324297

CATALOG NUMBER: GLEON-SA3D-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4330.7	4330.7	4330.7	4330.7	4330.7	4330.7	4330.7	4330.7	4330.7	4330.7	4330.7
2.5°	4631.0	4580.2	4453.7	4319.7	4212.1	4111.2	4009.7	3885.6	3789.6	3770.0	3738.2
5°	4531.9	4371.1	4105.7	3839.1	3624.4	3353.5	3181.7	3047.8	2916.9	2909.0	2882.7
7.5°	4185.8	3974.2	3600.6	3231.9	2929.8	2671.7	2411.2	2236.9	2099.9	2051.6	2022.9
10°	3853.2	3615.3	3148.7	2728.0	2458.3	2230.2	2046.7	1864.5	1699.4	1585.7	1534.3
12.5°	3620.8	3357.8	2843.5	2480.9	2287.7	2071.2	1847.4	1619.9	1429.7	1292.7	1209.0
15°	3530.9	3250.2	2741.4	2383.1	2144.6	1870.6	1584.4	1324.5	1113.6	989.4	914.2
17.5°	3637.9	3311.4	2733.5	2263.8	1930.6	1589.9	1273.8	966.8	768.1	673.9	625.6
20°	3909.4	3505.8	2730.4	2117.7	1676.2	1257.3	862.8	636.0	515.5	462.9	440.3
22.5°	4293.4	3754.1	2754.9	1973.4	1411.4	898.3	595.6	467.2	405.4	377.3	364.5
25°	4787.6	4102.7	2824.0	1842.5	1162.5	670.2	464.1	391.4	348.0	325.9	316.8
27.5°	5314.1	4503.8	2931.6	1728.8	960.1	534.5	397.5	335.1	303.9	288.6	280.1
30°	5748.2	4968.6	3040.5	1602.2	813.3	466.0	363.9	305.8	269.7	259.9	251.9
32.5°	6128.0	5320.2	3117.5	1487.8	717.3	414.0	329.0	273.3	248.9	229.9	221.4
35°	6521.2	5613.1	3115.1	1407.7	651.3	374.9	299.6	244.6	215.3	193.2	186.5
37.5°	6946.8	5943.9	3061.9	1339.2	622.5	343.7	283.1	229.3	200.0	178.0	169.4
40°	7445.2	6291.3	3007.4	1275.0	614.6	318.6	271.5	217.1	185.9	164.5	155.9
42.5°	7930.7	6604.4	2959.7	1227.3	580.3	318.0	261.1	207.9	174.9	154.1	144.3
45°	8319.0	6896.1	2950.6	1198.6	544.2	329.0	255.6	201.8	166.3	145.5	136.4
47.5°	8641.9	7212.8	3009.3	1178.4	510.0	300.3	269.1	197.5	158.4	138.2	127.8
50°	9026.0	7601.7	3147.5	1145.4	473.9	270.3	308.2	198.7	151.7	130.9	119.9
52.5°	9561.6	8139.9	3350.5	1089.7	424.4	242.8	303.3	200.0	144.3	122.9	111.9
55°	10162.2	8811.9	3568.8	997.4	355.3	206.7	259.9	191.4	130.3	114.4	104.0
57.5°	10793.2	9421.6	3698.4	887.3	282.5	178.6	207.9	174.3	115.0	102.7	96.0
60°	10892.3	9653.4	3639.1	752.2	224.4	155.3	154.1	177.3	102.7	90.5	85.6
62.5°	10645.9	9362.3	3352.3	631.7	187.7	136.4	126.6	154.7	93.0	80.7	75.8
65°	10171.9	8575.3	2887.6	569.3	174.3	116.8	105.2	108.8	81.3	70.3	66.0
67.5°	9512.7	7524.7	2370.8	533.9	172.4	100.3	89.9	82.6	70.3	61.2	57.5
70°	8164.9	6268.6	1891.4	514.3	167.6	84.4	75.8	67.3	58.7	52.0	48.9
72.5°	6009.4	4442.0	1471.3	492.9	168.8	67.3	66.0	55.6	47.1	40.4	39.1
75°	3472.2	2537.8	965.0	399.3	160.8	52.0	55.0	39.1	33.0	28.1	28.1
77.5°	1850.4	1547.7	367.5	166.3	58.7	33.0	31.2	23.2	20.8	17.1	16.5
80°	806.6	681.2	110.7	46.5	32.4	17.7	11.6	10.4	9.2	7.3	6.7
82.5°	285.6	246.4	36.1	22.6	14.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	64.8	46.5	0.0	5.5	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: P324297

CATALOG NUMBER: GLEON-SA3D-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4330.7	4330.7	4330.7	4330.7	4330.7	4330.7	4330.7	4330.7	4330.7	4330.7	4330.7
2.5°	3673.4	3659.9	3580.4	3583.5	3597.5	3617.7	3570.0	3592.0	3651.4	3708.2	3729.6
5°	2840.5	2843.5	2795.2	2825.2	2852.1	2870.5	2793.4	2794.6	2841.7	2905.9	2939.6
7.5°	2001.5	1996.6	1999.0	2070.6	2121.3	2084.7	2113.4	2013.7	2019.8	2065.7	2031.5
10°	1487.8	1420.5	1382.6	1436.4	1492.1	1471.9	1422.4	1390.0	1412.6	1463.4	1459.7
12.5°	1169.2	1072.6	1015.7	977.2	1023.1	985.2	983.9	955.8	925.2	930.7	1012.1
15°	879.4	809.0	741.8	680.0	678.8	665.9	600.5	527.1	521.0	524.7	566.9
17.5°	604.8	580.9	553.4	500.2	486.2	432.3	368.7	339.4	324.7	331.4	345.5
20°	425.0	415.8	418.9	390.1	370.0	318.6	281.3	269.7	267.2	274.0	280.7
22.5°	352.2	335.7	333.9	321.0	300.9	263.6	243.4	236.7	233.6	239.7	244.6
25°	308.2	291.7	285.0	277.0	255.6	229.9	217.7	211.6	208.5	212.2	215.3
27.5°	271.5	256.2	250.1	244.6	223.8	205.5	195.7	190.2	187.7	189.0	192.0
30°	244.0	230.5	222.6	215.9	198.1	185.3	176.7	171.2	168.8	168.8	171.8
32.5°	215.3	207.9	200.6	192.0	175.5	166.9	158.4	152.3	149.8	150.4	152.9
35°	179.2	176.7	178.6	170.6	156.5	149.2	140.6	133.9	132.1	132.7	135.1
37.5°	159.0	148.0	154.7	150.4	142.5	132.7	121.7	115.6	112.5	114.4	115.6
40°	146.2	132.7	127.8	132.1	130.9	115.0	105.2	99.1	96.6	97.2	98.5
42.5°	135.1	119.2	108.2	107.6	115.0	100.3	89.9	84.4	81.3	81.3	82.6
45°	124.7	107.6	94.2	83.8	96.6	85.0	75.2	70.3	66.7	66.7	67.3
47.5°	116.8	97.8	81.9	68.5	72.8	69.7	61.8	56.9	53.2	53.2	53.8
50°	109.5	88.1	70.9	57.5	54.4	57.5	50.1	44.6	42.2	41.6	42.8
52.5°	101.5	78.3	60.5	48.9	42.8	43.4	39.1	35.5	32.4	32.4	33.6
55°	93.6	70.3	52.6	41.6	35.5	32.4	31.2	28.7	26.3	26.3	27.5
57.5°	85.6	61.8	44.6	34.2	28.1	25.7	25.7	23.8	22.0	22.0	23.2
60°	78.3	53.2	36.7	28.1	22.0	21.4	22.0	20.2	19.0	19.0	20.2
62.5°	69.7	45.3	30.0	23.2	17.7	17.1	19.0	17.7	16.5	16.5	17.7
65°	59.3	38.5	23.8	17.7	13.5	13.5	15.9	14.7	13.5	13.5	14.7
67.5°	50.1	32.4	18.3	12.8	9.8	10.4	13.5	12.2	11.6	11.6	12.8
70°	41.6	25.1	12.8	7.9	5.5	7.9	10.4	10.4	10.4	10.4	11.6
72.5°	31.2	17.1	7.3	3.1	2.4	5.5	8.6	9.8	9.2	9.2	11.0
75°	20.2	9.8	2.4	0.0	0.0	3.1	6.7	7.9	7.9	7.3	9.2
77.5°	11.6	3.1	0.0	0.0	0.0	0.0	4.3	3.7	3.1	2.4	4.3
80°	3.1	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: P324297

CATALOG NUMBER: GLEON-SA3D-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4330.7	4330.7	4330.7	4330.7	4330.7	4330.7	4330.7	4330.7	4330.7	4330.7
2.5°	3815.9	3888.0	3989.5	4097.2	4262.9	4394.3	4523.4	4634.1	4676.9	4694.6
5°	3020.3	3126.1	3274.7	3465.5	3764.5	4033.6	4306.3	4580.9	4700.1	4730.1
7.5°	2167.2	2302.4	2491.3	2730.4	3080.8	3429.4	3810.3	4213.3	4398.0	4444.5
10°	1604.0	1769.1	1985.6	2237.5	2572.0	2930.4	3345.6	3806.1	4017.0	4078.8
12.5°	1138.0	1361.2	1651.1	1957.5	2247.3	2567.1	2987.3	3494.8	3716.2	3782.8
15°	668.4	884.3	1227.3	1637.6	2008.8	2332.9	2759.8	3335.2	3579.2	3646.5
17.5°	383.4	491.0	750.3	1207.7	1711.6	2160.5	2688.2	3375.0	3662.4	3724.7
20°	292.9	327.2	432.3	777.8	1364.3	1991.1	2688.2	3600.0	3954.1	4045.8
22.5°	256.2	281.3	324.1	464.1	1004.1	1809.5	2719.4	3925.3	4388.2	4489.7
25°	227.5	250.1	286.8	349.2	684.9	1593.6	2793.4	4324.6	4899.5	5030.9
27.5°	203.6	225.0	258.1	305.8	468.4	1333.1	2893.1	4793.1	5463.3	5568.5
30°	182.2	202.4	232.4	266.0	361.4	1037.7	2978.1	5234.6	5906.0	6019.1
32.5°	162.1	180.4	207.3	232.4	296.0	767.5	2987.3	5584.4	6273.5	6386.1
35°	143.1	159.6	184.1	203.6	245.2	606.0	2844.8	5887.7	6641.1	6789.7
37.5°	124.7	140.6	162.1	176.7	215.9	494.1	2627.1	6225.8	7112.5	7250.1
40°	107.6	121.7	143.7	153.5	204.2	379.8	2390.4	6580.5	7574.8	7700.8
42.5°	91.7	105.2	126.6	145.5	179.2	283.7	2134.8	6913.2	7990.7	8122.8
45°	76.4	90.5	111.9	154.1	148.6	212.2	1861.5	7133.9	8319.0	8462.8
47.5°	61.8	77.7	107.0	146.8	118.6	155.9	1645.0	7343.1	8567.9	8709.8
50°	49.5	65.4	120.5	130.9	97.2	119.2	1554.5	7530.2	8731.2	8867.6
52.5°	40.4	55.0	113.7	100.3	81.3	98.5	1603.4	7833.5	8882.3	8967.9
55°	33.6	43.4	68.5	69.7	69.1	83.8	1663.9	8268.9	9273.0	9313.4
57.5°	29.4	34.9	47.7	53.8	58.1	74.6	1665.2	8893.9	9877.8	9902.9
60°	25.1	30.6	39.7	43.4	50.1	66.7	1604.6	9112.2	10115.7	10198.8
62.5°	22.0	26.9	33.0	36.1	42.2	59.9	1462.7	8796.0	9789.1	9930.4
65°	19.6	24.5	27.5	30.6	37.3	53.8	1229.1	8163.7	9247.3	9394.7
67.5°	17.1	21.4	24.5	27.5	33.6	47.7	905.0	7429.3	8625.4	8747.7
70°	15.3	19.0	22.0	24.5	29.4	40.4	549.1	6304.1	7765.6	7816.4
72.5°	14.7	17.1	20.2	22.0	25.7	35.5	278.2	4632.8	6208.1	6290.7
75°	12.8	15.3	18.3	19.6	22.6	30.6	113.1	3042.9	4498.9	4631.6
77.5°	10.4	14.1	16.5	17.7	19.6	25.1	57.5	1944.6	3157.3	3242.9
80°	3.7	10.4	14.1	14.7	16.5	18.3	37.9	1064.6	1831.5	1868.2
82.5°	0.0	6.7	11.0	10.4	11.6	14.1	24.5	506.3	1209.0	1222.4
85°	0.0	3.1	8.6	6.7	4.9	9.8	8.6	110.7	634.1	660.4
87.5°	0.0	0.0	0.6	3.1	2.4	3.7	1.2	0.6	57.5	72.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)