

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: P382890

Luminaire Tested: **GLEON-SA2C-735-U-SLL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382890  
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-SA2C-735-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1050mA 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: 9994.6 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

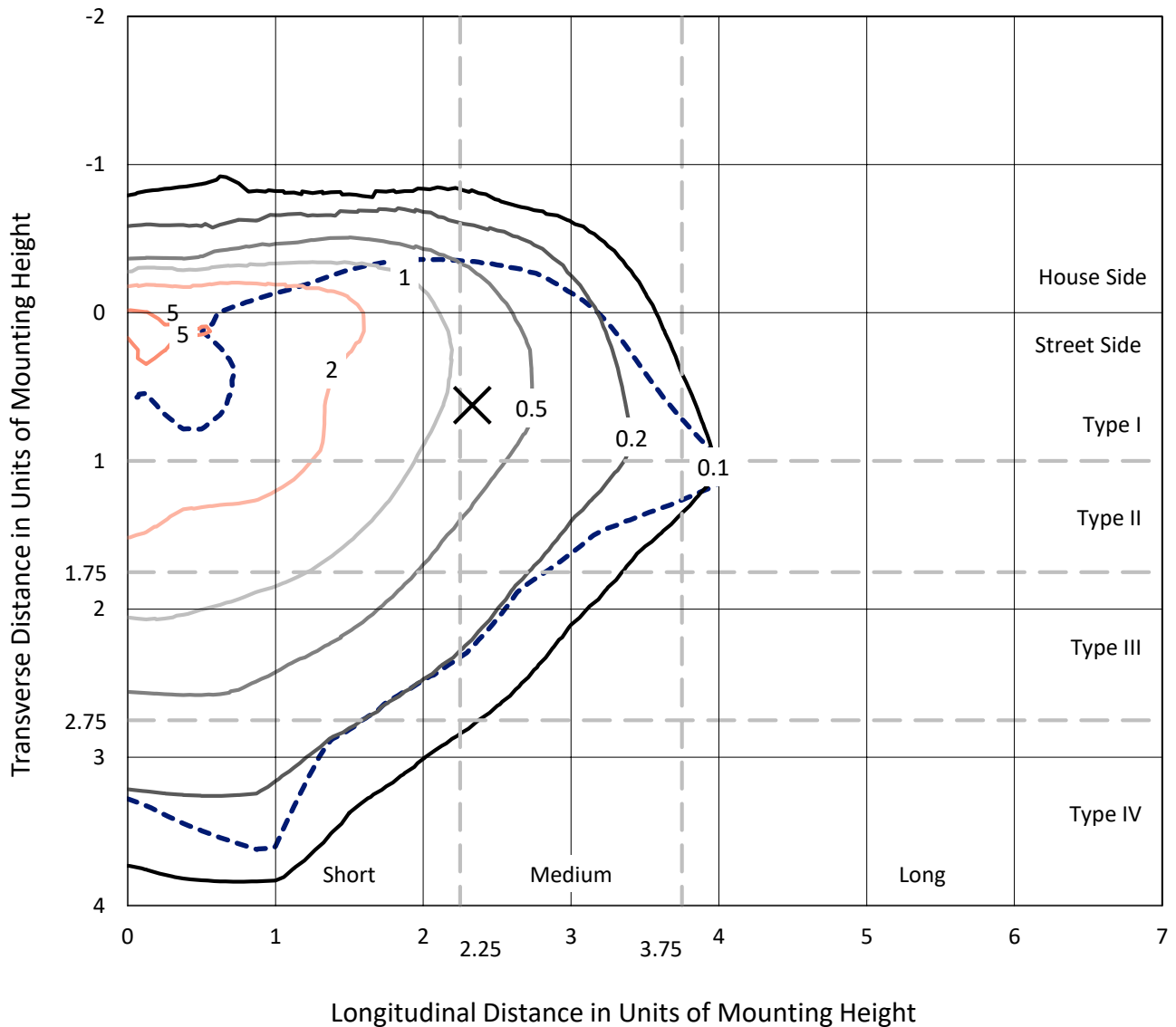
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P382890  
 CATALOG NUMBER: GLEON-SA2C-735-U-SLL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

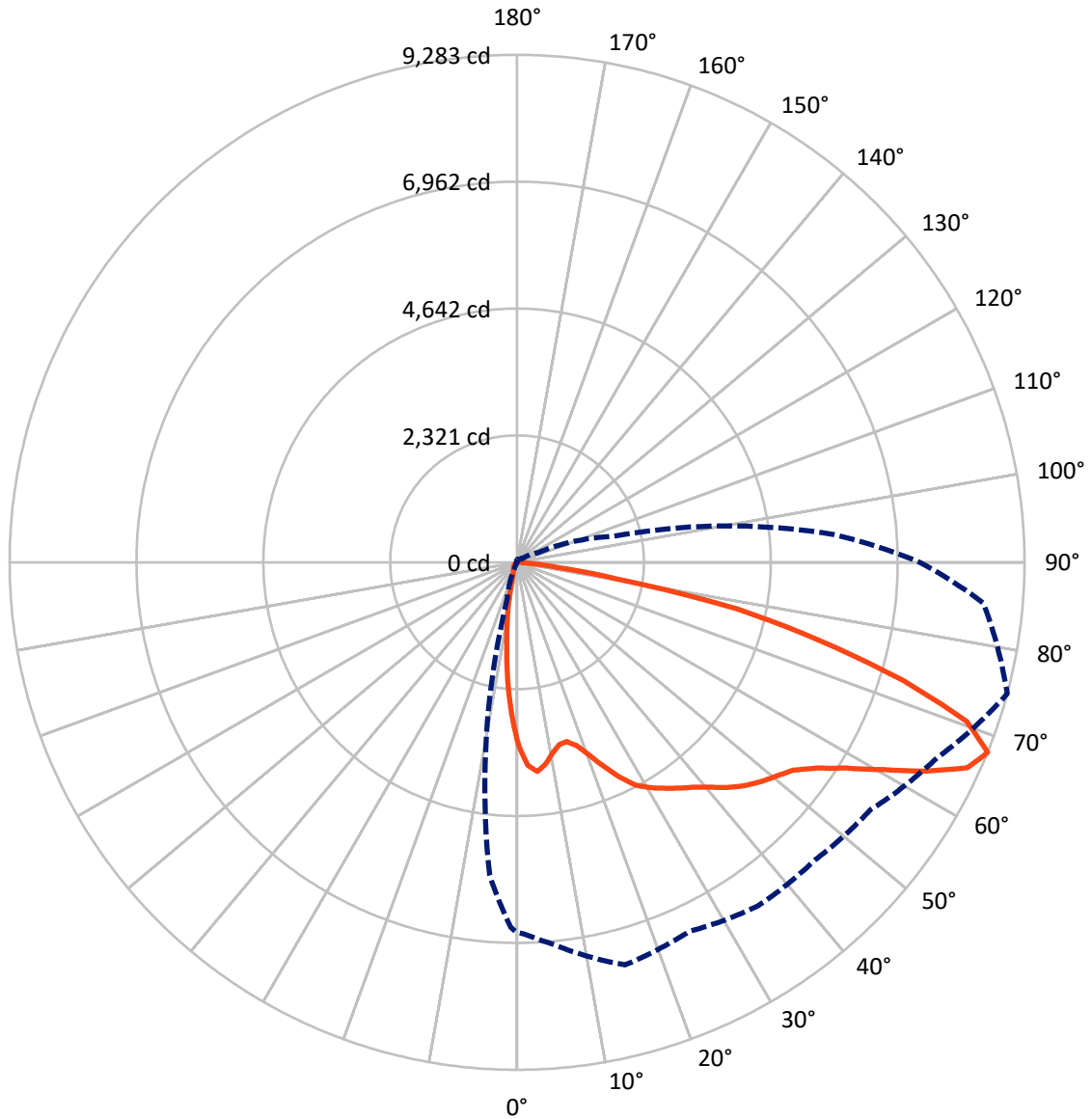
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc  
 Type III - Medium - N/A

REPORT NUMBER: P382890  
CATALOG NUMBER: GLEON-SA2C-735-U-SLL-HSS

### Luminous Intensity Polar Plot



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



REPORT NUMBER: P382890  
 CATALOG NUMBER: GLEON-SA2C-735-U-SLL-HSS

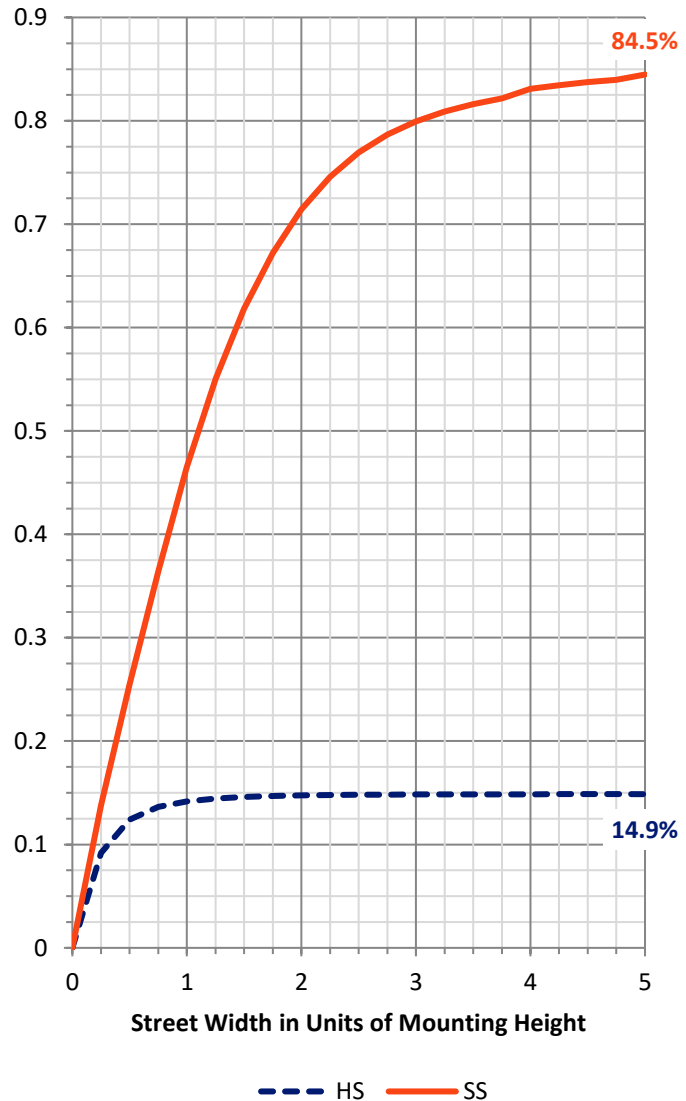
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1499.8	0.0	1499.8
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	8494.8	0.0	8494.8
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	9994.6	0.0	9994.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.3	2.5
10°-20°	500.8	5.0
20°-30°	708.5	7.1
30°-40°	1041.7	10.4
40°-50°	1497.2	15.0
50°-60°	2107.7	21.1
60°-70°	2461.6	24.6
70°-80°	1255.8	12.6
80°-90°	166.8	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°	9994.6	100.0
0°-180°	9994.6	100.0

**Coefficient of Utilization**

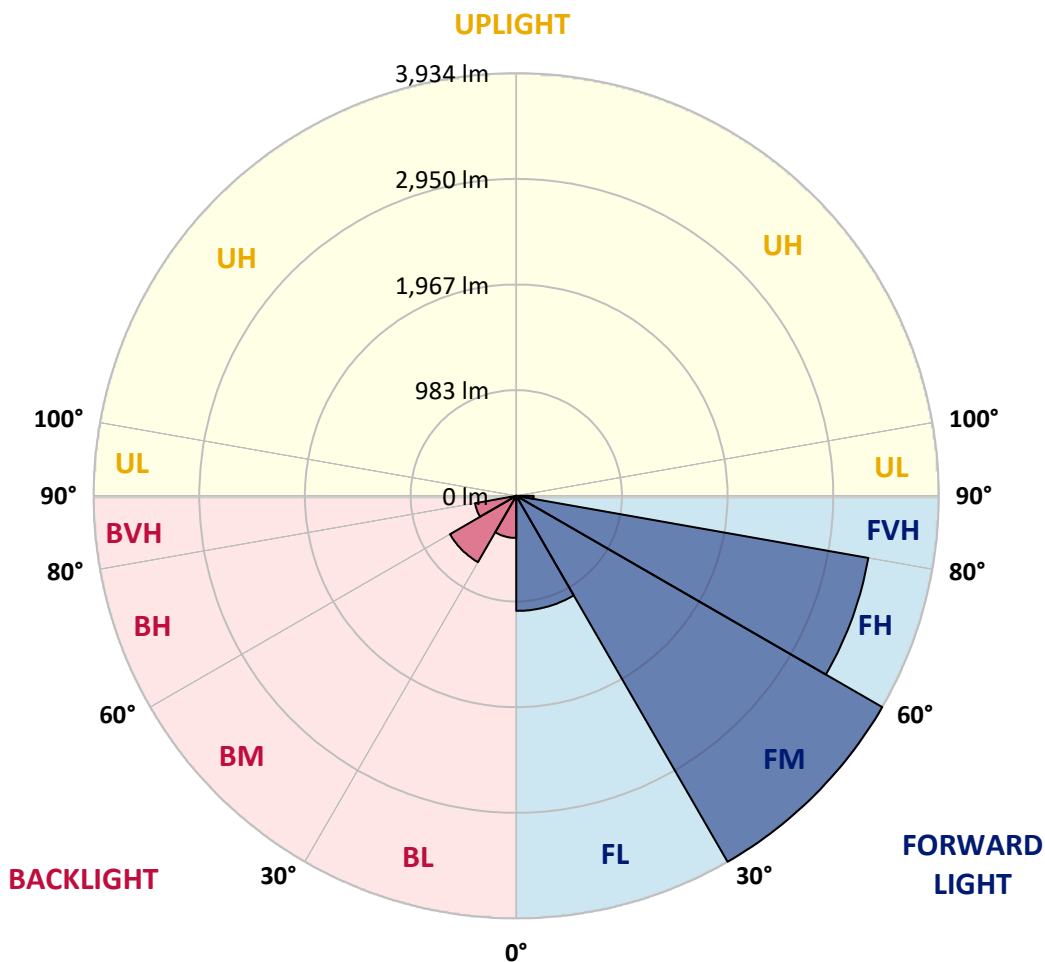


REPORT NUMBER: P382890  
 CATALOG NUMBER: GLEON-SA2C-735-U-SLL-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1071.4	10.7			
FM (30°-60°)	3933.7	39.4			
FH (60°-80°)	3327.9	33.3			G2/5000
FVH (80°-90°)	161.8	1.6			G2/225
BL (0°-30°)	392.2	3.9	B1/500		
BM (30°-60°)	713.0	7.1	B1/1000		
BH (60°-80°)	389.6	3.9	B1/500		G1/500
BVH (80°-90°)	5.1	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-G2**  
 Type III Medium





REPORT NUMBER: P382890

CATALOG NUMBER: GLEON-SA2C-735-U-SLL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3353.0	3353.0	3353.0	3353.0	3353.0	3353.0	3353.0	3353.0	3353.0	3353.0	3353.0
2.5°	3634.7	3640.4	3669.7	3737.9	3812.3	3817.9	3868.2	3816.6	3799.0	3715.7	3629.5
5°	3662.2	3684.0	3784.8	3985.1	4158.8	4214.7	4254.5	4153.1	4046.6	3843.0	3625.7
7.5°	3441.0	3477.6	3636.1	4012.1	4322.7	4460.0	4486.0	4327.4	4066.5	3731.3	3404.6
10°	3157.9	3199.6	3390.9	3853.0	4279.5	4514.8	4550.9	4343.0	3968.0	3550.4	3165.5
12.5°	2928.8	2977.6	3173.1	3674.0	4131.4	4391.8	4462.8	4290.4	3882.8	3422.1	3002.2
15°	2823.2	2879.0	3084.5	3558.5	3967.1	4172.1	4230.8	4156.5	3835.5	3401.7	2964.3
17.5°	2883.8	2944.4	3156.5	3568.4	3812.7	3900.3	3947.7	3978.0	3835.5	3524.4	3075.1
20°	3132.4	3197.7	3422.1	3669.3	3684.9	3652.2	3702.9	3809.4	3880.0	3757.3	3341.2
22.5°	3476.1	3552.8	3806.1	3842.1	3622.4	3498.8	3505.5	3672.6	3960.9	4052.8	3710.4
25°	3895.1	3988.9	4246.5	4099.6	3648.4	3407.4	3405.1	3559.9	4040.0	4348.7	4121.9
27.5°	4311.3	4414.5	4640.8	4414.0	3755.9	3390.9	3386.2	3525.8	4117.2	4611.9	4571.2
30°	4660.3	4760.6	4955.6	4641.7	3871.9	3429.7	3406.9	3562.2	4163.1	4782.8	4898.8
32.5°	4944.3	5024.8	5182.5	4798.5	3996.0	3504.9	3455.8	3659.8	4241.2	4927.2	5200.0
35°	5256.8	5341.5	5404.5	4947.6	4135.1	3613.4	3542.9	3814.6	4361.5	5074.0	5529.9
37.5°	5613.3	5697.5	5690.0	5083.9	4311.8	3792.9	3747.9	4059.9	4548.5	5219.4	5898.3
40°	5962.2	6048.4	5986.9	5233.1	4519.1	4088.7	4055.6	4428.2	4799.0	5405.4	6330.1
42.5°	6288.9	6382.2	6250.6	5374.2	4766.3	4461.8	4518.7	4902.6	5112.3	5634.6	6702.2
45°	6552.1	6647.3	6471.6	5511.5	5026.6	4914.5	5085.4	5428.1	5489.2	5828.2	6953.6
47.5°	6743.4	6833.4	6625.1	5648.8	5359.9	5467.9	5765.7	5979.2	5829.6	5996.3	7132.1
50°	6865.6	6935.7	6670.1	5820.7	5797.5	6113.7	6474.5	6578.7	6150.2	6147.8	7349.0
52.5°	6943.2	6975.0	6703.1	6000.1	6253.9	6816.8	7168.5	7201.2	6480.2	6314.5	7641.1
55°	7210.7	7236.3	6938.0	6217.4	6631.2	7432.7	7796.4	7766.1	6853.8	6640.7	7985.8
57.5°	7667.1	7694.1	7423.3	6529.9	6936.6	7813.4	8251.4	8305.9	7291.7	7099.0	8355.1
60°	7896.3	7946.5	7849.9	6925.7	7232.5	8056.8	8561.5	8735.2	7839.0	7703.2	8713.0
62.5°	7688.4	7761.4	7901.5	7364.6	7526.5	8190.8	8658.1	8889.1	8399.6	8407.1	8933.6
65°	7273.7	7331.9	7569.6	7605.2	7697.0	8174.2	8419.4	8674.2	8742.9	9053.9	8921.8
67.5°	6772.8	6794.5	6996.2	7624.1	7449.8	7676.1	7702.6	7891.0	8471.5	9283.1	8563.3
70°	6051.7	6063.5	6239.7	6990.1	6402.1	6451.8	6412.5	6450.8	7283.1	8724.9	7658.6
72.5°	4870.4	4900.2	5150.7	5805.0	4664.0	4520.5	4829.2	4812.2	5609.0	7371.2	5688.1
75°	3586.0	3637.6	4015.8	4675.8	3273.5	2961.0	3186.4	3246.4	3987.4	5701.8	3557.0
77.5°	2510.7	2549.1	2915.6	3437.3	2369.2	2117.3	2035.9	2107.3	2631.9	4124.7	1792.0
80°	1446.4	1460.6	1694.5	1984.8	1596.5	1826.6	1654.7	1704.0	1577.1	1835.1	770.8
82.5°	946.5	948.8	1040.2	1181.3	994.2	1155.2	855.1	1093.2	970.1	737.1	251.0
85°	511.3	514.2	603.2	838.5	562.9	318.1	187.1	384.0	599.8	169.0	68.7
87.5°	56.4	51.6	181.8	304.9	156.2	28.9	10.0	43.1	96.1	10.9	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: P382890

CATALOG NUMBER: GLEON-SA2C-735-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3353.0	3353.0	3353.0	3353.0	3353.0	3353.0	3353.0	3353.0	3353.0	3353.0	3353.0
2.5°	3585.4	3546.2	3448.2	3344.4	3261.2	3183.0	3104.5	3008.3	2934.0	2918.8	2894.2
5°	3508.8	3384.2	3178.8	2972.4	2806.2	2596.4	2463.4	2359.7	2258.4	2252.2	2231.9
7.5°	3240.8	3077.0	2787.7	2502.2	2268.3	2068.5	1866.8	1731.9	1625.8	1588.5	1566.2
10°	2983.3	2799.0	2437.9	2112.1	1903.2	1726.7	1584.7	1443.5	1315.7	1227.7	1187.9
12.5°	2803.3	2599.8	2201.5	1920.9	1771.2	1603.6	1430.3	1254.1	1107.0	1000.9	936.0
15°	2733.7	2516.4	2122.5	1845.0	1660.4	1448.3	1226.8	1025.5	862.1	766.0	707.8
17.5°	2816.6	2563.8	2116.4	1752.7	1494.7	1230.9	986.2	748.5	594.7	521.8	484.3
20°	3026.8	2714.3	2114.0	1639.6	1297.7	973.5	668.0	492.4	399.2	358.4	340.9
22.5°	3324.1	2906.5	2132.9	1527.8	1092.7	695.5	461.1	361.7	313.9	292.1	282.2
25°	3706.7	3176.4	2186.4	1426.5	900.1	518.9	359.4	303.0	269.4	252.4	245.3
27.5°	4114.4	3487.0	2269.7	1338.4	743.3	413.8	307.8	259.4	235.3	223.5	216.9
30°	4450.5	3846.8	2354.0	1240.4	629.7	360.8	281.7	236.7	208.8	201.2	195.1
32.5°	4744.5	4119.0	2413.6	1152.0	555.4	320.5	254.7	211.6	192.7	178.0	171.4
35°	5048.9	4345.9	2411.8	1089.9	504.2	290.3	232.0	189.4	166.7	149.6	144.4
37.5°	5378.5	4601.9	2370.6	1036.9	482.0	266.0	219.2	177.6	154.8	137.8	131.2
40°	5764.3	4870.9	2328.5	987.2	475.8	246.7	210.3	168.1	143.9	127.3	120.7
42.5°	6140.2	5113.4	2291.5	950.2	449.3	246.2	202.1	161.0	135.4	119.3	111.7
45°	6440.9	5339.2	2284.4	928.0	421.3	254.7	197.9	156.2	128.7	112.7	105.5
47.5°	6690.8	5584.4	2329.9	912.4	394.9	232.4	208.3	153.0	122.6	107.0	98.9
50°	6988.2	5885.5	2436.8	886.7	366.9	209.2	238.7	153.9	117.4	101.4	92.8
52.5°	7402.9	6302.2	2594.1	843.7	328.6	188.0	234.8	154.8	111.7	95.2	86.6
55°	7867.9	6822.5	2763.1	772.2	275.1	160.0	201.2	148.2	100.9	88.5	80.5
57.5°	8356.4	7294.5	2863.5	687.0	218.7	138.2	161.0	135.0	89.1	79.6	74.3
60°	8433.2	7474.0	2817.6	582.3	173.7	120.3	119.3	137.3	79.6	70.1	66.3
62.5°	8242.3	7248.6	2595.5	489.1	145.3	105.5	98.0	119.8	72.0	62.5	58.7
65°	7875.5	6639.2	2235.6	440.8	135.0	90.5	81.4	84.3	63.0	54.4	51.1
67.5°	7365.1	5825.9	1835.6	413.3	133.5	77.7	69.6	63.9	54.4	47.3	44.5
70°	6321.6	4853.4	1464.4	398.1	129.8	65.3	58.7	52.1	45.5	40.2	37.9
72.5°	4652.6	3439.2	1139.1	381.6	130.7	52.1	51.1	43.1	36.4	31.2	30.3
75°	2688.3	1964.8	747.1	309.2	124.5	40.2	42.6	30.3	25.5	21.8	21.8
77.5°	1432.7	1198.3	284.6	128.7	45.5	25.5	24.1	18.0	16.1	13.2	12.8
80°	624.5	527.4	85.7	36.0	25.1	13.7	9.0	8.0	7.1	5.7	5.2
82.5°	221.1	190.8	27.9	17.5	10.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	50.2	36.0	0.0	4.3	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: P382890

CATALOG NUMBER: GLEON-SA2C-735-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3353.0	3353.0	3353.0	3353.0	3353.0	3353.0	3353.0	3353.0	3353.0	3353.0	3353.0
2.5°	2844.0	2833.7	2772.1	2774.4	2785.3	2801.0	2764.0	2781.0	2827.0	2871.0	2887.6
5°	2199.2	2201.5	2164.2	2187.4	2208.2	2222.4	2162.8	2163.7	2200.1	2249.9	2275.9
7.5°	1549.6	1545.8	1547.8	1603.1	1642.4	1614.0	1636.3	1559.1	1563.8	1599.4	1572.8
10°	1152.0	1099.9	1070.4	1112.2	1155.2	1139.6	1101.3	1076.1	1093.6	1132.9	1130.2
12.5°	905.3	830.5	786.4	756.6	792.1	762.8	761.8	740.0	716.4	720.6	783.5
15°	680.9	626.4	574.3	526.5	525.6	515.6	464.9	408.1	403.4	406.2	438.9
17.5°	468.3	449.8	428.5	387.2	376.4	334.7	285.5	262.8	251.4	256.6	267.5
20°	329.0	321.9	324.3	302.1	286.5	246.7	217.8	208.8	206.9	212.1	217.3
22.5°	272.7	259.9	258.5	248.5	233.0	204.1	188.5	183.2	180.8	185.6	189.4
25°	238.7	225.8	220.6	214.4	197.9	178.0	168.5	163.9	161.4	164.3	166.7
27.5°	210.3	198.4	193.7	189.4	173.3	159.1	151.5	147.3	145.3	146.3	148.7
30°	188.9	178.5	172.3	167.1	153.4	143.5	136.8	132.6	130.7	130.7	133.0
32.5°	166.7	161.0	155.3	148.7	135.9	129.3	122.6	117.9	116.0	116.4	118.4
35°	138.7	136.8	138.2	132.1	121.2	115.5	108.9	103.7	102.3	102.7	104.6
37.5°	123.1	114.6	119.8	116.4	110.3	102.7	94.2	89.5	87.1	88.5	89.5
40°	113.2	102.7	98.9	102.3	101.4	89.1	81.4	76.7	74.8	75.3	76.2
42.5°	104.6	92.3	83.8	83.4	89.1	77.7	69.6	65.3	63.0	63.0	63.9
45°	96.6	83.4	72.9	64.8	74.8	65.8	58.2	54.4	51.6	51.6	52.1
47.5°	90.5	75.7	63.4	53.0	56.4	53.9	47.8	44.1	41.2	41.2	41.6
50°	84.8	68.2	55.0	44.5	42.1	44.5	38.8	34.6	32.7	32.2	33.2
52.5°	78.6	60.6	46.9	37.9	33.2	33.6	30.3	27.5	25.1	25.1	26.1
55°	72.5	54.4	40.7	32.2	27.5	25.1	24.1	22.3	20.4	20.4	21.3
57.5°	66.3	47.8	34.6	26.5	21.8	19.8	19.8	18.4	17.0	17.0	18.0
60°	60.6	41.2	28.4	21.8	17.0	16.6	17.0	15.6	14.7	14.7	15.6
62.5°	53.9	35.0	23.2	18.0	13.7	13.2	14.7	13.7	12.8	12.8	13.7
65°	45.9	29.8	18.4	13.7	10.4	10.4	12.3	11.4	10.4	10.4	11.4
67.5°	38.8	25.1	14.2	10.0	7.5	8.0	10.4	9.5	9.0	9.0	10.0
70°	32.2	19.4	10.0	6.1	4.3	6.1	8.0	8.0	8.0	8.0	9.0
72.5°	24.1	13.2	5.7	2.3	1.9	4.3	6.6	7.5	7.1	7.1	8.5
75°	15.6	7.5	1.9	0.0	0.0	2.3	5.2	6.1	6.1	5.7	7.1
77.5°	9.0	2.3	0.0	0.0	0.0	0.0	3.4	2.8	2.3	1.9	3.4
80°	2.3	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: P382890

CATALOG NUMBER: GLEON-SA2C-735-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3353.0	3353.0	3353.0	3353.0	3353.0	3353.0	3353.0	3353.0	3353.0	3353.0
2.5°	2954.4	3010.2	3088.8	3172.1	3300.5	3402.3	3502.2	3587.9	3621.0	3634.7
5°	2338.4	2420.3	2535.4	2683.0	2914.6	3122.9	3334.1	3546.7	3639.0	3662.2
7.5°	1677.9	1782.5	1928.9	2114.0	2385.2	2655.1	2950.1	3262.1	3405.1	3441.0
10°	1241.8	1369.7	1537.3	1732.4	1991.4	2268.8	2590.3	2946.8	3110.2	3157.9
12.5°	881.1	1054.0	1278.4	1515.5	1739.9	1987.5	2312.8	2705.8	2877.2	2928.8
15°	517.5	684.6	950.2	1267.9	1555.3	1806.3	2136.7	2582.2	2771.2	2823.2
17.5°	296.9	380.2	580.9	935.1	1325.2	1672.7	2081.3	2613.0	2835.5	2883.8
20°	226.7	253.3	334.7	602.2	1056.3	1541.5	2081.3	2787.2	3061.3	3132.4
22.5°	198.4	217.8	251.0	359.4	777.4	1401.0	2105.5	3039.1	3397.5	3476.1
25°	176.2	193.7	222.1	270.3	530.2	1233.8	2162.8	3348.3	3793.4	3895.1
27.5°	157.6	174.2	199.8	236.7	362.7	1032.2	2239.9	3710.9	4229.9	4311.3
30°	141.1	156.7	179.9	206.0	279.8	803.5	2305.8	4052.8	4572.6	4660.3
32.5°	125.5	139.6	160.5	179.9	229.2	594.1	2312.8	4323.6	4857.2	4944.3
35°	110.8	123.6	142.5	157.6	189.8	469.2	2202.6	4558.4	5141.7	5256.8
37.5°	96.6	108.9	125.5	136.8	167.1	382.6	2033.9	4820.2	5506.8	5613.3
40°	83.4	94.2	111.2	118.9	158.2	294.0	1850.7	5094.8	5864.7	5962.2
42.5°	71.0	81.4	98.0	112.7	138.7	219.7	1652.8	5352.4	6186.6	6288.9
45°	59.2	70.1	86.6	119.3	115.0	164.3	1441.2	5523.3	6440.9	6552.1
47.5°	47.8	60.1	82.8	113.6	91.9	120.7	1273.6	5685.2	6633.6	6743.4
50°	38.4	50.7	93.2	101.4	75.3	92.3	1203.6	5830.1	6760.0	6865.6
52.5°	31.2	42.6	88.0	77.7	63.0	76.2	1241.4	6064.9	6877.0	6943.2
55°	26.1	33.6	53.0	53.9	53.5	64.8	1288.2	6402.1	7179.4	7210.7
57.5°	22.7	27.0	36.9	41.6	45.0	57.8	1289.3	6885.9	7647.7	7667.1
60°	19.4	23.7	30.7	33.6	38.8	51.6	1242.3	7055.0	7831.9	7896.3
62.5°	17.0	20.9	25.5	27.9	32.7	46.4	1132.5	6810.2	7579.1	7688.4
65°	15.2	18.9	21.3	23.7	28.9	41.6	951.7	6320.6	7159.6	7273.7
67.5°	13.2	16.6	18.9	21.3	26.1	36.9	700.7	5752.0	6678.1	6772.8
70°	11.8	14.7	17.0	18.9	22.7	31.2	425.2	4880.8	6012.4	6051.7
72.5°	11.4	13.2	15.6	17.0	19.8	27.5	215.5	3586.9	4806.5	4870.4
75°	10.0	11.8	14.2	15.2	17.5	23.7	87.6	2355.9	3483.2	3586.0
77.5°	8.0	10.9	12.8	13.7	15.2	19.4	44.5	1505.6	2444.5	2510.7
80°	2.8	8.0	10.9	11.4	12.8	14.2	29.3	824.3	1418.0	1446.4
82.5°	0.0	5.2	8.5	8.0	9.0	10.9	18.9	392.0	936.0	946.5
85°	0.0	2.3	6.6	5.2	3.8	7.5	6.6	85.7	491.0	511.3
87.5°	0.0	0.0	0.5	2.3	1.9	2.8	0.9	0.5	44.5	56.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)