

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: P383114

Luminaire Tested: **GLEON-SA4C-735-U-SLL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383114  
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-SA4C-735-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 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: 19705 lumens  
Efficiency: N/A  
Efficacy: 87.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

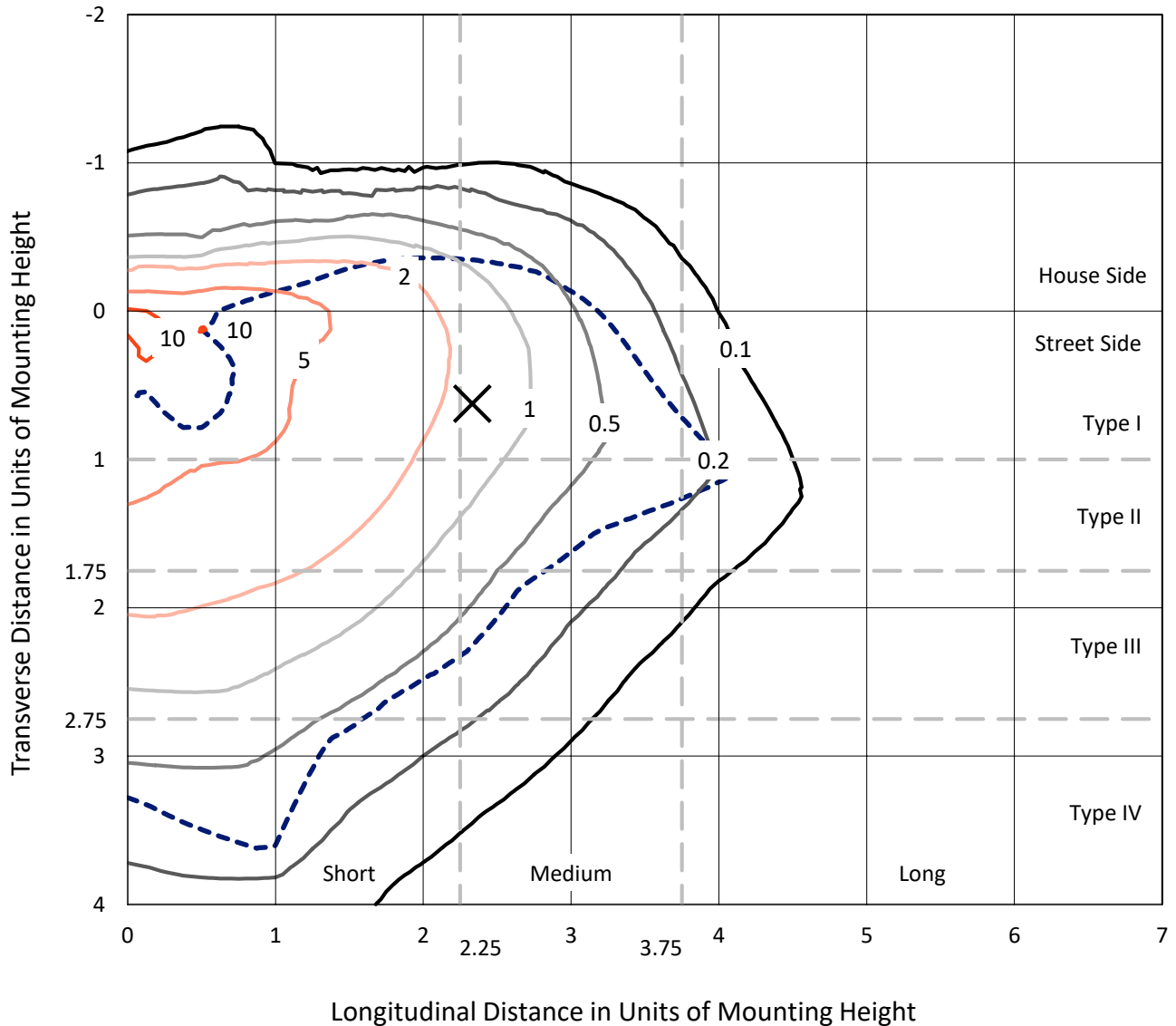
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P383114  
 CATALOG NUMBER: GLEON-SA4C-735-U-SLL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

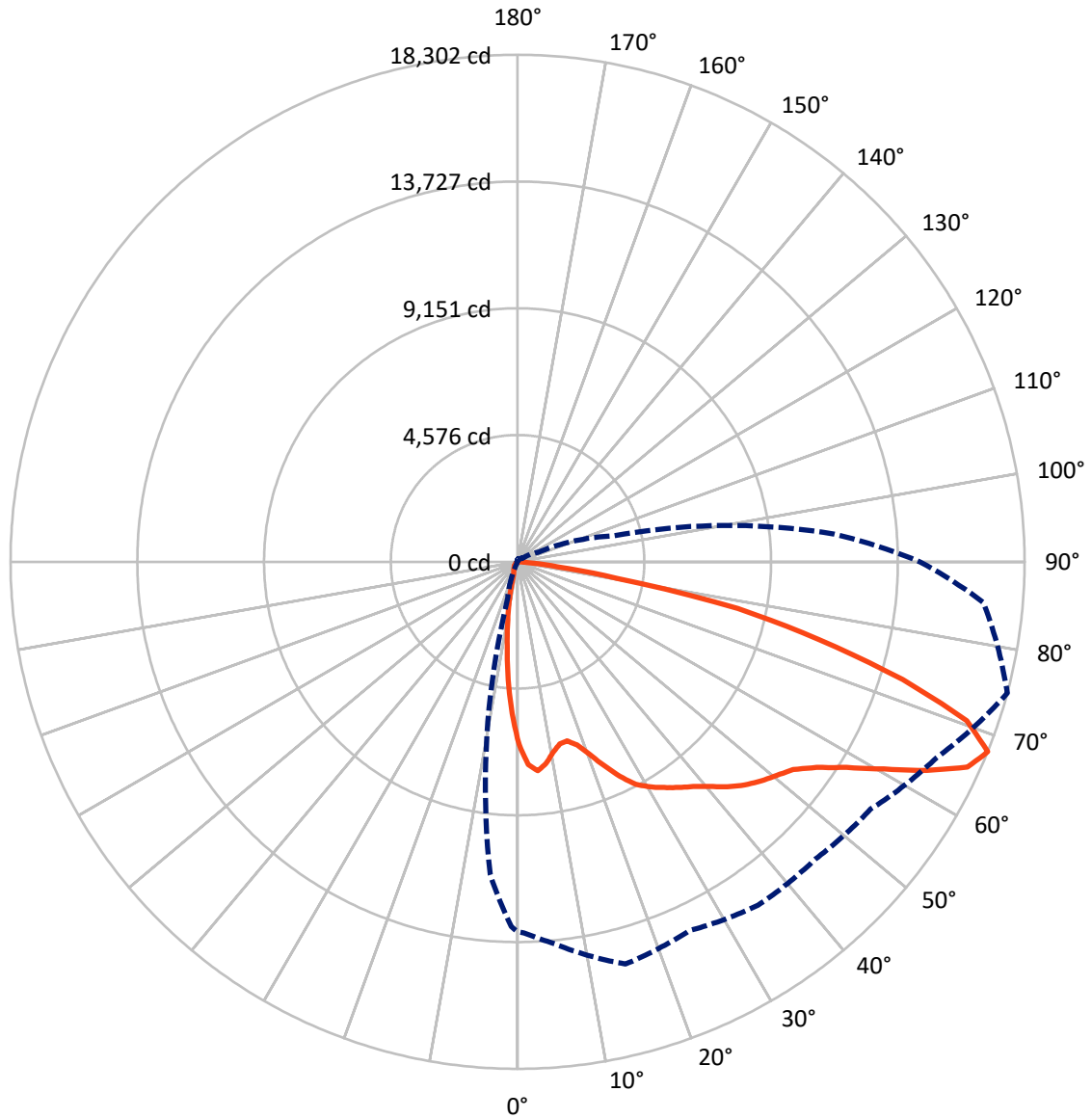
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc  
 Type III - Medium - N/A

REPORT NUMBER: P383114  
CATALOG NUMBER: GLEON-SA4C-735-U-SLL-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P383114  
 CATALOG NUMBER: GLEON-SA4C-735-U-SLL-HSS

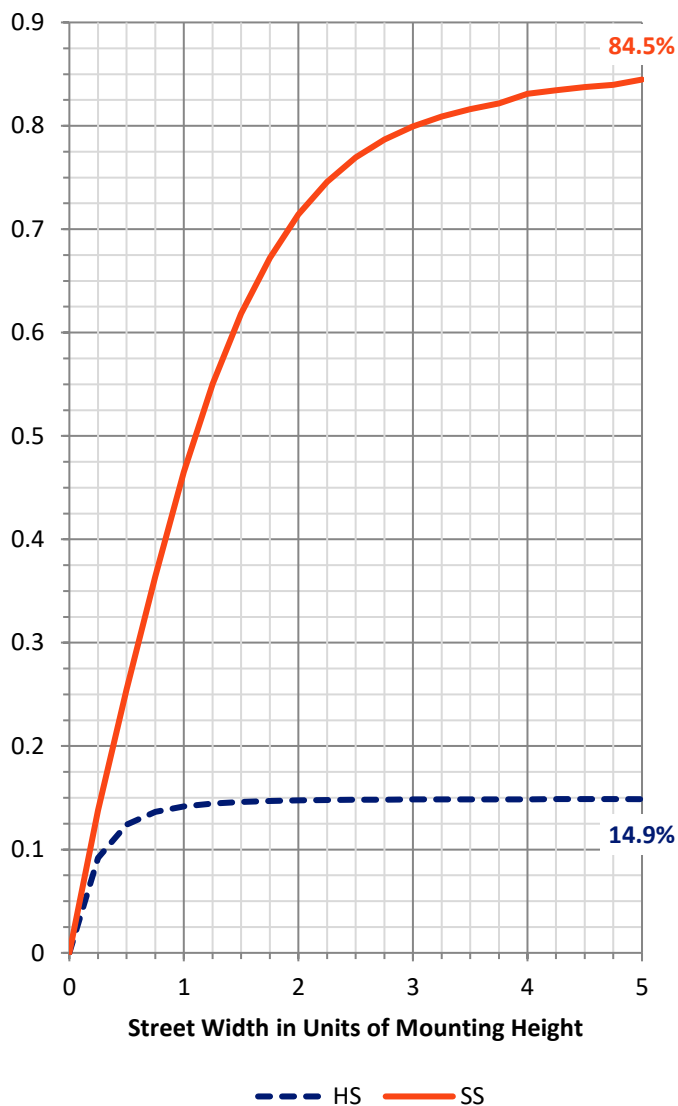
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2956.9	0.0	2956.9
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	16748.1	0.0	16748.1
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	19705.0	0.0	19705.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	501.5	2.5
10°-20°	987.4	5.0
20°-30°	1396.8	7.1
30°-40°	2053.8	10.4
40°-50°	2951.9	15.0
50°-60°	4155.5	21.1
60°-70°	4853.3	24.6
70°-80°	2476.0	12.6
80°-90°	328.9	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°	19705.0	100.0
0°-180°	19705.0	100.0

**Coefficient of Utilization**



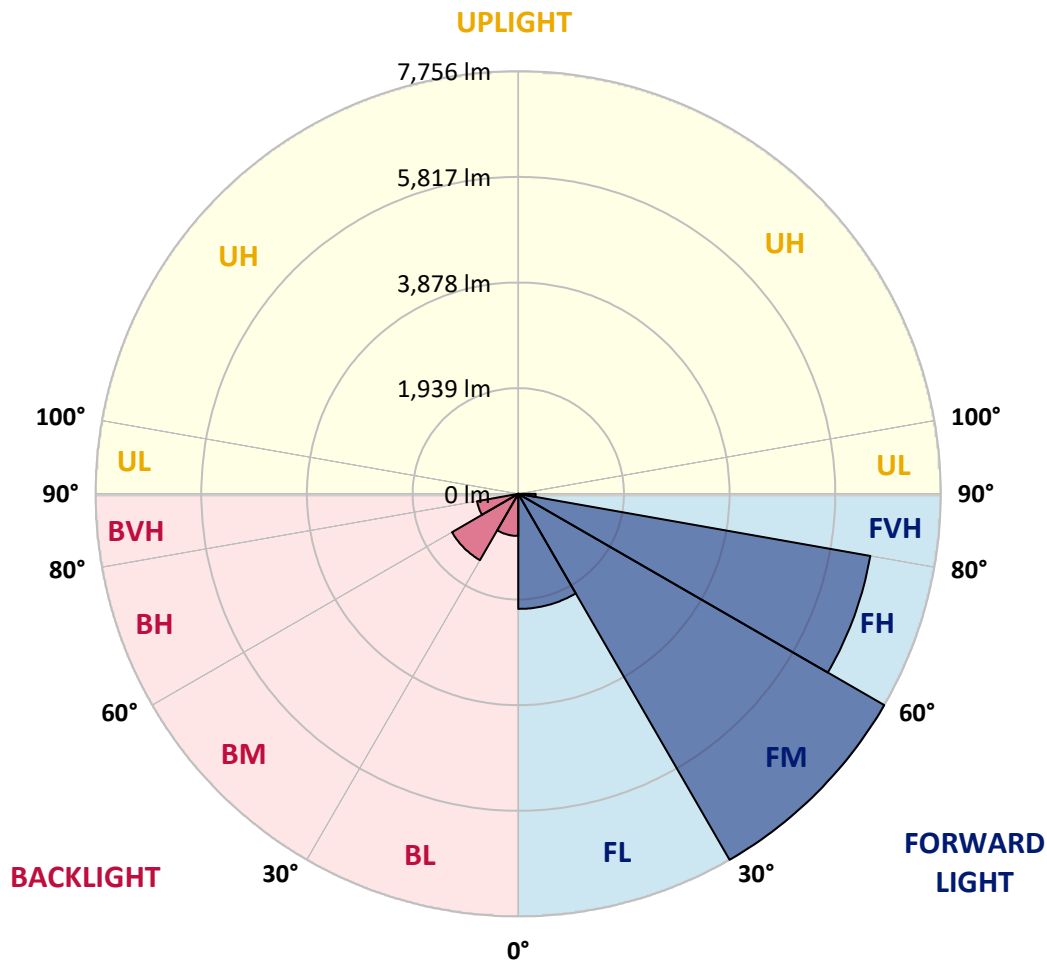
REPORT NUMBER: P383114  
 CATALOG NUMBER: GLEON-SA4C-735-U-SLL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2112.4	10.7			
FM (30°-60°)	7755.5	39.4			
FH (60°-80°)	6561.2	33.3			G3/7500
FVH (80°-90°)	318.9	1.6			G3/500
BL (0°-30°)	773.3	3.9	B2/1000		
BM (30°-60°)	1405.6	7.1	B2/2500		
BH (60°-80°)	768.0	3.9	B2/1000		G2/1000
BVH (80°-90°)	10.0	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-G3**

Type III Medium





REPORT NUMBER: P383114

CATALOG NUMBER: GLEON-SA4C-735-U-SLL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6610.7	6610.7	6610.7	6610.7	6610.7	6610.7	6610.7	6610.7	6610.7	6610.7	6610.7
2.5°	7166.1	7177.3	7235.1	7369.6	7516.2	7527.4	7626.3	7524.6	7490.0	7325.7	7155.9
5°	7220.2	7263.2	7462.0	7856.9	8199.4	8309.6	8388.0	8188.2	7978.2	7576.8	7148.3
7.5°	6784.3	6856.2	7168.9	7910.1	8522.4	8793.1	8844.5	8531.8	8017.4	7356.5	6712.5
10°	6226.1	6308.3	6685.3	7596.4	8437.5	8901.4	8972.3	8562.5	7823.2	6999.9	6241.1
12.5°	5774.3	5870.4	6256.0	7243.6	8145.3	8658.7	8798.7	8458.9	7655.3	6747.0	5919.1
15°	5566.2	5676.3	6081.4	7015.9	7821.4	8225.6	8341.4	8194.7	7561.9	6706.9	5844.3
17.5°	5685.6	5805.1	6223.3	7035.4	7517.1	7689.7	7783.1	7842.9	7561.9	6948.6	6062.8
20°	6175.7	6304.5	6747.0	7234.2	7265.0	7200.7	7300.5	7510.5	7649.6	7407.9	6587.3
22.5°	6853.4	7004.6	7504.0	7575.0	7141.8	6898.2	6911.2	7240.7	7809.3	7990.3	7315.4
25°	7679.5	7864.3	8372.1	8082.8	7193.1	6718.0	6713.4	7018.7	7965.1	8573.8	8126.6
27.5°	8500.0	8703.5	9149.7	8702.5	7405.1	6685.3	6676.0	6951.4	8117.3	9092.7	9012.4
30°	9187.9	9385.8	9770.4	9151.5	7633.8	6761.9	6717.1	7023.3	8207.9	9429.7	9658.4
32.5°	9748.0	9906.7	10217.6	9460.5	7878.3	6910.3	6813.2	7215.6	8361.9	9714.5	10252.1
35°	10364.1	10531.2	10655.3	9754.6	8152.7	7124.1	6985.0	7520.8	8598.9	10003.8	10902.7
37.5°	11067.0	11233.2	11218.3	10023.4	8500.9	7477.9	7389.2	8004.3	8967.6	10290.3	11629.0
40°	11754.9	11924.8	11803.5	10317.4	8909.8	8061.2	7995.9	8730.6	9461.4	10657.2	12480.2
42.5°	12399.0	12582.9	12323.4	10595.6	9397.1	8796.9	8908.9	9665.9	10079.4	11109.0	13213.9
45°	12918.1	13105.7	12759.3	10866.3	9910.5	9689.2	10026.2	10702.0	10822.4	11490.8	13709.6
47.5°	13295.1	13472.5	13061.8	11137.0	10567.6	10780.4	11367.6	11788.5	11493.6	11822.2	14061.5
50°	13535.9	13674.1	13150.5	11475.8	11430.1	12053.7	12764.9	12970.3	12125.5	12120.8	14489.0
52.5°	13689.1	13751.6	13215.8	11829.6	12330.0	13439.8	14133.3	14197.8	12776.2	12449.4	15065.0
55°	14216.4	14266.8	13678.8	12258.0	13073.9	14654.3	15371.1	15311.4	13512.7	13092.6	15744.6
57.5°	15116.3	15169.5	14635.5	12874.2	13676.0	15404.7	16268.2	16375.5	14376.1	13996.1	16472.6
60°	15568.1	15667.0	15476.6	13654.5	14259.4	15884.6	16879.5	17222.2	15455.1	15187.2	17178.3
62.5°	15158.3	15302.1	15578.4	14519.8	14839.1	16148.7	17070.1	17525.6	16560.3	16575.3	17613.3
65°	14340.6	14455.4	14924.0	14994.0	15175.1	16116.1	16599.5	17101.7	17237.1	17850.4	17589.9
67.5°	13353.0	13395.9	13793.6	15031.4	14687.8	15134.0	15186.3	15557.9	16702.3	18302.2	16883.4
70°	11931.4	11954.7	12301.9	13781.5	12622.1	12720.1	12642.7	12718.2	14359.2	17201.7	15099.5
72.5°	9602.4	9661.2	10155.0	11445.1	9195.4	8912.6	9521.2	9487.6	11058.6	14532.9	11214.4
75°	7070.0	7171.7	7917.5	9218.8	6453.9	5837.8	6282.2	6400.7	7861.5	11241.5	7013.1
77.5°	4950.1	5025.7	5748.2	6776.8	4671.0	4174.4	4013.9	4154.8	5189.1	8132.2	3533.1
80°	2851.7	2879.7	3340.8	3913.1	3147.6	3601.3	3262.4	3359.5	3109.3	3618.0	1519.6
82.5°	1866.0	1870.6	2050.8	2329.0	1960.3	2277.6	1685.8	2155.3	1912.7	1453.4	494.7
85°	1008.1	1013.7	1189.2	1653.1	1109.8	627.3	368.7	757.1	1182.7	333.2	135.4
87.5°	111.0	101.7	358.5	601.1	308.1	56.9	19.6	85.0	189.5	21.4	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: P383114

CATALOG NUMBER: GLEON-SA4C-735-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6610.7	6610.7	6610.7	6610.7	6610.7	6610.7	6610.7	6610.7	6610.7	6610.7	6610.7
2.5°	7069.0	6991.5	6798.3	6593.9	6429.6	6275.6	6120.6	5931.2	5784.6	5754.7	5706.2
5°	6917.8	6672.3	6267.2	5860.2	5532.6	5119.0	4856.7	4652.3	4452.5	4440.4	4400.3
7.5°	6389.5	6066.5	5496.1	4933.3	4472.2	4078.2	3680.6	3414.6	3205.5	3131.8	3087.9
10°	5881.7	5518.6	4806.3	4164.1	3752.5	3404.3	3124.2	2846.1	2594.1	2420.4	2342.0
12.5°	5527.0	5125.6	4340.5	3787.0	3492.0	3161.6	2820.0	2472.7	2182.4	1973.3	1845.4
15°	5389.7	4961.3	4184.7	3637.7	3273.6	2855.5	2418.6	2021.8	1699.8	1510.3	1395.6
17.5°	5553.1	5054.7	4172.5	3455.7	2947.0	2427.0	1944.4	1475.8	1172.4	1028.7	954.9
20°	5967.6	5351.5	4167.8	3232.6	2558.6	1919.2	1317.1	970.8	786.9	706.6	672.1
22.5°	6553.7	5730.4	4205.2	3012.3	2154.4	1371.2	909.2	713.2	618.9	576.0	556.3
25°	7308.0	6262.5	4310.6	2812.5	1774.5	1023.0	708.5	597.4	531.2	497.5	483.6
27.5°	8111.7	6874.8	4475.0	2638.9	1465.5	815.8	606.7	511.5	463.9	440.6	427.5
30°	8774.4	7584.3	4641.2	2445.7	1241.5	711.3	555.4	466.7	411.7	396.7	384.5
32.5°	9354.1	8121.0	4758.7	2271.1	1094.9	632.0	502.2	417.2	379.9	351.0	337.9
35°	9954.3	8568.2	4755.0	2148.8	994.1	572.2	457.4	373.4	328.6	294.9	284.7
37.5°	10604.0	9073.2	4673.8	2044.3	950.3	524.6	432.1	350.1	305.3	271.6	258.6
40°	11364.8	9603.3	4590.7	1946.3	938.2	486.4	414.4	331.4	283.7	251.1	238.0
42.5°	12105.9	10081.3	4517.9	1873.4	885.8	485.4	398.6	317.4	267.0	235.2	220.3
45°	12698.7	10526.5	4503.9	1829.6	830.8	502.2	390.2	308.1	253.9	222.2	208.2
47.5°	13191.6	11010.1	4593.6	1798.7	778.5	458.3	410.7	301.5	241.7	211.0	195.1
50°	13777.8	11603.7	4804.5	1748.3	723.4	412.6	470.4	303.4	231.5	199.7	183.0
52.5°	14595.4	12425.2	5114.4	1663.4	647.8	370.6	463.0	305.3	220.3	187.6	170.8
55°	15512.1	13451.0	5447.6	1522.4	542.3	315.5	396.7	292.1	198.8	174.6	158.6
57.5°	16475.4	14381.7	5645.6	1354.5	431.2	272.6	317.4	266.0	175.5	156.8	146.5
60°	16626.6	14735.5	5555.0	1148.1	342.5	237.1	235.2	270.7	156.8	138.1	130.7
62.5°	16250.5	14291.2	5117.2	964.2	286.5	208.2	193.2	236.1	141.9	123.2	115.8
65°	15527.0	13089.8	4407.7	869.0	266.0	178.3	160.6	166.2	124.2	107.3	100.8
67.5°	14520.8	11486.1	3619.0	814.9	263.3	153.1	137.2	126.0	107.3	93.3	87.8
70°	12463.5	9568.8	2887.1	785.0	255.8	128.8	115.8	102.7	89.6	79.4	74.7
72.5°	9173.0	6780.5	2245.9	752.3	257.7	102.7	100.8	85.0	71.9	61.6	59.7
75°	5300.1	3873.8	1473.0	609.5	245.5	79.4	84.0	59.7	50.4	42.9	42.9
77.5°	2824.6	2362.6	561.0	253.9	89.6	50.4	47.6	35.5	31.8	26.2	25.2
80°	1231.2	1039.9	169.0	71.0	49.5	27.1	17.7	15.8	14.0	11.2	10.2
82.5°	436.0	376.2	55.1	34.6	21.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	98.9	71.0	0.0	8.4	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: P383114

CATALOG NUMBER: GLEON-SA4C-735-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6610.7	6610.7	6610.7	6610.7	6610.7	6610.7	6610.7	6610.7	6610.7	6610.7	6610.7
2.5°	5607.3	5586.7	5465.4	5470.0	5491.5	5522.3	5449.5	5483.1	5573.6	5660.5	5693.2
5°	4335.9	4340.5	4266.8	4312.5	4353.6	4381.6	4264.0	4265.8	4337.8	4435.8	4487.1
7.5°	3055.2	3047.7	3051.5	3160.6	3238.2	3182.2	3226.0	3073.8	3083.1	3153.2	3100.9
10°	2271.1	2168.4	2110.5	2192.7	2277.6	2246.8	2171.3	2121.7	2156.3	2233.8	2228.2
12.5°	1784.8	1637.3	1550.5	1491.7	1561.6	1503.8	1501.9	1459.0	1412.3	1420.7	1544.9
15°	1342.3	1235.0	1132.3	1038.0	1036.2	1016.5	916.6	804.7	795.3	800.9	865.3
17.5°	923.2	886.7	844.7	763.6	742.1	659.9	562.8	518.0	495.7	505.9	527.4
20°	648.7	634.8	639.4	595.5	564.7	486.4	429.4	411.7	407.9	418.2	428.4
22.5°	537.7	512.4	509.6	490.1	459.3	402.3	371.5	361.3	356.6	365.9	373.4
25°	470.4	445.3	435.0	422.8	390.2	351.0	332.3	323.0	318.3	323.9	328.6
27.5°	414.4	391.2	381.7	373.4	341.6	313.7	298.7	290.3	286.5	288.4	293.1
30°	372.4	351.9	339.7	329.5	302.5	282.8	269.8	261.4	257.7	257.7	262.3
32.5°	328.6	317.4	306.2	293.1	267.9	254.9	241.7	232.4	228.7	229.6	233.4
35°	273.5	269.8	272.6	260.5	238.9	227.8	214.7	204.4	201.6	202.5	206.3
37.5°	242.7	225.9	236.1	229.6	217.5	202.5	185.8	176.4	171.8	174.6	176.4
40°	223.1	202.5	195.1	201.6	199.7	175.5	160.6	151.2	147.5	148.4	150.3
42.5°	206.3	182.0	165.3	164.3	175.5	153.1	137.2	128.8	124.2	124.2	126.0
45°	190.4	164.3	143.7	127.9	147.5	129.8	114.9	107.3	101.7	101.7	102.7
47.5°	178.3	149.3	125.1	104.5	111.0	106.4	94.3	86.8	81.2	81.2	82.2
50°	167.1	134.4	108.2	87.8	83.1	87.8	76.6	68.1	64.4	63.4	65.3
52.5°	154.9	119.5	92.4	74.7	65.3	66.2	59.7	54.1	49.5	49.5	51.3
55°	142.8	107.3	80.3	63.4	54.1	49.5	47.6	43.9	40.1	40.1	42.0
57.5°	130.7	94.3	68.1	52.3	42.9	39.2	39.2	36.4	33.6	33.6	35.5
60°	119.5	81.2	56.0	42.9	33.6	32.7	33.6	30.8	29.0	29.0	30.8
62.5°	106.4	69.1	45.7	35.5	27.1	26.2	29.0	27.1	25.2	25.2	27.1
65°	90.5	58.8	36.4	27.1	20.5	20.5	24.3	22.4	20.5	20.5	22.4
67.5°	76.6	49.5	28.0	19.6	14.9	15.8	20.5	18.6	17.7	17.7	19.6
70°	63.4	38.3	19.6	12.1	8.4	12.1	15.8	15.8	15.8	15.8	17.7
72.5°	47.6	26.2	11.2	4.7	3.7	8.4	13.0	14.9	14.0	14.0	16.8
75°	30.8	14.9	3.7	0.0	0.0	4.7	10.2	12.1	12.1	11.2	14.0
77.5°	17.7	4.7	0.0	0.0	0.0	0.0	6.5	5.6	4.7	3.7	6.5
80°	4.7	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: P383114

CATALOG NUMBER: GLEON-SA4C-735-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6610.7	6610.7	6610.7	6610.7	6610.7	6610.7	6610.7	6610.7	6610.7	6610.7
2.5°	5824.7	5934.9	6089.8	6254.1	6507.0	6707.8	6904.7	7073.7	7139.0	7166.1
5°	4610.3	4771.8	4998.6	5289.9	5746.3	6157.1	6573.4	6992.5	7174.5	7220.2
7.5°	3308.1	3514.4	3802.9	4167.8	4702.7	5234.8	5816.3	6431.5	6713.4	6784.3
10°	2448.5	2700.5	3030.9	3415.5	3926.1	4473.1	5106.9	5809.8	6131.8	6226.1
12.5°	1737.1	2077.8	2520.3	2987.9	3430.4	3918.6	4559.9	5334.7	5672.6	5774.3
15°	1020.2	1349.8	1873.4	2499.8	3066.4	3561.1	4212.6	5091.0	5463.5	5566.2
17.5°	585.3	749.5	1145.3	1843.5	2612.7	3297.9	4103.5	5151.7	5590.4	5685.6
20°	447.1	499.4	659.9	1187.4	2082.6	3039.4	4103.5	5495.2	6035.7	6175.7
22.5°	391.2	429.4	494.7	708.5	1532.8	2762.0	4151.1	5991.8	6698.5	6853.4
25°	347.3	381.7	437.8	533.0	1045.5	2432.6	4264.0	6601.3	7478.8	7679.5
27.5°	310.9	343.6	394.0	466.7	715.1	2035.0	4416.2	7316.4	8339.5	8500.0
30°	278.2	309.0	354.7	406.1	551.7	1584.1	4546.0	7990.3	9015.2	9187.9
32.5°	247.3	275.4	316.4	354.7	451.8	1171.5	4559.9	8524.3	9576.3	9748.0
35°	218.4	243.6	281.0	310.9	374.3	925.0	4342.4	8987.3	10137.3	10364.1
37.5°	190.4	214.7	247.3	269.8	329.5	754.3	4010.1	9503.5	10857.0	11067.0
40°	164.3	185.8	219.4	234.3	311.8	579.7	3648.9	10044.9	11562.6	11754.9
42.5°	140.0	160.6	193.2	222.2	273.5	433.1	3258.6	10552.7	12197.4	12399.0
45°	116.7	138.1	170.8	235.2	226.8	323.9	2841.4	10889.6	12698.7	12918.1
47.5°	94.3	118.6	163.4	224.0	181.1	238.0	2511.0	11208.8	13078.6	13295.1
50°	75.6	99.9	183.9	199.7	148.4	182.0	2372.8	11494.6	13327.8	13535.9
52.5°	61.6	84.0	173.6	153.1	124.2	150.3	2447.5	11957.5	13558.4	13689.1
55°	51.3	66.2	104.5	106.4	105.5	127.9	2540.0	12622.1	14154.9	14216.4
57.5°	44.8	53.2	72.8	82.2	88.7	113.8	2541.8	13576.1	15078.0	15116.3
60°	38.3	46.7	60.6	66.2	76.6	101.7	2449.4	13909.3	15441.1	15568.1
62.5°	33.6	41.1	50.4	55.1	64.4	91.5	2232.8	13426.8	14942.7	15158.3
65°	29.9	37.4	42.0	46.7	56.9	82.2	1876.2	12461.6	14115.6	14340.6
67.5°	26.2	32.7	37.4	42.0	51.3	72.8	1381.5	11340.5	13166.3	13353.0
70°	23.4	29.0	33.6	37.4	44.8	61.6	838.2	9623.0	11853.9	11931.4
72.5°	22.4	26.2	30.8	33.6	39.2	54.1	424.7	7071.8	9476.4	9602.4
75°	19.6	23.4	28.0	29.9	34.6	46.7	172.7	4644.9	6867.4	7070.0
77.5°	15.8	21.4	25.2	27.1	29.9	38.3	87.8	2968.4	4819.4	4950.1
80°	5.6	15.8	21.4	22.4	25.2	28.0	57.8	1625.2	2795.7	2851.7
82.5°	0.0	10.2	16.8	15.8	17.7	21.4	37.4	772.9	1845.4	1866.0
85°	0.0	4.7	13.0	10.2	7.5	14.9	13.0	169.0	968.0	1008.1
87.5°	0.0	0.0	0.9	4.7	3.7	5.6	1.9	0.9	87.8	111.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)