

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: P383458

Luminaire Tested: **GLEON-SA7C-735-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383458  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA7C-735-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33961.4 lumens  
Efficiency: N/A  
Efficacy: 86.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 391  
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

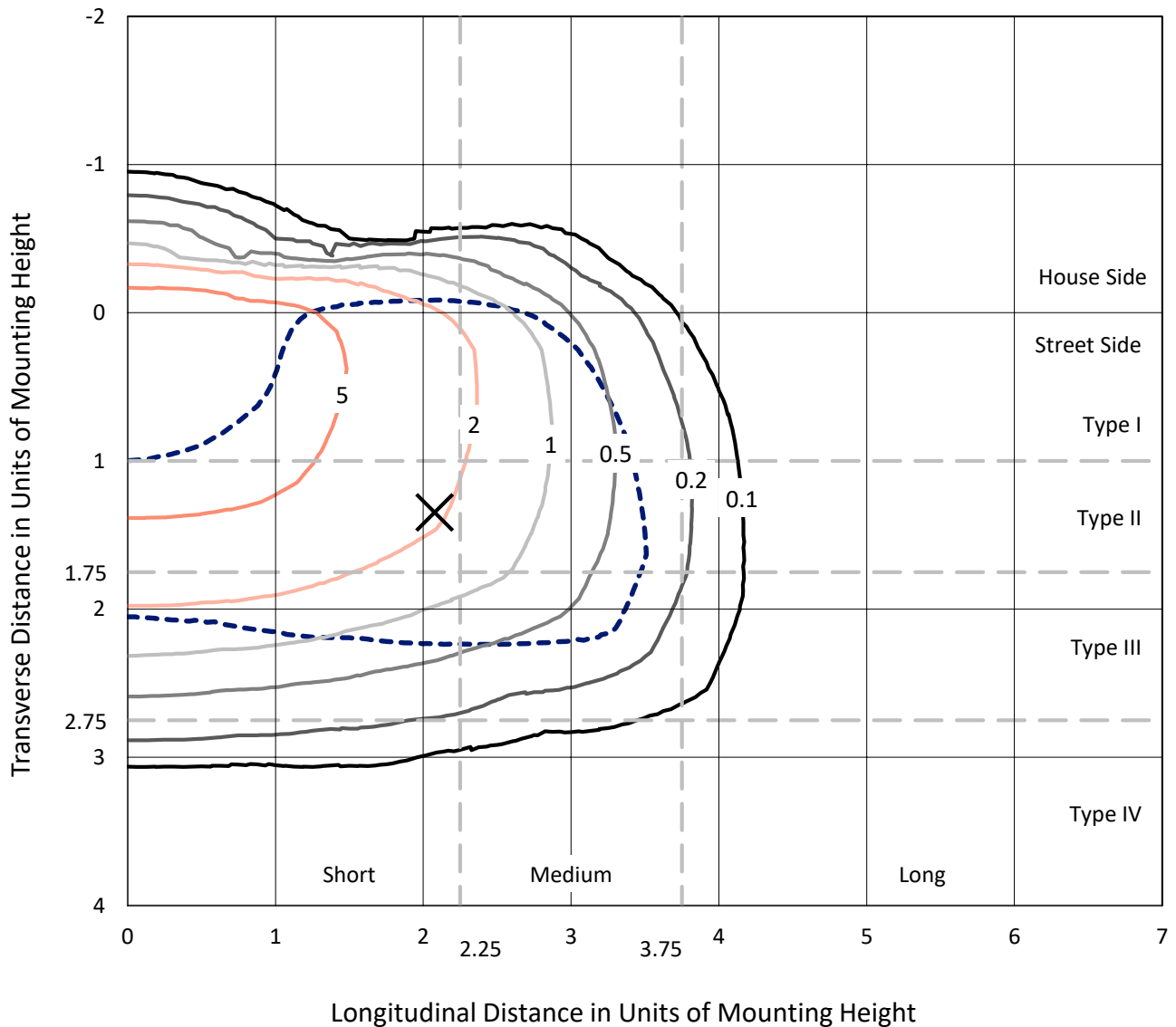




REPORT NUMBER: P383458  
 CATALOG NUMBER: GLEON-SA7C-735-U-T3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

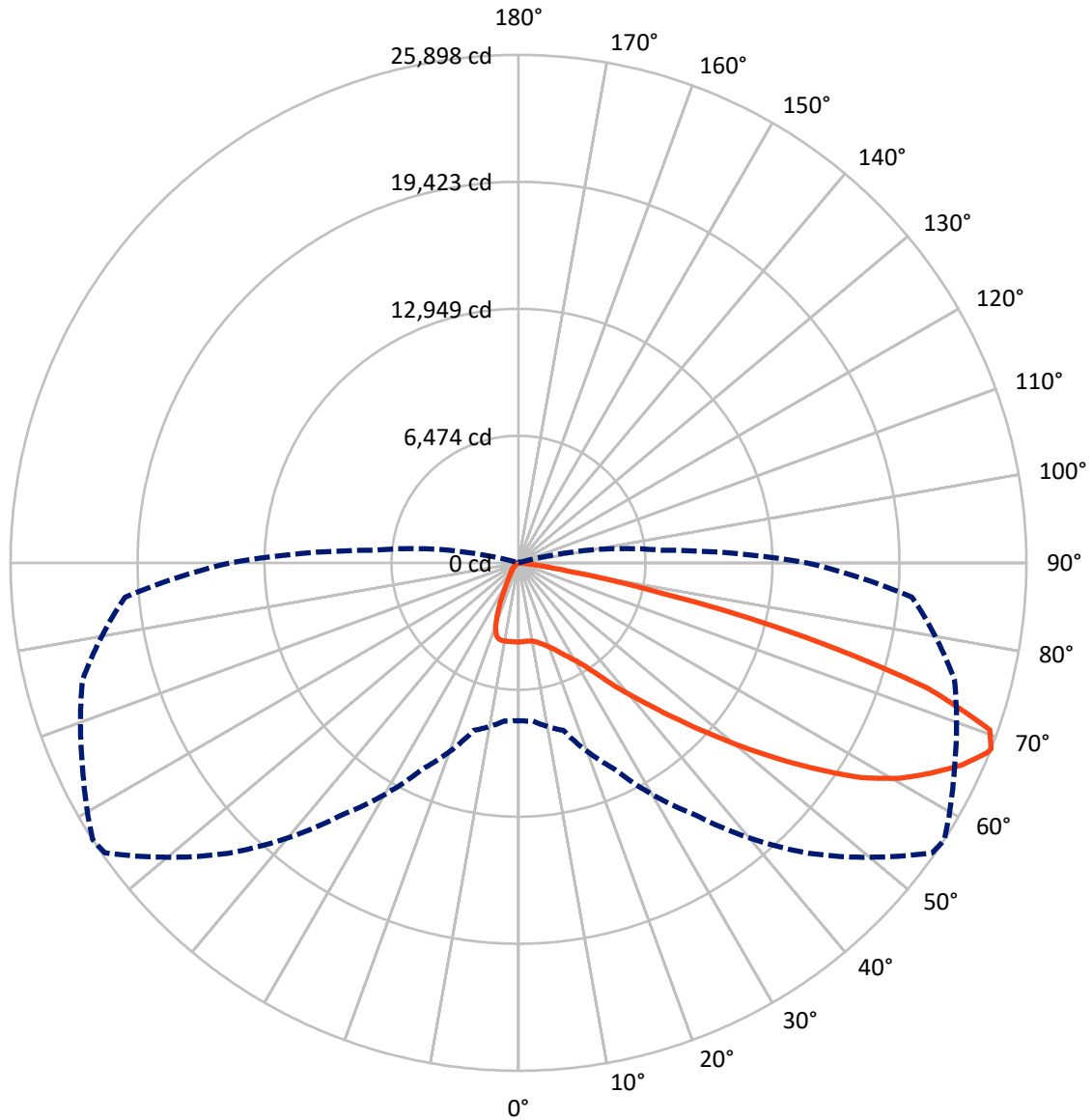
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type III - Short - N/A

REPORT NUMBER: P383458  
CATALOG NUMBER: GLEON-SA7C-735-U-T3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

REPORT NUMBER: P383458  
 CATALOG NUMBER: GLEON-SA7C-735-U-T3-HSS

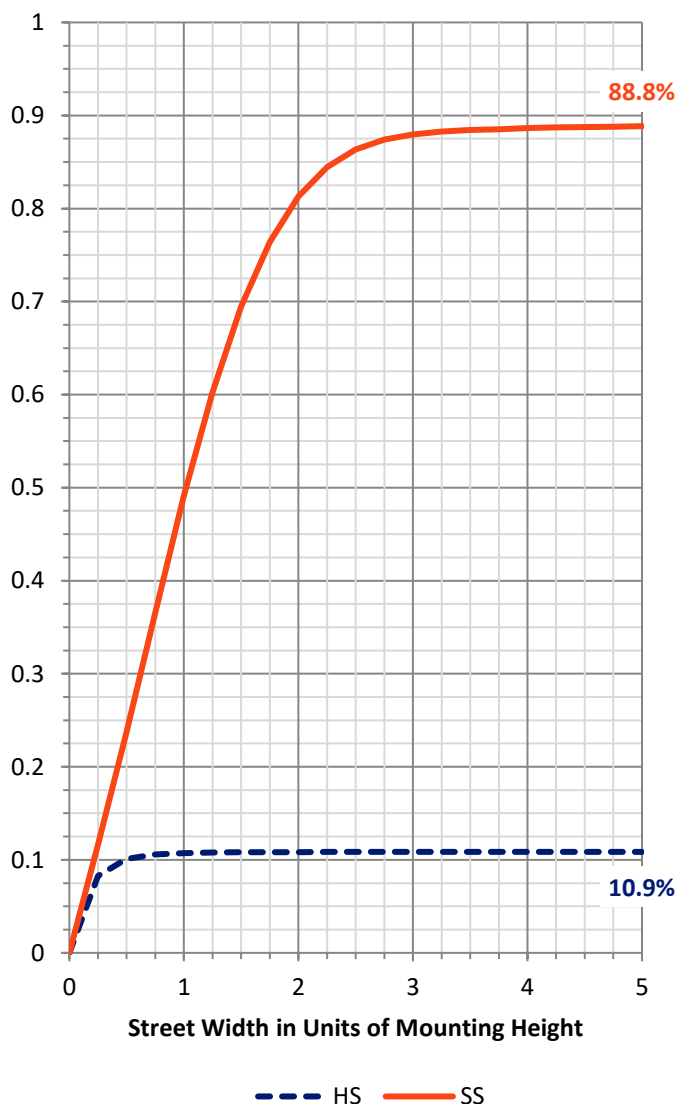
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3724.1	0.0	3724.1
	% Fixture	11.0	0.0	11.0
<b>Street Side</b>	Lumens	30237.4	0.0	30237.4
	% Fixture	89.0	0.0	89.0
<b>Total</b>	Lumens	33961.4	0.0	33961.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	377.7	1.1
10°-20°	1046.5	3.1
20°-30°	1805.4	5.3
30°-40°	3116.0	9.2
40°-50°	5330.0	15.7
50°-60°	8527.4	25.1
60°-70°	9852.5	29.0
70°-80°	3764.8	11.1
80°-90°	141.1	0.4
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°	33961.4	100.0
0°-180°	33961.4	100.0

**Coefficient of Utilization**

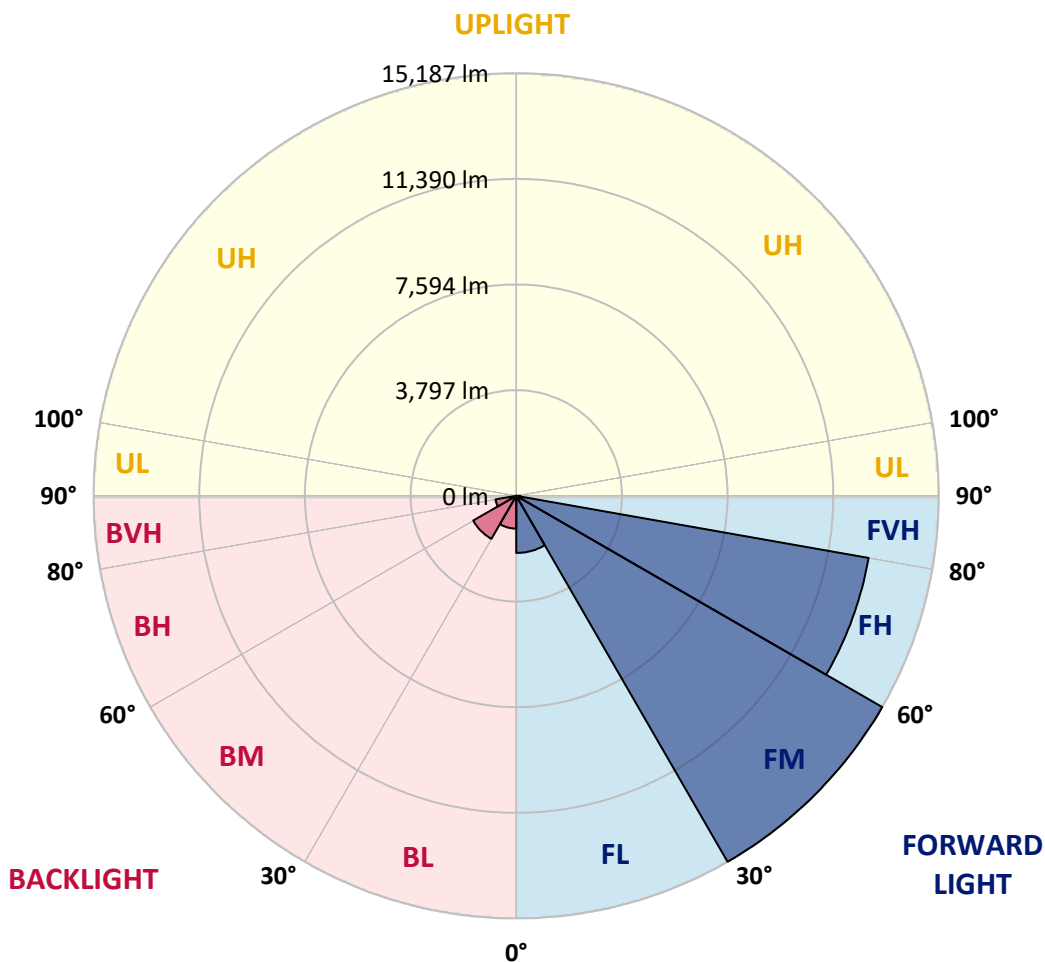


REPORT NUMBER: P383458  
 CATALOG NUMBER: GLEON-SA7C-735-U-T3-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2052.6	6.0			
FM (30°-60°)	15187.3	44.7			
FH (60°-80°)	12858.9	37.9			G5
FVH (80°-90°)	138.6	0.4			G2/225
BL (0°-30°)	1176.9	3.5	B3/2500		
BM (30°-60°)	1786.1	5.3	B2/2500		
BH (60°-80°)	758.4	2.2	B2/1000		G2/1000
BVH (80°-90°)	2.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Short





REPORT NUMBER: P383458

CATALOG NUMBER: GLEON-SA7C-735-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4035.6	4035.6	4035.6	4035.6	4035.6	4035.6	4035.6	4035.6	4035.6	4035.6	4035.6
2.5°	3940.7	3958.4	3971.3	3979.3	3989.0	4009.8	4016.3	4025.9	4030.7	4030.7	4041.9
5°	3785.0	3804.3	3831.5	3854.1	3899.0	3956.8	3998.6	4014.6	4043.6	4069.3	4083.7
7.5°	3640.5	3662.9	3695.1	3748.1	3825.1	3918.3	4005.0	4027.5	4083.7	4138.3	4165.6
10°	3547.3	3565.0	3606.8	3682.2	3783.4	3913.4	4035.6	4062.9	4159.2	4250.7	4302.1
12.5°	3515.2	3531.3	3574.6	3659.8	3785.0	3937.6	4106.2	4146.3	4287.6	4420.9	4493.2
15°	3561.8	3565.0	3611.6	3691.8	3815.5	3997.0	4223.4	4271.6	4449.8	4623.3	4713.2
17.5°	3741.7	3727.2	3751.2	3786.6	3884.6	4075.6	4347.1	4419.4	4657.0	4860.9	4946.1
20°	4191.3	4191.3	4136.7	4040.3	4041.9	4197.7	4514.1	4596.0	4886.6	5122.7	5199.7
22.5°	4960.5	4946.1	4836.9	4600.8	4384.0	4408.1	4718.0	4824.0	5162.8	5414.9	5440.6
25°	5885.4	5867.8	5699.2	5366.7	4991.0	4748.5	4994.2	5116.2	5492.0	5715.2	5662.2
27.5°	6865.0	6850.6	6683.6	6270.9	5736.1	5291.3	5323.4	5439.0	5827.7	6047.6	5879.0
30°	7814.1	7818.9	7653.5	7229.6	6624.1	5983.4	5740.9	5808.4	6153.6	6376.8	6136.0
32.5°	8716.6	8723.0	8580.1	8106.3	7541.1	6787.9	6319.1	6301.4	6532.7	6752.6	6476.4
35°	9521.1	9537.2	9439.2	9071.5	8472.5	7684.1	7069.0	7027.2	7070.5	7319.4	6998.3
37.5°	10296.8	10306.4	10232.5	9922.6	9421.6	8668.4	8016.4	7957.0	7863.8	8055.0	7687.2
40°	11146.2	11122.1	11037.1	10756.0	10325.6	9755.5	9034.5	8931.8	8769.6	8939.8	8593.0
42.5°	11936.3	11909.0	11923.4	11605.5	11242.6	10873.2	10221.3	10044.6	9949.9	10145.8	9704.2
45°	12923.9	12909.5	12957.6	12681.4	12387.5	12119.3	11581.5	11388.7	11347.0	11576.6	11048.2
47.5°	13898.7	13934.0	14083.3	13966.1	13847.3	13611.2	13021.9	12935.2	12960.9	13238.7	12466.2
50°	14711.3	14753.0	15162.5	15297.4	15469.2	15331.1	14740.2	14687.2	14788.3	15038.8	13991.8
52.5°	15299.0	15384.1	15893.1	16514.6	17140.9	17234.0	16644.7	16596.5	16733.0	16771.6	15170.5
55°	15706.8	15782.4	16358.8	17495.8	18770.9	19172.3	18806.2	18619.9	18594.2	18213.6	16410.2
57.5°	15779.1	15771.1	16599.7	18130.1	20049.1	21084.8	20853.6	20670.6	20143.9	19546.5	17831.4
60°	15371.3	15417.9	16379.7	18350.1	20852.0	22531.7	22549.4	22311.8	21491.2	20842.4	19209.3
62.5°	14115.5	14304.9	15276.5	17773.6	20842.4	23114.7	23792.4	23610.9	22629.7	21903.9	20606.3
65°	12079.3	12146.7	13073.2	15798.4	19434.0	22870.6	24911.6	24844.2	23655.8	22934.8	21324.1
67.5°	8820.9	8674.9	9647.9	12440.5	16453.6	21447.8	25714.5	25799.7	24447.5	23146.8	20559.7
68°	8050.2	8093.5	8851.5	11610.3	15673.1	20945.2	25767.5	25897.6	24526.3	23008.7	20142.2
70°	4798.3	4881.8	5557.9	7994.0	11923.4	18101.2	25195.8	25492.9	24057.3	21584.3	17421.9
72.5°	1225.3	1324.8	1964.0	3577.9	6810.5	12753.7	21269.6	21772.2	20887.3	17510.2	11761.3
75°	504.2	530.0	701.7	1178.7	2537.3	5745.8	14019.1	15095.1	14480.0	10483.0	5315.4
77.5°	348.5	366.1	451.2	653.6	1098.4	1947.9	6873.1	7650.3	6892.3	3577.9	1159.4
80°	250.5	264.9	322.8	435.2	631.1	695.3	2240.2	2590.3	2057.1	785.3	287.5
82.5°	149.3	160.6	240.9	309.9	383.8	332.4	557.3	632.7	595.8	390.2	128.5
85°	73.9	86.7	162.2	221.6	207.2	139.7	170.2	189.5	234.5	237.6	69.0
87.5°	4.8	9.6	94.7	133.3	57.8	32.1	49.7	61.0	83.5	117.2	28.9
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: P383458

CATALOG NUMBER: GLEON-SA7C-735-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4035.6	4035.6	4035.6	4035.6	4035.6	4035.6	4035.6	4035.6	4035.6	4035.6	4035.6
2.5°	4046.7	4048.3	4037.1	4032.3	4035.6	4016.3	4008.2	4011.4	4011.4	4016.3	4008.2
5°	4086.9	4086.9	4067.6	4041.9	4027.5	3990.6	3966.4	3960.0	3955.3	3952.0	3945.6
7.5°	4173.6	4164.0	4130.3	4074.0	4025.9	3945.6	3884.6	3852.4	3836.4	3830.0	3825.1
10°	4313.3	4295.6	4239.5	4135.0	4024.3	3881.4	3748.1	3653.3	3574.6	3542.5	3523.2
12.5°	4501.2	4475.5	4380.8	4207.3	4013.0	3749.7	3460.6	3182.8	2924.2	2818.3	2765.3
15°	4718.0	4681.0	4531.7	4268.4	3947.2	3452.6	2824.7	2338.1	1980.0	1845.1	1787.4
17.5°	4938.0	4889.8	4663.4	4306.9	3749.7	2837.6	1981.6	1496.6	1257.4	1193.1	1170.7
20°	5159.7	5089.0	4777.4	4278.0	3303.3	2045.9	1307.1	1093.5	1024.5	1005.2	998.8
22.5°	5370.0	5260.8	4880.2	4165.6	2616.0	1373.0	1034.2	966.8	944.2	933.0	929.8
25°	5553.0	5400.5	4970.1	3818.7	1851.5	1037.4	931.4	908.9	880.0	859.2	860.7
27.5°	5724.9	5540.2	5024.7	3247.0	1234.9	886.5	862.3	831.9	778.9	748.3	748.3
30°	5932.0	5726.5	5064.8	2498.7	908.9	783.6	764.4	717.9	645.6	605.4	605.4
32.5°	6243.6	6009.1	5039.2	1753.6	753.2	688.9	644.0	579.7	501.0	462.5	460.8
35°	6720.5	6445.9	4856.1	1149.8	664.8	599.0	526.7	448.1	379.0	346.9	345.2
37.5°	7362.9	7030.4	4445.0	822.2	595.8	515.5	428.8	342.1	290.6	269.8	268.2
40°	8196.3	7709.7	3857.3	666.4	531.5	435.2	330.8	264.9	229.6	213.6	215.2
42.5°	9196.7	8437.1	3152.3	574.9	468.9	358.1	258.5	208.8	186.3	175.0	171.9
45°	10307.9	9155.0	2413.6	512.3	406.2	289.1	202.3	165.4	147.7	141.3	141.3
47.5°	11530.0	9853.5	1766.4	457.7	338.8	223.2	162.2	134.9	120.4	115.6	114.0
50°	12639.7	10338.5	1273.4	399.8	277.8	176.6	131.7	112.4	102.7	96.3	96.3
52.5°	13564.6	10491.1	937.8	337.2	224.8	141.3	109.2	96.3	86.7	81.9	81.9
55°	14378.8	10428.4	697.0	277.8	181.5	115.6	93.2	81.9	73.9	69.0	69.0
57.5°	15159.3	10226.1	520.3	226.5	146.2	93.2	78.7	69.0	61.0	57.8	57.8
60°	15796.8	9888.8	387.0	183.0	117.2	75.5	65.9	56.2	49.7	45.0	45.0
62.5°	16313.9	9516.3	284.2	150.9	93.2	59.4	51.4	46.6	36.9	32.1	32.1
65°	16317.1	8898.0	213.6	125.3	72.3	46.6	38.6	36.9	24.1	19.3	17.7
67.5°	15136.8	7671.2	163.8	107.6	56.2	35.3	28.9	30.6	12.9	8.0	6.4
68°	14708.0	7359.6	154.2	106.0	53.0	33.7	27.3	30.6	11.3	6.4	4.8
70°	12400.4	5855.0	123.6	102.7	46.6	25.7	22.5	30.6	9.6	4.8	3.2
72.5°	7931.3	3398.0	91.6	81.9	35.3	19.3	14.4	27.3	9.6	3.2	1.6
75°	3375.5	1053.5	62.6	57.8	20.9	14.4	9.6	17.7	6.4	1.6	0.0
77.5°	711.4	237.6	36.9	35.3	14.4	9.6	6.4	4.8	1.6	0.0	0.0
80°	183.0	69.0	19.3	17.7	8.0	4.8	3.2	0.0	0.0	0.0	0.0
82.5°	57.8	27.3	11.3	8.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.9	16.0	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.0	4.8	1.6	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

(END OF REPORT)