

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: P383286

Luminaire Tested: **GLEON-SA6A-735-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383286
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6A-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18471.7 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

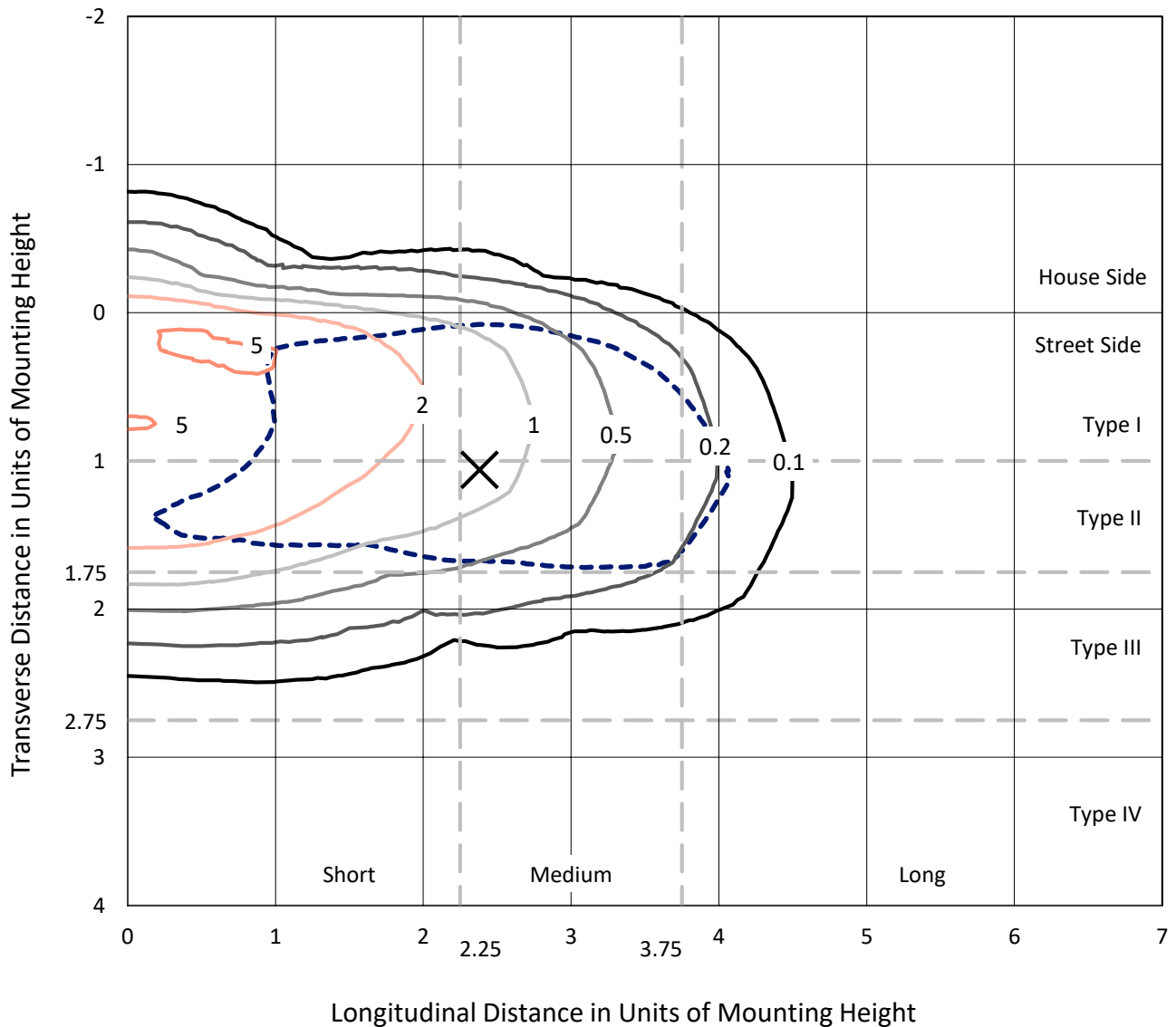
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383286
 CATALOG NUMBER: GLEON-SA6A-735-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

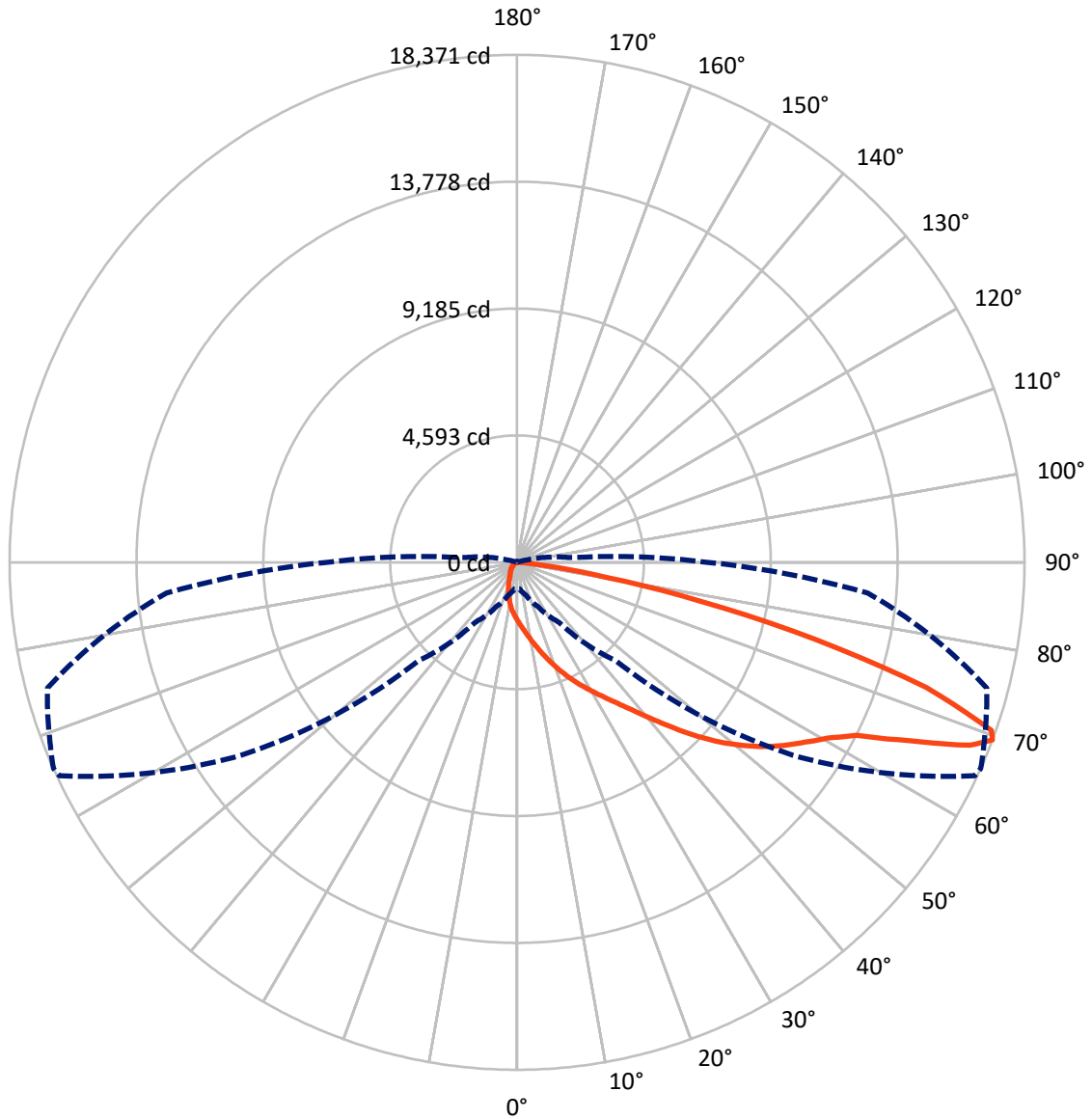
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Medium - N/A

REPORT NUMBER: P383286
CATALOG NUMBER: GLEON-SA6A-735-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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 CATALOG NUMBER: GLEON-SA6A-735-U-T2-HSS

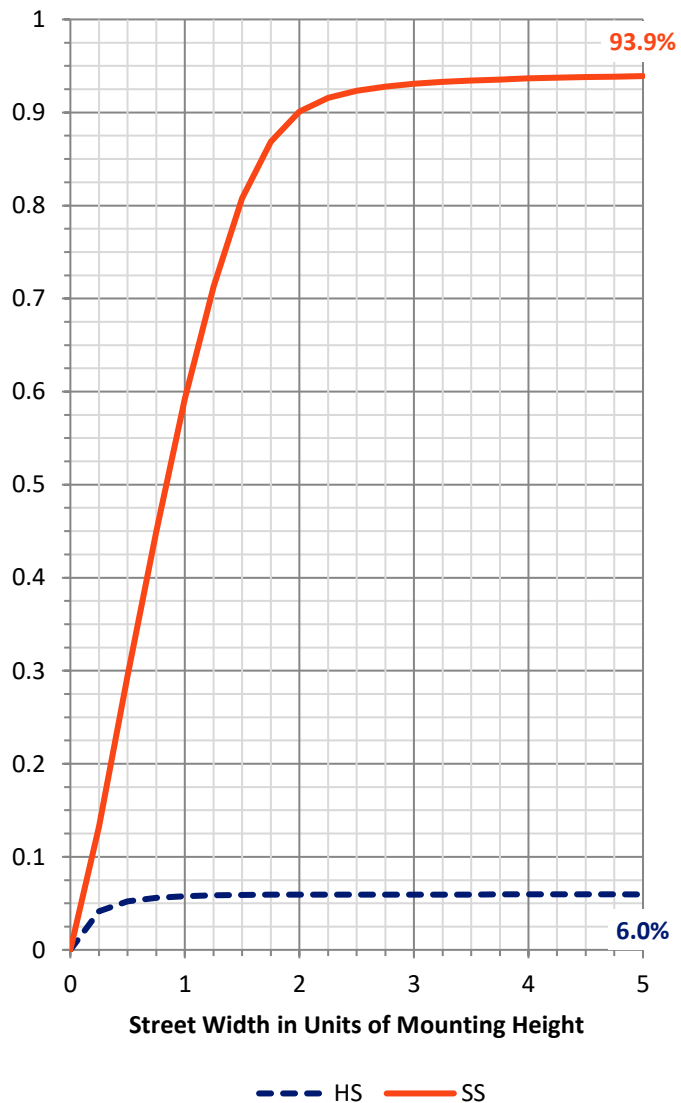
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1108.0	0.0	1108.0
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	17363.6	0.0	17363.6
	% Fixture	94.0	0.0	94.0
Total	Lumens	18471.7	0.0	18471.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.2	1.1
10°-20°	604.8	3.3
20°-30°	1053.1	5.7
30°-40°	1847.7	10.0
40°-50°	3092.7	16.7
50°-60°	4546.0	24.6
60°-70°	4667.6	25.3
70°-80°	2304.3	12.5
80°-90°	152.4	0.8
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°	18471.7	100.0
0°-180°	18471.7	100.0

Coefficient of Utilization

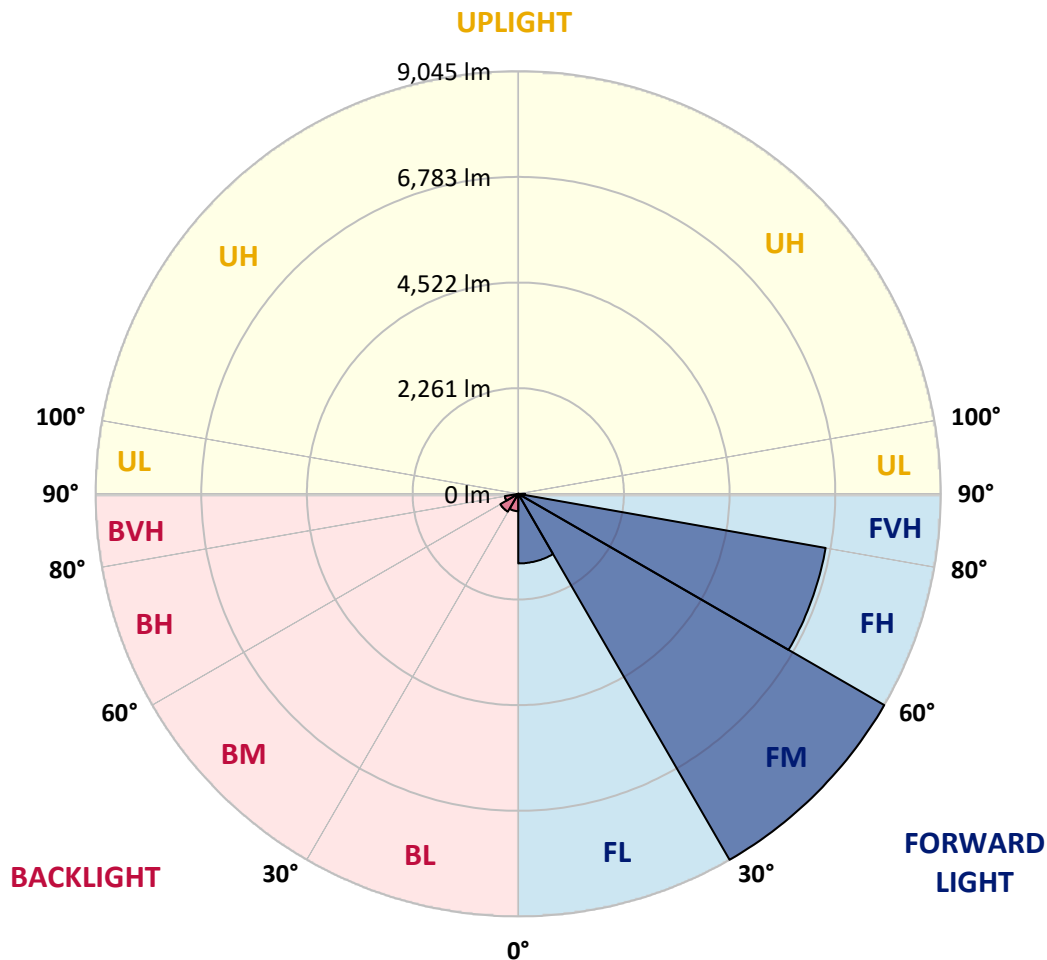


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 CATALOG NUMBER: GLEON-SA6A-735-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1490.5	8.1			
FM (30°-60°)	9044.6	49.0			
FH (60°-80°)	6679.9	36.2			G3/7500
FVH (80°-90°)	148.7	0.8			G2/225
BL (0°-30°)	370.6	2.0	B1/500		
BM (30°-60°)	441.8	2.4	B1/1000		
BH (60°-80°)	292.0	1.6	B1/500		G1/500
BVH (80°-90°)	3.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type II Medium





REPORT NUMBER: P383286

CATALOG NUMBER: GLEON-SA6A-735-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1
2.5°	2474.1	2463.6	2459.2	2439.9	2406.6	2381.1	2332.0	2274.9	2264.4	2209.2	2141.6
5°	2795.2	2786.4	2780.3	2753.1	2718.9	2654.9	2565.4	2459.2	2439.1	2333.7	2198.6
7.5°	3019.0	3034.8	3034.8	3017.2	2974.2	2926.0	2816.3	2671.5	2646.1	2484.6	2274.9
10°	3149.7	3169.0	3183.9	3198.8	3192.7	3173.4	3069.8	2906.7	2876.0	2661.9	2363.6
12.5°	3162.0	3181.2	3223.4	3285.7	3346.2	3390.1	3325.2	3167.3	3132.1	2867.2	2468.9
15°	3093.6	3113.7	3178.6	3299.7	3446.3	3574.3	3595.4	3455.9	3419.9	3111.9	2600.5
17.5°	2974.2	2987.4	3080.3	3247.9	3477.8	3713.0	3840.2	3765.6	3732.2	3391.9	2746.9
20°	2885.7	2895.2	2976.9	3156.7	3458.6	3799.8	4071.8	4094.6	4059.5	3691.9	2905.8
22.5°	3037.4	3054.9	3057.5	3142.7	3405.9	3842.8	4275.3	4418.3	4392.1	4010.4	3062.0
25°	3452.4	3472.5	3405.9	3353.2	3450.6	3862.1	4449.9	4750.0	4728.9	4353.4	3219.0
27.5°	4000.7	4021.8	3935.8	3778.7	3684.8	3935.0	4605.2	5086.9	5086.0	4716.6	3388.3
30°	4539.4	4560.5	4472.7	4315.7	4099.8	4141.1	4739.4	5439.6	5444.8	5091.3	3568.2
32.5°	5104.4	5130.8	5040.4	4838.6	4613.1	4497.3	4928.1	5794.0	5823.8	5525.6	3770.8
35°	5746.6	5750.2	5622.9	5411.5	5151.8	4973.7	5230.7	6191.4	6262.5	6063.4	4027.9
37.5°	6376.6	6402.1	6297.6	5964.2	5725.6	5523.8	5680.9	6688.0	6788.9	6720.6	4363.9
40°	6843.3	6896.9	6881.9	6522.2	6295.9	6152.0	6239.7	7278.5	7406.6	7485.5	4787.7
42.5°	7136.4	7176.7	7245.2	7028.4	6823.1	6846.9	6899.5	7966.3	8124.3	8357.7	5274.6
45°	7472.4	7491.7	7548.7	7453.1	7314.5	7553.1	7599.7	8741.1	8906.9	9295.5	5815.1
47.5°	7883.0	7928.6	7944.4	7856.7	7793.5	8177.8	8274.3	9445.5	9678.0	10300.1	6387.2
50°	8405.9	8418.2	8445.4	8388.4	8325.1	8714.7	8879.7	10185.2	10396.6	11308.1	6951.3
52.5°	8917.4	8961.3	9056.0	9020.1	8994.7	9171.8	9419.3	10852.0	11087.9	12148.7	7514.5
55°	9064.8	9102.5	9429.8	9653.5	9860.5	9735.0	9935.1	11449.5	11704.7	12899.7	8056.7
57.5°	8476.1	8552.4	9119.2	9701.8	10560.7	10610.7	10644.0	12062.7	12291.7	13475.2	8620.8
60°	6988.1	7003.0	7933.0	8932.3	10444.9	11374.8	11679.3	12721.6	12913.8	14011.3	9296.4
62.5°	4444.7	4596.4	5616.8	7027.6	9220.1	11264.3	12931.3	13718.2	13788.5	14654.4	10265.0
65°	2117.0	2215.3	2950.5	4342.0	6678.4	9849.2	13795.5	15521.3	15552.8	15929.2	11559.1
67.5°	1172.2	1219.5	1569.6	2337.3	3904.2	6965.3	13446.3	17656.7	17686.5	17231.2	12694.4
69°	916.8	957.2	1232.7	1761.7	2647.0	5006.1	12168.0	18282.3	18370.9	17604.0	12734.7
70°	778.2	817.7	1061.6	1488.0	2128.5	3868.3	10830.9	18127.0	18220.8	17569.0	12433.8
72.5°	476.4	499.2	707.1	1047.5	1426.6	1946.0	6679.3	15329.9	15488.7	16116.1	10686.2
75°	321.1	333.4	442.2	723.0	1020.3	1002.0	3469.9	10805.5	11149.4	12536.5	7892.6
77.5°	229.9	241.3	296.5	467.6	715.1	661.5	1571.3	6715.2	6788.9	7518.9	4304.3
80°	130.7	141.2	209.7	278.2	485.1	441.3	624.7	3207.6	3244.5	3224.3	1437.1
82.5°	68.5	77.2	115.0	183.3	311.4	288.7	259.7	1073.9	1079.1	897.5	315.0
85°	13.1	15.8	57.0	125.5	160.6	125.5	106.2	251.8	257.1	227.2	78.1
87.5°	0.0	0.8	22.8	28.0	31.6	32.4	34.2	49.1	52.6	71.1	21.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: GLEON-SA6A-735-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1
2.5°	2111.8	2080.2	2019.7	1949.4	1895.0	1841.6	1799.5	1755.6	1739.8	1731.9	1731.0
5°	2132.9	2066.2	1938.1	1806.5	1698.6	1596.8	1523.9	1454.6	1422.2	1407.3	1401.1
7.5°	2167.9	2060.9	1854.7	1653.8	1498.5	1371.3	1270.4	1195.0	1157.3	1141.4	1135.3
10°	2209.2	2053.9	1757.4	1492.3	1294.1	1162.5	1062.4	987.9	946.6	929.1	920.4
12.5°	2257.4	2041.6	1645.0	1329.2	1119.5	987.9	866.8	774.7	727.4	707.1	697.4
15°	2317.1	2029.3	1527.5	1175.6	965.9	805.4	672.9	610.6	600.9	597.5	598.3
17.5°	2375.9	2010.0	1399.4	1023.9	804.6	629.1	561.5	558.0	559.8	559.8	559.8
20°	2428.5	1966.1	1259.9	894.0	651.0	530.8	516.7	510.6	506.2	502.8	498.4
22.5°	2469.7	1907.3	1125.7	765.1	531.6	486.1	464.1	444.8	429.1	418.5	413.2
25°	2497.9	1829.3	1002.8	641.4	478.2	442.2	402.7	370.2	345.7	330.8	324.6
27.5°	2518.9	1745.1	893.2	536.9	441.3	391.3	339.5	300.9	275.5	262.3	257.1
30°	2533.8	1649.4	796.7	472.0	400.1	337.8	282.5	244.8	226.4	219.4	215.8
32.5°	2547.8	1543.3	705.4	441.3	361.4	288.7	236.9	207.9	196.6	187.7	185.1
35°	2582.9	1445.0	618.5	408.9	321.9	246.6	203.5	182.5	171.1	165.8	164.0
37.5°	2666.3	1372.2	535.2	375.5	282.5	213.2	178.1	163.2	152.7	147.4	145.6
40°	2800.5	1335.4	465.0	339.5	243.9	187.7	161.4	147.4	136.0	128.1	126.3
42.5°	2997.9	1340.6	415.8	303.6	213.2	167.6	145.6	128.9	116.7	109.6	107.9
45°	3237.4	1379.2	381.7	268.5	187.7	151.7	128.1	110.6	99.1	93.0	91.2
47.5°	3497.1	1441.5	353.6	236.9	167.6	136.8	110.6	92.1	82.4	77.2	76.3
50°	3770.8	1502.0	324.6	206.2	150.1	121.9	93.0	76.3	68.5	64.1	62.3
52.5°	4048.1	1572.2	298.3	178.1	135.1	104.4	77.2	62.3	56.2	52.6	50.9
55°	4346.4	1624.9	272.9	156.1	120.2	88.6	64.1	51.8	46.5	42.1	41.3
57.5°	4697.3	1706.4	246.6	135.1	102.7	73.7	52.6	41.3	36.9	32.4	31.6
60°	5171.1	1802.1	218.4	119.3	84.2	60.6	42.9	33.3	28.0	24.6	23.7
62.5°	5795.8	1908.3	183.3	104.4	68.5	49.1	34.2	26.4	20.2	15.8	15.8
65°	6588.0	2081.1	150.1	87.8	56.2	40.3	26.4	19.3	11.4	7.0	7.0
67.5°	7050.4	2110.9	121.1	71.9	45.6	34.2	21.9	13.1	3.5	0.8	0.0
69°	6902.1	1938.1	102.7	61.4	39.5	32.4	20.2	9.7	1.8	0.0	0.0
70°	6623.1	1772.3	90.4	54.4	36.0	30.7	19.3	7.0	1.8	0.0	0.0
72.5°	5472.9	1261.6	68.5	40.3	26.4	27.2	17.5	4.4	1.8	0.0	0.0
75°	3986.7	766.8	49.1	28.0	16.7	20.2	12.3	1.8	0.8	0.0	0.0
77.5°	2217.9	361.4	30.7	15.8	10.5	12.3	6.1	0.0	0.0	0.0	0.0
80°	720.3	98.3	14.1	8.8	6.1	7.0	2.6	0.0	0.0	0.0	0.0
82.5°	133.4	28.0	7.9	4.4	1.8	1.8	0.0	0.0	0.0	0.0	0.0
85°	29.0	11.4	4.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.7	3.5	0.8	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)