

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: P324610

Luminaire Tested: **GLEON-SA6C-827-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324610
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6C-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23053 lumens
Efficiency: N/A
Efficacy: 69.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 333
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

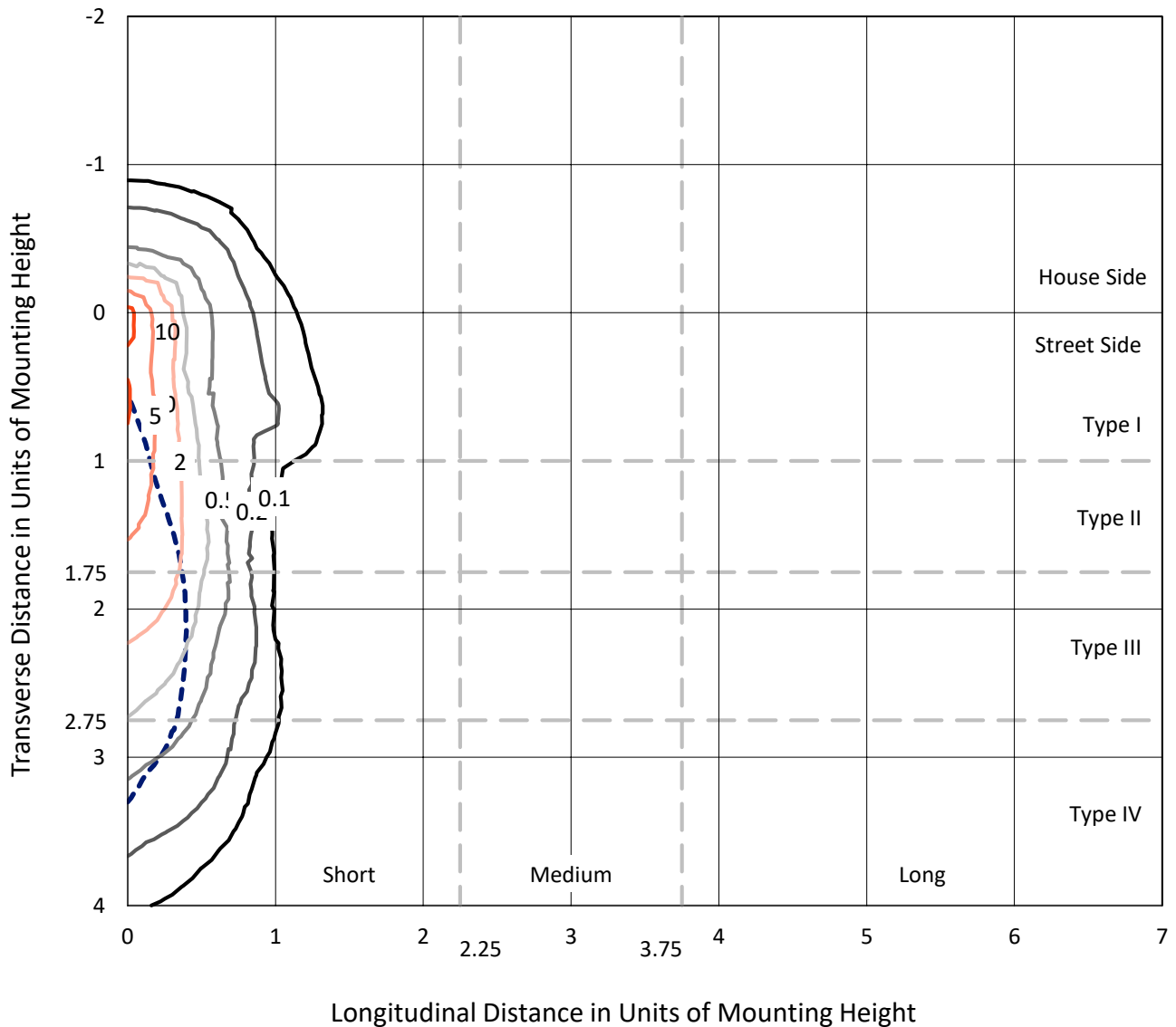




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Iso-Footcandle Lines of Horizontal Illumination

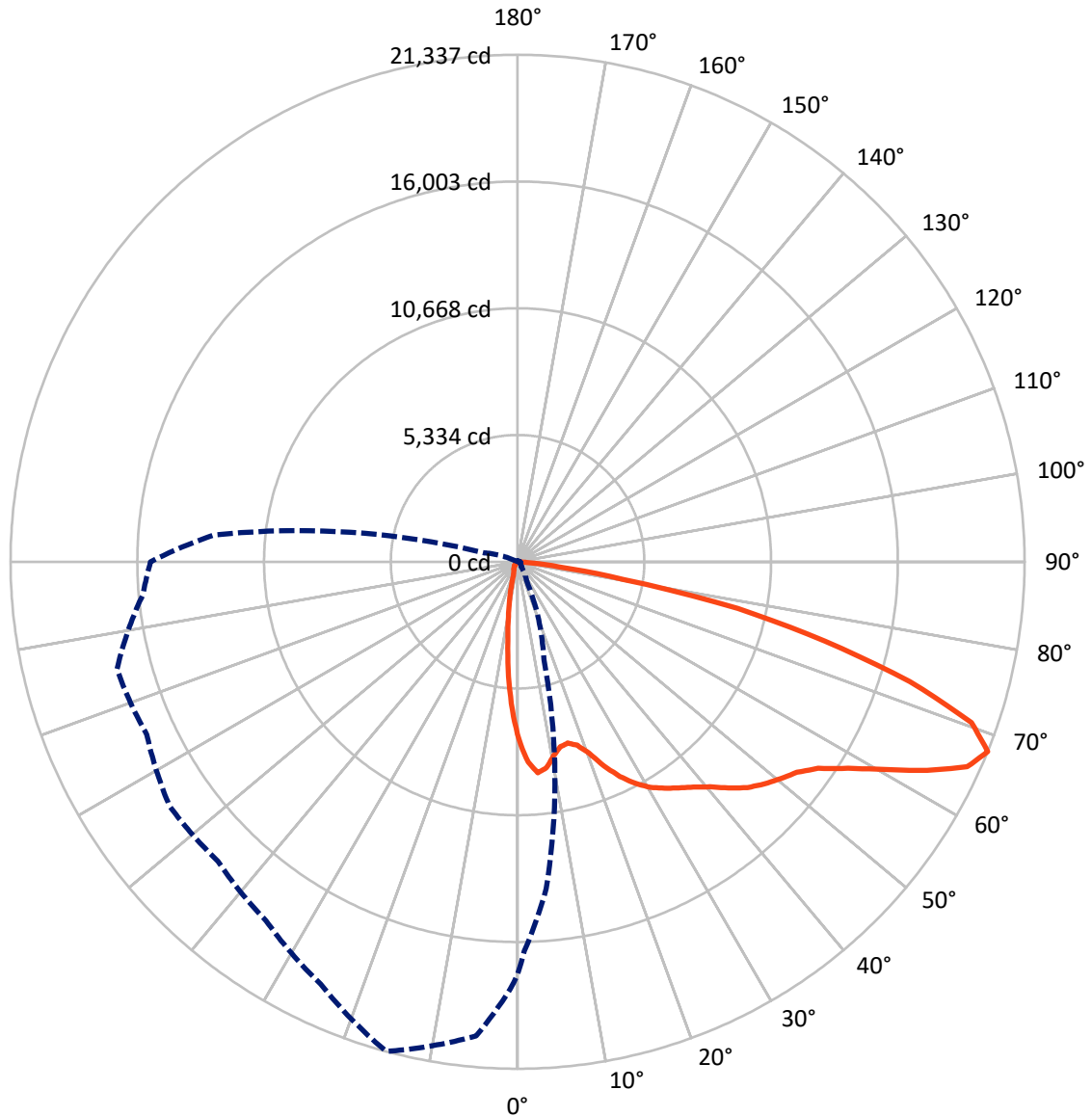
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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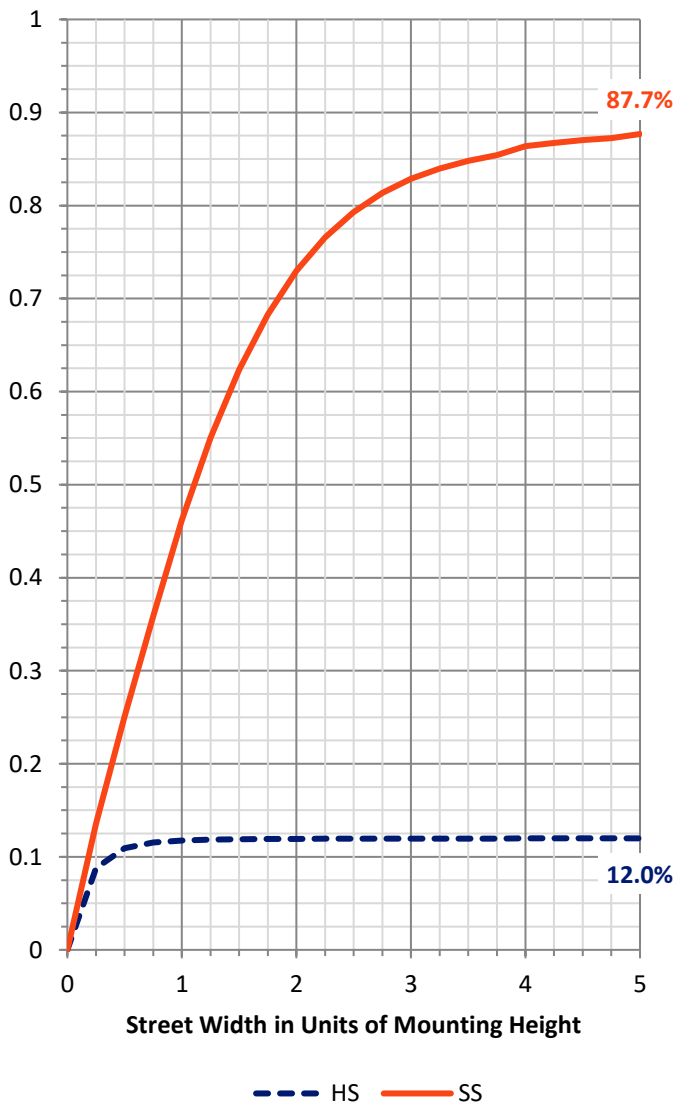
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2790.2	0.0	2790.2
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	20262.8	0.0	20262.8
	% Fixture	87.9	0.0	87.9
Total	Lumens	23053.0	0.0	23053.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	576.3	2.5
10°-20°	1147.2	5.0
20°-30°	1629.0	7.1
30°-40°	2406.2	10.4
40°-50°	3470.2	15.1
50°-60°	4871.5	21.1
60°-70°	5678.7	24.6
70°-80°	2903.1	12.6
80°-90°	370.8	1.6
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°	23053.0	100.0
0°-180°	23053.0	100.0

Coefficient of Utilization

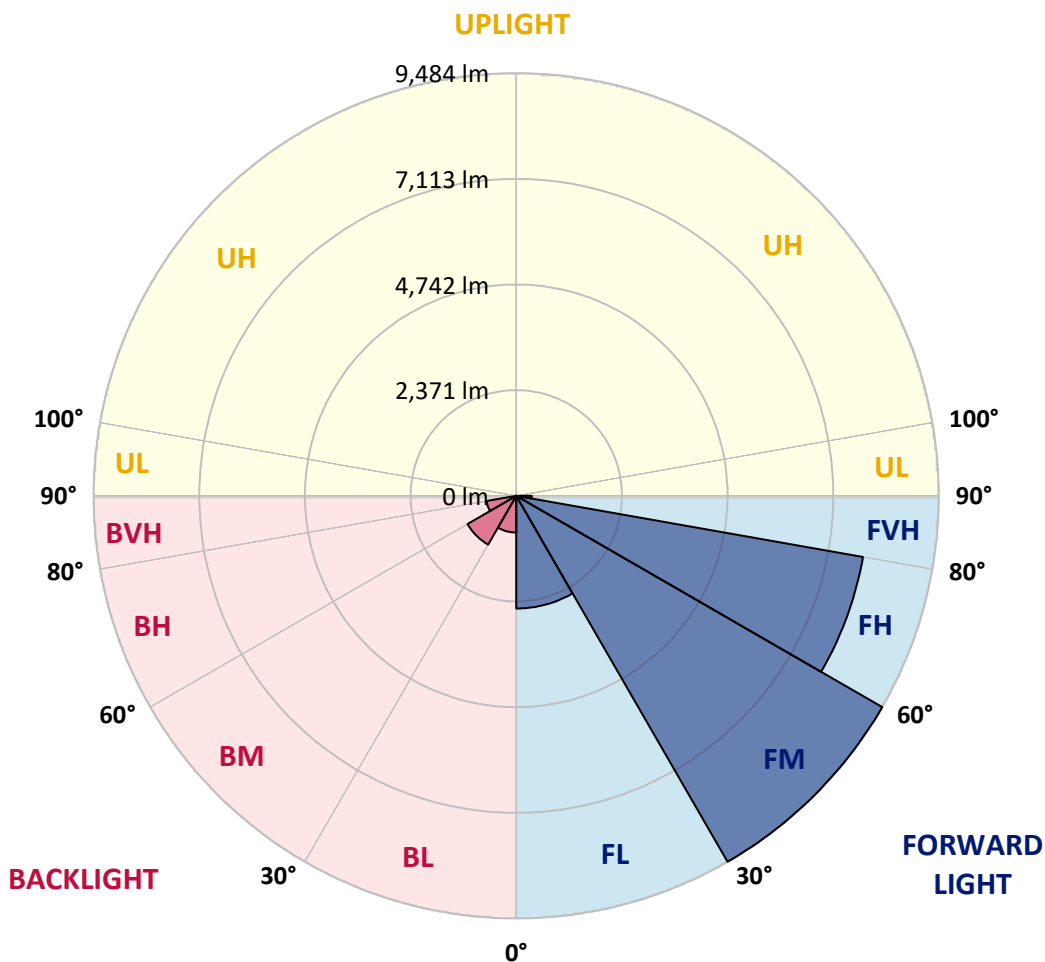


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2528.5	11.0			
FM (30°-60°)	9484.4	41.1			
FH (60°-80°)	7901.8	34.3			G4/12000
FVH (80°-90°)	348.2	1.5			G3/500
BL (0°-30°)	824.1	3.6	B2/1000		
BM (30°-60°)	1263.5	5.5	B2/2500		
BH (60°-80°)	680.0	2.9	B2/1000		G2/1000
BVH (80°-90°)	22.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7509.5	7509.5	7509.5	7509.5	7509.5	7509.5	7509.5	7509.5	7509.5	7509.5	7509.5
2.5°	8222.6	8159.3	8089.4	7861.1	7649.3	7406.8	7209.1	7071.5	6899.0	6675.1	6618.3
5°	8163.7	8095.9	7876.4	7368.6	6924.1	6491.6	6074.4	5829.8	5526.2	5218.2	5141.7
7.5°	7570.6	7499.6	7182.9	6487.2	5888.8	5264.1	4722.4	4387.1	4044.1	3762.4	3612.8
10°	6953.6	6876.0	6520.0	5675.8	4938.6	4374.0	3976.4	3656.4	3332.1	3030.7	2790.4
12.5°	6528.7	6427.2	6040.6	5083.9	4441.7	4058.3	3687.0	3303.7	2864.7	2541.4	2277.1
15°	6350.7	6235.0	5826.5	4855.6	4265.9	3815.9	3332.1	2861.4	2347.0	1976.8	1734.3
17.5°	6488.3	6337.6	5899.7	4840.3	4045.2	3432.6	2821.0	2268.3	1710.3	1335.7	1163.1
20°	6955.8	6758.1	6202.2	4835.9	3777.7	2977.1	2201.7	1577.0	1127.1	906.5	815.8
22.5°	7691.9	7430.8	6636.9	4870.9	3501.4	2498.8	1590.1	1071.4	846.4	731.7	678.2
25°	8580.8	8278.3	7262.7	4994.3	3258.9	2033.5	1155.5	846.4	714.3	630.2	585.4
27.5°	9426.2	9180.4	8053.4	5172.3	3071.1	1657.9	938.1	717.5	610.5	554.8	518.8
30°	10270.4	9961.3	8864.8	5384.2	2845.0	1403.4	824.6	654.2	547.2	488.2	465.2
32.5°	10884.1	10627.5	9500.4	5537.1	2603.6	1237.4	737.2	598.5	511.1	451.0	417.2
35°	11606.0	11315.5	10045.4	5570.9	2448.6	1132.5	662.9	538.4	443.4	389.9	353.8
37.5°	12385.8	12024.3	10674.5	5496.7	2327.3	1081.2	607.2	511.1	413.9	359.3	321.1
40°	13248.6	12840.1	11278.4	5389.7	2208.3	1063.7	564.6	490.4	391.0	335.3	296.0
42.5°	14157.3	13675.6	11801.5	5277.2	2132.9	1003.7	560.3	469.6	373.5	313.4	274.1
45°	14920.7	14432.5	12338.9	5240.0	2079.4	938.1	578.8	455.4	361.5	296.0	257.7
47.5°	15529.0	15067.0	12889.3	5323.0	2048.8	878.1	527.5	474.0	354.9	280.7	243.5
50°	16255.2	15732.1	13664.7	5570.9	2004.1	818.0	477.3	542.8	354.9	270.8	231.5
52.5°	17166.1	16648.4	14529.7	5955.4	1914.5	735.0	429.2	543.9	358.2	257.7	216.2
55°	18311.7	17936.0	15764.9	6376.9	1771.4	612.7	371.3	467.4	345.1	233.7	202.0
57.5°	19410.4	19103.5	16890.9	6665.3	1580.3	478.4	323.3	376.8	315.6	205.3	180.2
59°	19710.7	19375.4	17303.7	6678.4	1437.2	417.2	299.2	311.3	309.1	192.2	167.1
60°	19710.7	19354.7	17422.7	6608.5	1333.5	383.3	284.0	277.4	322.2	183.5	159.5
62.5°	19353.6	18853.4	17036.1	6135.6	1087.8	326.5	247.9	229.3	289.4	164.9	140.9
65°	18611.0	17882.5	15719.0	5280.4	969.8	299.2	214.1	187.8	201.0	145.3	123.4
67.5°	17372.5	16385.2	13819.8	4265.9	922.8	291.6	184.6	159.5	151.8	124.5	108.1
70°	15191.5	14096.1	11514.3	3353.9	882.4	288.3	155.1	134.3	122.3	104.8	91.7
72.5°	11056.7	9914.3	8174.6	2622.2	858.4	294.9	124.5	112.5	100.5	81.9	71.0
75°	6324.5	5576.4	4594.6	1732.1	731.7	281.8	96.1	93.9	72.1	59.0	49.1
77.5°	3267.6	3168.3	2753.3	665.1	350.6	123.4	63.3	54.6	42.6	36.0	29.5
80°	1409.9	1394.6	1206.8	192.2	92.8	68.8	36.0	22.9	19.7	15.3	12.0
82.5°	487.1	487.1	429.2	64.4	41.5	33.9	4.4	0.0	0.0	0.0	0.0
85°	98.3	110.3	77.5	0.0	14.2	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7509.5	7509.5	7509.5	7509.5	7509.5	7509.5	7509.5	7509.5	7509.5	7509.5	7509.5
2.5°	6549.5	6417.3	6408.6	6325.6	6221.9	6174.9	6147.6	6195.6	6254.6	6261.2	6349.6
5°	5083.9	4945.2	5003.0	4855.6	4885.1	4855.6	4807.5	4816.3	4842.5	4760.6	4862.2
7.5°	3570.2	3465.3	3531.9	3492.6	3545.0	3565.8	3536.3	3492.6	3363.8	3348.5	3436.9
10°	2691.0	2572.0	2501.0	2426.7	2443.1	2476.9	2466.0	2434.4	2352.4	2356.8	2442.0
12.5°	2162.4	2029.2	1888.3	1705.9	1661.1	1686.2	1661.1	1642.6	1563.9	1570.5	1645.8
15°	1640.4	1531.2	1383.7	1237.4	1157.7	1165.3	1095.4	1046.3	997.1	938.1	984.0
17.5°	1107.4	1040.8	997.1	953.4	858.4	836.6	748.1	653.1	616.0	588.7	608.3
20°	784.1	748.1	730.6	728.4	673.8	646.5	560.3	501.3	482.7	477.3	489.3
22.5°	655.3	629.1	603.9	589.7	562.4	530.8	465.2	435.8	422.7	416.1	424.8
25°	570.1	550.4	524.2	500.2	489.3	455.4	408.5	386.6	377.9	371.3	375.7
27.5°	506.7	489.3	458.7	443.4	434.7	405.2	364.8	347.3	339.7	337.5	336.4
30°	456.5	440.1	411.7	394.3	379.0	352.8	328.7	311.3	303.6	301.4	299.2
32.5°	406.3	393.2	374.6	357.1	340.7	316.7	296.0	281.8	269.8	267.6	266.5
35°	342.9	329.8	320.0	318.9	303.6	280.7	265.4	246.8	237.0	233.7	234.8
37.5°	304.7	287.2	265.4	273.0	268.7	252.3	231.5	213.0	203.1	201.0	201.0
40°	280.7	262.1	237.0	223.9	237.0	233.7	201.0	182.4	172.6	171.5	169.3
42.5°	257.7	239.2	210.8	188.9	195.5	205.3	173.6	156.2	146.3	144.2	140.9
45°	241.4	221.7	190.0	164.9	151.8	172.6	148.5	126.7	121.2	116.9	114.7
47.5°	226.1	207.5	171.5	143.1	121.2	124.5	119.0	103.8	97.2	92.8	91.7
50°	213.0	193.3	155.1	122.3	100.5	91.7	96.1	81.9	76.4	72.1	69.9
52.5°	197.7	179.1	137.6	105.9	84.1	72.1	73.2	64.4	59.0	55.7	54.6
55°	185.7	167.1	123.4	92.8	74.3	59.0	52.4	50.2	47.0	44.8	43.7
57.5°	169.3	151.8	109.2	78.6	63.3	48.1	40.4	40.4	39.3	37.1	36.0
59°	159.5	144.2	100.5	71.0	57.9	41.5	36.0	37.1	36.0	33.9	32.8
60°	151.8	137.6	93.9	65.5	54.6	38.2	32.8	34.9	33.9	31.7	30.6
62.5°	134.3	124.5	80.8	54.6	48.1	30.6	27.3	29.5	29.5	28.4	27.3
65°	117.9	107.0	68.8	45.9	44.8	26.2	21.8	26.2	27.3	25.1	22.9
67.5°	102.7	91.7	60.1	37.1	41.5	20.8	16.4	21.8	29.5	22.9	20.8
70°	87.4	76.4	47.0	29.5	43.7	14.2	13.1	19.7	34.9	25.1	19.7
72.5°	67.7	59.0	32.8	21.8	47.0	9.8	9.8	16.4	39.3	27.3	18.6
75°	47.0	38.2	19.7	13.1	38.2	6.6	6.6	15.3	37.1	25.1	17.5
77.5°	27.3	20.8	6.6	1.1	19.7	0.0	1.1	10.9	26.2	15.3	7.6
80°	9.8	4.4	0.0	0.0	12.0	0.0	0.0	0.0	2.2	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	7509.5	7509.5	7509.5	7509.5	7509.5	7509.5	7509.5	7509.5	7509.5	7509.5	7509.5
2.5°	6372.6	6520.0	6652.2	6852.0	7089.0	7362.0	7596.8	7849.1	8086.1	8184.4	8252.1
5°	4882.9	5065.3	5278.3	5572.0	5963.0	6444.6	6895.7	7405.7	7954.0	8228.1	8485.8
7.5°	3452.2	3637.9	3902.2	4214.5	4687.4	5260.8	5850.5	6555.0	7297.6	7731.2	8158.2
10°	2482.4	2710.7	2957.5	3384.5	3865.0	4408.9	5016.1	5802.5	6630.3	7110.8	7625.2
12.5°	1689.5	1949.4	2323.0	2801.3	3365.9	3898.9	4426.4	5176.7	6137.8	6613.9	7165.5
15°	1013.5	1157.7	1553.0	2106.7	2799.1	3463.1	4040.9	4793.3	5817.8	6401.0	6974.3
17.5°	624.7	691.3	906.5	1360.8	2088.1	2928.0	3719.8	4663.4	5863.6	6573.5	7187.3
20°	498.0	524.2	593.0	803.8	1383.7	2338.2	3358.3	4637.2	6238.2	7111.9	7770.5
22.5°	432.5	457.6	503.5	584.3	870.4	1750.7	3015.4	4661.2	6775.6	7919.0	8687.9
25°	381.2	403.0	446.7	513.3	637.8	1233.0	2648.4	4768.2	7475.6	8920.5	9737.4
27.5°	340.7	359.3	399.7	460.9	547.2	860.6	2232.3	4898.2	8305.6	9944.9	10750.9
30°	303.6	320.0	356.0	412.8	475.1	661.8	1775.8	4986.7	9136.7	10750.9	11475.0
32.5°	271.9	284.0	316.7	364.8	412.8	527.5	1349.9	4972.5	9753.8	11421.5	11995.9
35°	239.2	251.2	279.6	321.1	359.3	435.8	1061.5	4707.1	10291.1	12117.2	12592.2
37.5°	203.1	218.4	245.7	282.9	309.1	383.3	858.4	4387.1	10836.1	12912.2	13257.3
40°	172.6	187.8	211.9	252.3	268.7	363.7	659.6	3997.2	11448.8	13801.2	13986.9
42.5°	143.1	157.3	182.4	217.3	253.4	313.4	488.2	3551.6	12037.4	14561.3	14652.0
45°	115.8	130.0	156.2	191.1	270.8	259.9	377.9	3074.3	12512.5	15193.7	15223.2
47.5°	91.7	104.8	132.1	180.2	252.3	207.5	269.8	2699.7	12911.1	15687.3	15609.8
50°	71.0	81.9	110.3	206.4	220.6	171.5	204.2	2575.2	13268.3	15993.1	15792.2
52.5°	55.7	65.5	90.6	193.3	171.5	142.0	171.5	2692.1	13757.5	16246.5	15894.8
55°	44.8	54.6	71.0	110.3	116.9	120.1	146.3	2801.3	14601.8	16840.6	16501.0
57.5°	37.1	47.0	57.9	77.5	88.5	101.6	130.0	2813.3	15596.7	17827.9	17506.8
59°	33.9	42.6	52.4	68.8	77.5	92.8	122.3	2747.8	15947.3	18187.2	18026.7
60°	31.7	40.4	49.1	63.3	72.1	87.4	117.9	2685.5	15962.5	18174.1	18248.4
62.5°	27.3	36.0	43.7	53.5	61.2	74.3	105.9	2455.1	15316.0	17578.9	18115.1
65°	24.0	31.7	39.3	45.9	52.4	66.6	96.1	2034.6	14211.9	16618.9	17203.2
67.5°	21.8	27.3	36.0	40.4	47.0	59.0	85.2	1450.3	12832.5	15444.9	15823.8
70°	19.7	26.2	32.8	37.1	42.6	51.3	73.2	833.3	10836.1	13725.9	13995.6
72.5°	18.6	25.1	29.5	34.9	38.2	45.9	66.6	392.1	7934.3	10995.5	11700.0
75°	16.4	22.9	27.3	32.8	36.0	41.5	56.8	187.8	5277.2	7957.2	8757.8
77.5°	9.8	18.6	25.1	29.5	31.7	36.0	47.0	108.1	3368.1	5507.6	6487.2
80°	0.0	6.6	18.6	25.1	27.3	30.6	36.0	85.2	1802.0	3146.4	3776.6
82.5°	0.0	0.0	13.1	19.7	18.6	20.8	27.3	53.5	812.5	2056.5	2317.5
85°	0.0	0.0	4.4	15.3	13.1	9.8	18.6	18.6	178.0	1040.8	1298.5
87.5°	0.0	0.0	0.0	1.1	6.6	4.4	7.6	2.2	1.1	77.5	314.5
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: P324610

CATALOG NUMBER: GLEON-SA6C-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7509.5	7509.5	7509.5	7509.5	7509.5	7509.5	7509.5	7509.5	7509.5	7509.5
2.5°	8489.1	8569.9	8706.4	8770.9	8739.2	8604.9	8444.3	8280.5	8184.4	8222.6
5°	9011.1	9427.2	9667.5	9747.2	9614.0	9312.6	8918.3	8398.5	8213.9	8163.7
7.5°	9011.1	9794.2	10290.0	10377.4	10080.3	9489.5	8750.1	7938.7	7668.9	7570.6
10°	8694.4	9760.3	10451.7	10590.4	10175.4	9291.8	8301.3	7375.1	7055.1	6953.6
12.5°	8337.3	9485.1	10213.6	10404.7	10064.0	9095.2	7990.0	6994.0	6617.2	6528.7
15°	8117.8	9146.6	9749.4	9888.1	9744.0	8980.6	7915.7	6879.3	6435.9	6350.7
17.5°	8196.4	8884.5	9101.8	9182.6	9279.8	8940.2	8117.8	7130.5	6569.1	6488.3
20°	8492.4	8608.2	8495.7	8597.2	8859.3	8979.5	8599.4	7737.7	7063.9	6955.8
22.5°	8994.8	8465.1	8149.5	8189.9	8508.8	9109.4	9335.5	8604.9	7827.3	7691.9
25°	9580.1	8580.8	7957.2	7921.2	8248.8	9280.9	10008.3	9548.5	8730.5	8580.8
27.5°	10316.2	8840.8	7917.9	7881.9	8158.2	9441.4	10567.4	10481.2	9681.7	9426.2
30°	10884.1	9096.3	8034.8	7951.8	8248.8	9552.8	11016.3	11272.9	10439.7	10270.4
32.5°	11291.5	9397.8	8224.8	8104.7	8504.4	9745.1	11362.5	11998.1	11140.8	10884.1
35°	11601.7	9725.4	8531.7	8334.0	8856.1	10036.7	11686.9	12770.3	11886.7	11606.0
37.5°	11892.2	10185.2	9011.1	8775.2	9407.6	10506.3	12029.8	13646.1	12721.1	12385.8
40°	12297.4	10706.1	9750.5	9540.8	10334.8	11146.3	12457.9	14559.2	13670.2	13248.6
42.5°	12702.5	11265.3	10507.4	10564.2	11491.4	11923.9	13010.5	15524.6	14607.2	14157.3
45°	13072.8	11841.9	11585.3	11847.4	12564.9	12776.8	13559.9	16082.7	15355.3	14920.7
47.5°	13402.6	12562.7	12656.7	13354.5	13785.9	13548.9	13970.5	16564.3	15912.3	15529.0
50°	13785.9	13495.4	14068.8	15056.1	15191.5	14247.9	14344.0	17134.4	16563.2	16255.2
52.5°	14205.3	14478.3	15632.7	16503.1	16459.5	15006.9	14719.7	17773.3	17455.5	17166.1
55°	14681.5	15272.3	17009.9	17857.4	17820.3	15854.4	15342.2	18562.9	18573.8	18311.7
57.5°	15388.1	15956.0	17944.8	18952.8	19015.0	16833.0	16397.2	19447.5	19585.1	19410.4
59°	15894.8	16399.4	18315.0	19410.4	19663.8	17589.8	17168.3	19960.8	19870.2	19710.7
60°	16270.5	16681.2	18498.5	19649.6	20040.5	18103.1	17737.3	20262.3	19904.0	19710.7
62.5°	17199.9	17294.9	18829.4	19920.4	20474.1	19243.3	19338.3	20775.6	19669.2	19353.6
65°	17633.5	17682.6	18825.0	19435.5	20054.7	20131.2	20790.8	20790.8	19095.9	18611.0
67.5°	17452.2	17215.2	17891.2	17827.9	18446.0	19603.7	21336.9	20028.5	17999.4	17372.5
70°	15977.8	15065.9	14765.6	14792.9	15265.8	17051.4	20255.7	17785.3	15924.3	15191.5
72.5°	13294.5	11106.9	10365.4	11211.8	11335.2	13104.4	17262.2	13393.9	11743.7	11056.7
75°	10693.0	7829.5	6623.8	7517.1	7726.8	9590.0	13353.4	8341.7	6859.7	6324.5
77.5°	7682.0	5620.1	4752.9	4690.7	4961.5	6082.1	9475.3	4198.1	3501.4	3267.6
80°	4364.1	3699.0	3983.0	3758.0	3894.5	3802.8	4501.8	1841.3	1508.2	1409.9
82.5°	2634.2	2186.4	2367.7	1971.3	2494.4	2172.2	1734.3	589.7	512.2	487.1
85°	1713.5	1194.8	622.5	417.2	859.5	1388.1	387.7	160.5	123.4	98.3
87.5°	590.8	304.7	30.6	13.1	91.7	258.8	14.2	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

(END OF REPORT)