

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: P324620

Luminaire Tested: **GLEON-SA6D-827-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324620
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-SA6D-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1200mA 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: 25288 lumens
Efficiency: N/A
Efficacy: 66.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

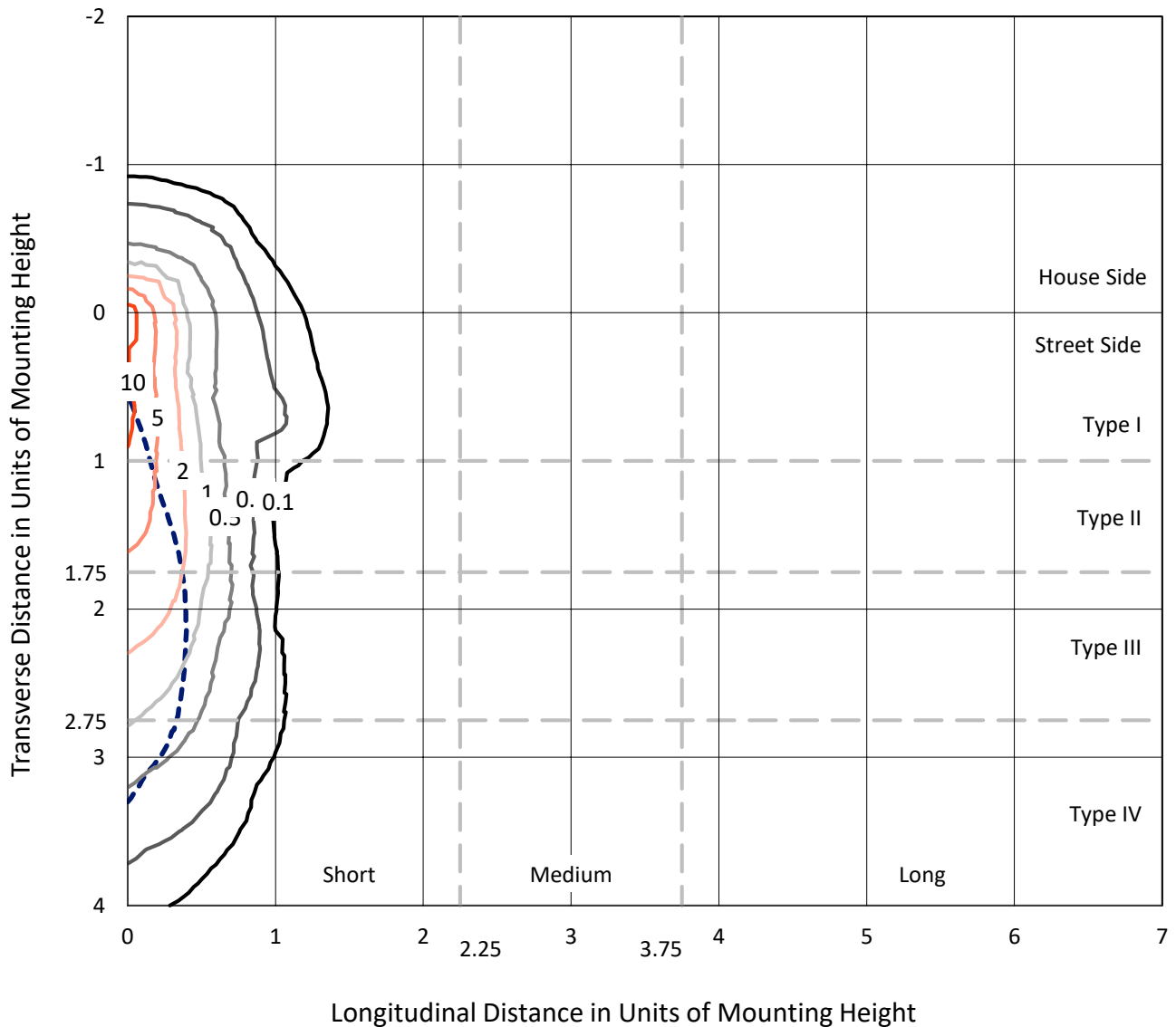
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

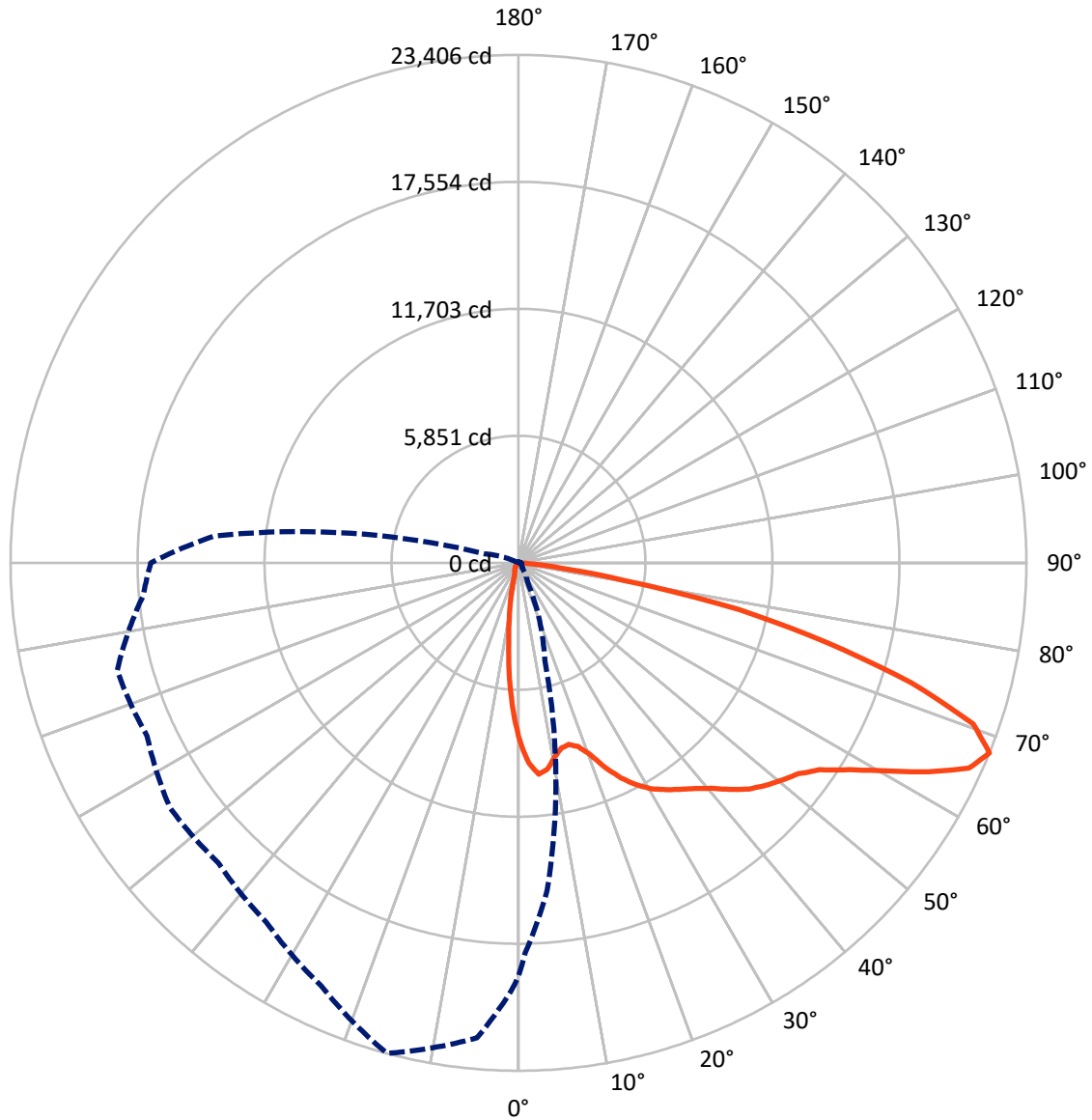
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 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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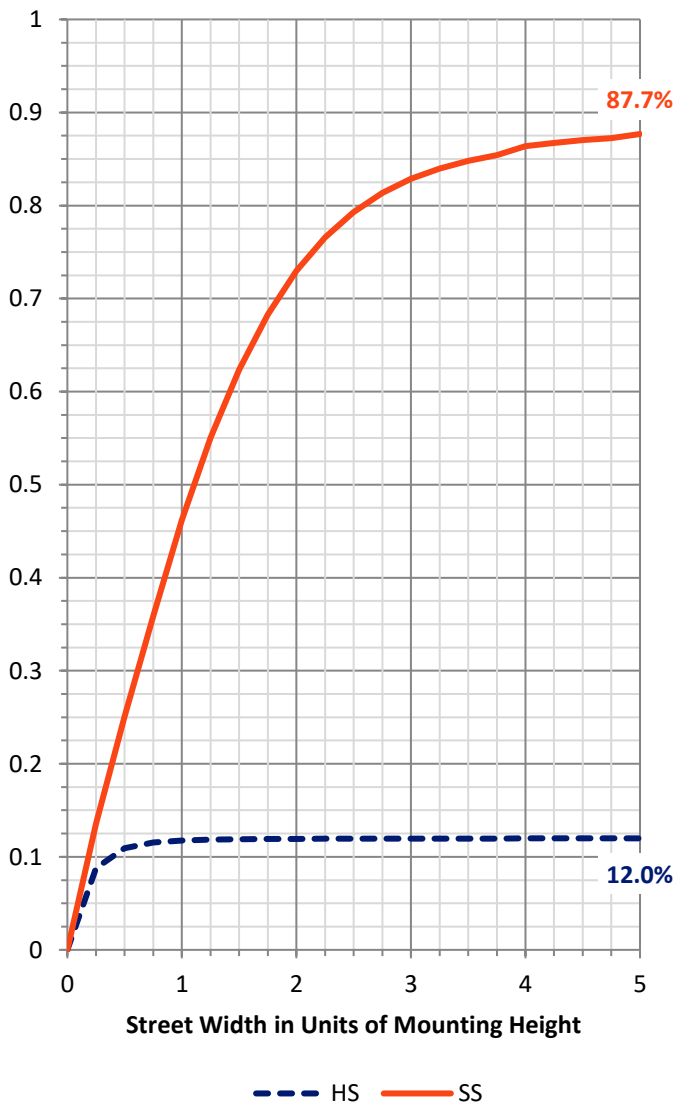
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3060.7	0.0	3060.7
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	22227.3	0.0	22227.3
	% Fixture	87.9	0.0	87.9
Total	Lumens	25288.0	0.0	25288.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	632.2	2.5
10°-20°	1258.4	5.0
20°-30°	1787.0	7.1
30°-40°	2639.5	10.4
40°-50°	3806.7	15.1
50°-60°	5343.8	21.1
60°-70°	6229.3	24.6
70°-80°	3184.5	12.6
80°-90°	406.7	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°	25288.0	100.0
0°-180°	25288.0	100.0

Coefficient of Utilization

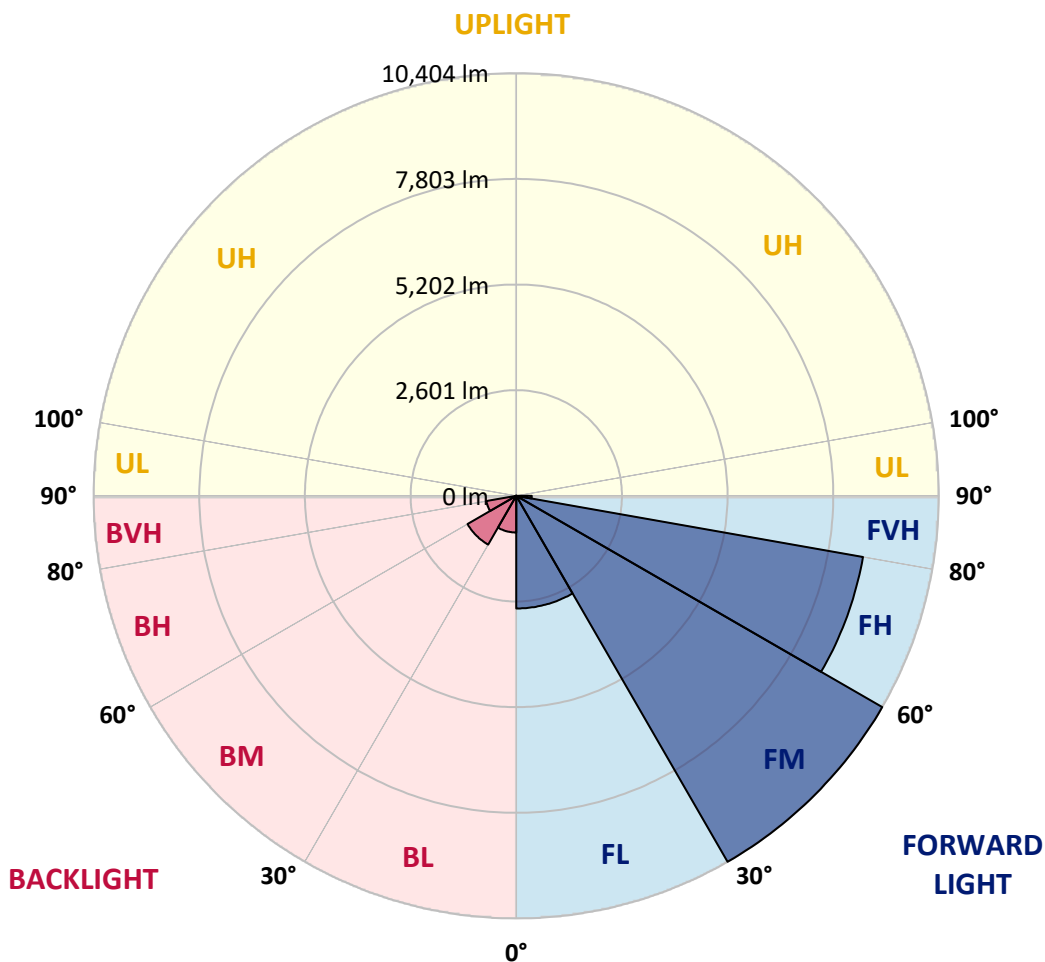


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2773.6	11.0			
FM (30°-60°)	10403.9	41.1			
FH (60°-80°)	8667.8	34.3			G4/12000
FVH (80°-90°)	382.0	1.5			G3/500
BL (0°-30°)	904.0	3.6	B2/1000		
BM (30°-60°)	1386.0	5.5	B2/2500		
BH (60°-80°)	746.0	2.9	B2/1000		G2/1000
BVH (80°-90°)	24.7	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°	8237.5	8237.5	8237.5	8237.5	8237.5	8237.5	8237.5	8237.5	8237.5	8237.5	8237.5
2.5°	9019.8	8950.3	8873.7	8623.3	8390.9	8124.9	7908.1	7757.1	7567.8	7322.2	7259.9
5°	8955.1	8880.9	8640.1	8083.0	7595.4	7121.0	6663.3	6395.0	6061.9	5724.1	5640.2
7.5°	8304.6	8226.7	7879.3	7116.2	6459.7	5774.4	5180.2	4812.4	4436.2	4127.1	3963.0
10°	7627.7	7542.7	7152.1	6226.1	5417.4	4798.0	4362.0	4010.9	3655.1	3324.5	3060.9
12.5°	7161.7	7050.3	6626.2	5576.7	4872.3	4451.8	4044.5	3624.0	3142.4	2787.8	2497.9
15°	6966.4	6839.4	6391.4	5326.4	4679.4	4185.8	3655.1	3138.8	2574.5	2168.4	1902.4
17.5°	7117.4	6952.1	6471.7	5309.6	4437.4	3765.3	3094.5	2488.3	1876.1	1465.2	1275.9
20°	7630.1	7413.3	6803.5	5304.8	4143.9	3265.8	2415.2	1729.9	1236.3	994.3	894.9
22.5°	8437.6	8151.3	7280.3	5343.1	3840.8	2741.0	1744.3	1175.2	928.5	802.7	744.0
25°	9412.8	9080.9	7966.8	5478.5	3574.9	2230.7	1267.5	928.5	783.5	691.3	642.1
27.5°	10340.0	10070.5	8834.1	5673.8	3368.8	1818.6	1029.1	787.1	669.7	608.6	569.1
30°	11266.1	10927.1	9724.2	5906.2	3120.8	1539.4	904.5	717.6	600.2	535.5	510.4
32.5°	11939.4	11657.8	10421.5	6073.9	2856.1	1357.3	808.7	656.5	560.7	494.8	457.6
35°	12731.3	12412.6	11019.3	6111.1	2685.9	1242.3	727.2	590.6	486.4	427.7	388.2
37.5°	13586.6	13190.1	11709.4	6029.6	2553.0	1186.0	666.1	560.7	454.0	394.1	352.2
40°	14533.1	14085.0	12371.9	5912.2	2422.4	1166.9	619.4	537.9	428.9	367.8	324.7
42.5°	15529.8	15001.5	12945.7	5788.8	2339.7	1101.0	614.6	515.1	409.7	343.8	300.7
45°	16367.2	15831.7	13535.1	5748.1	2281.0	1029.1	634.9	499.6	396.5	324.7	282.7
47.5°	17034.5	16527.8	14138.9	5839.1	2247.5	963.2	578.6	519.9	389.4	307.9	267.2
50°	17831.2	17257.3	14989.5	6111.1	2198.3	897.3	523.5	595.4	389.4	297.1	254.0
52.5°	18830.3	18262.5	15938.3	6532.8	2100.1	806.3	470.8	596.6	392.9	282.7	237.2
55°	20087.0	19674.9	17293.3	6995.2	1943.2	672.1	407.3	512.7	378.6	256.4	221.6
57.5°	21292.2	20955.6	18528.4	7311.5	1733.5	524.7	354.6	413.3	346.2	225.2	197.7
59°	21621.7	21253.9	18981.3	7325.8	1576.6	457.6	328.3	341.4	339.0	210.8	183.3
60°	21621.7	21231.1	19111.9	7249.2	1462.8	420.5	311.5	304.3	353.4	201.3	174.9
62.5°	21229.9	20681.3	18687.8	6730.4	1193.2	358.2	271.9	251.6	317.5	180.9	154.5
65°	20415.3	19616.2	17243.0	5792.4	1063.8	328.3	234.8	206.1	220.4	159.3	135.4
67.5°	19056.8	17973.7	15159.6	4679.4	1012.3	319.9	202.5	174.9	166.5	136.6	118.6
70°	16664.3	15462.7	12630.6	3679.1	968.0	316.3	170.1	147.4	134.2	115.0	100.6
72.5°	12128.7	10875.5	8967.1	2876.4	941.6	323.5	136.6	123.4	110.2	89.9	77.9
75°	6937.7	6117.0	5040.0	1900.0	802.7	309.1	105.4	103.0	79.1	64.7	53.9
77.5°	3584.4	3475.4	3020.2	729.6	384.6	135.4	69.5	59.9	46.7	39.5	32.3
80°	1546.6	1529.9	1323.8	210.8	101.8	75.5	39.5	25.2	21.6	16.8	13.2
82.5°	534.3	534.3	470.8	70.7	45.5	37.1	4.8	0.0	0.0	0.0	0.0
85°	107.8	121.0	85.1	0.0	15.6	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°	8237.5	8237.5	8237.5	8237.5	8237.5	8237.5	8237.5	8237.5	8237.5	8237.5	8237.5
2.5°	7184.5	7039.5	7029.9	6938.9	6825.1	6773.6	6743.6	6796.3	6861.0	6868.2	6965.2
5°	5576.7	5424.6	5488.1	5326.4	5358.7	5326.4	5273.6	5283.2	5312.0	5222.1	5333.5
7.5°	3916.3	3801.3	3874.4	3831.2	3888.7	3911.5	3879.2	3831.2	3689.9	3673.1	3770.1
10°	2951.9	2821.3	2743.4	2662.0	2679.9	2717.1	2705.1	2670.4	2580.5	2585.3	2678.8
12.5°	2372.1	2225.9	2071.4	1871.3	1822.2	1849.7	1822.2	1801.8	1715.6	1722.7	1805.4
15°	1799.4	1679.6	1517.9	1357.3	1269.9	1278.3	1201.6	1147.7	1093.8	1029.1	1079.4
17.5°	1214.8	1141.7	1093.8	1045.9	941.6	917.7	820.6	716.4	675.7	645.7	667.3
20°	860.2	820.6	801.5	799.1	739.2	709.2	614.6	549.9	529.5	523.5	536.7
22.5°	718.8	690.1	662.5	646.9	617.0	582.2	510.4	478.0	463.6	456.4	466.0
25°	625.4	603.8	575.0	548.7	536.7	499.6	448.1	424.1	414.5	407.3	412.1
27.5°	555.9	536.7	503.2	486.4	476.8	444.5	400.1	381.0	372.6	370.2	369.0
30°	500.8	482.8	451.6	432.5	415.7	387.0	360.6	341.4	333.0	330.7	328.3
32.5°	445.7	431.3	410.9	391.7	373.8	347.4	324.7	309.1	295.9	293.5	292.3
35°	376.2	361.8	351.0	349.8	333.0	307.9	291.1	270.8	260.0	256.4	257.6
37.5°	334.2	315.1	291.1	299.5	294.7	276.7	254.0	233.6	222.8	220.4	220.4
40°	307.9	287.5	260.0	245.6	260.0	256.4	220.4	200.1	189.3	188.1	185.7
42.5°	282.7	262.4	231.2	207.3	214.4	225.2	190.5	171.3	160.5	158.1	154.5
45°	264.8	243.2	208.5	180.9	166.5	189.3	162.9	139.0	133.0	128.2	125.8
47.5°	248.0	227.6	188.1	156.9	133.0	136.6	130.6	113.8	106.6	101.8	100.6
50°	233.6	212.0	170.1	134.2	110.2	100.6	105.4	89.9	83.9	79.1	76.7
52.5°	216.8	196.5	150.9	116.2	92.2	79.1	80.3	70.7	64.7	61.1	59.9
55°	203.7	183.3	135.4	101.8	81.5	64.7	57.5	55.1	51.5	49.1	47.9
57.5°	185.7	166.5	119.8	86.3	69.5	52.7	44.3	44.3	43.1	40.7	39.5
59°	174.9	158.1	110.2	77.9	63.5	45.5	39.5	40.7	39.5	37.1	35.9
60°	166.5	150.9	103.0	71.9	59.9	41.9	35.9	38.3	37.1	34.7	33.5
62.5°	147.4	136.6	88.7	59.9	52.7	33.5	30.0	32.3	32.3	31.1	30.0
65°	129.4	117.4	75.5	50.3	49.1	28.8	24.0	28.8	30.0	27.6	25.2
67.5°	112.6	100.6	65.9	40.7	45.5	22.8	18.0	24.0	32.3	25.2	22.8
70°	95.8	83.9	51.5	32.3	47.9	15.6	14.4	21.6	38.3	27.6	21.6
72.5°	74.3	64.7	35.9	24.0	51.5	10.8	10.8	18.0	43.1	30.0	20.4
75°	51.5	41.9	21.6	14.4	41.9	7.2	7.2	16.8	40.7	27.6	19.2
77.5°	30.0	22.8	7.2	1.2	21.6	0.0	1.2	12.0	28.8	16.8	8.4
80°	10.8	4.8	0.0	0.0	13.2	0.0	0.0	0.0	2.4	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°	8237.5	8237.5	8237.5	8237.5	8237.5	8237.5	8237.5	8237.5	8237.5	8237.5	8237.5
2.5°	6990.4	7152.1	7297.1	7516.3	7776.3	8075.8	8333.4	8610.1	8870.1	8977.9	9052.2
5°	5356.3	5556.4	5790.0	6112.2	6541.1	7069.5	7564.2	8123.7	8725.1	9025.8	9308.5
7.5°	3786.9	3990.6	4280.5	4623.1	5141.9	5770.8	6417.7	7190.5	8005.1	8480.7	8949.1
10°	2723.1	2973.5	3244.2	3712.6	4239.8	4836.4	5502.5	6365.0	7273.1	7800.2	8364.5
12.5°	1853.3	2138.4	2548.2	3072.9	3692.3	4276.9	4855.5	5678.6	6732.8	7255.2	7860.1
15°	1111.8	1269.9	1703.6	2311.0	3070.5	3798.9	4432.6	5258.1	6381.8	7021.5	7650.5
17.5°	685.3	758.3	994.3	1492.7	2290.6	3211.9	4080.4	5115.5	6432.1	7210.8	7884.1
20°	546.3	575.0	650.5	881.7	1517.9	2564.9	3683.9	5086.8	6843.0	7801.4	8523.8
22.5°	474.4	502.0	552.3	640.9	954.8	1920.4	3307.7	5113.1	7432.5	8686.8	9530.2
25°	418.1	442.1	490.0	563.1	699.6	1352.6	2905.2	5230.5	8200.4	9785.3	10681.5
27.5°	373.8	394.1	438.5	505.6	600.2	944.0	2448.7	5373.1	9110.9	10909.1	11793.2
30°	333.0	351.0	390.6	452.8	521.1	726.0	1948.0	5470.1	10022.6	11793.2	12587.5
32.5°	298.3	311.5	347.4	400.1	452.8	578.6	1480.7	5454.5	10699.4	12528.8	13158.9
35°	262.4	275.5	306.7	352.2	394.1	478.0	1164.5	5163.4	11288.9	13291.9	13813.1
37.5°	222.8	239.6	269.6	310.3	339.0	420.5	941.6	4812.4	11886.7	14164.1	14542.6
40°	189.3	206.1	232.4	276.7	294.7	398.9	723.6	4384.7	12558.7	15139.3	15342.9
42.5°	156.9	172.5	200.1	238.4	277.9	343.8	535.5	3895.9	13204.5	15973.1	16072.5
45°	127.0	142.6	171.3	209.7	297.1	285.1	414.5	3372.4	13725.6	16666.7	16699.1
47.5°	100.6	115.0	145.0	197.7	276.7	227.6	295.9	2961.5	14162.9	17208.2	17123.2
50°	77.9	89.9	121.0	226.4	242.0	188.1	224.0	2824.9	14554.6	17543.7	17323.2
52.5°	61.1	71.9	99.4	212.0	188.1	155.7	188.1	2953.1	15091.3	17821.6	17435.8
55°	49.1	59.9	77.9	121.0	128.2	131.8	160.5	3072.9	16017.4	18473.3	18100.7
57.5°	40.7	51.5	63.5	85.1	97.0	111.4	142.6	3086.1	17108.8	19556.3	19204.1
59°	37.1	46.7	57.5	75.5	85.1	101.8	134.2	3014.2	17493.3	19950.5	19774.4
60°	34.7	44.3	53.9	69.5	79.1	95.8	129.4	2945.9	17510.1	19936.1	20017.6
62.5°	30.0	39.5	47.9	58.7	67.1	81.5	116.2	2693.1	16800.9	19283.2	19871.4
65°	26.4	34.7	43.1	50.3	57.5	73.1	105.4	2231.9	15589.7	18230.1	18871.1
67.5°	24.0	30.0	39.5	44.3	51.5	64.7	93.4	1591.0	14076.6	16942.3	17358.0
70°	21.6	28.8	35.9	40.7	46.7	56.3	80.3	914.1	11886.7	15056.6	15352.5
72.5°	20.4	27.6	32.3	38.3	41.9	50.3	73.1	430.1	8703.5	12061.6	12834.3
75°	18.0	25.2	30.0	35.9	39.5	45.5	62.3	206.1	5788.8	8728.7	9606.8
77.5°	10.8	20.4	27.6	32.3	34.7	39.5	51.5	118.6	3694.7	6041.6	7116.2
80°	0.0	7.2	20.4	27.6	30.0	33.5	39.5	93.4	1976.7	3451.5	4142.7
82.5°	0.0	0.0	14.4	21.6	20.4	22.8	30.0	58.7	891.3	2255.9	2542.2
85°	0.0	0.0	4.8	16.8	14.4	10.8	20.4	20.4	195.3	1141.7	1424.4
87.5°	0.0	0.0	0.0	1.2	7.2	4.8	8.4	2.4	1.2	85.1	345.0
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: P324620

CATALOG NUMBER: GLEON-SA6D-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8237.5	8237.5	8237.5	8237.5	8237.5	8237.5	8237.5	8237.5	8237.5	8237.5
2.5°	9312.1	9400.8	9550.5	9621.2	9586.5	9439.1	9263.0	9083.3	8977.9	9019.8
5°	9884.8	10341.2	10604.8	10692.2	10546.1	10215.4	9783.0	9212.7	9010.2	8955.1
7.5°	9884.8	10743.8	11287.7	11383.5	11057.6	10409.5	9598.5	8708.3	8412.4	8304.6
10°	9537.4	10706.6	11465.0	11617.1	11161.9	10192.7	9106.1	8090.2	7739.1	7627.7
12.5°	9145.6	10404.7	11203.8	11413.4	11039.7	9977.0	8764.6	7672.1	7258.7	7161.7
15°	8904.8	10033.3	10694.6	10846.8	10688.6	9851.2	8683.2	7546.3	7059.9	6966.4
17.5°	8991.1	9745.8	9984.2	10072.9	10179.5	9806.9	8904.8	7821.8	7206.0	7117.4
20°	9315.7	9442.7	9319.3	9430.7	9718.3	9850.0	9433.1	8487.9	7748.7	7630.1
22.5°	9866.8	9285.8	8939.6	8983.9	9333.7	9992.6	10240.6	9439.1	8586.1	8437.6
25°	10508.9	9412.8	8728.7	8689.2	9048.6	10180.7	10978.6	10474.2	9576.9	9412.8
27.5°	11316.4	9697.9	8685.6	8646.0	8949.1	10356.8	11591.9	11497.3	10620.4	10340.0
30°	11939.4	9978.2	8813.8	8722.7	9048.6	10479.0	12084.3	12365.9	11451.8	11266.1
32.5°	12386.2	10308.9	9022.2	8890.4	9328.9	10689.8	12464.1	13161.3	12220.9	11939.4
35°	12726.5	10668.3	9358.9	9142.0	9714.7	11009.7	12819.9	14008.3	13039.1	12731.3
37.5°	13045.1	11172.6	9884.8	9626.0	10319.7	11524.9	13196.1	14969.1	13954.4	13586.6
40°	13489.6	11744.1	10695.8	10465.8	11336.8	12226.9	13665.7	15970.7	14995.5	14533.1
42.5°	13934.1	12357.5	11526.1	11588.4	12605.5	13079.9	14271.9	17029.7	16023.4	15529.8
45°	14340.2	12990.0	12708.5	12996.0	13783.1	14015.5	14874.5	17641.9	16844.0	16367.2
47.5°	14702.0	13780.7	13883.7	14649.3	15122.5	14862.5	15324.9	18170.2	17455.0	17034.5
50°	15122.5	14803.8	15432.8	16515.8	16664.3	15629.2	15734.7	18795.6	18169.0	17831.2
52.5°	15582.5	15882.0	17148.3	18103.1	18055.2	16461.9	16146.8	19496.4	19147.8	18830.3
55°	16104.9	16753.0	18659.0	19588.7	19547.9	17391.5	16829.6	20362.6	20374.6	20087.0
57.5°	16880.0	17502.9	19684.5	20790.3	20858.6	18464.9	17986.9	21333.0	21483.9	21292.2
59°	17435.8	17989.3	20090.6	21292.2	21570.2	19295.2	18832.7	21896.0	21796.6	21621.7
60°	17848.0	18298.4	20291.9	21554.6	21983.5	19858.2	19456.9	22226.7	21833.7	21621.7
62.5°	18867.5	18971.7	20654.9	21851.7	22459.1	21108.9	21213.2	22789.8	21576.2	21229.9
65°	19343.1	19397.0	20650.1	21319.8	21999.1	22082.9	22806.5	22806.5	20947.2	20415.3
67.5°	19144.2	18884.2	19625.8	19556.3	20234.4	21504.3	23405.5	21970.3	19744.4	19056.8
70°	17526.9	16526.6	16197.1	16227.1	16745.8	18704.5	22219.5	19509.6	17468.2	16664.3
72.5°	14583.4	12183.8	11370.3	12298.8	12434.1	14374.9	18935.8	14692.4	12882.2	12128.7
75°	11729.7	8588.5	7265.9	8245.9	8475.9	10519.7	14648.1	9150.4	7524.7	6937.7
77.5°	8426.8	6165.0	5213.7	5145.5	5442.6	6671.7	10393.9	4605.2	3840.8	3584.4
80°	4787.2	4057.7	4369.1	4122.4	4272.1	4171.5	4938.2	2019.8	1654.5	1546.6
82.5°	2889.6	2398.4	2597.3	2162.4	2736.3	2382.8	1902.4	646.9	561.9	534.3
85°	1879.7	1310.6	682.9	457.6	942.8	1522.7	425.3	176.1	135.4	107.8
87.5°	648.1	334.2	33.5	14.4	100.6	283.9	15.6	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)