

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: P324289

Luminaire Tested: **GLEON-SA5C-827-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324289
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-SA5C-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 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: 19266 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

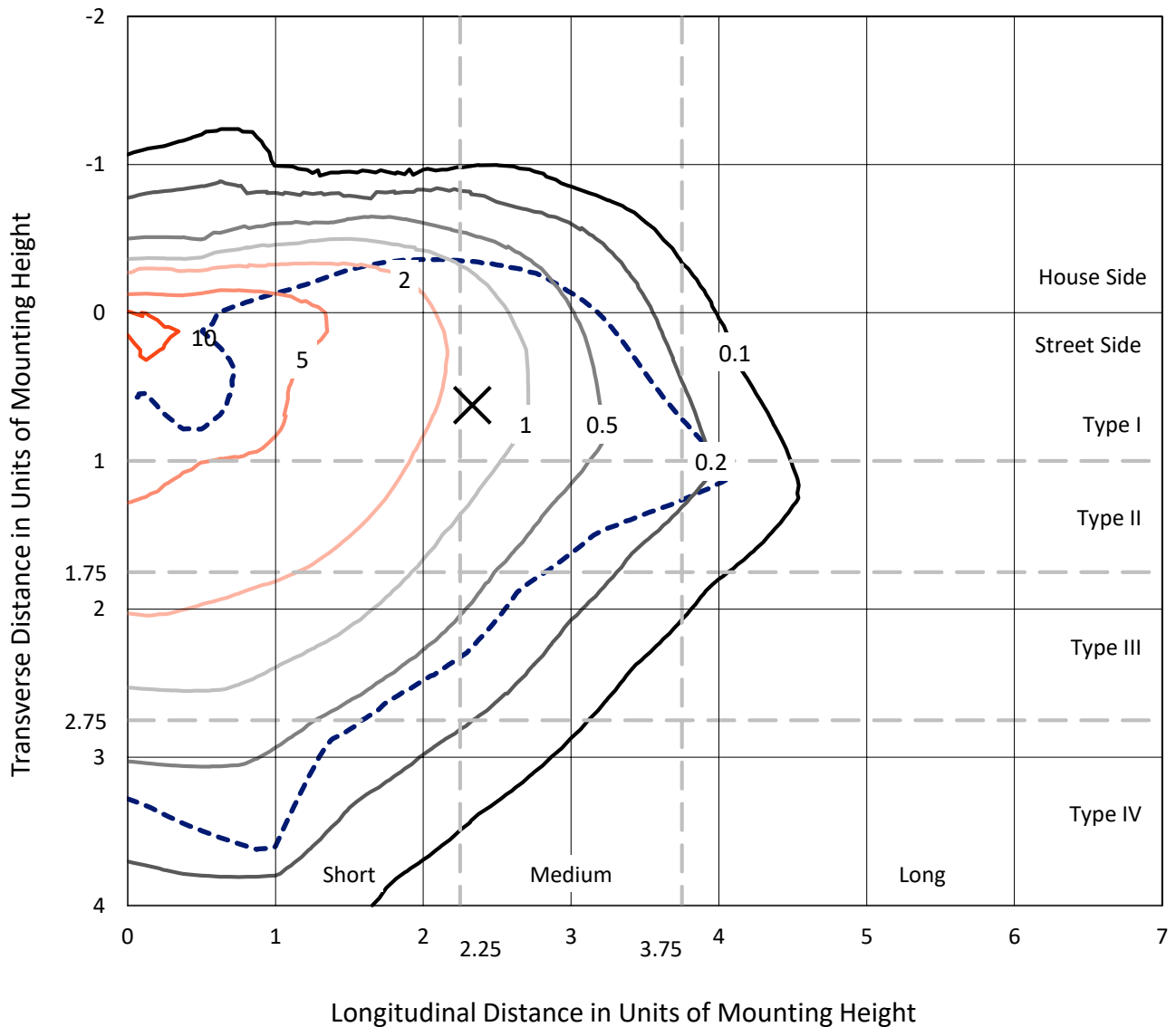
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

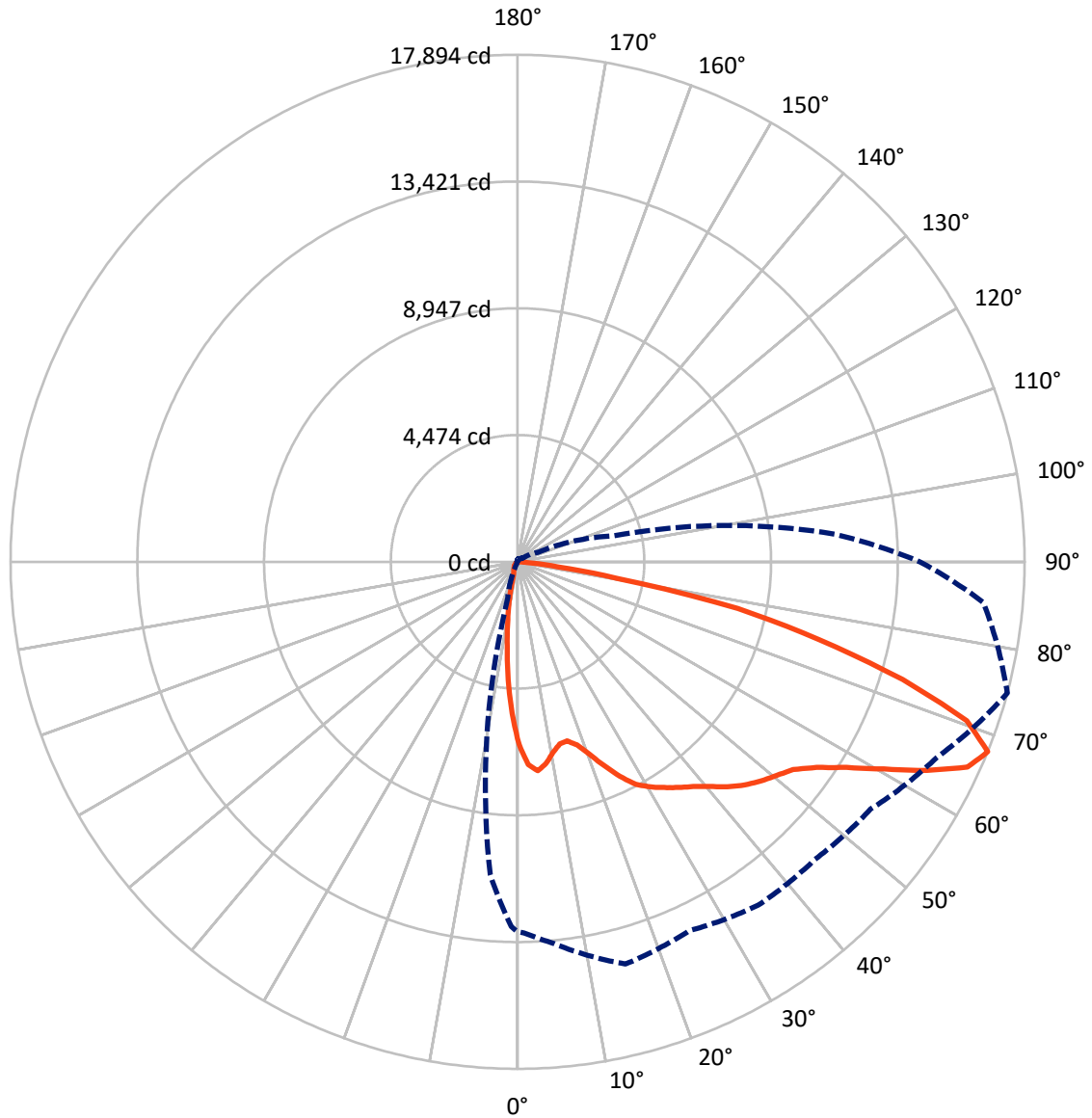
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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



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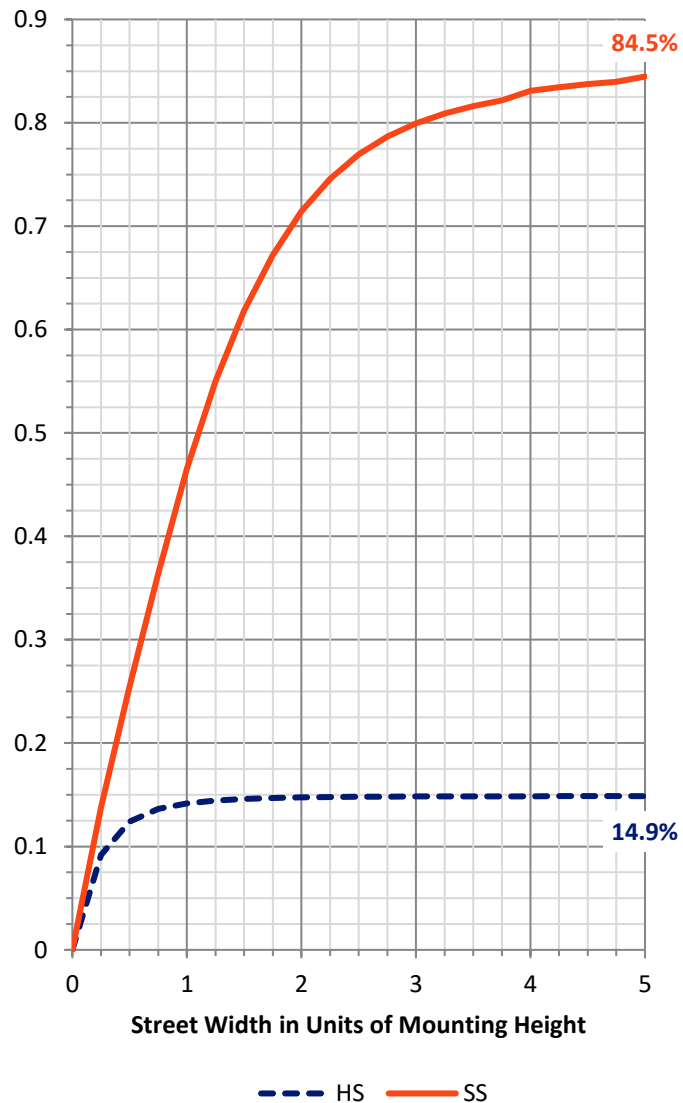
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2891.1	0.0	2891.1
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	16374.9	0.0	16374.9
	% Fixture	85.0	0.0	85.0
Total	Lumens	19266.0	0.0	19266.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.3	2.5
10°-20°	965.4	5.0
20°-30°	1365.7	7.1
30°-40°	2008.0	10.4
40°-50°	2886.2	15.0
50°-60°	4062.9	21.1
60°-70°	4745.2	24.6
70°-80°	2420.8	12.6
80°-90°	321.6	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°	19266.0	100.0
0°-180°	19266.0	100.0

Coefficient of Utilization

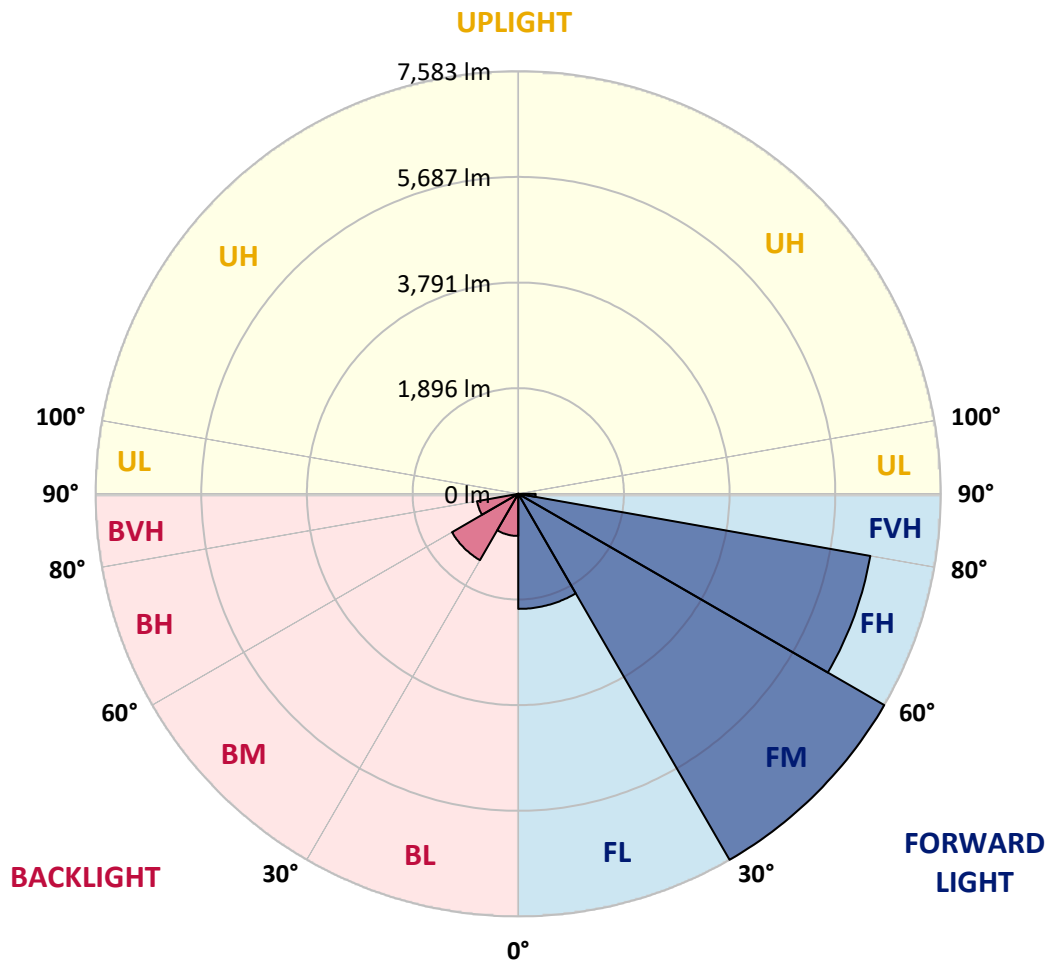


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2065.3	10.7			
FM (30°-60°)	7582.8	39.4			
FH (60°-80°)	6415.0	33.3			G3/7500
FVH (80°-90°)	311.8	1.6			G3/500
BL (0°-30°)	756.0	3.9	B2/1000		
BM (30°-60°)	1374.3	7.1	B2/2500		
BH (60°-80°)	750.9	3.9	B2/1000		G2/1000
BVH (80°-90°)	9.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6463.4	6463.4	6463.4	6463.4	6463.4	6463.4	6463.4	6463.4	6463.4	6463.4	6463.4
2.5°	7006.4	7017.4	7074.0	7205.4	7348.7	7359.6	7456.4	7356.9	7323.1	7162.5	6996.4
5°	7059.4	7101.4	7295.8	7681.8	8016.8	8124.4	8201.1	8005.8	7800.5	7408.0	6989.1
7.5°	6633.2	6703.4	7009.2	7733.8	8332.5	8597.2	8647.4	8341.7	7838.8	7192.6	6562.9
10°	6087.4	6167.7	6536.4	7427.2	8249.5	8703.1	8772.4	8371.8	7649.0	6844.0	6102.0
12.5°	5645.7	5739.7	6116.6	7082.2	7963.8	8465.8	8602.7	8270.5	7484.7	6596.7	5787.1
15°	5442.2	5549.8	5945.9	6859.5	7647.1	8042.3	8155.5	8012.2	7393.4	6557.4	5714.1
17.5°	5559.0	5675.8	6084.7	6878.7	7349.6	7518.4	7609.7	7668.1	7393.4	6793.8	5927.7
20°	6038.1	6164.1	6596.7	7073.1	7103.2	7040.2	7137.9	7343.2	7479.2	7242.8	6440.6
22.5°	6700.7	6848.6	7336.8	7406.2	6982.7	6744.5	6757.3	7079.5	7635.3	7812.3	7152.5
25°	7508.4	7689.1	8185.6	7902.7	7032.9	6568.4	6563.8	6862.2	7787.7	8382.7	7945.6
27.5°	8310.6	8509.6	8945.8	8508.7	7240.1	6536.4	6527.3	6796.5	7936.4	8890.2	8811.7
30°	8983.3	9176.7	9552.7	8947.7	7463.7	6611.3	6567.5	6866.8	8025.0	9219.6	9443.2
32.5°	9530.8	9686.0	9989.9	9249.7	7702.8	6756.4	6661.5	7054.8	8175.6	9498.0	10023.7
35°	10133.2	10296.6	10417.9	9537.2	7971.1	6965.4	6829.4	7353.3	8407.4	9780.9	10659.8
37.5°	10820.4	10982.9	10968.3	9800.1	8311.5	7311.3	7224.6	7826.0	8767.9	10061.1	11369.8
40°	11493.0	11659.2	11540.5	10087.6	8711.3	7881.7	7817.8	8536.1	9250.7	10419.8	12202.2
42.5°	12122.8	12302.6	12048.9	10359.5	9187.7	8600.8	8710.4	9450.5	9854.8	10861.5	12919.5
45°	12630.2	12813.7	12475.1	10624.2	9689.6	9473.3	9802.8	10463.6	10581.3	11234.8	13404.1
47.5°	12998.9	13172.3	12770.8	10888.9	10332.2	10540.2	11114.3	11525.9	11237.5	11558.8	13748.2
50°	13234.4	13369.5	12857.5	11220.2	11175.4	11785.1	12480.5	12681.3	11855.4	11850.8	14166.2
52.5°	13384.1	13445.2	12921.4	11566.1	12055.2	13140.4	13818.5	13881.5	12491.5	12172.1	14729.3
55°	13899.7	13949.0	13374.0	11985.0	12782.6	14327.8	15028.7	14970.3	13211.6	12800.9	15393.7
57.5°	14779.5	14831.5	14309.5	12587.3	13371.3	15061.5	15905.7	16010.7	14055.8	13684.3	16105.6
60°	15221.2	15318.0	15131.8	13350.3	13941.7	15530.6	16503.5	16838.5	15110.8	14848.9	16795.6
62.5°	14820.6	14961.1	15231.3	14196.3	14508.5	15788.9	16689.7	17135.1	16191.4	16206.0	17220.9
65°	14021.1	14133.4	14591.5	14660.0	14837.0	15757.0	16229.7	16720.7	16853.1	17452.7	17198.0
67.5°	13055.5	13097.5	13486.3	14696.5	14360.6	14796.9	14848.0	15211.2	16330.1	17894.4	16507.2
70°	11665.5	11688.4	12027.9	13474.4	12340.9	12436.7	12361.0	12434.9	14039.4	16818.4	14763.1
72.5°	9388.5	9446.0	9928.8	11190.0	8990.6	8714.0	9309.1	9276.2	10812.2	14209.1	10964.6
75°	6912.4	7011.9	7741.1	9013.4	6310.1	5707.7	6142.2	6258.1	7686.4	10991.1	6856.8
77.5°	4839.8	4913.7	5620.1	6625.9	4566.9	4081.4	3924.4	4062.2	5073.4	7951.0	3454.4
80°	2788.2	2815.5	3266.4	3825.8	3077.5	3521.0	3189.7	3284.6	3040.0	3537.4	1485.8
82.5°	1824.4	1829.0	2005.1	2277.1	1916.6	2226.9	1648.3	2107.3	1870.0	1421.0	483.7
85°	985.7	991.1	1162.7	1616.3	1085.1	613.3	360.5	740.2	1156.3	325.8	132.3
87.5°	108.6	99.5	350.5	587.7	301.2	55.7	19.2	83.1	185.3	21.0	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°	6463.4	6463.4	6463.4	6463.4	6463.4	6463.4	6463.4	6463.4	6463.4	6463.4	6463.4
2.5°	6911.5	6835.8	6646.9	6447.0	6286.4	6135.8	5984.3	5799.0	5655.7	5626.5	5579.1
5°	6763.7	6523.6	6127.6	5729.6	5409.3	5005.0	4748.5	4548.7	4353.4	4341.5	4302.2
7.5°	6247.1	5931.3	5373.7	4823.4	4372.5	3987.4	3598.6	3338.5	3134.1	3062.0	3019.1
10°	5750.6	5395.6	4699.3	4071.3	3668.9	3328.4	3054.7	2782.7	2536.3	2366.5	2289.8
12.5°	5403.8	5011.4	4243.8	3702.6	3414.2	3091.2	2757.1	2417.6	2133.8	1929.3	1804.3
15°	5269.7	4850.8	4091.4	3556.6	3200.7	2791.8	2364.7	1976.8	1661.9	1476.7	1364.4
17.5°	5429.4	4942.0	4079.6	3378.6	2881.2	2372.9	1901.1	1442.9	1146.3	1005.7	933.6
20°	5834.6	5232.2	4075.0	3160.5	2501.6	1876.4	1287.8	949.2	769.4	690.9	657.1
22.5°	6407.7	5602.8	4111.5	2945.1	2106.4	1340.7	888.9	697.3	605.1	563.1	543.9
25°	7145.2	6123.0	4214.6	2749.8	1735.0	1000.3	692.7	584.1	519.3	486.4	472.8
27.5°	7931.0	6721.7	4375.3	2580.1	1432.9	797.7	593.2	500.1	453.6	430.8	418.0
30°	8578.9	7415.3	4537.7	2391.2	1213.8	695.4	543.0	456.3	402.5	387.9	376.0
32.5°	9145.7	7940.1	4652.7	2220.5	1070.5	617.9	491.0	408.0	371.5	343.2	330.4
35°	9732.5	8377.2	4649.1	2100.9	972.0	559.5	447.2	365.1	321.3	288.4	278.4
37.5°	10367.7	8871.0	4569.7	1998.7	929.1	512.9	422.6	342.2	298.4	265.6	252.8
40°	11111.6	9389.4	4488.4	1902.9	917.2	475.5	405.2	324.0	277.4	245.5	232.7
42.5°	11836.2	9856.7	4417.2	1831.7	866.1	474.6	389.7	310.3	261.0	230.0	215.4
45°	12415.7	10292.0	4403.6	1788.8	812.3	491.0	381.5	301.2	248.2	217.2	203.5
47.5°	12897.6	10764.8	4491.2	1758.7	761.2	448.1	401.6	294.8	236.4	206.3	190.7
50°	13470.8	11345.2	4697.4	1709.4	707.3	403.4	460.0	296.6	226.3	195.3	178.9
52.5°	14270.3	12148.3	5000.4	1626.3	633.4	362.3	452.7	298.4	215.4	183.4	167.0
55°	15166.5	13151.3	5326.2	1488.5	530.3	308.5	387.9	285.7	194.4	170.7	155.2
57.5°	16108.3	14061.3	5519.7	1324.3	421.6	266.5	310.3	260.1	171.6	153.3	143.3
60°	16256.2	14407.2	5431.2	1122.6	334.9	231.8	230.0	264.7	153.3	135.1	127.8
62.5°	15888.4	13972.7	5003.2	942.8	280.2	203.5	188.9	230.9	138.7	120.5	113.2
65°	15181.1	12798.1	4309.6	849.7	260.1	174.3	157.0	162.5	121.4	105.0	98.6
67.5°	14197.2	11230.2	3538.4	796.7	257.4	149.7	134.2	123.2	105.0	91.3	85.8
70°	12185.8	9355.6	2822.8	767.5	250.1	125.9	113.2	100.4	87.6	77.6	73.0
72.5°	8968.6	6629.5	2195.8	735.6	251.9	100.4	98.6	83.1	70.3	60.2	58.4
75°	5182.0	3787.5	1440.2	596.0	240.0	77.6	82.1	58.4	49.3	42.0	42.0
77.5°	2761.7	2309.9	548.5	248.2	87.6	49.3	46.5	34.7	31.0	25.6	24.6
80°	1203.8	1016.7	165.2	69.4	48.4	26.5	17.3	15.5	13.7	11.0	10.0
82.5°	426.2	367.8	53.8	33.8	21.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	96.7	69.4	0.0	8.2	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°	6463.4	6463.4	6463.4	6463.4	6463.4	6463.4	6463.4	6463.4	6463.4	6463.4	6463.4
2.5°	5482.3	5462.2	5343.6	5348.2	5369.1	5399.3	5328.1	5360.9	5449.5	5534.3	5566.3
5°	4239.3	4243.8	4171.7	4216.5	4256.6	4284.0	4169.0	4170.8	4241.1	4336.9	4387.1
7.5°	2987.1	2979.8	2983.5	3090.2	3166.0	3111.2	3154.1	3005.4	3014.5	3082.9	3031.8
10°	2220.5	2120.1	2063.5	2143.8	2226.9	2196.8	2122.8	2074.5	2108.2	2184.0	2178.5
12.5°	1745.0	1600.8	1515.9	1458.4	1526.9	1470.3	1468.5	1426.5	1380.8	1389.1	1510.4
15°	1312.4	1207.4	1107.0	1014.9	1013.0	993.9	896.2	786.7	777.6	783.1	846.0
17.5°	902.6	867.0	826.0	746.6	725.6	645.2	550.3	506.5	484.6	494.7	515.6
20°	634.3	620.6	625.2	582.3	552.2	475.5	419.8	402.5	398.8	408.9	418.9
22.5°	525.7	501.0	498.3	479.1	449.0	393.4	363.2	353.2	348.6	357.8	365.1
25°	460.0	435.3	425.3	413.4	381.5	343.2	324.9	315.8	311.2	316.7	321.3
27.5°	405.2	382.4	373.3	365.1	334.0	306.7	292.0	283.8	280.2	282.0	286.6
30°	364.1	344.1	332.2	322.2	295.7	276.5	263.8	255.5	251.9	251.9	256.5
32.5°	321.3	310.3	299.4	286.6	261.9	249.2	236.4	227.3	223.6	224.5	228.2
35°	267.4	263.8	266.5	254.6	233.6	222.7	209.9	199.9	197.1	198.0	201.7
37.5°	237.3	220.9	230.9	224.5	212.6	198.0	181.6	172.5	167.9	170.7	172.5
40°	218.1	198.0	190.7	197.1	195.3	171.6	157.0	147.8	144.2	145.1	146.9
42.5°	201.7	178.0	161.5	160.6	171.6	149.7	134.2	125.9	121.4	121.4	123.2
45°	186.2	160.6	140.5	125.0	144.2	126.9	112.3	105.0	99.5	99.5	100.4
47.5°	174.3	146.0	122.3	102.2	108.6	104.0	92.2	84.9	79.4	79.4	80.3
50°	163.4	131.4	105.9	85.8	81.2	85.8	74.8	66.6	63.0	62.1	63.9
52.5°	151.5	116.8	90.4	73.0	63.9	64.8	58.4	52.9	48.4	48.4	50.2
55°	139.6	105.0	78.5	62.1	52.9	48.4	46.5	42.9	39.2	39.2	41.1
57.5°	127.8	92.2	66.6	51.1	42.0	38.3	38.3	35.6	32.9	32.9	34.7
60°	116.8	79.4	54.8	42.0	32.9	31.9	32.9	30.1	28.3	28.3	30.1
62.5°	104.0	67.5	44.7	34.7	26.5	25.6	28.3	26.5	24.6	24.6	26.5
65°	88.5	57.5	35.6	26.5	20.1	20.1	23.7	21.9	20.1	20.1	21.9
67.5°	74.8	48.4	27.4	19.2	14.6	15.5	20.1	18.3	17.3	17.3	19.2
70°	62.1	37.4	19.2	11.9	8.2	11.9	15.5	15.5	15.5	15.5	17.3
72.5°	46.5	25.6	11.0	4.6	3.7	8.2	12.8	14.6	13.7	13.7	16.4
75°	30.1	14.6	3.7	0.0	0.0	4.6	10.0	11.9	11.9	11.0	13.7
77.5°	17.3	4.6	0.0	0.0	0.0	0.0	6.4	5.5	4.6	3.7	6.4
80°	4.6	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: P324289

CATALOG NUMBER: GLEON-SA5C-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6463.4	6463.4	6463.4	6463.4	6463.4	6463.4	6463.4	6463.4	6463.4	6463.4
2.5°	5695.0	5802.7	5954.2	6114.8	6362.1	6558.3	6750.9	6916.1	6980.0	7006.4
5°	4507.6	4665.5	4887.3	5172.0	5618.3	6019.9	6426.9	6836.7	7014.7	7059.4
7.5°	3234.4	3436.1	3718.2	4075.0	4597.9	5118.2	5686.7	6288.2	6563.8	6633.2
10°	2393.9	2640.3	2963.4	3339.4	3838.6	4373.4	4993.1	5680.4	5995.2	6087.4
12.5°	1698.4	2031.6	2464.2	2921.4	3354.0	3831.3	4458.3	5215.8	5546.2	5645.7
15°	997.5	1319.7	1831.7	2444.1	2998.1	3481.8	4118.8	4977.6	5341.8	5442.2
17.5°	572.2	732.9	1119.8	1802.5	2554.5	3224.4	4012.0	5036.9	5465.9	5559.0
20°	437.2	488.3	645.2	1160.9	2036.1	2971.6	4012.0	5372.8	5901.2	6038.1
22.5°	382.4	419.8	483.7	692.7	1498.6	2700.5	4058.6	5858.3	6549.2	6700.7
25°	339.5	373.3	428.0	521.1	1022.2	2378.4	4169.0	6454.3	7312.2	7508.4
27.5°	303.9	335.9	385.1	456.3	699.1	1989.6	4317.8	7153.4	8153.6	8310.6
30°	272.0	302.1	346.8	397.0	539.4	1548.8	4444.6	7812.3	8814.4	8983.3
32.5°	241.9	269.2	309.4	346.8	441.7	1145.4	4458.3	8334.4	9362.9	9530.8
35°	213.6	238.2	274.7	303.9	366.0	904.4	4245.7	8787.0	9911.4	10133.2
37.5°	186.2	209.9	241.9	263.8	322.2	737.4	3920.8	9291.7	10615.1	10820.4
40°	160.6	181.6	214.5	229.1	304.8	566.8	3567.6	9821.1	11305.0	11493.0
42.5°	136.9	157.0	188.9	217.2	267.4	423.5	3186.1	10317.6	11925.6	12122.8
45°	114.1	135.1	167.0	230.0	221.8	316.7	2778.1	10647.0	12415.7	12630.2
47.5°	92.2	115.9	159.7	219.0	177.1	232.7	2455.0	10959.1	12787.2	12998.9
50°	73.9	97.7	179.8	195.3	145.1	178.0	2320.0	11238.4	13030.9	13234.4
52.5°	60.2	82.1	169.8	149.7	121.4	146.9	2393.0	11691.1	13256.3	13384.1
55°	50.2	64.8	102.2	104.0	103.1	125.0	2483.3	12340.9	13839.5	13899.7
57.5°	43.8	52.0	71.2	80.3	86.7	111.3	2485.2	13273.6	14742.1	14779.5
60°	37.4	45.6	59.3	64.8	74.8	99.5	2394.8	13599.5	15097.1	15221.2
62.5°	32.9	40.2	49.3	53.8	63.0	89.4	2183.1	13127.6	14609.8	14820.6
65°	29.2	36.5	41.1	45.6	55.7	80.3	1834.4	12183.9	13801.1	14021.1
67.5°	25.6	31.9	36.5	41.1	50.2	71.2	1350.7	11087.8	12873.0	13055.5
70°	22.8	28.3	32.9	36.5	43.8	60.2	819.6	9408.5	11589.8	11665.5
72.5°	21.9	25.6	30.1	32.9	38.3	52.9	415.3	6914.3	9265.3	9388.5
75°	19.2	22.8	27.4	29.2	33.8	45.6	168.8	4541.4	6714.4	6912.4
77.5°	15.5	21.0	24.6	26.5	29.2	37.4	85.8	2902.2	4712.0	4839.8
80°	5.5	15.5	21.0	21.9	24.6	27.4	56.6	1588.9	2733.4	2788.2
82.5°	0.0	10.0	16.4	15.5	17.3	21.0	36.5	755.7	1804.3	1824.4
85°	0.0	4.6	12.8	10.0	7.3	14.6	12.8	165.2	946.4	985.7
87.5°	0.0	0.0	0.9	4.6	3.7	5.5	1.8	0.9	85.8	108.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)