

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: P324279

Luminaire Tested: **GLEON-SA5B-827-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324279
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-SA5B-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA 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: 15566 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

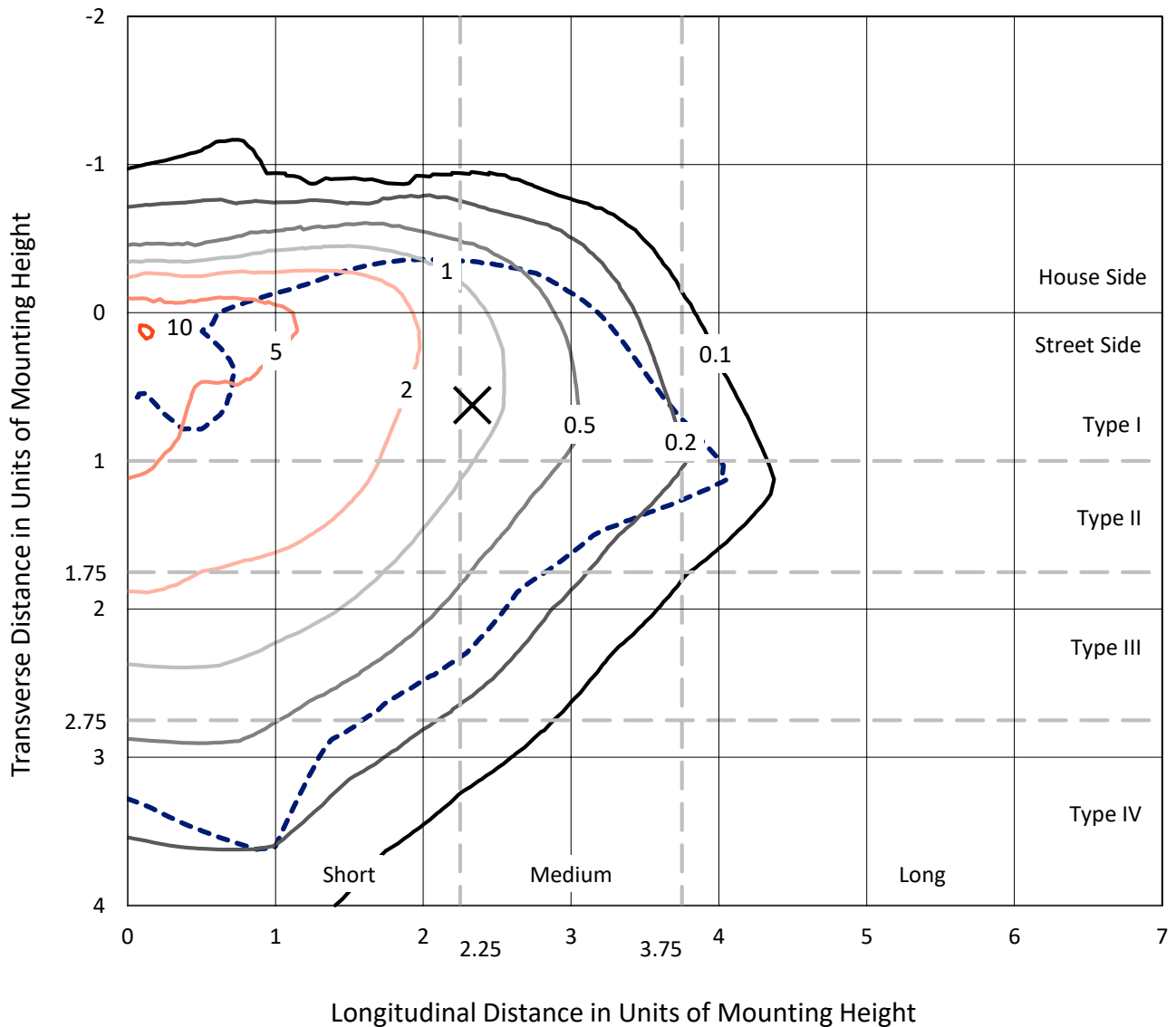
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

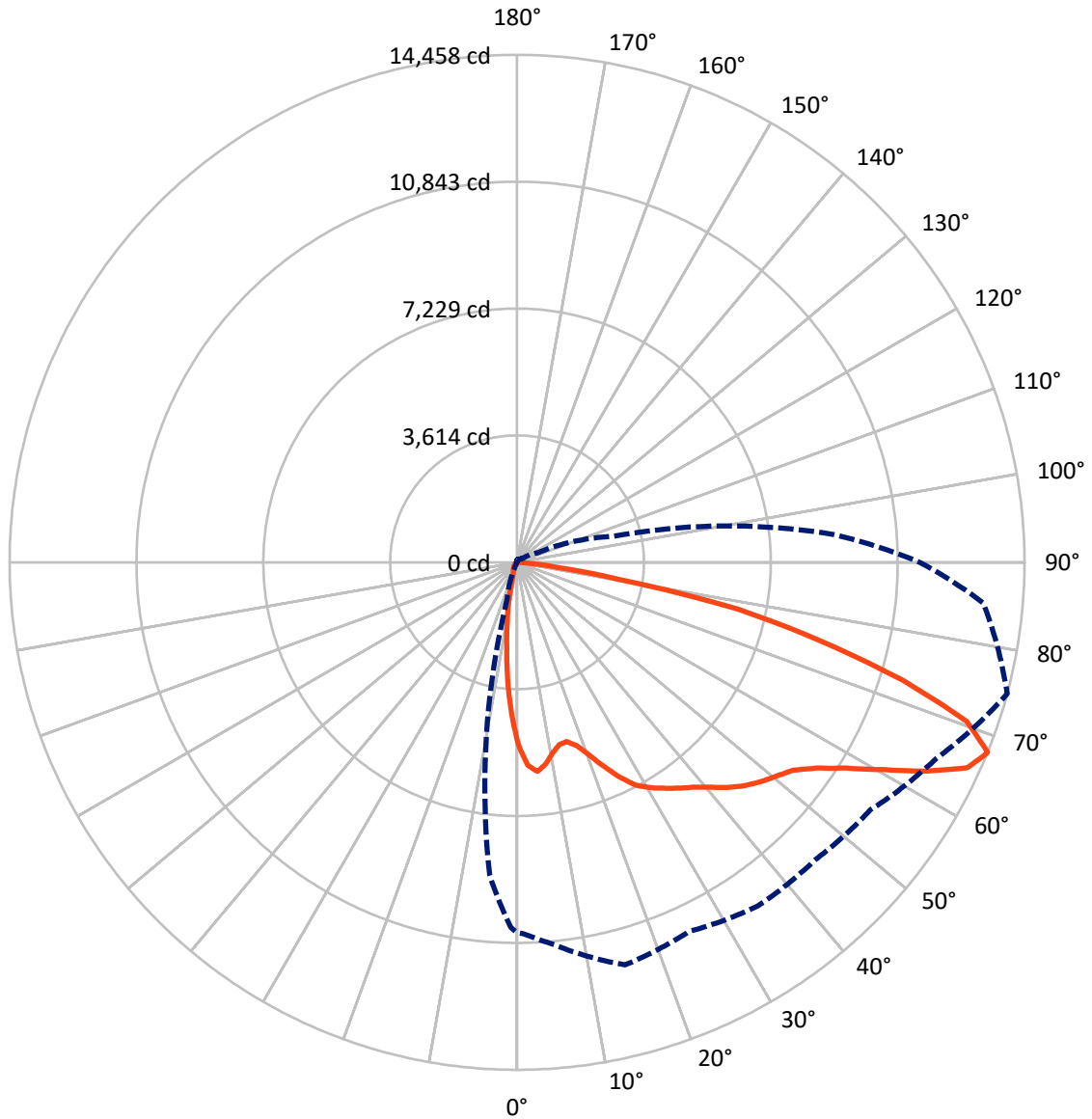
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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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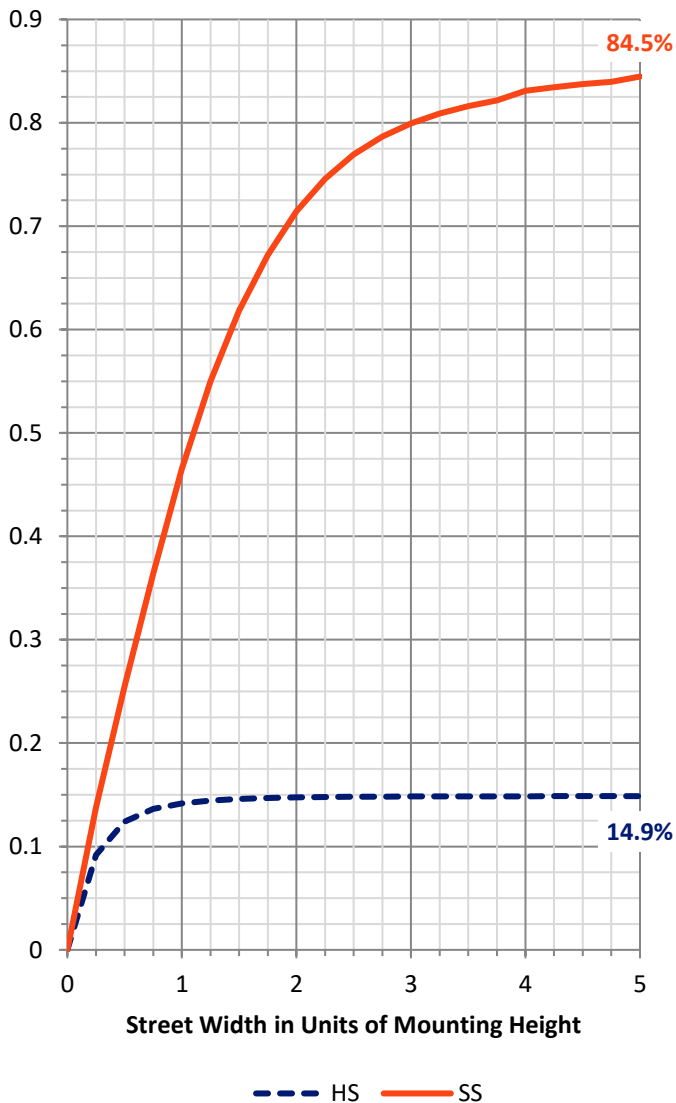
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2335.8	0.0	2335.8
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	13230.2	0.0	13230.2
	% Fixture	85.0	0.0	85.0
Total	Lumens	15566.0	0.0	15566.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.1	2.5
10°-20°	780.0	5.0
20°-30°	1103.4	7.1
30°-40°	1622.4	10.4
40°-50°	2331.9	15.0
50°-60°	3282.7	21.1
60°-70°	3833.8	24.6
70°-80°	1955.9	12.6
80°-90°	259.8	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°	15566.0	100.0
0°-180°	15566.0	100.0

Coefficient of Utilization

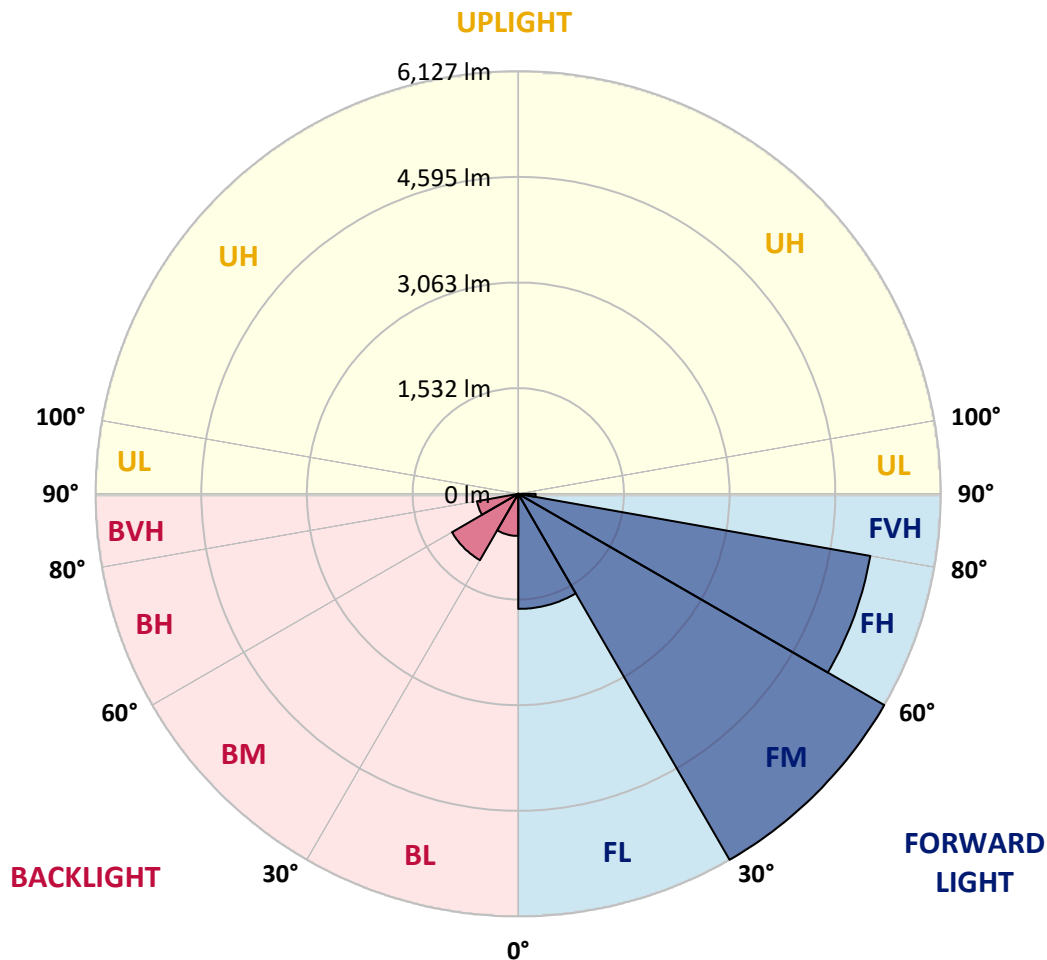


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1668.7	10.7			
FM (30°-60°)	6126.5	39.4			
FH (60°-80°)	5183.0	33.3			G3/7500
FVH (80°-90°)	251.9	1.6			G3/500
BL (0°-30°)	610.9	3.9	B2/1000		
BM (30°-60°)	1110.4	7.1	B2/2500		
BH (60°-80°)	606.7	3.9	B2/1000		G2/1000
BVH (80°-90°)	7.9	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°	5222.1	5222.1	5222.1	5222.1	5222.1	5222.1	5222.1	5222.1	5222.1	5222.1	5222.1
2.5°	5660.9	5669.7	5715.4	5821.6	5937.4	5946.2	6024.4	5944.0	5916.7	5787.0	5652.8
5°	5703.6	5737.6	5894.6	6206.5	6477.1	6564.2	6626.1	6468.3	6302.4	5985.3	5646.9
7.5°	5359.3	5416.1	5663.1	6248.6	6732.3	6946.1	6986.7	6739.7	6333.4	5811.3	5302.5
10°	4918.3	4983.2	5281.1	6000.8	6665.2	7031.7	7087.7	6764.0	6180.0	5529.6	4930.1
12.5°	4561.4	4637.4	4941.9	5722.1	6434.4	6839.9	6950.5	6682.1	6047.3	5329.8	4675.7
15°	4397.0	4484.0	4804.0	5542.1	6178.5	6497.8	6589.2	6473.5	5973.5	5298.1	4616.7
17.5°	4491.4	4585.8	4916.1	5557.6	5938.1	6074.5	6148.3	6195.5	5973.5	5489.1	4789.3
20°	4878.5	4980.3	5329.8	5714.7	5739.0	5688.2	5767.1	5933.0	6042.8	5851.8	5203.7
22.5°	5413.8	5533.3	5927.8	5983.8	5641.7	5449.2	5459.6	5719.9	6168.9	6312.0	5778.8
25°	6066.4	6212.4	6613.6	6385.0	5682.3	5306.9	5303.2	5544.4	6292.1	6772.8	6419.6
27.5°	6714.6	6875.3	7227.8	6874.6	5849.6	5281.1	5273.7	5491.3	6412.3	7182.8	7119.4
30°	7258.0	7414.4	7718.2	7229.3	6030.3	5341.6	5306.2	5548.0	6483.8	7449.0	7629.7
32.5°	7700.5	7825.8	8071.4	7473.3	6223.5	5458.8	5382.1	5699.9	6605.5	7673.9	8098.6
35°	8187.1	8319.1	8417.2	7705.6	6440.3	5627.7	5517.8	5941.1	6792.7	7902.5	8612.6
37.5°	8742.4	8873.6	8861.8	7918.0	6715.3	5907.2	5837.1	6323.0	7084.0	8128.9	9186.3
40°	9285.8	9420.0	9324.2	8150.3	7038.3	6368.0	6316.4	6896.7	7474.1	8418.7	9858.8
42.5°	9794.6	9939.9	9734.9	8370.0	7423.2	6949.1	7037.6	7635.6	7962.2	8775.6	10438.4
45°	10204.6	10352.8	10079.3	8583.8	7828.8	7654.0	7920.2	8454.1	8549.2	9077.2	10829.9
47.5°	10502.5	10642.6	10318.2	8797.7	8347.9	8516.0	8979.8	9312.4	9079.4	9338.9	11107.9
50°	10692.8	10801.9	10388.2	9065.4	9029.2	9521.8	10083.7	10245.9	9578.6	9574.9	11445.6
52.5°	10813.7	10863.1	10439.8	9344.8	9740.1	10616.8	11164.7	11215.6	10092.5	9834.4	11900.6
55°	11230.3	11270.1	10805.6	9683.3	10327.7	11576.1	12142.4	12095.2	10674.3	10342.5	12437.4
57.5°	11941.1	11983.2	11561.4	10169.9	10803.4	12169.0	12851.1	12935.9	11356.4	11056.3	13012.5
60°	12298.0	12376.2	12225.8	10786.4	11264.2	12548.0	13334.0	13604.7	12208.8	11997.2	13570.0
62.5°	11974.3	12087.9	12306.1	11469.9	11722.1	12756.7	13484.5	13844.3	13081.9	13093.7	13913.6
65°	11328.4	11419.1	11789.2	11844.5	11987.6	12730.9	13112.8	13509.5	13616.5	14100.9	13895.2
67.5°	10548.2	10582.1	10896.3	11874.0	11602.7	11955.1	11996.4	12289.9	13193.9	14457.8	13337.0
70°	9425.2	9443.6	9717.9	10886.7	9970.9	10048.3	9987.1	10046.8	11343.1	13588.4	11927.9
72.5°	7585.4	7631.9	8022.0	9041.0	7263.9	7040.5	7521.3	7494.7	8735.7	11480.3	8858.9
75°	5584.9	5665.3	6254.5	7282.4	5098.2	4611.6	4962.6	5056.2	6210.2	8880.3	5539.9
77.5°	3910.3	3970.1	4540.8	5353.4	3689.9	3297.6	3170.7	3282.1	4099.1	6424.1	2791.0
80°	2252.7	2274.8	2639.1	3091.1	2486.4	2844.8	2577.1	2653.8	2456.2	2858.1	1200.5
82.5°	1474.0	1477.7	1620.0	1839.8	1548.5	1799.2	1331.7	1702.6	1510.9	1148.1	390.8
85°	796.4	800.8	939.4	1305.9	876.7	495.5	291.3	598.0	934.3	263.2	106.9
87.5°	87.7	80.4	283.2	474.9	243.3	45.0	15.5	67.1	149.7	17.0	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°	5222.1	5222.1	5222.1	5222.1	5222.1	5222.1	5222.1	5222.1	5222.1	5222.1	5222.1
2.5°	5584.2	5523.0	5370.3	5208.9	5079.1	4957.4	4835.0	4685.3	4569.5	4545.9	4507.6
5°	5464.7	5270.8	4950.8	4629.3	4370.5	4043.8	3836.6	3675.1	3517.3	3507.7	3476.0
7.5°	5047.4	4792.2	4341.7	3897.1	3532.8	3221.6	2907.5	2697.3	2532.2	2473.9	2439.3
10°	4646.2	4359.4	3796.8	3289.5	2964.3	2689.2	2468.0	2248.3	2049.2	1912.0	1850.1
12.5°	4366.0	4049.0	3428.8	2991.6	2758.5	2497.5	2227.6	1953.3	1724.0	1558.8	1457.8
15°	4257.6	3919.2	3305.7	2873.6	2586.0	2255.6	1910.6	1597.2	1342.8	1193.1	1102.4
17.5°	4386.7	3992.9	3296.1	2729.8	2327.9	1917.2	1536.0	1165.8	926.1	812.6	754.3
20°	4714.1	4227.4	3292.4	2553.5	2021.2	1516.1	1040.4	766.9	621.6	558.2	530.9
22.5°	5177.1	4526.8	3321.9	2379.5	1701.9	1083.2	718.2	563.4	488.9	455.0	439.5
25°	5772.9	4947.1	3405.2	2221.7	1401.8	808.2	559.7	471.9	419.6	393.0	382.0
27.5°	6407.8	5430.8	3535.0	2084.6	1157.7	644.5	479.3	404.1	366.5	348.0	337.7
30°	6931.4	5991.2	3666.3	1931.9	980.7	561.9	438.7	368.7	325.2	313.4	303.8
32.5°	7389.3	6415.2	3759.2	1794.0	864.9	499.2	396.7	329.6	300.1	277.3	266.9
35°	7863.4	6768.4	3756.2	1697.4	785.3	452.0	361.3	295.0	259.6	233.0	224.9
37.5°	8376.6	7167.3	3692.1	1614.9	750.7	414.4	341.4	276.5	241.1	214.6	204.3
40°	8977.6	7586.2	3626.4	1537.4	741.1	384.2	327.4	261.8	224.2	198.4	188.0
42.5°	9563.1	7963.7	3568.9	1479.9	699.8	383.4	314.9	250.7	210.9	185.8	174.0
45°	10031.3	8315.4	3557.9	1445.3	656.3	396.7	308.2	243.3	200.6	175.5	164.4
47.5°	10420.7	8697.4	3628.6	1420.9	615.0	362.1	324.4	238.2	191.0	166.6	154.1
50°	10883.7	9166.4	3795.3	1381.1	571.5	325.9	371.6	239.6	182.9	157.8	144.5
52.5°	11529.7	9815.3	4040.1	1314.0	511.7	292.7	365.7	241.1	174.0	148.2	134.9
55°	12253.8	10625.6	4303.4	1202.7	428.4	249.2	313.4	230.8	157.1	137.9	125.4
57.5°	13014.8	11360.8	4459.7	1069.9	340.7	215.3	250.7	210.2	138.6	123.9	115.8
60°	13134.2	11640.3	4388.1	907.0	270.6	187.3	185.8	213.8	123.9	109.1	103.2
62.5°	12837.1	11289.3	4042.3	761.7	226.4	164.4	152.6	186.6	112.1	97.3	91.4
65°	12265.6	10340.3	3481.9	686.5	210.2	140.8	126.8	131.3	98.1	84.8	79.6
67.5°	11470.7	9073.5	2858.8	643.7	207.9	120.9	108.4	99.5	84.8	73.7	69.3
70°	9845.5	7558.9	2280.7	620.1	202.0	101.8	91.4	81.1	70.8	62.7	59.0
72.5°	7246.2	5356.3	1774.1	594.3	203.5	81.1	79.6	67.1	56.8	48.7	47.2
75°	4186.8	3060.1	1163.6	481.5	193.9	62.7	66.4	47.2	39.8	33.9	33.9
77.5°	2231.3	1866.3	443.2	200.6	70.8	39.8	37.6	28.0	25.1	20.6	19.9
80°	972.6	821.4	133.5	56.0	39.1	21.4	14.0	12.5	11.1	8.8	8.1
82.5°	344.4	297.2	43.5	27.3	17.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	78.2	56.0	0.0	6.6	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°	5222.1	5222.1	5222.1	5222.1	5222.1	5222.1	5222.1	5222.1	5222.1	5222.1	5222.1
2.5°	4429.4	4413.2	4317.4	4321.0	4338.0	4362.3	4304.8	4331.4	4402.9	4471.5	4497.3
5°	3425.1	3428.8	3370.6	3406.7	3439.1	3461.3	3368.4	3369.8	3426.6	3504.0	3544.6
7.5°	2413.4	2407.5	2410.5	2496.8	2558.0	2513.7	2548.4	2428.2	2435.6	2490.9	2449.6
10°	1794.0	1712.9	1667.2	1732.1	1799.2	1774.9	1715.1	1676.1	1703.3	1764.6	1760.1
12.5°	1409.9	1293.4	1224.8	1178.3	1233.6	1187.9	1186.4	1152.5	1115.7	1122.3	1220.4
15°	1060.4	975.6	894.4	820.0	818.5	803.0	724.1	635.6	628.2	632.7	683.6
17.5°	729.3	700.5	667.3	603.2	586.2	521.3	444.6	409.2	391.5	399.7	416.6
20°	512.5	501.4	505.1	470.4	446.1	384.2	339.2	325.2	322.2	330.3	338.5
22.5°	424.7	404.8	402.6	387.1	362.8	317.8	293.5	285.4	281.7	289.1	295.0
25°	371.6	351.7	343.6	334.0	308.2	277.3	262.5	255.1	251.4	255.9	259.6
27.5°	327.4	309.0	301.6	295.0	269.9	247.8	236.0	229.3	226.4	227.9	231.5
30°	294.2	278.0	268.4	260.3	238.9	223.4	213.1	206.5	203.5	203.5	207.2
32.5°	259.6	250.7	241.9	231.5	211.6	201.3	191.0	183.6	180.7	181.4	184.3
35°	216.1	213.1	215.3	205.7	188.8	179.9	169.6	161.5	159.3	160.0	163.0
37.5°	191.7	178.4	186.6	181.4	171.8	160.0	146.7	139.4	135.7	137.9	139.4
40°	176.2	160.0	154.1	159.3	157.8	138.6	126.8	119.5	116.5	117.2	118.7
42.5°	163.0	143.8	130.5	129.8	138.6	120.9	108.4	101.8	98.1	98.1	99.5
45°	150.4	129.8	113.6	101.0	116.5	102.5	90.7	84.8	80.4	80.4	81.1
47.5°	140.8	118.0	98.8	82.6	87.7	84.1	74.5	68.6	64.2	64.2	64.9
50°	132.0	106.2	85.5	69.3	65.6	69.3	60.5	53.8	50.9	50.1	51.6
52.5°	122.4	94.4	73.0	59.0	51.6	52.4	47.2	42.8	39.1	39.1	40.6
55°	112.8	84.8	63.4	50.1	42.8	39.1	37.6	34.7	31.7	31.7	33.2
57.5°	103.2	74.5	53.8	41.3	33.9	31.0	31.0	28.8	26.5	26.5	28.0
60°	94.4	64.2	44.2	33.9	26.5	25.8	26.5	24.3	22.9	22.9	24.3
62.5°	84.1	54.6	36.1	28.0	21.4	20.6	22.9	21.4	19.9	19.9	21.4
65°	71.5	46.5	28.8	21.4	16.2	16.2	19.2	17.7	16.2	16.2	17.7
67.5°	60.5	39.1	22.1	15.5	11.8	12.5	16.2	14.7	14.0	14.0	15.5
70°	50.1	30.2	15.5	9.6	6.6	9.6	12.5	12.5	12.5	12.5	14.0
72.5°	37.6	20.6	8.8	3.7	2.9	6.6	10.3	11.8	11.1	11.1	13.3
75°	24.3	11.8	2.9	0.0	0.0	3.7	8.1	9.6	9.6	8.8	11.1
77.5°	14.0	3.7	0.0	0.0	0.0	0.0	5.2	4.4	3.7	2.9	5.2
80°	3.7	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: P324279

CATALOG NUMBER: GLEON-SA5B-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5222.1	5222.1	5222.1	5222.1	5222.1	5222.1	5222.1	5222.1	5222.1	5222.1
2.5°	4601.3	4688.3	4810.7	4940.4	5140.3	5298.8	5454.4	5587.9	5639.5	5660.9
5°	3641.9	3769.5	3948.7	4178.7	4539.3	4863.8	5192.6	5523.7	5667.5	5703.6
7.5°	2613.3	2776.2	3004.1	3292.4	3714.9	4135.2	4594.6	5080.5	5303.2	5359.3
10°	1934.1	2133.2	2394.3	2698.1	3101.4	3533.5	4034.2	4589.5	4843.9	4918.3
12.5°	1372.3	1641.4	1990.9	2360.4	2709.9	3095.5	3602.1	4214.1	4481.1	4561.4
15°	806.0	1066.3	1479.9	1974.7	2422.3	2813.1	3327.8	4021.7	4315.9	4397.0
17.5°	462.3	592.1	904.8	1456.3	2063.9	2605.2	3241.5	4069.6	4416.2	4491.4
20°	353.2	394.5	521.3	937.9	1645.1	2400.9	3241.5	4341.0	4767.9	4878.5
22.5°	309.0	339.2	390.8	559.7	1210.8	2181.9	3279.1	4733.2	5291.4	5413.8
25°	274.3	301.6	345.8	421.0	825.9	1921.6	3368.4	5214.8	5907.9	6066.4
27.5°	245.5	271.4	311.2	368.7	564.8	1607.5	3488.5	5779.6	6587.8	6714.6
30°	219.7	244.1	280.2	320.8	435.8	1251.3	3591.0	6312.0	7121.6	7258.0
32.5°	195.4	217.5	250.0	280.2	356.9	925.4	3602.1	6733.8	7564.8	7700.5
35°	172.5	192.5	222.0	245.5	295.7	730.7	3430.3	7099.5	8007.9	8187.1
37.5°	150.4	169.6	195.4	213.1	260.3	595.8	3167.8	7507.3	8576.5	8742.4
40°	129.8	146.7	173.3	185.1	246.3	457.9	2882.4	7934.9	9133.9	9285.8
42.5°	110.6	126.8	152.6	175.5	216.1	342.1	2574.2	8336.1	9635.3	9794.6
45°	92.2	109.1	134.9	185.8	179.2	255.9	2244.6	8602.3	10031.3	10204.6
47.5°	74.5	93.6	129.0	177.0	143.1	188.0	1983.6	8854.5	10331.4	10502.5
50°	59.7	78.9	145.3	157.8	117.2	143.8	1874.4	9080.1	10528.3	10692.8
52.5°	48.7	66.4	137.2	120.9	98.1	118.7	1933.4	9445.8	10710.4	10813.7
55°	40.6	52.4	82.6	84.1	83.3	101.0	2006.4	9970.9	11181.6	11230.3
57.5°	35.4	42.0	57.5	64.9	70.1	90.0	2007.9	10724.5	11910.9	11941.1
60°	30.2	36.9	47.9	52.4	60.5	80.4	1934.9	10987.7	12197.7	12298.0
62.5°	26.5	32.4	39.8	43.5	50.9	72.3	1763.8	10606.5	11804.0	11974.3
65°	23.6	29.5	33.2	36.9	45.0	64.9	1482.1	9844.0	11150.7	11328.4
67.5°	20.6	25.8	29.5	33.2	40.6	57.5	1091.3	8958.4	10400.7	10548.2
70°	18.4	22.9	26.5	29.5	35.4	48.7	662.2	7601.7	9364.0	9425.2
72.5°	17.7	20.6	24.3	26.5	31.0	42.8	335.5	5586.4	7485.9	7585.4
75°	15.5	18.4	22.1	23.6	27.3	36.9	136.4	3669.2	5424.9	5584.9
77.5°	12.5	17.0	19.9	21.4	23.6	30.2	69.3	2344.9	3807.1	3910.3
80°	4.4	12.5	17.0	17.7	19.9	22.1	45.7	1283.8	2208.5	2252.7
82.5°	0.0	8.1	13.3	12.5	14.0	17.0	29.5	610.6	1457.8	1474.0
85°	0.0	3.7	10.3	8.1	5.9	11.8	10.3	133.5	764.7	796.4
87.5°	0.0	0.0	0.7	3.7	2.9	4.4	1.5	0.7	69.3	87.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)