

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: P383674

Luminaire Tested: **GLEON-SA9C-735-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383674
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-SA9C-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 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: 43668.1 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

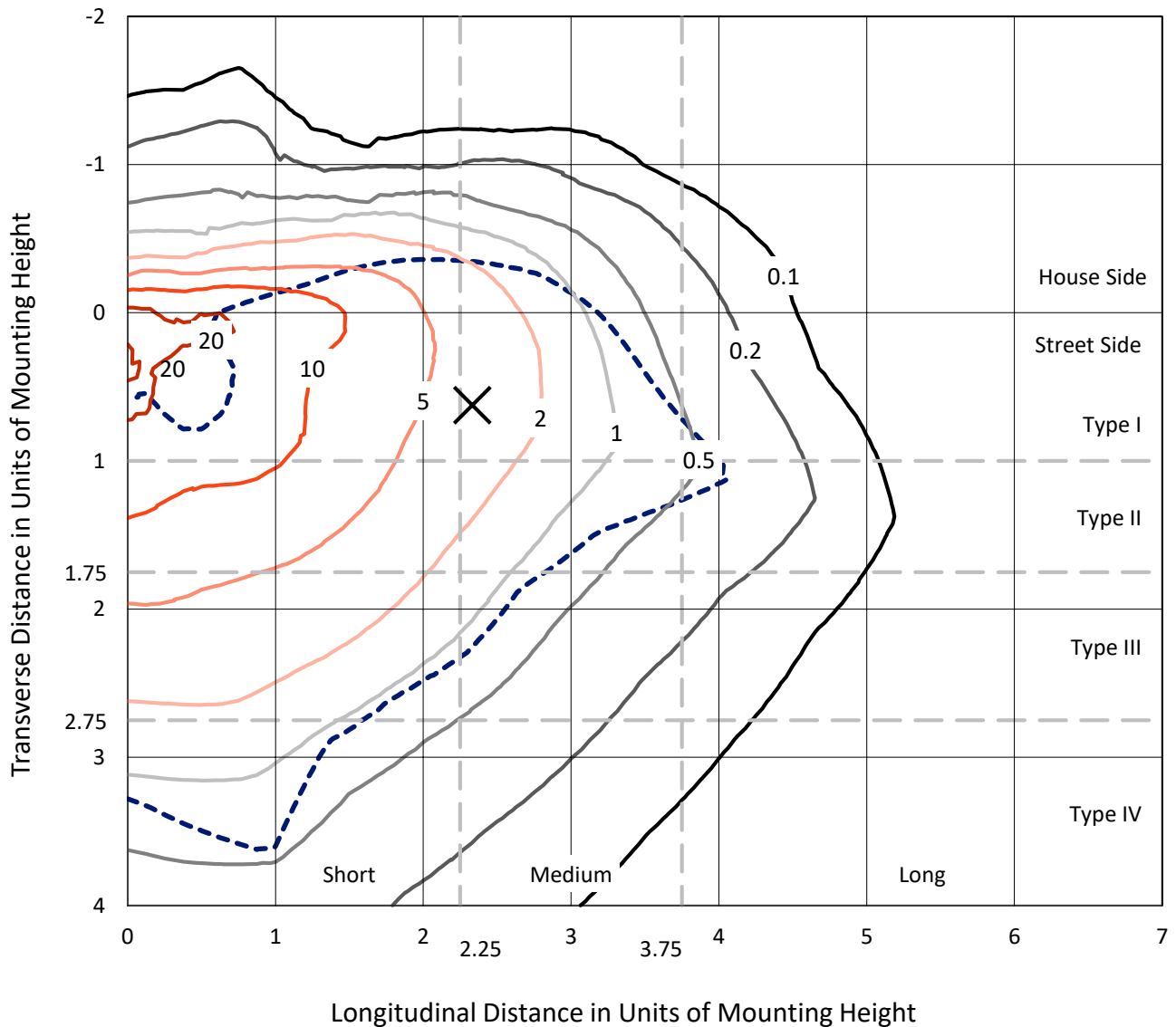
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

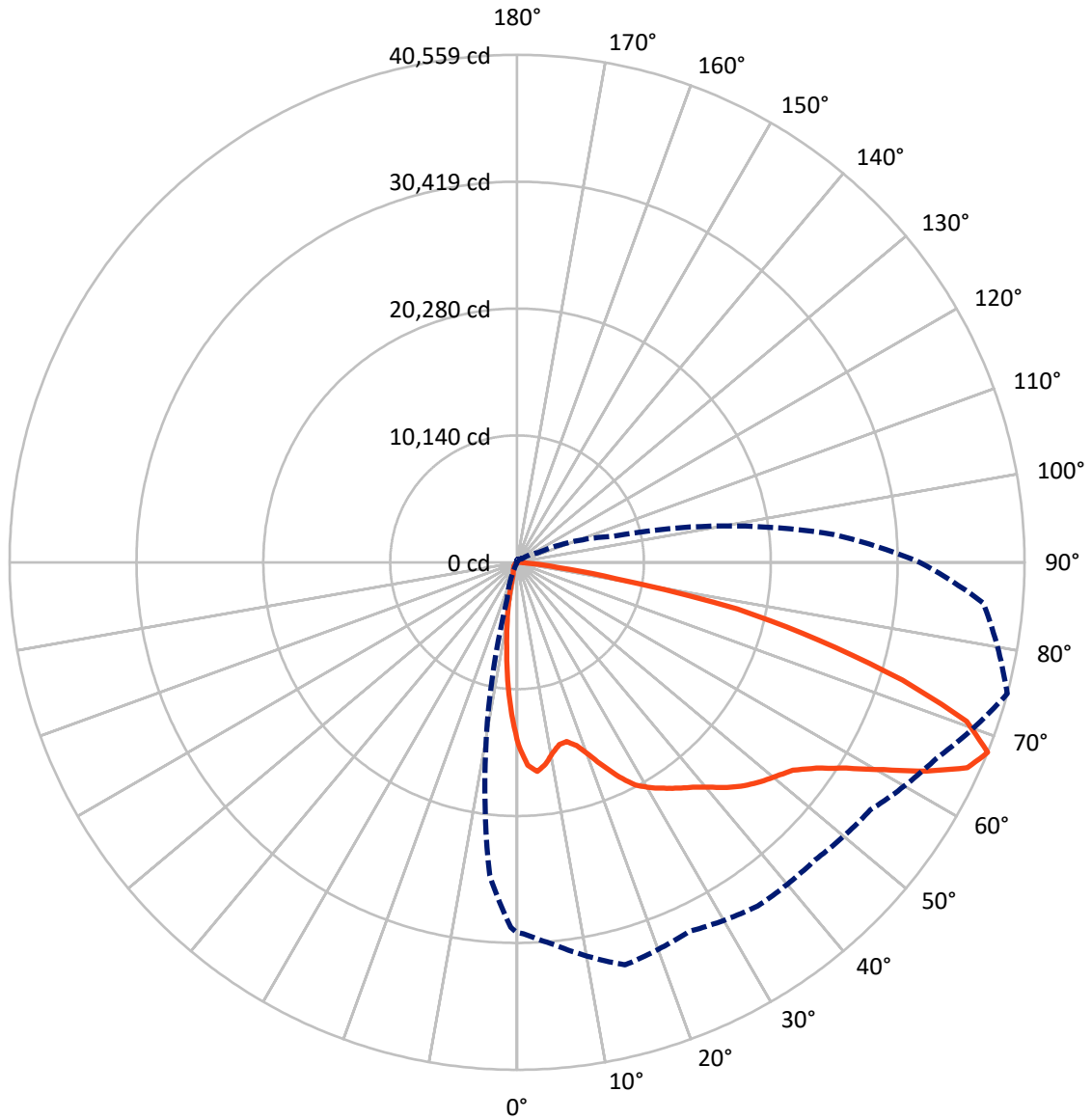
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 30.4 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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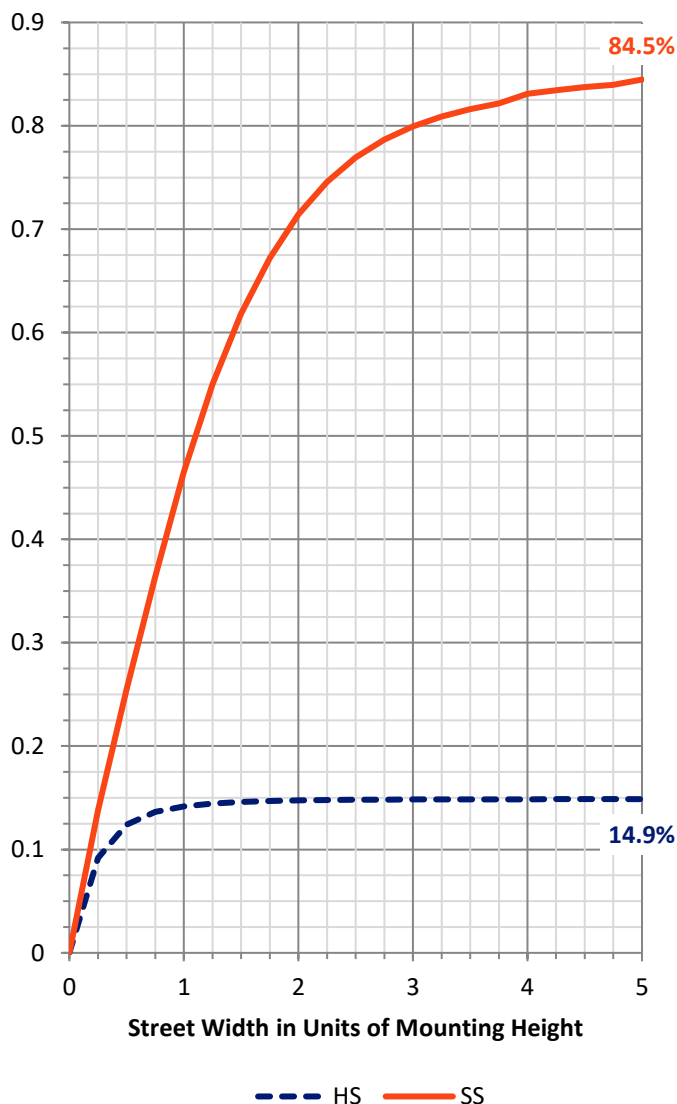
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6552.9	0.0	6552.9
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	37115.3	0.0	37115.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	43668.1	0.0	43668.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1111.3	2.5
10°-20°	2188.1	5.0
20°-30°	3095.5	7.1
30°-40°	4551.3	10.4
40°-50°	6541.7	15.0
50°-60°	9209.0	21.1
60°-70°	10755.3	24.6
70°-80°	5487.0	12.6
80°-90°	728.9	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°	43668.1	100.0
0°-180°	43668.1	100.0

Coefficient of Utilization

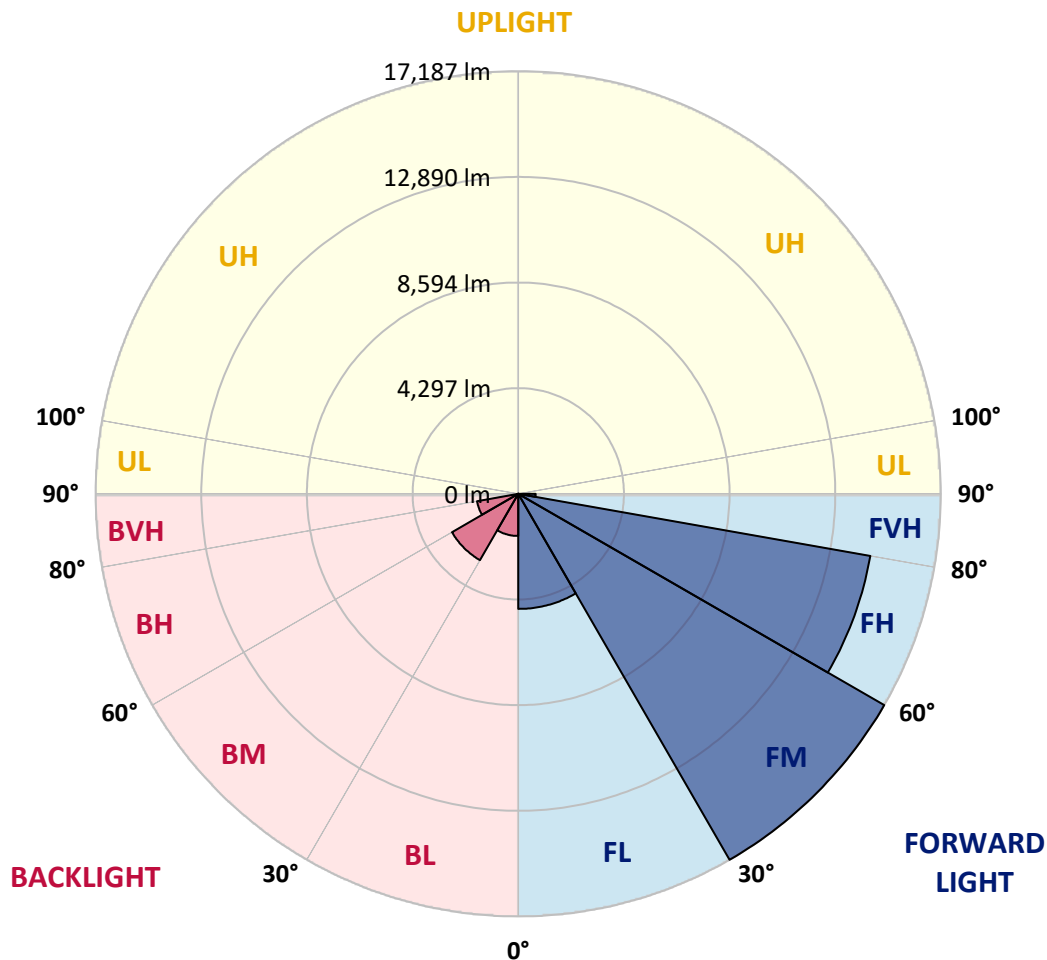


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4681.2	10.7			
FM (30°-60°)	17187.0	39.4			
FH (60°-80°)	14540.2	33.3			G5
FVH (80°-90°)	706.8	1.6			G4/750
BL (0°-30°)	1713.7	3.9	B3/2500		
BM (30°-60°)	3115.0	7.1	B3/5000		
BH (60°-80°)	1702.1	3.9	B3/2500		G3/2500
BVH (80°-90°)	22.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14649.9	14649.9	14649.9	14649.9	14649.9	14649.9	14649.9	14649.9	14649.9	14649.9	14649.9
2.5°	15880.7	15905.5	16033.8	16331.7	16656.4	16681.3	16900.6	16675.1	16598.6	16234.5	15858.0
5°	16000.7	16095.8	16536.5	17411.6	18170.7	18414.8	18588.6	18145.9	17680.4	16791.0	15841.4
7.5°	15034.7	15194.0	15887.0	17529.4	18886.5	19486.3	19600.1	18907.2	17767.3	16302.7	14875.4
10°	13797.6	13979.7	14815.4	16834.4	18698.2	19726.3	19883.5	18975.3	17337.0	15512.5	13830.8
12.5°	12796.5	13009.5	13863.9	16052.4	18050.7	19188.5	19498.8	18745.8	16964.7	14951.9	13117.1
15°	12335.2	12579.2	13477.0	15547.7	17332.9	18228.6	18485.2	18160.3	16757.8	14863.0	12951.6
17.5°	12599.9	12864.7	13791.5	15591.1	16658.6	17041.3	17248.1	17380.5	16757.8	15398.8	13435.6
20°	13685.9	13971.4	14951.9	16031.7	16100.0	15957.3	16178.7	16644.1	16952.3	16416.5	14598.2
22.5°	15187.8	15522.8	16629.6	16786.8	15827.0	15287.1	15316.0	16046.3	17306.0	17707.3	16211.7
25°	17018.4	17428.0	18553.4	17912.1	15940.7	14887.8	14877.5	15553.9	17651.5	19000.2	18009.3
27.5°	18836.8	19287.8	20276.5	19285.6	16410.3	14815.4	14794.7	15405.0	17988.6	20150.4	19972.5
30°	20361.4	20799.9	21652.1	20280.7	16917.1	14985.1	14885.8	15564.2	18189.3	20897.1	21404.0
32.5°	21602.5	21954.2	22643.0	20965.4	17459.1	15314.0	15098.8	15990.4	18530.6	21528.1	22719.6
35°	22967.8	23338.1	23613.2	21617.0	18067.3	15787.7	15479.4	16666.8	19056.1	22169.3	24161.4
37.5°	24525.5	24893.7	24860.6	22212.8	18838.9	16571.7	16375.1	17738.3	19873.2	22804.4	25770.8
40°	26050.1	26426.5	26157.6	22864.4	19744.9	17864.6	17719.7	19347.8	20967.5	23617.3	27657.4
42.5°	27477.4	27884.9	27309.8	23480.9	20824.7	19494.6	19742.8	21420.5	22336.9	24618.6	29283.3
45°	28627.6	29043.3	28275.9	24080.7	21962.4	21472.2	22219.0	23716.6	23983.5	25464.6	30381.7
47.5°	29463.3	29856.3	28946.1	24680.6	23418.7	23890.4	25191.6	26124.5	25470.8	26199.0	31161.6
50°	29997.0	30303.2	29142.6	25431.5	25330.2	26712.0	28288.3	28743.4	26871.3	26861.0	32109.0
52.5°	30336.2	30474.8	29287.4	26215.5	27324.3	29783.9	31320.9	31463.6	28313.1	27589.1	33385.4
55°	31504.9	31616.7	30313.5	27165.0	28973.0	32475.1	34063.9	33931.4	29945.2	29014.4	34891.3
57.5°	33499.1	33617.0	32433.8	28530.3	30307.2	34138.3	36051.8	36289.6	31858.7	31016.8	36504.8
60°	34500.3	34719.6	34297.6	30259.6	31600.1	35201.6	37406.8	38165.9	34250.0	33656.3	38068.7
62.5°	33592.3	33910.8	34523.1	32177.2	32884.7	35787.0	37828.8	38838.2	36699.2	36732.4	39032.7
65°	31780.1	32034.5	33073.0	33228.1	33629.4	35714.6	36786.2	37899.1	38199.0	39558.1	38981.0
67.5°	29591.5	29686.7	30567.9	33310.8	32549.7	33538.4	33654.3	34477.6	37013.7	40559.3	37415.1
70°	26441.0	26492.7	27262.3	30541.0	27971.8	28189.0	28017.3	28184.8	31821.5	38120.4	33461.9
72.5°	21279.8	21410.1	22504.4	25363.2	20377.9	19751.1	21099.8	21025.4	24506.9	32206.2	24852.3
75°	15667.7	15893.1	17546.0	20429.6	14302.4	12937.1	13921.8	14184.5	17421.9	24912.3	15541.5
77.5°	10969.8	11137.4	12738.5	15018.1	10351.4	9250.8	8895.1	9207.4	11499.4	18021.7	7829.7
80°	6319.6	6381.7	7403.6	8671.6	6975.3	7980.8	7229.8	7444.9	6890.6	8017.9	3367.7
82.5°	4135.1	4145.5	4544.7	5161.1	4344.1	5047.4	3735.9	4776.4	4238.6	3220.8	1096.3
85°	2234.1	2246.5	2635.4	3663.5	2459.6	1390.1	817.1	1677.6	2620.9	738.5	300.0
87.5°	246.2	225.4	794.3	1332.2	682.6	126.2	43.4	188.3	419.9	47.6	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°	14649.9	14649.9	14649.9	14649.9	14649.9	14649.9	14649.9	14649.9	14649.9	14649.9	14649.9
2.5°	15665.6	15493.9	15065.7	14612.7	14248.6	13907.3	13563.9	13144.0	12819.2	12753.0	12645.5
5°	15330.5	14786.5	13888.6	12986.8	12260.7	11344.3	10763.0	10310.0	9867.3	9840.4	9751.4
7.5°	14159.6	13443.9	12180.0	10932.6	9910.7	9037.8	8156.5	7567.0	7103.6	6940.2	6843.0
10°	13034.3	12229.6	10651.3	9228.1	8315.8	7544.2	6923.6	6307.2	5748.7	5363.9	5190.1
12.5°	12248.3	11358.7	9619.1	8392.4	7738.6	7006.4	6249.3	5479.7	4836.4	4373.1	4089.7
15°	11944.2	10994.7	9273.6	8061.4	7254.6	6327.9	5359.8	4480.7	3766.9	3347.1	3092.6
17.5°	12306.2	11201.6	9246.7	7658.0	6530.6	5378.4	4309.0	3270.5	2598.2	2279.6	2116.2
20°	13224.6	11859.3	9236.4	7163.6	5670.1	4253.1	2918.8	2151.3	1743.9	1565.9	1489.4
22.5°	14523.8	12699.2	9319.1	6675.4	4774.4	3038.8	2014.8	1580.5	1371.5	1276.3	1232.9
25°	16195.1	13878.3	9552.8	6232.7	3932.4	2267.2	1570.1	1323.9	1177.0	1102.6	1071.6
27.5°	17976.3	15235.4	9917.0	5848.0	3247.7	1807.9	1344.6	1133.6	1028.1	976.4	947.4
30°	19444.9	16807.4	10285.1	5419.7	2751.2	1576.3	1230.9	1034.3	912.3	879.2	852.3
32.5°	20729.5	17996.9	10545.8	5033.0	2426.5	1400.5	1112.9	924.7	841.9	777.8	748.9
35°	22059.7	18987.8	10537.5	4762.0	2203.1	1268.0	1013.6	827.4	728.2	653.7	630.9
37.5°	23499.4	20106.9	10357.5	4530.3	2105.9	1162.6	957.7	775.7	676.4	602.0	573.0
40°	25185.4	21281.9	10173.4	4313.1	2078.9	1077.7	918.5	734.3	628.9	556.4	527.5
42.5°	26827.8	22341.0	10012.1	4151.7	1963.1	1075.7	883.3	703.3	591.6	521.3	488.2
45°	28141.4	23327.7	9981.1	4054.5	1841.1	1112.9	864.7	682.6	562.7	492.3	461.3
47.5°	29233.6	24399.3	10179.7	3986.2	1725.2	1015.7	910.2	668.2	535.7	467.5	432.3
50°	30532.8	25714.9	10647.1	3874.5	1603.2	914.3	1042.6	672.3	513.0	442.7	405.4
52.5°	32344.8	27535.3	11334.0	3686.2	1435.6	821.3	1026.0	676.4	488.2	415.7	378.6
55°	34376.2	29808.7	12072.4	3373.9	1201.9	699.2	879.2	647.5	440.6	386.9	351.7
57.5°	36511.0	31871.1	12511.0	3001.5	955.7	604.0	703.3	589.6	388.9	347.6	324.7
60°	36846.2	32655.1	12310.3	2544.4	759.2	525.4	521.3	599.9	347.6	306.2	289.6
62.5°	36012.5	31670.5	11340.1	2136.9	635.0	461.3	428.2	523.3	314.4	273.0	256.5
65°	34409.3	29008.2	9768.0	1925.9	589.6	395.1	355.8	368.2	275.1	237.9	223.4
67.5°	32179.4	25454.3	8020.0	1805.9	583.3	339.3	304.1	279.3	237.9	206.9	194.4
70°	27620.1	21205.4	6398.2	1739.7	566.8	285.4	256.5	227.6	198.6	175.9	165.4
72.5°	20328.2	15026.4	4977.1	1667.3	570.9	227.6	223.4	188.3	159.3	136.6	132.4
75°	11745.6	8584.8	3264.2	1350.8	544.0	175.9	186.2	132.4	111.7	95.1	95.1
77.5°	6259.6	5235.7	1243.2	562.7	198.6	111.7	105.5	78.6	70.3	57.9	55.9
80°	2728.5	2304.5	374.4	157.2	109.6	60.0	39.3	35.2	31.0	24.8	22.7
82.5°	966.0	833.6	122.0	76.6	47.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	219.3	157.2	0.0	18.6	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°	14649.9	14649.9	14649.9	14649.9	14649.9	14649.9	14649.9	14649.9	14649.9	14649.9	14649.9
2.5°	12426.2	12380.6	12111.7	12122.0	12169.6	12237.9	12076.6	12151.0	12351.7	12544.0	12616.5
5°	9608.7	9619.1	9455.7	9557.0	9648.0	9710.1	9449.4	9453.5	9612.8	9830.1	9943.8
7.5°	6770.6	6754.0	6762.3	7004.3	7176.0	7051.9	7149.2	6811.9	6832.6	6987.8	6871.9
10°	5033.0	4805.4	4677.1	4859.1	5047.4	4979.1	4811.6	4702.0	4778.5	4950.2	4937.8
12.5°	3955.2	3628.4	3436.0	3305.7	3460.8	3332.5	3328.4	3233.2	3129.8	3148.4	3423.5
15°	2974.7	2736.8	2509.2	2300.3	2296.2	2252.8	2031.3	1783.2	1762.5	1774.9	1917.6
17.5°	2045.9	1965.2	1872.1	1692.2	1644.6	1462.5	1247.3	1148.0	1098.4	1121.2	1168.8
20°	1437.7	1406.6	1417.0	1319.8	1251.5	1077.7	951.6	912.3	904.0	926.7	949.5
22.5°	1191.5	1135.6	1129.5	1086.0	1017.7	891.6	823.3	800.6	790.2	810.9	827.4
25°	1042.6	986.7	964.0	937.0	864.7	777.8	736.4	715.7	705.4	717.9	728.2
27.5°	918.5	866.7	846.0	827.4	757.1	695.0	662.0	643.3	635.0	639.2	649.6
30°	825.4	779.9	753.0	730.2	670.2	626.7	597.9	579.2	570.9	570.9	581.3
32.5°	728.2	703.3	678.5	649.6	593.7	564.7	535.7	515.1	506.9	508.9	517.2
35°	606.1	597.9	604.0	577.2	529.6	504.7	475.7	453.0	446.9	448.9	457.2
37.5°	537.9	500.6	523.3	508.9	482.0	448.9	411.7	391.0	380.6	386.9	391.0
40°	494.4	448.9	432.3	446.9	442.7	388.9	355.8	335.1	326.9	328.9	333.0
42.5°	457.2	403.4	366.1	364.0	388.9	339.3	304.1	285.4	275.1	275.1	279.3
45°	422.0	364.0	318.6	283.4	326.9	287.6	254.4	237.9	225.4	225.4	227.6
47.5°	395.1	331.0	277.2	231.7	246.2	235.9	208.9	192.4	180.0	180.0	182.0
50°	370.3	297.9	240.0	194.4	184.1	194.4	169.6	151.0	142.7	140.7	144.8
52.5°	343.4	264.7	204.8	165.4	144.8	146.9	132.4	120.0	109.6	109.6	113.7
55°	316.5	237.9	177.9	140.7	120.0	109.6	105.5	97.3	89.0	89.0	93.1
57.5°	289.6	208.9	151.0	115.9	95.1	86.9	86.9	80.7	74.4	74.4	78.6
60°	264.7	180.0	124.1	95.1	74.4	72.4	74.4	68.3	64.1	64.1	68.3
62.5°	235.9	153.1	101.4	78.6	60.0	57.9	64.1	60.0	55.9	55.9	60.0
65°	200.7	130.3	80.7	60.0	45.6	45.6	53.8	49.7	45.6	45.6	49.7
67.5°	169.6	109.6	62.0	43.4	33.1	35.2	45.6	41.4	39.3	39.3	43.4
70°	140.7	84.8	43.4	26.9	18.6	26.9	35.2	35.2	35.2	35.2	39.3
72.5°	105.5	57.9	24.8	10.3	8.3	18.6	29.0	33.1	31.0	31.0	37.3
75°	68.3	33.1	8.3	0.0	0.0	10.3	22.7	26.9	26.9	24.8	31.0
77.5°	39.3	10.3	0.0	0.0	0.0	0.0	14.4	12.4	10.3	8.3	14.4
80°	10.3	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: P383674

CATALOG NUMBER: GLEON-SA9C-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14649.9	14649.9	14649.9	14649.9	14649.9	14649.9	14649.9	14649.9	14649.9	14649.9
2.5°	12908.2	13152.2	13495.6	13859.8	14420.3	14865.1	15301.5	15676.0	15820.8	15880.7
5°	10216.8	10574.7	11077.4	11722.9	12734.3	13644.6	14567.2	15496.0	15899.4	16000.7
7.5°	7331.2	7788.3	8427.5	9236.4	10421.7	11600.7	12889.5	14252.8	14877.5	15034.7
10°	5426.0	5984.5	6716.8	7569.0	8700.6	9912.8	11317.4	12875.0	13588.8	13797.6
12.5°	3849.7	4604.7	5585.3	6621.6	7602.2	8684.1	10105.1	11822.1	12571.0	12796.5
15°	2261.0	2991.2	4151.7	5539.7	6795.4	7891.8	9335.7	11282.3	12107.6	12335.2
17.5°	1297.0	1661.1	2538.2	4085.5	5790.0	7308.5	9093.6	11416.7	12388.9	12599.9
20°	990.9	1106.7	1462.5	2631.2	4615.1	6735.4	9093.6	12177.9	13375.6	13685.9
22.5°	866.7	951.6	1096.3	1570.1	3396.7	6121.0	9199.1	13278.5	14844.4	15187.8
25°	769.6	846.0	970.2	1181.2	2316.9	5390.8	9449.4	14629.2	16573.7	17018.4
27.5°	688.9	761.3	873.0	1034.3	1584.6	4509.6	9786.7	16213.8	18481.0	18836.8
30°	616.4	684.7	786.0	899.9	1222.6	3510.4	10074.1	17707.3	19978.6	20361.4
32.5°	548.2	610.3	701.3	786.0	1001.2	2596.1	10105.1	18890.6	21221.9	21602.5
35°	484.0	539.9	622.6	688.9	829.5	2050.0	9623.2	19916.6	22465.1	22967.8
37.5°	422.0	475.7	548.2	597.9	730.2	1671.5	8886.8	21060.5	24060.0	24525.5
40°	364.0	411.7	486.1	519.2	690.9	1284.6	8086.2	22260.4	25623.9	26050.1
42.5°	310.3	355.8	428.2	492.3	606.1	959.9	7221.5	23385.7	27030.5	27477.4
45°	258.6	306.2	378.6	521.3	502.7	717.9	6296.9	24132.5	28141.4	28627.6
47.5°	208.9	262.7	362.0	496.4	401.3	527.5	5564.6	24839.9	28983.3	29463.3
50°	167.6	221.3	407.6	442.7	328.9	403.4	5258.4	25472.9	29535.6	29997.0
52.5°	136.6	186.2	384.7	339.3	275.1	333.0	5423.9	26498.9	30046.6	30336.2
55°	113.7	146.9	231.7	235.9	233.7	283.4	5628.7	27971.8	31368.5	31504.9
57.5°	99.3	117.9	161.3	182.0	196.6	252.4	5632.8	30085.9	33414.3	33499.1
60°	84.8	103.4	134.4	146.9	169.6	225.4	5428.0	30824.4	34219.0	34500.3
62.5°	74.4	91.0	111.7	122.0	142.7	202.7	4948.1	29754.9	33114.4	33592.3
65°	66.2	82.7	93.1	103.4	126.2	182.0	4157.9	27616.0	31281.6	31780.1
67.5°	57.9	72.4	82.7	93.1	113.7	161.3	3061.5	25131.6	29177.7	29591.5
70°	51.7	64.1	74.4	82.7	99.3	136.6	1857.6	21325.4	26269.4	26441.0
72.5°	49.7	57.9	68.3	74.4	86.9	120.0	941.2	15671.8	21000.5	21279.8
75°	43.4	51.7	62.0	66.2	76.6	103.4	382.7	10293.4	15218.8	15667.7
77.5°	35.2	47.6	55.9	60.0	66.2	84.8	194.4	6578.2	10680.3	10969.8
80°	12.4	35.2	47.6	49.7	55.9	62.0	128.3	3601.5	6195.5	6319.6
82.5°	0.0	22.7	37.3	35.2	39.3	47.6	82.7	1712.8	4089.7	4135.1
85°	0.0	10.3	29.0	22.7	16.6	33.1	29.0	374.4	2145.2	2234.1
87.5°	0.0	0.0	2.0	10.3	8.3	12.4	4.1	2.0	194.4	246.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)