

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: P383618

Luminaire Tested: **GLEON-SA9A-735-U-SLL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383618  
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-SA9A-735-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 615mA 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: 28772.7 lumens  
Efficiency: N/A  
Efficacy: 99.2 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

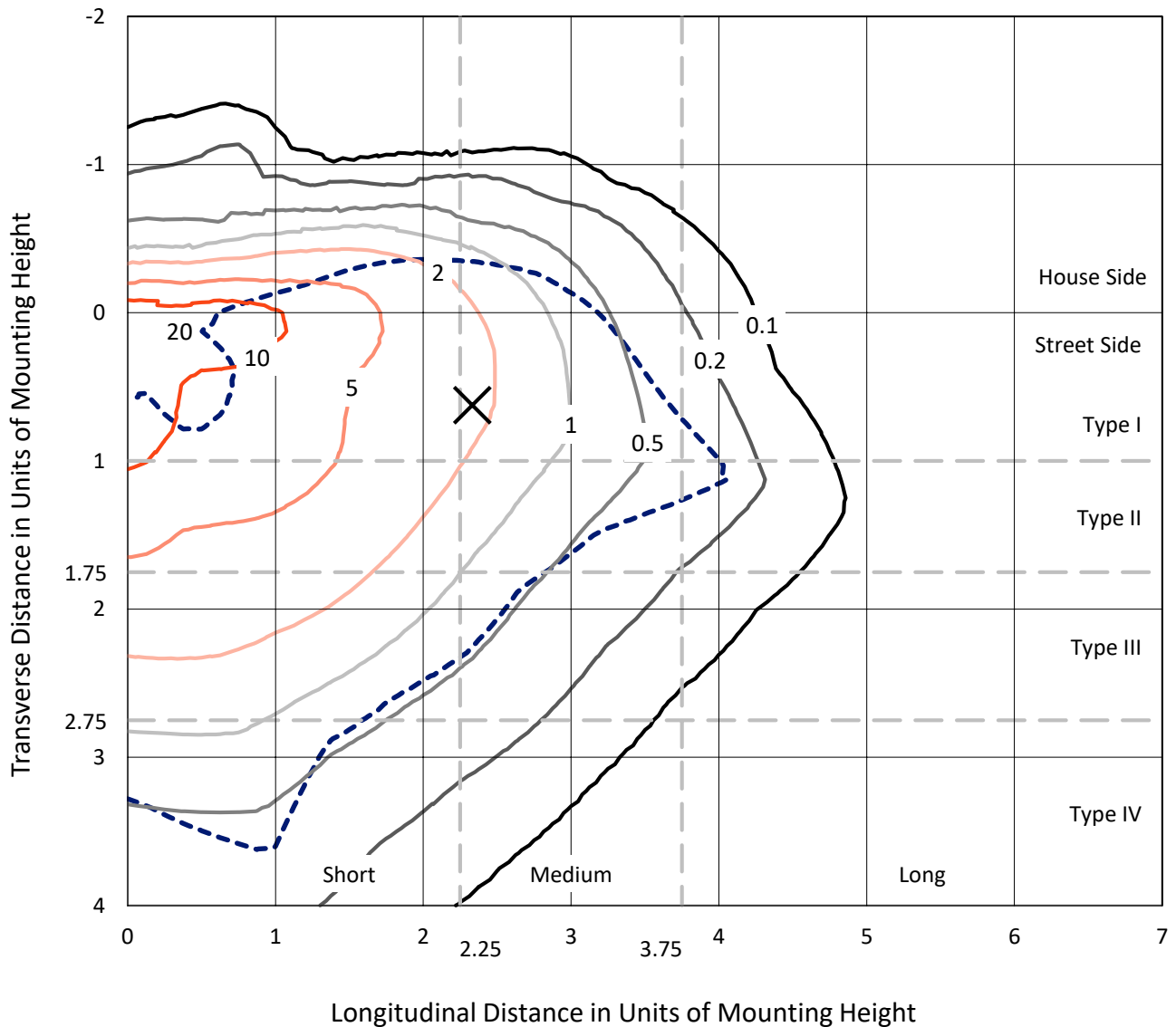
Input Watts (W): 290  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

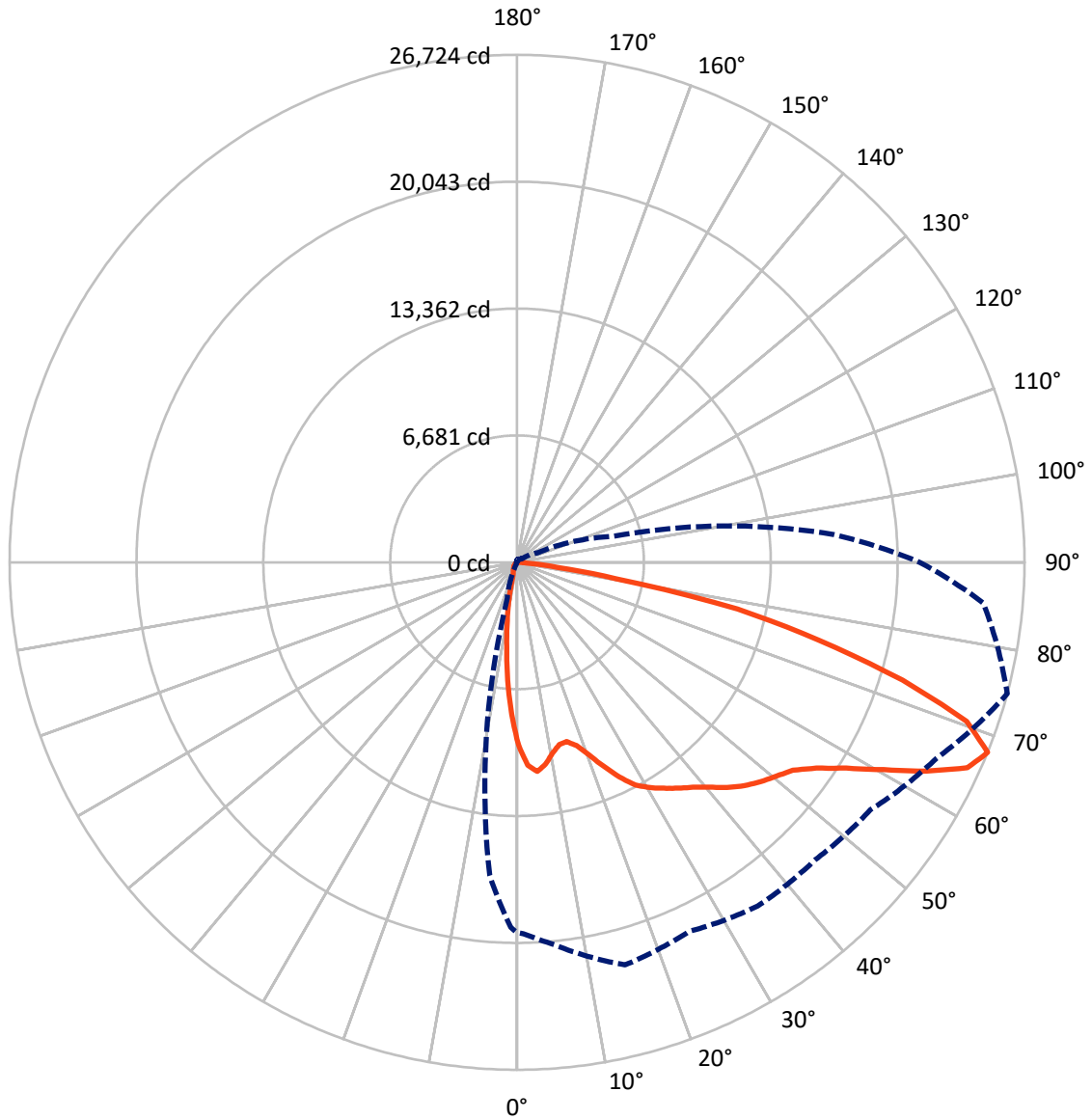
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20 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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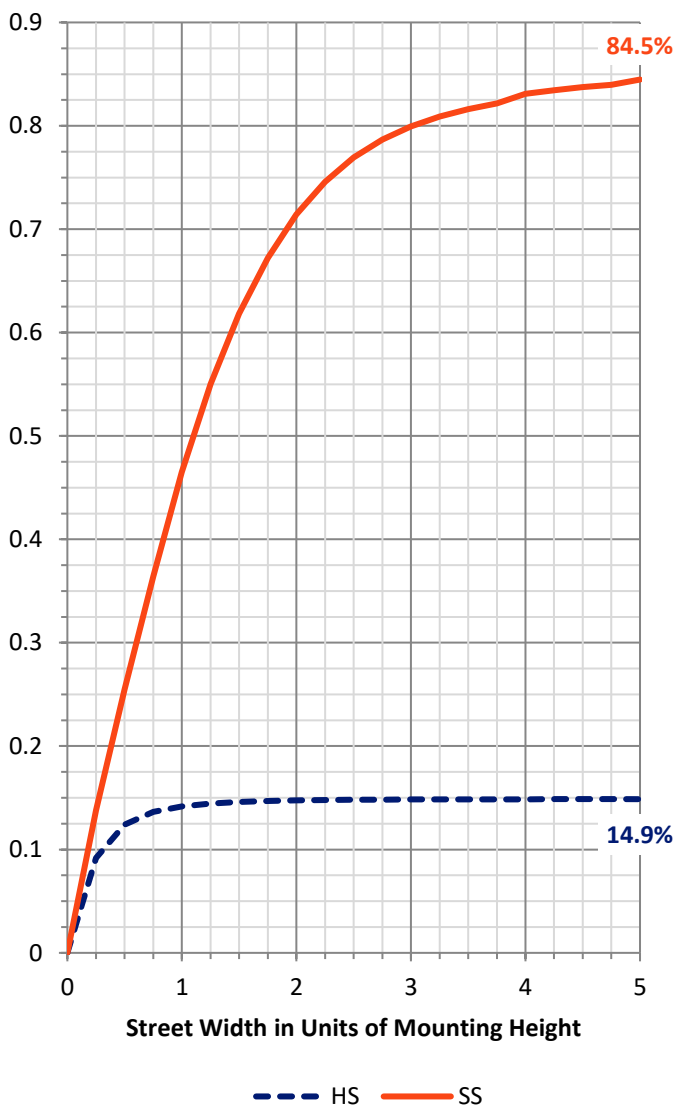
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4317.7	0.0	4317.7
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	24455.1	0.0	24455.1
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	28772.7	0.0	28772.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	732.2	2.5
10°-20°	1441.7	5.0
20°-30°	2039.6	7.1
30°-40°	2998.8	10.4
40°-50°	4310.3	15.0
50°-60°	6067.8	21.1
60°-70°	7086.6	24.6
70°-80°	3615.4	12.6
80°-90°	480.3	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°	28772.7	100.0
0°-180°	28772.7	100.0

**Coefficient of Utilization**

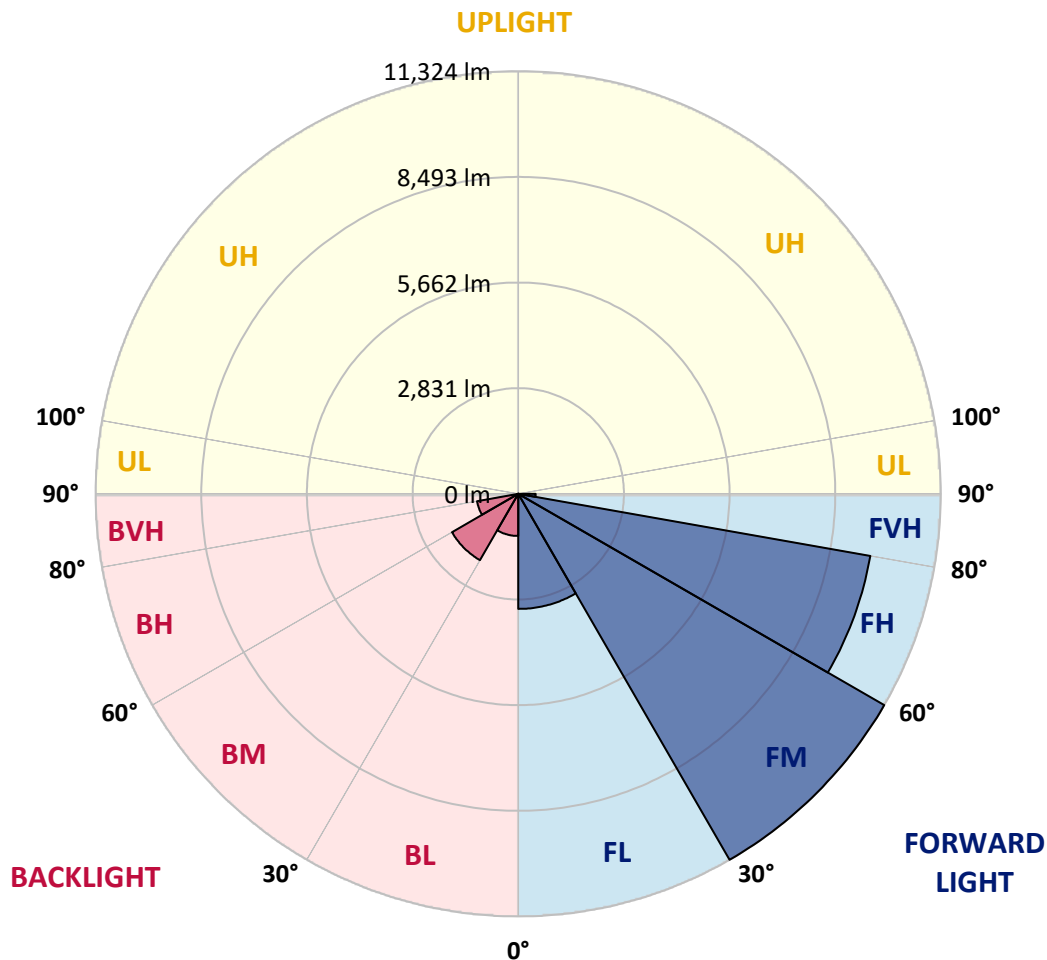


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3084.4	10.7			
FM (30°-60°)	11324.4	39.4			
FH (60°-80°)	9580.5	33.3			G4/12000
FVH (80°-90°)	465.7	1.6			G3/500
BL (0°-30°)	1129.1	3.9	B3/2500		
BM (30°-60°)	2052.5	7.1	B2/2500		
BH (60°-80°)	1121.5	3.9	B3/2500		G3/2500
BVH (80°-90°)	14.6	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-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9652.8	9652.8	9652.8	9652.8	9652.8	9652.8	9652.8	9652.8	9652.8	9652.8	9652.8
2.5°	10463.7	10480.1	10564.6	10760.9	10974.8	10991.2	11135.7	10987.1	10936.7	10696.8	10448.7
5°	10542.8	10605.5	10895.8	11472.4	11972.5	12133.4	12247.9	11956.2	11649.6	11063.4	10437.8
7.5°	9906.3	10011.2	10467.8	11550.1	12444.2	12839.4	12914.4	12457.8	11706.8	10741.8	9801.3
10°	9091.2	9211.1	9761.8	11092.1	12320.2	12997.5	13101.1	12502.8	11423.3	10221.1	9113.1
12.5°	8431.5	8571.9	9134.8	10576.9	11893.5	12643.2	12847.6	12351.5	11177.9	9851.8	8642.8
15°	8127.6	8288.4	8880.0	10244.3	11420.6	12010.7	12179.7	11965.7	11041.6	9793.2	8533.7
17.5°	8302.0	8476.5	9087.2	10272.9	10976.2	11228.4	11364.7	11451.9	11041.6	10146.1	8852.7
20°	9017.6	9205.6	9851.8	10563.2	10608.2	10514.2	10660.0	10966.6	11169.8	10816.8	9618.7
22.5°	10007.2	10227.9	10957.1	11060.7	10428.3	10072.5	10091.6	10572.8	11402.9	11667.3	10681.8
25°	11213.4	11483.3	12224.7	11802.2	10503.3	9809.5	9802.7	10248.4	11630.5	12519.2	11866.2
27.5°	12411.5	12708.6	13360.1	12707.2	10812.7	9761.8	9748.2	10150.2	11852.6	13277.0	13159.8
30°	13416.0	13704.9	14266.5	13362.9	11146.6	9873.6	9808.2	10255.2	11984.8	13769.0	14103.0
32.5°	14233.8	14465.5	14919.4	13814.0	11503.7	10090.2	9948.6	10536.0	12209.7	14184.7	14969.8
35°	15133.4	15377.3	15558.6	14243.4	11904.4	10402.4	10199.3	10981.6	12556.0	14607.2	15919.8
37.5°	16159.7	16402.3	16380.5	14635.9	12412.8	10918.9	10789.5	11687.7	13094.3	15025.7	16980.2
40°	17164.2	17412.3	17235.1	15065.2	13009.8	11770.8	11675.5	12748.1	13815.3	15561.3	18223.3
42.5°	18104.7	18373.2	17994.3	15471.4	13721.3	12844.9	13008.4	14113.9	14717.6	16221.0	19294.6
45°	18862.5	19136.5	18630.9	15866.7	14470.9	14147.9	14639.9	15626.8	15802.6	16778.5	20018.4
47.5°	19413.2	19672.1	19072.4	16261.9	15430.5	15741.3	16598.6	17213.3	16782.6	17262.4	20532.2
50°	19764.8	19966.6	19201.9	16756.7	16689.9	17600.4	18639.0	18938.8	17705.4	17698.6	21156.5
52.5°	19988.4	20079.7	19297.3	17273.3	18003.8	19624.4	20637.1	20731.2	18655.4	18178.3	21997.5
55°	20758.4	20832.1	19973.4	17898.8	19090.1	21397.7	22444.5	22357.2	19730.7	19117.4	22989.7
57.5°	22072.4	22150.1	21370.4	18798.4	19969.3	22493.5	23754.4	23911.1	20991.5	20436.8	24052.8
60°	22732.1	22876.6	22598.5	19937.9	20821.1	23194.1	24647.1	25147.3	22567.1	22176.0	25083.2
62.5°	22133.8	22343.6	22747.1	21201.5	21667.6	23579.9	24925.1	25590.3	24180.9	24202.7	25718.4
65°	20939.7	21107.4	21791.6	21893.9	22158.3	23532.2	24238.2	24971.5	25169.1	26064.6	25684.4
67.5°	19497.7	19560.4	20141.0	21948.4	21446.7	22098.3	22174.7	22717.1	24388.1	26724.3	24652.6
70°	17421.8	17455.9	17962.9	20123.3	18430.5	18573.6	18460.5	18570.9	20967.0	25117.3	22047.9
72.5°	14021.2	14107.0	14828.1	16711.7	13426.9	13013.9	13902.6	13853.5	16147.4	21220.6	16375.0
75°	10323.3	10471.9	11561.0	13461.0	9423.8	8524.2	9172.9	9346.1	11479.2	16414.6	10240.2
77.5°	7228.0	7338.4	8393.3	9895.4	6820.4	6095.3	5860.9	6066.7	7576.9	11874.4	5158.9
80°	4163.9	4204.8	4878.1	5713.6	4596.1	5258.5	4763.7	4905.4	4540.2	5283.0	2218.9
82.5°	2724.6	2731.5	2994.6	3400.7	2862.3	3325.7	2461.6	3147.1	2792.8	2122.2	722.4
85°	1472.0	1480.2	1736.5	2413.8	1620.6	915.9	538.3	1105.4	1726.9	486.5	197.7
87.5°	162.2	148.6	523.4	877.8	449.8	83.2	28.6	124.0	276.7	31.4	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°	9652.8	9652.8	9652.8	9652.8	9652.8	9652.8	9652.8	9652.8	9652.8	9652.8	9652.8
2.5°	10322.0	10208.8	9926.8	9628.2	9388.3	9163.4	8937.2	8660.5	8446.5	8402.8	8332.0
5°	10101.1	9742.7	9151.2	8556.9	8078.5	7474.6	7091.7	6793.2	6501.5	6483.8	6425.2
7.5°	9329.7	8858.1	8025.4	7203.5	6530.1	5954.9	5374.3	4985.8	4680.6	4572.9	4508.8
10°	8588.2	8058.1	7018.1	6080.3	5479.3	4970.8	4562.0	4155.8	3787.8	3534.3	3419.8
12.5°	8070.3	7484.2	6338.0	5529.7	5099.0	4616.5	4117.6	3610.6	3186.7	2881.4	2694.7
15°	7870.0	7244.4	6110.3	5311.6	4780.1	4169.4	3531.5	2952.3	2482.0	2205.3	2037.7
17.5°	8108.5	7380.7	6092.6	5045.8	4303.0	3543.8	2839.2	2154.9	1711.9	1502.0	1394.3
20°	8713.6	7814.1	6085.8	4720.1	3736.0	2802.3	1923.2	1417.5	1149.0	1031.8	981.4
22.5°	9569.6	8367.4	6140.3	4398.4	3145.8	2002.3	1327.5	1041.4	903.7	841.0	812.3
25°	10670.9	9144.4	6294.3	4106.7	2591.1	1493.8	1034.5	872.3	775.5	726.5	706.0
27.5°	11844.4	10038.5	6534.2	3853.2	2140.0	1191.3	886.0	746.9	677.4	643.3	624.2
30°	12812.2	11074.3	6776.8	3571.1	1812.8	1038.6	811.0	681.5	601.1	579.2	561.5
32.5°	13658.6	11858.0	6948.6	3316.2	1598.8	922.8	733.3	609.2	554.7	512.4	493.4
35°	14535.0	12511.0	6943.1	3137.6	1451.6	835.5	667.8	545.2	479.7	430.7	415.7
37.5°	15483.6	13248.4	6824.5	2985.0	1387.5	766.0	631.0	511.1	445.7	396.7	377.6
40°	16594.5	14022.5	6703.2	2841.9	1369.8	710.1	605.1	483.8	414.4	366.7	347.6
42.5°	17676.8	14720.4	6596.9	2735.6	1293.5	708.7	582.0	463.4	389.9	343.5	321.7
45°	18542.3	15370.5	6576.4	2671.5	1213.1	733.3	569.7	449.8	370.8	324.4	304.0
47.5°	19261.9	16076.6	6707.3	2626.5	1136.8	669.2	599.7	440.2	353.1	308.1	284.9
50°	20117.9	16943.5	7015.4	2552.9	1056.3	602.4	686.9	443.0	338.1	291.7	267.2
52.5°	21311.9	18142.8	7467.8	2428.8	945.9	541.1	676.0	445.7	321.7	274.0	249.5
55°	22650.3	19640.8	7954.5	2223.0	791.9	460.7	579.2	426.6	290.4	254.9	231.7
57.5°	24056.9	20999.7	8243.5	1977.7	629.7	398.0	463.4	388.5	256.3	229.0	214.0
60°	24277.7	21516.3	8111.2	1676.5	500.2	346.2	343.5	395.3	229.0	201.7	190.8
62.5°	23728.5	20867.5	7471.9	1407.9	418.5	304.0	282.2	344.9	207.2	179.9	169.0
65°	22672.1	19113.3	6436.1	1269.0	388.5	260.4	234.5	242.6	181.3	156.8	147.2
67.5°	21202.8	16771.7	5284.4	1189.9	384.4	223.6	200.4	184.0	156.8	136.3	128.1
70°	18198.7	13972.1	4215.7	1146.3	373.5	188.1	169.0	149.9	130.9	115.9	109.1
72.5°	13394.2	9900.9	3279.3	1098.6	376.2	149.9	147.2	124.0	105.0	90.0	87.2
75°	7739.1	5656.5	2150.9	890.0	358.5	115.9	122.7	87.2	73.6	62.7	62.7
77.5°	4124.4	3449.7	819.2	370.8	130.9	73.6	69.5	51.8	46.3	38.2	36.8
80°	1797.8	1518.4	246.7	103.6	72.2	39.5	25.9	23.2	20.4	16.4	15.0
82.5°	636.5	549.3	80.4	50.4	31.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	144.5	103.6	0.0	12.3	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°	9652.8	9652.8	9652.8	9652.8	9652.8	9652.8	9652.8	9652.8	9652.8	9652.8	9652.8
2.5°	8187.6	8157.6	7980.4	7987.2	8018.5	8063.5	7957.2	8006.3	8138.5	8265.2	8312.9
5°	6331.2	6338.0	6230.3	6297.1	6357.1	6397.9	6226.2	6228.9	6333.9	6477.0	6551.9
7.5°	4461.1	4450.2	4455.7	4615.1	4728.3	4646.5	4710.6	4488.4	4502.0	4604.2	4527.9
10°	3316.2	3166.2	3081.7	3201.6	3325.7	3280.7	3170.3	3098.1	3148.5	3261.6	3253.4
12.5°	2606.1	2390.7	2263.9	2178.1	2280.3	2195.8	2193.0	2130.4	2062.3	2074.5	2255.7
15°	1960.0	1803.3	1653.3	1515.6	1512.9	1484.3	1338.4	1174.9	1161.3	1169.5	1263.5
17.5°	1348.0	1294.9	1233.6	1115.0	1083.6	963.7	821.9	756.5	723.7	738.7	770.1
20°	947.3	926.8	933.7	869.6	824.6	710.1	627.0	601.1	595.6	610.6	625.6
22.5°	785.1	748.3	744.2	715.6	670.6	587.4	542.4	527.4	520.6	534.3	545.2
25°	686.9	650.1	635.1	617.4	569.7	512.4	485.2	471.6	464.7	472.9	479.7
27.5°	605.1	571.1	557.4	545.2	498.8	457.9	436.2	423.9	418.5	421.2	428.0
30°	543.8	513.8	496.1	481.1	441.6	413.0	394.0	381.7	376.2	376.2	383.0
32.5°	479.7	463.4	447.0	428.0	391.2	372.1	353.1	339.4	334.0	335.3	340.8
35°	399.4	394.0	398.0	380.3	349.0	332.6	313.5	298.5	294.4	295.8	301.3
37.5°	354.4	329.9	344.9	335.3	317.6	295.8	271.3	257.6	250.8	254.9	257.6
40°	325.8	295.8	284.9	294.4	291.7	256.3	234.5	220.8	215.4	216.7	219.5
42.5°	301.3	265.8	241.3	239.9	256.3	223.6	200.4	188.1	181.3	181.3	184.0
45°	278.1	239.9	209.9	186.8	215.4	189.5	167.7	156.8	148.6	148.6	149.9
47.5°	260.4	218.1	182.7	152.7	162.2	155.4	137.7	126.8	118.6	118.6	120.0
50°	244.0	196.3	158.1	128.1	121.3	128.1	111.8	99.5	94.1	92.7	95.4
52.5°	226.3	174.5	135.0	109.1	95.4	96.8	87.2	79.1	72.2	72.2	75.0
55°	208.6	156.8	117.2	92.7	79.1	72.2	69.5	64.1	58.6	58.6	61.3
57.5°	190.8	137.7	99.5	76.3	62.7	57.3	57.3	53.2	49.1	49.1	51.8
60°	174.5	118.6	81.8	62.7	49.1	47.7	49.1	45.0	42.3	42.3	45.0
62.5°	155.4	100.9	66.8	51.8	39.5	38.2	42.3	39.5	36.8	36.8	39.5
65°	132.2	85.9	53.2	39.5	30.0	30.0	35.4	32.7	30.0	30.0	32.7
67.5°	111.8	72.2	40.9	28.6	21.8	23.2	30.0	27.3	25.9	25.9	28.6
70°	92.7	55.9	28.6	17.7	12.3	17.7	23.2	23.2	23.2	23.2	25.9
72.5°	69.5	38.2	16.4	6.8	5.5	12.3	19.1	21.8	20.4	20.4	24.5
75°	45.0	21.8	5.5	0.0	0.0	6.8	15.0	17.7	17.7	16.4	20.4
77.5°	25.9	6.8	0.0	0.0	0.0	0.0	9.5	8.2	6.8	5.5	9.5
80°	6.8	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: P383618  
 CATALOG NUMBER: GLEON-SA9A-735-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9652.8	9652.8	9652.8	9652.8	9652.8	9652.8	9652.8	9652.8	9652.8	9652.8
2.5°	8505.1	8665.9	8892.2	9132.1	9501.5	9794.5	10082.1	10328.8	10424.2	10463.7
5°	6731.8	6967.6	7298.9	7724.1	8390.6	8990.4	9598.2	10210.2	10476.0	10542.8
7.5°	4830.4	5131.7	5552.9	6085.8	6866.8	7643.7	8492.8	9391.0	9802.7	9906.3
10°	3575.2	3943.1	4425.7	4987.2	5732.7	6531.5	7456.9	8483.3	8953.6	9091.2
12.5°	2536.5	3034.1	3680.1	4363.0	5009.0	5721.8	6658.2	7789.5	8282.9	8431.5
15°	1489.7	1970.9	2735.6	3650.1	4477.5	5199.8	6151.2	7433.7	7977.6	8127.6
17.5°	854.6	1094.5	1672.4	2691.9	3815.1	4815.4	5991.7	7522.3	8163.0	8302.0
20°	652.9	729.2	963.7	1733.7	3040.9	4437.9	5991.7	8024.0	8813.2	9017.6
22.5°	571.1	627.0	722.4	1034.5	2238.0	4033.1	6061.2	8749.1	9780.9	10007.2
25°	507.0	557.4	639.2	778.3	1526.5	3552.0	6226.2	9639.1	10920.3	11213.4
27.5°	453.8	501.5	575.2	681.5	1044.1	2971.4	6448.4	10683.2	12177.0	12411.5
30°	406.2	451.1	517.9	592.9	805.5	2313.0	6637.8	11667.3	13163.8	13416.0
32.5°	361.2	402.1	462.0	517.9	659.7	1710.6	6658.2	12446.9	13983.0	14233.8
35°	319.0	355.8	410.3	453.8	546.5	1350.7	6340.7	13123.0	14802.2	15133.4
37.5°	278.1	313.5	361.2	394.0	481.1	1101.3	5855.4	13876.7	15853.1	16159.7
40°	239.9	271.3	320.3	342.2	455.2	846.4	5328.0	14667.2	16883.5	17164.2
42.5°	204.5	234.5	282.2	324.4	399.4	632.4	4758.3	15408.7	17810.3	18104.7
45°	170.4	201.7	249.5	343.5	331.2	472.9	4148.9	15900.8	18542.3	18862.5
47.5°	137.7	173.1	238.6	327.2	264.5	347.6	3666.5	16366.9	19097.0	19413.2
50°	110.4	145.9	268.5	291.7	216.7	265.8	3464.7	16784.0	19460.9	19764.8
52.5°	90.0	122.7	253.5	223.6	181.3	219.5	3573.8	17460.0	19797.5	19988.4
55°	75.0	96.8	152.7	155.4	154.0	186.8	3708.7	18430.5	20668.5	20758.4
57.5°	65.4	77.7	106.3	120.0	129.5	166.3	3711.5	19823.4	22016.5	22072.4
60°	55.9	68.2	88.6	96.8	111.8	148.6	3576.5	20310.1	22546.7	22732.1
62.5°	49.1	60.0	73.6	80.4	94.1	133.6	3260.3	19605.4	21818.9	22133.8
65°	43.6	54.5	61.3	68.2	83.2	120.0	2739.6	18196.0	20611.2	20939.7
67.5°	38.2	47.7	54.5	61.3	75.0	106.3	2017.3	16559.1	19225.1	19497.7
70°	34.1	42.3	49.1	54.5	65.4	90.0	1224.0	14051.2	17308.7	17421.8
72.5°	32.7	38.2	45.0	49.1	57.3	79.1	620.1	10326.1	13837.1	14021.2
75°	28.6	34.1	40.9	43.6	50.4	68.2	252.2	6782.3	10027.6	10323.3
77.5°	23.2	31.4	36.8	39.5	43.6	55.9	128.1	4334.3	7037.2	7228.0
80°	8.2	23.2	31.4	32.7	36.8	40.9	84.5	2373.0	4082.1	4163.9
82.5°	0.0	15.0	24.5	23.2	25.9	31.4	54.5	1128.6	2694.7	2724.6
85°	0.0	6.8	19.1	15.0	10.9	21.8	19.1	246.7	1413.4	1472.0
87.5°	0.0	0.0	1.4	6.8	5.5	8.2	2.7	1.4	128.1	162.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)