

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: STREETWORKS

Report Number: P459455

Luminaire Tested: **GLAN-SA9A-735-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459455  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9A-735-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 615mA 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: 27735 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

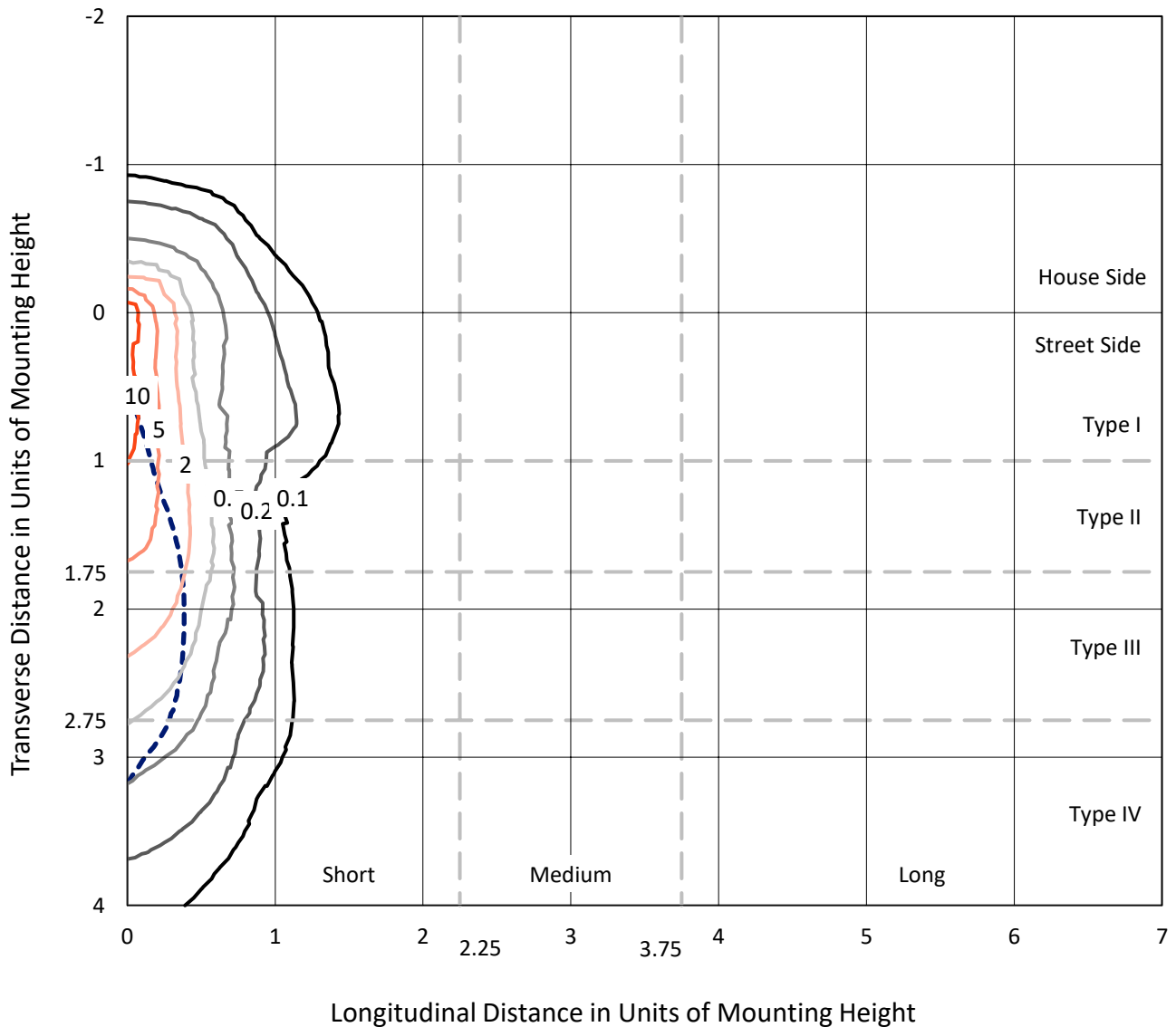
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

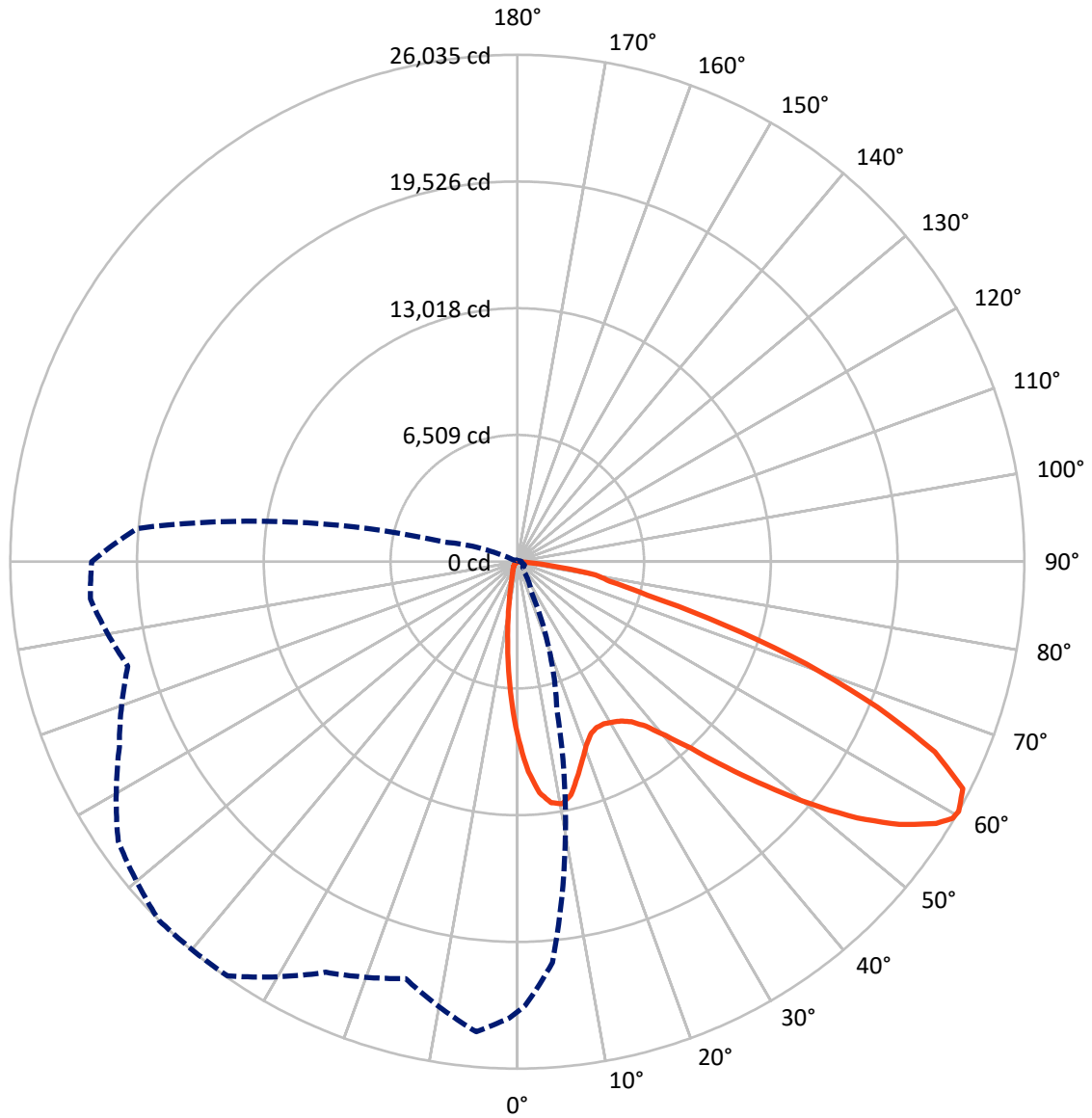
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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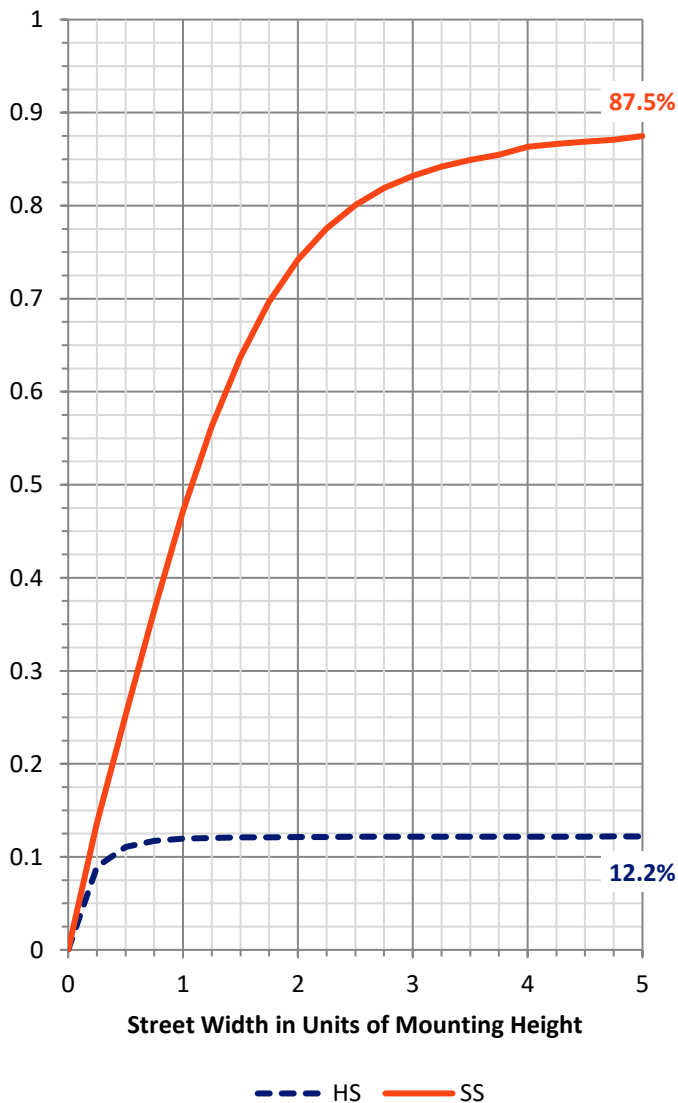
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3420.8	0.0	3420.8
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	24314.2	0.0	24314.2
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	27735.0	0.0	27735.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	681.8	2.5
10°-20°	1354.1	4.9
20°-30°	1985.4	7.2
30°-40°	2952.6	10.6
40°-50°	4297.0	15.5
50°-60°	6196.7	22.3
60°-70°	6815.7	24.6
70°-80°	3052.9	11.0
80°-90°	398.9	1.4
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°	27735.0	100.0
0°-180°	27735.0	100.0



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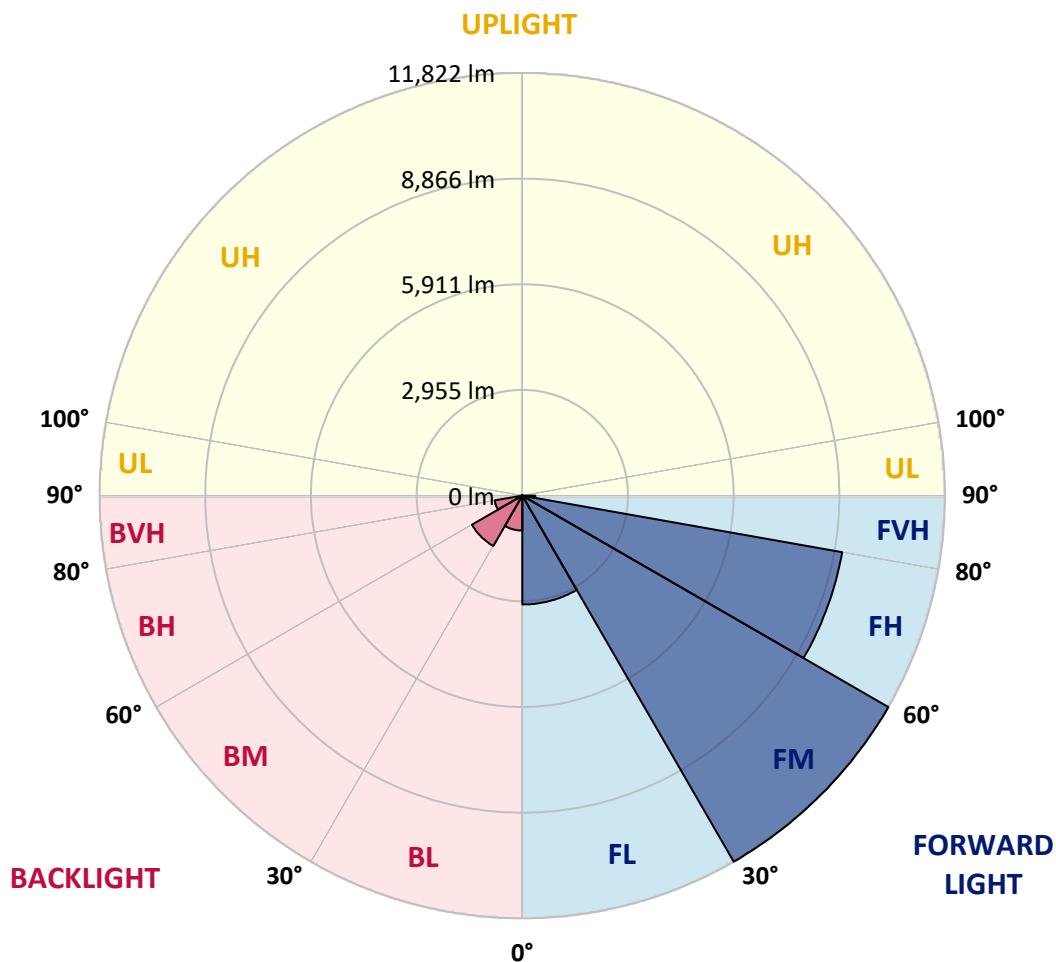
CATALOG NUMBER: GLAN-SA9A-735-U-SLR-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3043.8	11.0			
FM	(30°-60°)	11821.5	42.6			
FH	(60°-80°)	9084.0	32.8			G4/12000
FVH	(80°-90°)	364.8	1.3			G3/500
BL	(0°-30°)	977.4	3.5	B2/1000		
BM	(30°-60°)	1624.8	5.9	B2/2500		
BH	(60°-80°)	784.5	2.8	B2/1000		G2/1000
BVH	(80°-90°)	34.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9166.8	9166.8	9166.8	9166.8	9166.8	9166.8	9166.8	9166.8	9166.8	9166.8	9166.8
2.5°	10077.6	10033.3	9932.1	9624.3	9356.6	9006.6	8652.4	8374.1	8203.3	7889.2	7745.8
5°	9763.5	9784.5	9491.5	8859.0	8154.8	7674.1	7149.2	6731.7	6272.1	5981.2	5675.5
7.5°	8943.3	8901.2	8582.8	7701.6	6845.6	6149.9	5485.8	4946.0	4606.6	4334.6	4106.9
10°	8241.3	8209.7	7802.8	6668.5	5749.3	5228.5	4779.5	4307.2	3942.5	3544.0	3225.7
12.5°	7800.6	7729.0	7260.9	6076.1	5327.6	4842.7	4353.6	3862.4	3358.5	2955.8	2570.0
15°	7653.1	7549.8	7029.0	5871.6	5057.8	4442.2	3828.6	3263.6	2683.8	2239.0	1948.1
17.5°	7920.8	7750.0	7195.6	5835.7	4735.2	3919.3	3164.5	2428.7	1825.8	1486.3	1307.1
20°	8534.3	8338.3	7617.2	5799.9	4376.8	3333.2	2405.6	1716.1	1262.9	1077.3	978.2
22.5°	9445.1	9175.2	8241.3	5856.8	4045.8	2761.9	1737.2	1212.3	1003.5	887.6	818.0
25°	10539.3	10313.7	9031.9	6059.2	3784.4	2312.8	1343.0	990.9	845.4	773.7	721.0
27.5°	11738.9	11378.4	10054.4	6301.7	3546.1	1964.9	1178.5	885.5	752.7	687.3	659.9
30°	12592.8	12312.4	10910.4	6470.3	3248.9	1703.5	1077.3	872.8	754.8	676.8	626.2
32.5°	13436.1	13077.7	11627.2	6548.3	3031.7	1522.2	931.9	761.1	662.0	621.9	571.3
35°	14338.4	13963.2	12341.9	6506.2	2869.4	1402.0	845.4	678.9	567.1	499.7	449.1
37.5°	15251.3	14855.0	13052.4	6354.4	2768.2	1353.5	778.0	645.1	535.5	465.9	411.1
40°	16335.0	15805.8	13718.6	6230.0	2662.8	1328.2	733.7	624.1	512.3	438.5	383.7
42.5°	17220.5	16716.6	14349.0	6164.6	2591.1	1269.2	733.7	607.2	497.6	415.3	358.4
45°	18059.6	17536.7	15029.9	6217.3	2561.6	1195.4	742.1	605.1	487.0	398.5	341.5
47.5°	18761.6	18308.3	15729.9	6415.5	2523.6	1115.3	697.8	634.6	480.7	383.7	324.7
50°	19590.2	19151.6	16655.4	6816.1	2456.1	1035.2	643.0	683.1	478.6	371.1	309.9
52.5°	20758.2	20283.8	17933.1	7271.5	2348.6	912.9	592.4	676.8	470.1	350.0	295.2
55°	22185.5	21801.8	19413.1	7817.5	2201.0	775.8	512.3	600.9	444.8	314.1	269.9
57.5°	23100.5	22773.7	20522.0	8053.6	1975.5	634.6	451.2	503.9	406.9	280.4	240.3
59°	23208.0	22912.8	20753.9	7975.6	1827.9	579.8	421.7	432.2	396.4	261.4	223.5
60°	23117.3	22811.6	20661.2	7823.8	1690.8	541.8	396.4	383.7	398.5	250.9	210.8
62.5°	22535.4	22012.6	19760.9	7054.3	1477.9	497.6	352.1	314.1	352.1	225.6	187.6
65°	21411.7	20627.4	17979.4	5970.7	1393.6	472.3	299.4	263.5	267.8	198.2	162.3
67.5°	19448.9	18460.1	15607.6	4851.2	1357.7	474.4	253.0	236.1	206.6	168.7	143.4
70°	16345.5	15358.8	12523.2	3991.0	1340.9	474.4	215.0	202.4	172.9	141.3	124.4
72.5°	11582.9	10520.3	8447.9	3135.0	1208.0	472.3	183.4	183.4	141.3	118.1	101.2
75°	6544.1	6552.5	5310.8	2217.9	1003.5	390.0	147.6	145.5	103.3	90.7	75.9
77.5°	3813.9	3746.4	3579.9	952.9	465.9	177.1	103.3	88.5	71.7	65.4	54.8
80°	1960.7	1612.8	1570.7	345.8	166.6	111.7	71.7	50.6	46.4	42.2	37.9
82.5°	579.8	581.9	518.6	139.1	92.8	73.8	35.8	27.4	25.3	23.2	23.2
85°	40.1	25.3	29.5	42.2	56.9	29.5	2.1	6.3	6.3	8.4	10.5
87.5°	4.2	2.1	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°	9166.8	9166.8	9166.8	9166.8	9166.8	9166.8	9166.8	9166.8	9166.8	9166.8	9166.8
2.5°	7587.7	7680.5	7507.6	7511.8	7368.4	7414.8	7246.2	7301.0	7201.9	7277.8	7501.3
5°	5709.2	5730.3	5591.2	5546.9	5568.0	5654.4	5688.1	5534.2	5599.6	5471.0	5462.6
7.5°	4022.6	4047.9	3967.8	3957.2	4109.0	4073.2	4138.6	3980.4	3830.7	3896.1	3775.9
10°	3124.5	3019.1	2854.6	2808.2	2778.7	2797.7	2797.7	2654.3	2633.2	2576.3	2662.8
12.5°	2466.7	2338.1	2182.1	1971.2	1918.5	1914.3	1836.3	1709.8	1669.8	1621.3	1693.0
15°	1792.0	1739.3	1608.6	1490.6	1370.4	1347.2	1220.7	1117.4	980.4	961.4	955.1
17.5°	1260.8	1182.7	1180.6	1113.2	1043.6	997.2	879.2	761.1	708.4	702.1	702.1
20°	944.5	917.1	872.8	864.4	843.3	790.6	685.2	621.9	596.6	598.8	607.2
22.5°	794.8	775.8	735.8	716.8	708.4	662.0	584.0	541.8	529.2	529.2	531.3
25°	710.5	693.6	649.4	619.8	609.3	575.6	514.4	482.8	472.3	472.3	472.3
27.5°	647.2	626.2	579.8	554.5	535.5	497.6	459.6	428.0	417.4	417.4	419.5
30°	603.0	579.8	537.6	503.9	474.4	440.6	409.0	381.6	368.9	366.8	368.9
32.5°	543.9	522.9	480.7	459.6	425.9	385.8	360.5	335.2	322.6	324.7	322.6
35°	423.8	417.4	387.9	394.2	375.3	341.5	318.4	290.9	276.2	274.1	278.3
37.5°	385.8	360.5	326.8	328.9	322.6	309.9	272.0	242.5	231.9	231.9	234.0
40°	356.3	331.0	293.1	274.1	276.2	276.2	236.1	204.5	194.0	191.9	196.1
42.5°	331.0	305.7	263.5	231.9	223.5	234.0	200.3	168.7	158.1	153.9	158.1
45°	314.1	286.7	238.2	202.4	177.1	189.7	164.4	139.1	126.5	126.5	124.4
47.5°	297.3	272.0	219.3	175.0	147.6	141.3	134.9	111.7	99.1	97.0	99.1
50°	282.5	257.2	198.2	151.8	124.4	109.6	109.6	88.5	80.1	75.9	78.0
52.5°	267.8	240.3	179.2	134.9	107.5	88.5	78.0	71.7	65.4	63.2	65.4
55°	246.7	219.3	160.2	116.0	92.8	73.8	61.1	59.0	54.8	50.6	54.8
57.5°	221.4	196.1	141.3	99.1	73.8	56.9	50.6	48.5	44.3	42.2	42.2
59°	206.6	183.4	130.7	86.4	65.4	50.6	46.4	44.3	40.1	35.8	37.9
60°	198.2	179.2	124.4	80.1	59.0	46.4	42.2	40.1	35.8	33.7	35.8
62.5°	175.0	160.2	109.6	65.4	46.4	33.7	29.5	31.6	29.5	27.4	29.5
65°	153.9	141.3	92.8	50.6	35.8	23.2	21.1	27.4	25.3	23.2	25.3
67.5°	137.0	122.3	78.0	37.9	25.3	12.6	14.8	23.2	23.2	21.1	23.2
70°	118.1	105.4	63.2	27.4	12.6	6.3	10.5	16.9	21.1	19.0	21.1
72.5°	97.0	82.2	48.5	19.0	6.3	0.0	6.3	14.8	21.1	19.0	21.1
75°	75.9	61.1	35.8	10.5	0.0	0.0	2.1	12.6	21.1	19.0	21.1
77.5°	54.8	44.3	21.1	2.1	0.0	0.0	2.1	12.6	21.1	19.0	21.1
80°	35.8	31.6	8.4	0.0	0.0	0.0	2.1	12.6	21.1	21.1	23.2
82.5°	23.2	16.9	0.0	0.0	0.0	0.0	4.2	16.9	23.2	25.3	25.3
85°	10.5	0.0	0.0	0.0	0.0	0.0	8.4	21.1	27.4	27.4	27.4
87.5°	0.0	0.0	0.0	0.0	0.0	4.2	14.8	25.3	31.6	31.6	31.6
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°	9166.8	9166.8	9166.8	9166.8	9166.8	9166.8	9166.8	9166.8	9166.8	9166.8	9166.8
2.5°	7539.2	7672.0	7859.7	8148.5	8382.5	8751.5	9034.0	9419.8	9809.8	9927.9	10111.3
5°	5549.0	5719.8	6145.6	6533.6	6778.1	7558.2	8051.5	8829.5	9527.3	9862.5	10227.3
7.5°	3853.9	4056.3	4381.0	4922.8	5437.3	6071.9	6868.8	7758.5	8781.0	9259.6	9774.0
10°	2704.9	2957.9	3415.4	3860.3	4507.5	5110.5	5896.9	6879.3	8007.3	8572.3	9217.4
12.5°	1707.7	1933.3	2538.4	3038.0	3845.5	4545.5	5270.7	6160.4	7467.5	8047.3	8724.1
15°	976.1	1165.9	1448.4	2089.3	2985.3	3910.9	4815.3	5848.4	7191.4	7906.1	8637.6
17.5°	727.4	778.0	904.5	1267.1	2083.0	3164.5	4395.8	5753.5	7379.0	8218.1	9053.0
20°	611.4	645.1	704.2	847.5	1328.2	2437.2	3986.8	5770.4	7986.2	9040.3	9833.0
22.5°	548.2	569.2	617.7	710.5	906.6	1775.2	3508.2	5869.5	8722.0	10050.2	10965.2
25°	480.7	508.1	550.3	630.4	754.8	1231.2	3035.9	6090.8	9752.9	11332.0	12192.2
27.5°	428.0	453.3	495.4	569.2	662.0	940.3	2485.7	6280.6	10840.8	12622.3	13326.5
30°	375.3	400.6	442.7	501.8	586.1	761.1	1893.2	6392.3	11897.0	13590.0	14131.8
32.5°	331.0	352.1	392.1	444.8	514.4	645.1	1492.7	6276.4	12704.5	14469.1	14831.8
35°	286.7	312.0	345.8	394.2	455.4	550.3	1241.8	5875.8	13398.1	15373.6	15504.3
37.5°	240.3	269.9	305.7	350.0	398.5	506.0	997.2	5433.0	14140.3	16501.5	16286.5
40°	202.4	229.8	263.5	312.0	356.3	463.8	767.4	4960.8	14941.4	17559.9	17140.3
42.5°	164.4	194.0	234.0	278.3	352.1	404.8	594.5	4471.7	15660.3	18481.2	17912.0
45°	130.7	156.0	198.2	255.1	350.0	347.9	459.6	3988.9	16202.2	19139.0	18487.5
47.5°	103.3	124.4	166.6	248.8	322.6	295.2	368.9	3689.5	16771.4	19731.4	18928.2
50°	82.2	103.3	143.4	259.3	282.5	253.0	309.9	3738.0	17321.7	20032.9	19109.5
52.5°	69.6	90.7	124.4	204.5	217.2	221.4	272.0	3961.5	18032.1	20355.5	19470.0
55°	61.1	80.1	105.4	143.4	168.7	198.2	248.8	4123.8	18983.0	21047.0	20264.8
57.5°	48.5	69.6	94.9	122.3	139.1	172.9	229.8	4136.5	19843.2	21934.6	21321.1
59°	44.3	63.2	88.5	116.0	124.4	156.0	217.2	4028.9	19874.8	22067.4	21806.0
60°	40.1	61.1	84.3	107.5	118.1	147.6	206.6	3904.5	19588.1	21856.6	22006.3
62.5°	33.7	52.7	73.8	86.4	101.2	122.3	179.2	3453.4	18198.7	20901.5	21635.2
65°	29.5	46.4	63.2	71.7	84.3	105.4	158.1	2764.0	16663.9	19607.0	20572.6
67.5°	27.4	42.2	54.8	61.1	73.8	97.0	141.3	1952.3	14675.8	17964.7	18976.7
70°	25.3	40.1	48.5	56.9	65.4	82.2	120.2	1138.5	11304.6	15084.8	16153.7
72.5°	25.3	37.9	42.2	48.5	56.9	73.8	111.7	615.6	7729.0	11507.0	12887.9
75°	25.3	35.8	37.9	42.2	50.6	67.5	99.1	322.6	4996.6	7994.6	9866.8
77.5°	25.3	33.7	37.9	40.1	48.5	59.0	86.4	202.4	3329.0	5599.6	6668.5
80°	27.4	33.7	35.8	40.1	46.4	54.8	71.7	134.9	1956.5	3369.0	4058.4
82.5°	29.5	33.7	37.9	42.2	48.5	52.7	63.2	84.3	902.3	2228.5	2521.5
85°	31.6	35.8	40.1	44.3	50.6	52.7	59.0	61.1	147.6	1005.7	1359.8
87.5°	33.7	37.9	42.2	46.4	54.8	54.8	54.8	54.8	50.6	107.5	274.1
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: P459455

CATALOG NUMBER: GLAN-SA9A-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9166.8	9166.8	9166.8	9166.8	9166.8	9166.8	9166.8	9166.8	9166.8	9166.8
2.5°	10343.2	10581.5	10748.0	10790.2	10670.0	10615.2	10463.4	10227.3	10083.9	10077.6
5°	10899.8	11458.5	11846.4	11911.8	11679.9	11287.7	10821.8	10221.0	9868.9	9763.5
7.5°	10804.9	11783.2	12407.2	12497.9	12107.9	11359.4	10457.1	9489.4	9105.7	8943.3
10°	10414.9	11608.2	12500.0	12643.4	12122.6	11068.5	9921.6	8842.1	8365.7	8241.3
12.5°	10081.8	11287.7	12080.5	12278.6	11884.4	10832.4	9601.1	8426.8	7916.6	7800.6
15°	9936.3	10908.3	11393.2	11494.4	11429.0	10684.8	9567.4	8363.6	7779.6	7653.1
17.5°	10081.8	10585.7	10646.8	10750.1	10895.6	10670.0	9892.1	8707.2	8076.8	7920.8
20°	10463.4	10305.3	10052.3	10096.6	10429.7	10731.2	10469.7	9468.3	8700.9	8534.3
22.5°	11112.8	10235.7	9662.3	9624.3	10046.0	10935.7	11317.3	10499.2	9609.6	9445.1
25°	11909.7	10410.7	9518.9	9436.7	9896.3	11235.0	12238.6	11762.1	10790.2	10539.3
27.5°	12778.3	10773.3	9518.9	9438.8	9883.6	11500.7	13027.1	12879.5	12013.0	11738.9
30°	13254.8	11072.7	9655.9	9565.3	10039.6	11654.6	13448.7	13872.5	12932.2	12592.8
32.5°	13680.6	11488.0	9923.7	9752.9	10366.4	11882.3	13826.1	14715.8	13663.8	13436.1
35°	14072.8	11932.9	10292.6	10094.5	10796.5	12194.3	14243.6	15601.3	14682.1	14338.4
37.5°	14505.0	12449.4	10868.2	10699.5	11515.4	12801.5	14739.0	16765.1	15683.5	15251.3
40°	14975.1	13048.2	11814.8	11743.1	12658.1	13488.8	15365.2	18006.8	16826.2	16335.0
42.5°	15453.7	13737.6	12974.4	13092.4	13952.6	14452.3	16008.2	18961.9	17762.3	17220.5
45°	15888.0	14618.8	14481.8	15065.8	15462.1	15392.6	16484.7	19634.4	18578.2	18059.6
47.5°	16436.2	15902.8	16305.5	17205.7	17216.2	16415.1	16845.2	20184.7	19280.2	18761.6
50°	17049.7	17418.6	18660.4	19577.5	19330.8	17420.7	17266.8	20836.2	20005.5	19590.2
52.5°	17760.2	19115.8	20836.2	21854.5	21278.9	18517.0	17968.9	21540.3	21156.6	20758.2
55°	18586.6	20273.2	23005.6	23817.3	23237.5	19879.0	19035.7	22495.4	22457.4	22185.5
57.5°	19520.6	21496.1	24262.1	25360.5	24844.0	21477.1	20526.2	23395.6	23252.3	23100.5
59°	20258.5	22124.3	24816.6	25955.1	25643.0	22596.6	21527.7	23956.4	23435.7	23208.0
60°	20705.4	22550.2	25021.1	26035.2	25963.5	23262.8	22162.3	24230.5	23433.6	23117.3
62.5°	22031.6	23294.4	24943.1	25678.9	25959.3	24540.4	24023.9	24532.0	22999.3	22535.4
65°	22503.8	23047.7	23650.7	23560.1	23800.4	24475.1	25213.0	24201.0	22071.6	21411.7
67.5°	21584.6	20342.8	20555.8	19950.7	19832.6	21759.6	24730.2	22581.8	20256.4	19448.9
70°	18194.5	15584.4	15476.9	15755.2	14992.0	17616.8	22206.5	19463.7	17260.5	16345.5
72.5°	14321.6	11013.7	10107.1	11131.7	11108.5	13440.3	18447.5	13811.4	11660.9	11582.9
75°	11262.4	7667.8	6729.6	6896.2	7216.7	9729.7	14692.6	8770.5	7180.8	6544.1
77.5°	7560.3	5433.0	5068.3	4863.8	5209.6	6246.8	9295.4	4756.3	4026.8	3813.9
80°	4357.8	3946.7	4482.2	4069.0	4254.5	3936.2	4623.5	2182.1	1811.0	1960.7
82.5°	2835.6	2247.4	2395.0	1779.4	2433.0	2454.0	1484.2	645.1	546.0	579.8
85°	1773.1	1054.1	592.4	421.7	839.1	1543.3	463.8	40.1	46.4	40.1
87.5°	459.6	175.0	73.8	109.6	134.9	120.2	107.5	6.3	2.1	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)