

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: P459453

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459453
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-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: 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 III - Short
BUG Rating: B3 - U0 - G4

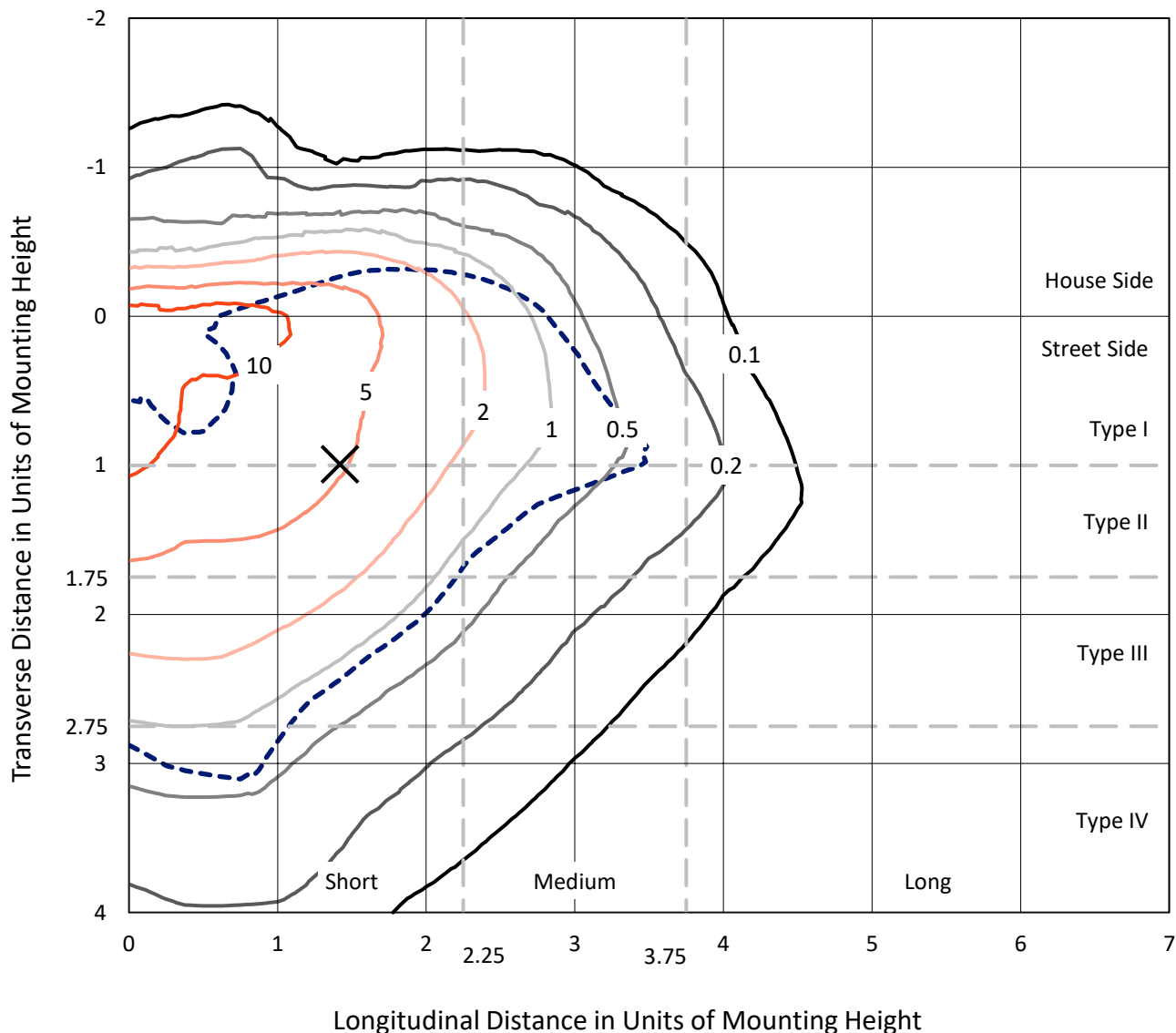
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

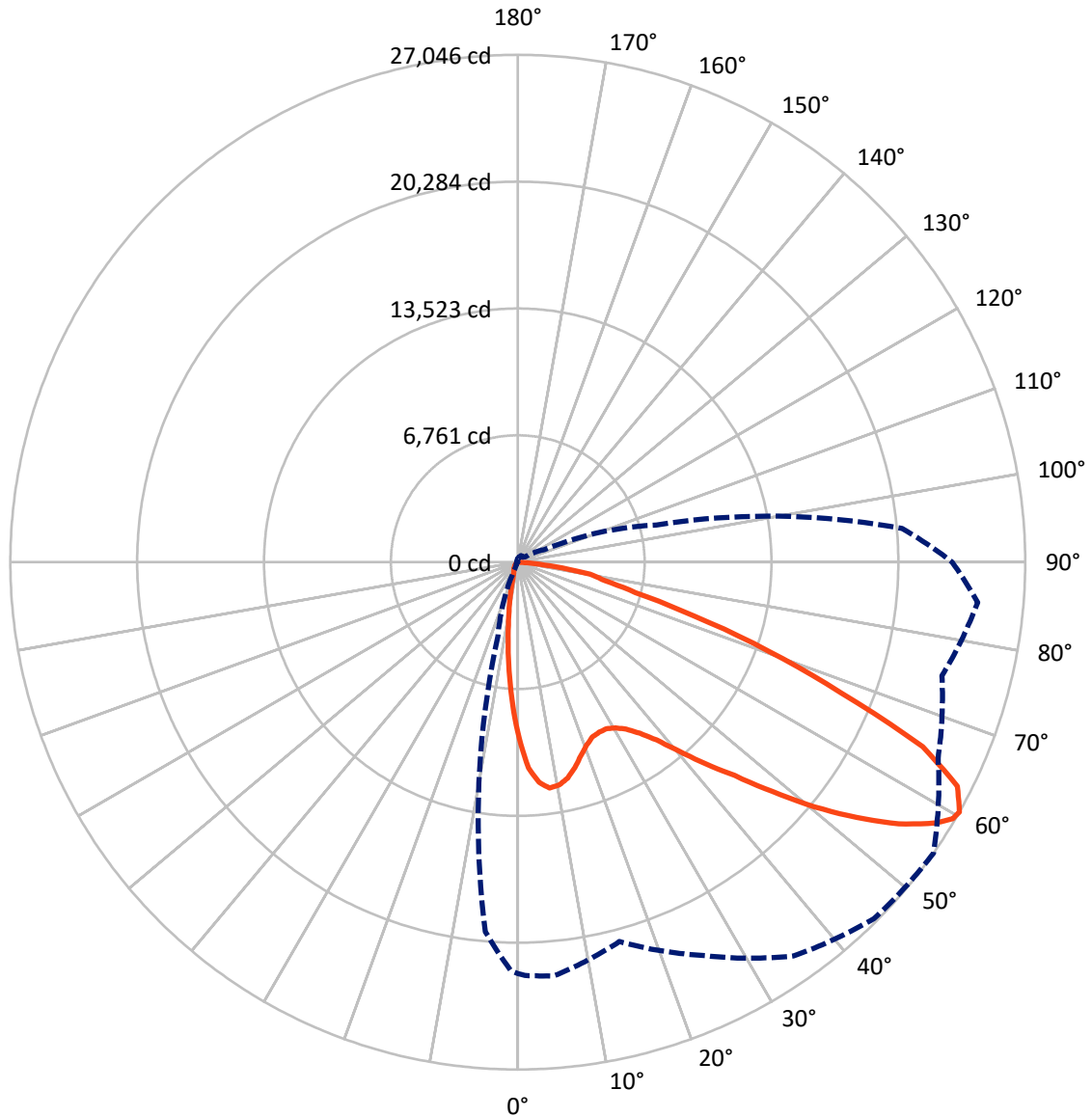
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4116.1	0.0	4116.1
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	23618.9	0.0	23618.9
	% Fixture	85.2	0.0	85.2
Total	Lumens	27735.0	0.0	27735.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	695.4	2.5
10°-20°	1369.4	4.9
20°-30°	2027.0	7.3
30°-40°	3021.5	10.9
40°-50°	4425.0	16.0
50°-60°	6388.3	23.0
60°-70°	6720.2	24.2
70°-80°	2764.4	10.0
80°-90°	323.8	1.2
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

Coefficient of Utilization



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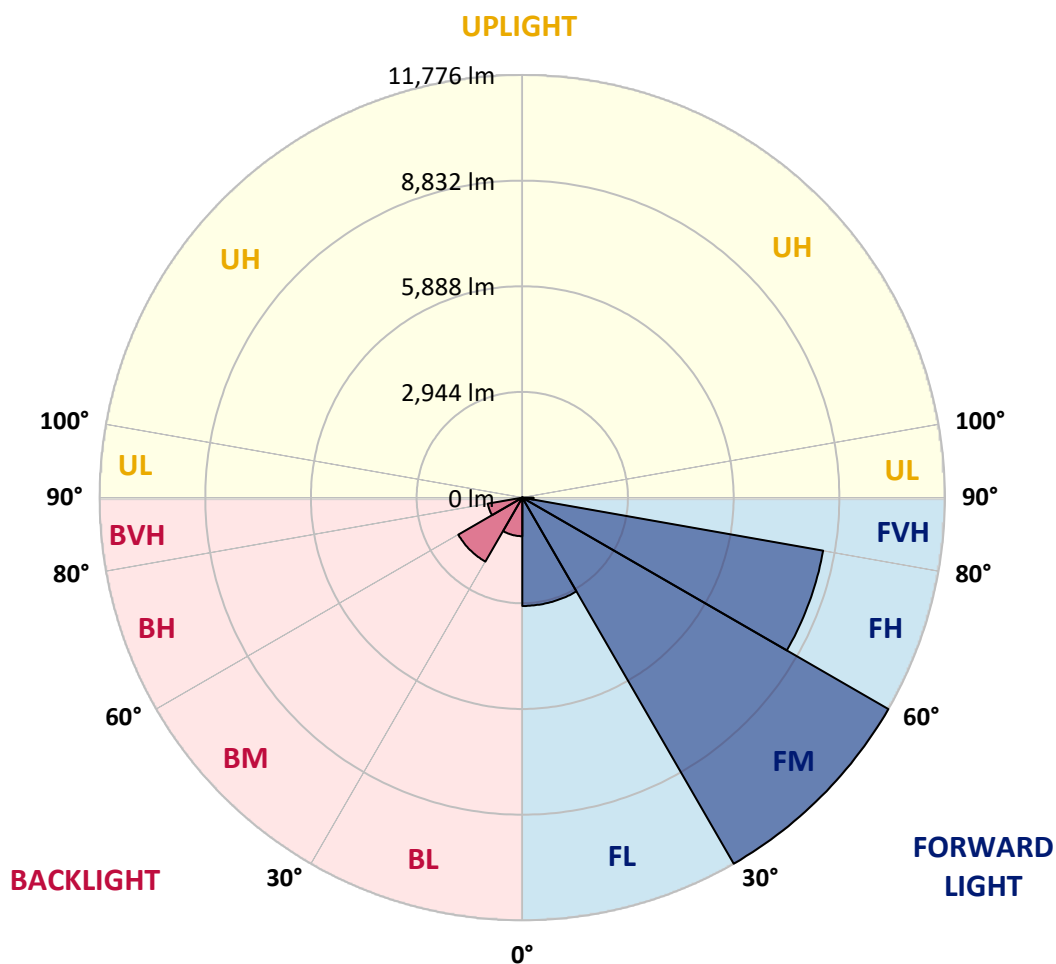
CATALOG NUMBER: GLAN-SA9A-735-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3018.0	10.9			
FM	(30°-60°)	11776.3	42.5			
FH	(60°-80°)	8510.4	30.7			G4/12000
FVH	(80°-90°)	314.3	1.1			G3/500
BL	(0°-30°)	1073.9	3.9	B3/2500		
BM	(30°-60°)	2058.4	7.4	B2/2500		
BH	(60°-80°)	974.3	3.5	B2/1000		G2/1000
BVH	(80°-90°)	9.5	0.0			G0/10
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9391.0	9391.0	9391.0	9391.0	9391.0	9391.0	9391.0	9391.0	9391.0	9391.0	9391.0
2.5°	10259.9	10242.8	10394.4	10642.0	10891.8	11022.0	10996.4	10985.7	10778.6	10627.0	10309.0
5°	10238.5	10326.0	10597.2	11267.5	11775.6	12021.1	12093.7	11788.4	11384.9	10800.0	10078.4
7.5°	9625.8	9734.7	10176.6	11224.8	12127.8	12661.5	12642.3	12153.4	11320.9	10415.7	9386.7
10°	8865.8	8993.9	9512.7	10785.0	11957.0	12661.5	12699.9	12080.8	11045.5	9884.1	8801.8
12.5°	8330.0	8481.6	9055.8	10375.1	11517.3	12211.1	12255.9	11807.6	10838.4	9679.2	8483.7
15°	8148.5	8291.6	8874.4	10168.1	11049.7	11423.3	11412.7	11365.7	10757.3	9728.3	8500.8
17.5°	8460.2	8577.6	9235.2	10262.0	10612.1	10573.7	10629.2	10855.5	10774.3	10140.3	9038.8
20°	9265.0	9384.6	10091.2	10550.2	10276.9	10033.6	10059.2	10437.0	10932.3	10915.2	9879.9
22.5°	10373.0	10575.8	11216.3	11109.5	10232.1	9698.4	9645.0	10136.0	11201.3	11807.6	11015.6
25°	11775.6	11980.5	12480.1	12001.9	10452.0	9619.4	9570.3	10044.2	11527.9	12678.6	12294.3
27.5°	12954.0	13109.8	13607.2	12870.7	10776.5	9653.6	9572.5	10057.1	11792.6	13419.4	13372.4
30°	13897.6	14012.8	14305.3	13276.3	11056.1	9803.0	9709.1	10244.9	11910.1	13780.1	14245.5
32.5°	14657.6	14851.8	14943.6	13709.7	11457.5	10084.8	9924.7	10605.7	12196.1	14226.3	15161.4
35°	15526.4	15750.6	15633.2	14123.9	11986.9	10524.6	10328.2	11190.6	12629.5	14638.3	16224.5
37.5°	16628.0	16886.3	16427.3	14559.4	12546.2	11186.4	11094.6	12012.5	13287.0	15227.5	17364.5
40°	17768.0	17917.4	17198.0	15088.8	13233.6	12149.2	12236.7	13233.6	14147.3	15934.2	18577.0
42.5°	18658.2	18799.1	17990.0	15532.8	13936.0	13291.3	13656.3	14706.7	15133.6	16657.9	19482.2
45°	19339.2	19458.7	18538.6	16017.4	14883.8	14945.7	15635.3	16224.5	16122.0	17099.8	20180.3
47.5°	19868.6	19971.1	18961.3	16538.3	16303.5	16969.5	18024.1	18273.9	17146.7	17578.0	20812.2
50°	20086.4	20116.2	19093.7	17202.2	17915.3	19548.4	20647.8	20496.2	18320.9	18109.5	21484.6
52.5°	20370.3	20363.9	19471.5	17834.1	19431.0	21854.0	22951.3	22607.6	19648.7	18905.8	22240.4
55°	21115.3	21123.9	20280.6	18730.8	20722.5	23715.5	24889.7	24639.9	21049.1	20250.7	23122.0
57.5°	22020.5	22052.5	21431.3	19778.9	21956.4	25064.7	26337.1	26241.0	22942.7	21747.2	23954.6
59°	22137.9	22201.9	21975.7	20517.6	22688.7	25478.9	26832.3	26926.3	23956.7	22733.5	24405.1
60°	21924.4	22031.2	22133.6	20936.0	23117.8	25628.3	26862.2	27045.8	24718.9	23403.8	24610.0
62.5°	20993.6	21162.3	21676.8	22223.3	23653.6	25162.9	25908.0	26292.2	25662.5	25165.0	24629.2
65°	19774.7	19862.2	20605.1	22451.7	22614.0	22989.7	23220.2	23713.4	24528.9	25843.9	23747.5
67.5°	17776.5	18034.8	18944.2	21126.0	19546.2	19102.2	19044.6	18553.6	20671.3	24225.7	21574.3
70°	14685.3	14800.6	15921.4	17319.6	14751.5	14068.3	14341.6	14158.0	16023.8	20854.9	17364.5
72.5°	11105.2	11365.7	12460.8	13805.8	10037.8	9151.9	9905.5	9837.2	12036.0	16760.3	11929.3
75°	7900.9	8069.6	9465.7	10804.2	7029.9	5956.1	6227.2	6481.3	8402.6	13233.6	7049.1
77.5°	5428.8	5574.0	6622.2	7145.2	5127.8	4912.2	4493.8	4739.3	5505.7	7851.8	3836.2
80°	3274.8	3268.4	3957.9	4086.0	3571.5	4147.9	3479.7	3906.7	3328.2	3360.2	1485.8
82.5°	2126.3	2104.9	2420.9	2638.6	1987.5	2090.0	1402.6	2021.7	2169.0	937.2	469.7
85°	952.1	992.7	1163.5	1534.9	871.0	463.3	286.1	621.2	924.4	471.8	0.0
87.5°	98.2	76.9	204.9	373.6	119.5	12.8	42.7	21.3	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°	9391.0	9391.0	9391.0	9391.0	9391.0	9391.0	9391.0	9391.0	9391.0	9391.0	9391.0
2.5°	10161.7	10037.8	9668.5	9322.7	9025.9	8663.0	8428.2	8058.9	7834.7	7766.4	7777.1
5°	9753.9	9397.4	8695.0	8133.6	7508.1	7151.6	6609.3	6088.5	5806.7	5702.1	5655.1
7.5°	8900.0	8517.9	7670.3	6788.7	6118.3	5492.8	5089.4	4630.4	4316.6	4058.3	4013.4
10°	8266.0	7764.3	6714.0	5766.1	5236.7	4767.0	4363.5	3904.6	3535.2	3240.6	3159.5
12.5°	7886.0	7324.5	6152.5	5358.4	4856.7	4374.2	3849.0	3317.5	2939.6	2621.5	2474.2
15°	7817.6	7166.5	5994.5	5065.9	4446.8	3864.0	3165.9	2591.6	2203.1	1902.1	1810.3
17.5°	8229.7	7450.5	5971.0	4760.6	3911.0	3084.8	2359.0	1882.9	1445.3	1276.6	1210.4
20°	8964.0	7952.1	5968.9	4406.2	3360.2	2376.0	1656.6	1227.5	1050.3	969.2	930.8
22.5°	9965.3	8635.3	6082.1	4101.0	2788.1	1752.7	1182.7	977.7	875.3	809.1	794.1
25°	11188.5	9647.2	6359.6	3893.9	2350.4	1374.8	975.6	836.8	751.5	721.6	708.8
27.5°	12275.1	10616.4	6664.9	3680.4	2036.6	1216.8	905.2	766.4	698.1	674.6	655.4
30°	13212.3	11495.9	6812.2	3398.6	1784.7	1114.4	918.0	819.8	730.1	659.7	627.6
32.5°	13993.6	12170.5	6908.2	3142.4	1571.2	911.6	725.8	634.0	593.5	567.9	546.5
35°	14971.4	12900.6	6850.6	2997.3	1462.3	830.4	661.8	546.5	478.2	427.0	405.6
37.5°	15996.1	13630.7	6750.2	2877.7	1413.2	770.7	629.8	518.8	444.0	390.7	362.9
40°	17057.1	14307.4	6632.8	2766.7	1368.4	732.2	610.6	495.3	420.6	362.9	333.0
42.5°	18028.4	14967.1	6585.9	2694.1	1295.8	738.6	595.6	484.6	397.1	337.3	311.7
45°	18814.0	15592.6	6649.9	2655.7	1216.8	728.0	599.9	471.8	377.9	320.2	294.6
47.5°	19653.0	16476.4	6857.0	2617.3	1140.0	676.7	631.9	469.7	369.3	309.5	281.8
50°	20628.6	17607.8	7330.9	2523.3	1046.1	621.2	672.5	467.5	358.6	296.7	269.0
52.5°	21928.7	18893.0	7819.8	2359.0	909.4	567.9	642.6	461.1	337.3	281.8	254.0
55°	23096.4	20246.5	8233.9	2164.7	736.5	491.0	578.5	433.4	301.0	256.2	230.6
57.5°	23578.9	21010.7	8221.1	1895.7	589.2	431.2	476.1	397.1	262.6	226.3	204.9
59°	23401.7	20914.7	7945.7	1697.2	538.0	399.2	394.9	392.8	245.5	204.9	187.9
60°	23151.9	20564.5	7649.0	1599.0	505.9	377.9	362.9	388.5	230.6	192.1	175.1
62.5°	22195.5	19112.9	6664.9	1432.5	463.3	320.2	290.3	328.8	204.9	166.5	151.6
65°	20810.1	16882.0	5642.3	1385.5	450.4	264.7	241.2	234.8	175.1	140.9	128.1
67.5°	18107.4	14286.1	4570.6	1353.5	454.7	222.0	211.3	177.2	145.2	117.4	108.9
70°	14497.4	11139.4	3742.3	1317.2	459.0	181.5	177.2	140.9	117.4	98.2	89.7
72.5°	8808.2	6602.9	2946.0	1144.3	446.2	145.2	158.0	106.7	85.4	70.4	66.2
75°	5445.9	4519.4	1827.4	890.2	294.6	106.7	111.0	66.2	57.6	44.8	44.8
77.5°	3155.2	2854.2	653.2	320.2	130.2	64.0	49.1	34.2	32.0	19.2	19.2
80°	1308.6	1048.2	226.3	108.9	70.4	29.9	10.7	2.1	0.0	0.0	0.0
82.5°	382.1	339.4	61.9	49.1	21.3	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	9391.0	9391.0	9391.0	9391.0	9391.0	9391.0	9391.0	9391.0	9391.0	9391.0	9391.0
2.5°	7595.6	7525.2	7493.2	7602.0	7501.7	7629.8	7531.6	7574.3	7700.2	7755.7	7898.8
5°	5685.0	5612.4	5578.2	5742.6	5734.1	5815.2	5806.7	5881.4	5945.4	5802.4	5949.7
7.5°	3960.1	3911.0	3992.1	4120.2	4256.8	4212.0	4212.0	4111.6	4145.8	4124.4	4118.0
10°	3012.2	2843.6	2800.9	2796.6	2847.8	2858.5	2800.9	2662.1	2713.3	2728.3	2817.9
12.5°	2369.6	2239.4	2040.9	1951.2	1927.7	1946.9	1756.9	1635.3	1692.9	1658.7	1746.3
15°	1699.3	1592.6	1475.1	1374.8	1347.1	1308.6	1101.6	956.4	939.3	945.7	960.7
17.5°	1212.6	1140.0	1140.0	1033.2	975.6	860.3	755.7	691.7	685.3	691.7	702.3
20°	894.5	856.1	851.8	824.0	760.0	683.1	610.6	597.7	593.5	604.1	608.4
22.5°	770.7	730.1	695.9	693.8	634.0	570.0	535.8	518.8	520.9	525.2	535.8
25°	689.5	646.8	610.6	589.2	546.5	501.7	469.7	461.1	461.1	467.5	469.7
27.5°	631.9	578.5	546.5	516.6	478.2	439.8	412.0	405.6	401.3	405.6	416.3
30°	591.3	538.0	497.4	452.6	422.7	386.4	362.9	354.4	352.2	354.4	362.9
32.5°	505.9	473.9	441.9	401.3	365.1	341.6	316.0	301.0	301.0	305.3	313.8
35°	382.1	365.1	362.9	352.2	322.4	296.7	266.9	251.9	251.9	260.4	264.7
37.5°	337.3	305.3	301.0	296.7	283.9	249.8	222.0	209.2	207.1	213.5	222.0
40°	307.4	271.1	251.9	247.6	249.8	211.3	181.5	168.6	168.6	170.8	179.3
42.5°	283.9	241.2	207.1	202.8	211.3	177.2	147.3	134.5	134.5	134.5	145.2
45°	264.7	215.6	175.1	153.7	166.5	145.2	119.5	106.7	102.5	106.7	111.0
47.5°	251.9	196.4	153.7	123.8	123.8	115.3	96.1	81.1	76.9	79.0	85.4
50°	241.2	179.3	130.2	100.3	89.7	91.8	72.6	61.9	57.6	57.6	64.0
52.5°	224.2	162.2	113.1	85.4	68.3	61.9	53.4	44.8	42.7	44.8	49.1
55°	202.8	147.3	98.2	70.4	53.4	42.7	38.4	32.0	29.9	32.0	38.4
57.5°	179.3	123.8	79.0	55.5	36.3	27.8	25.6	21.3	17.1	19.2	23.5
59°	164.4	111.0	68.3	44.8	27.8	19.2	19.2	14.9	10.7	12.8	19.2
60°	158.0	102.5	57.6	38.4	23.5	14.9	14.9	10.7	6.4	8.5	14.9
62.5°	134.5	85.4	44.8	23.5	10.7	2.1	6.4	2.1	0.0	2.1	6.4
65°	113.1	68.3	29.9	10.7	0.0	0.0	0.0	0.0	0.0	0.0	2.1
67.5°	93.9	51.2	14.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	74.7	34.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	51.2	19.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	32.0	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	12.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	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: P459453

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9391.0	9391.0	9391.0	9391.0	9391.0	9391.0	9391.0	9391.0	9391.0	9391.0
2.5°	7907.3	8212.6	8400.4	8754.8	9117.7	9397.4	9747.5	10061.3	10191.5	10259.9
5°	6099.1	6524.0	6884.7	7424.8	7926.5	8537.1	9156.2	9886.3	10165.9	10238.5
7.5°	4280.3	4713.6	5091.5	5717.0	6432.2	7249.8	8176.3	9102.8	9510.5	9625.8
10°	3091.2	3554.4	4015.6	4641.1	5309.3	6195.2	7160.1	8306.5	8776.2	8865.8
12.5°	1951.2	2448.6	3197.9	3970.7	4677.4	5390.4	6400.1	7646.9	8165.6	8330.0
15°	1131.4	1502.9	2068.6	3076.2	3975.0	4918.6	6020.1	7399.2	7979.9	8148.5
17.5°	757.9	885.9	1274.5	2045.1	3232.1	4483.1	5924.1	7602.0	8244.6	8460.2
20°	638.3	695.9	832.6	1246.7	2489.2	4094.6	5949.7	8152.8	8996.1	9265.0
22.5°	561.5	614.8	702.3	896.6	1737.7	3612.1	6071.4	8940.6	10029.3	10373.0
25°	495.3	548.6	625.5	742.9	1167.7	3054.9	6338.2	10093.3	11397.7	11775.6
27.5°	439.8	488.9	555.0	655.4	898.8	2433.7	6575.2	11216.3	12646.6	12954.0
30°	388.5	429.1	493.1	570.0	747.2	1876.5	6694.7	12198.3	13556.0	13897.6
32.5°	337.3	375.7	437.6	499.5	614.8	1430.3	6611.5	12919.8	14439.8	14657.6
35°	288.2	328.8	380.0	437.6	531.6	1154.9	6195.2	13731.0	15355.6	15526.4
37.5°	247.6	281.8	335.2	380.0	480.3	924.4	5691.4	14461.1	16382.5	16628.0
40°	209.2	243.4	296.7	337.3	441.9	728.0	5236.7	15272.4	17464.8	17768.0
42.5°	170.8	211.3	258.3	324.5	380.0	555.0	4685.9	15929.9	18278.2	18658.2
45°	136.6	181.5	232.7	322.4	330.9	422.7	4154.3	16442.2	18997.6	19339.2
47.5°	108.9	153.7	224.2	301.0	271.1	335.2	3851.2	16978.1	19595.3	19868.6
50°	87.5	128.1	234.8	264.7	226.3	283.9	3842.6	17575.8	19904.9	20086.4
52.5°	70.4	104.6	198.5	202.8	192.1	249.8	4073.2	18248.3	20220.8	20370.3
55°	59.8	87.5	130.2	149.4	172.9	226.3	4246.1	19283.7	20974.4	21115.3
57.5°	47.0	74.7	100.3	119.5	153.7	207.1	4269.6	20082.1	21928.7	22020.5
59°	40.6	64.0	89.7	106.7	140.9	194.3	4173.5	20131.2	21990.6	22137.9
60°	34.2	57.6	79.0	100.3	130.2	183.6	4068.9	19774.7	21760.0	21924.4
62.5°	25.6	44.8	57.6	81.1	106.7	158.0	3573.7	18530.1	20878.4	20993.6
65°	17.1	32.0	42.7	59.8	83.3	136.6	2911.9	16916.2	19516.4	19774.7
67.5°	10.7	23.5	34.2	44.8	68.3	115.3	2075.0	14506.0	17610.0	17776.5
70°	6.4	14.9	25.6	36.3	53.4	91.8	1231.8	11466.0	14651.1	14685.3
72.5°	4.3	10.7	17.1	25.6	42.7	83.3	597.7	7473.9	10697.5	11105.2
75°	2.1	6.4	10.7	19.2	34.2	68.3	286.1	4993.3	7783.5	7900.9
77.5°	0.0	2.1	6.4	12.8	25.6	53.4	166.5	3279.1	5307.1	5428.8
80°	0.0	0.0	4.3	10.7	19.2	34.2	100.3	1934.1	3215.0	3274.8
82.5°	0.0	0.0	2.1	8.5	12.8	25.6	51.2	849.7	2104.9	2126.3
85°	0.0	0.0	2.1	8.5	10.7	17.1	19.2	115.3	935.0	952.1
87.5°	0.0	0.0	2.1	10.7	10.7	10.7	10.7	6.4	79.0	98.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)