

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: P649045

Luminaire Tested: **GLAN-SA7C-835-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P649045
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-SA7C-835-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1050mA 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: 27535.8 lumens
Efficiency: N/A
Efficacy: 73.0 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

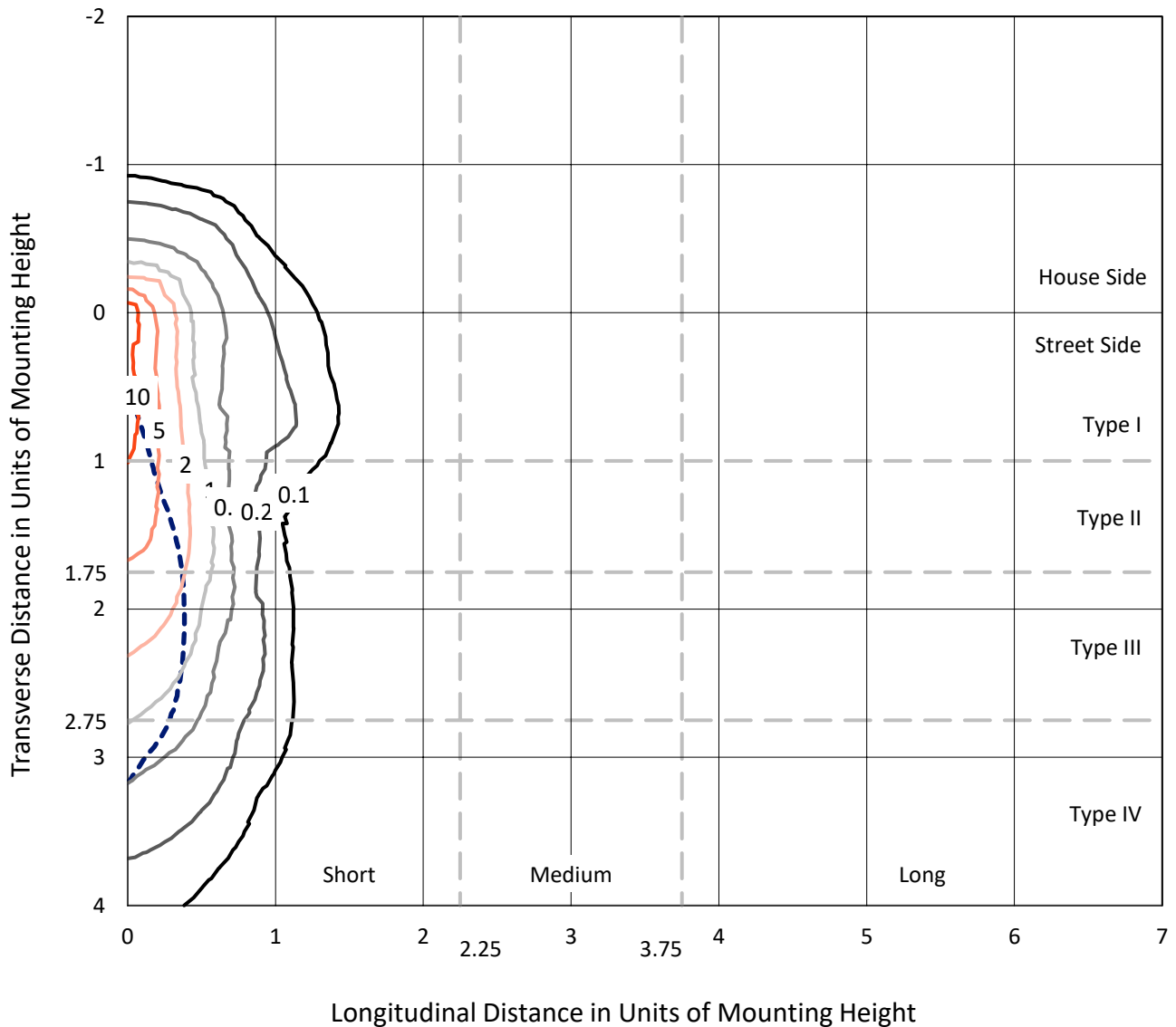
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

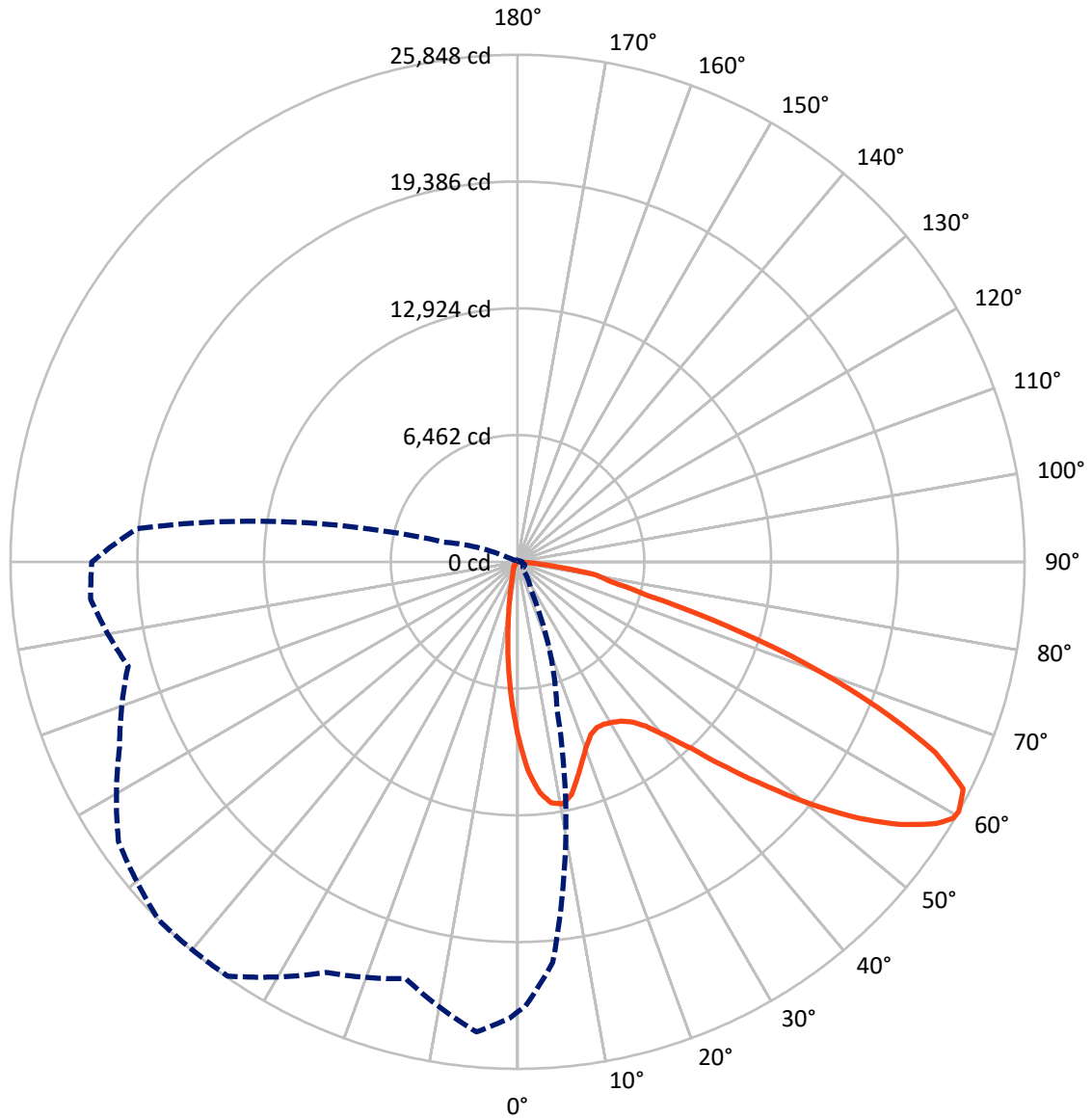
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 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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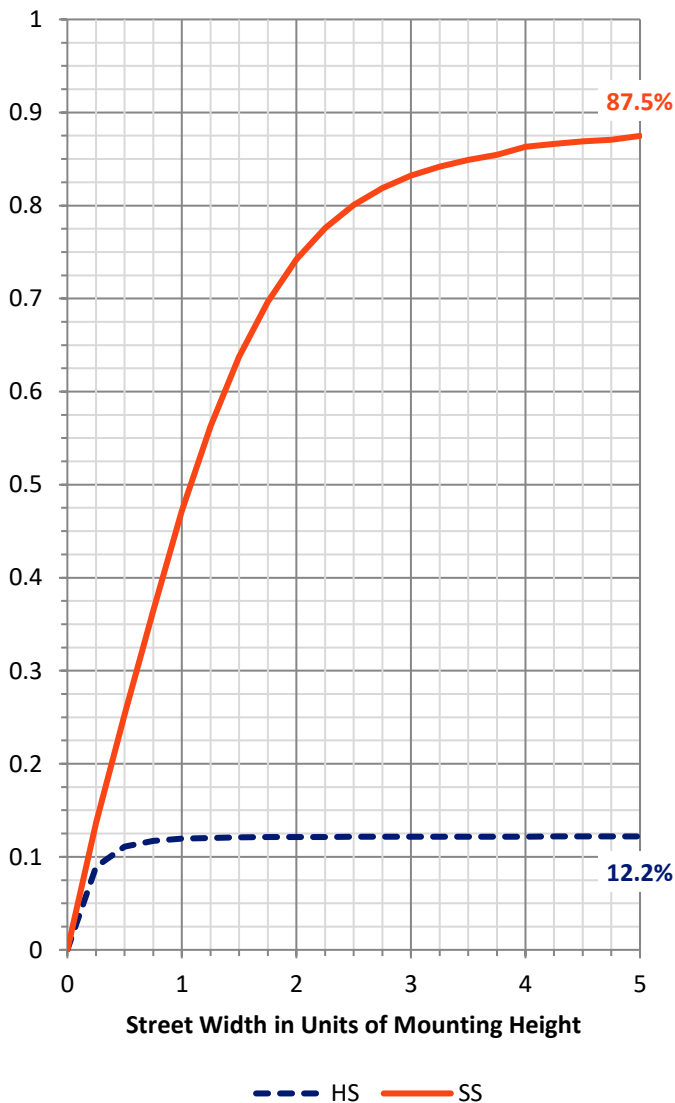
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3396.3	0.0	3396.3
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	24139.5	0.0	24139.5
	% Fixture	87.7	0.0	87.7
Total	Lumens	27535.8	0.0	27535.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	676.9	2.5
10°-20°	1344.3	4.9
20°-30°	1971.2	7.2
30°-40°	2931.4	10.6
40°-50°	4266.2	15.5
50°-60°	6152.1	22.3
60°-70°	6766.7	24.6
70°-80°	3030.9	11.0
80°-90°	396.0	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°	27535.8	100.0
0°-180°	27535.8	100.0

Coefficient of Utilization



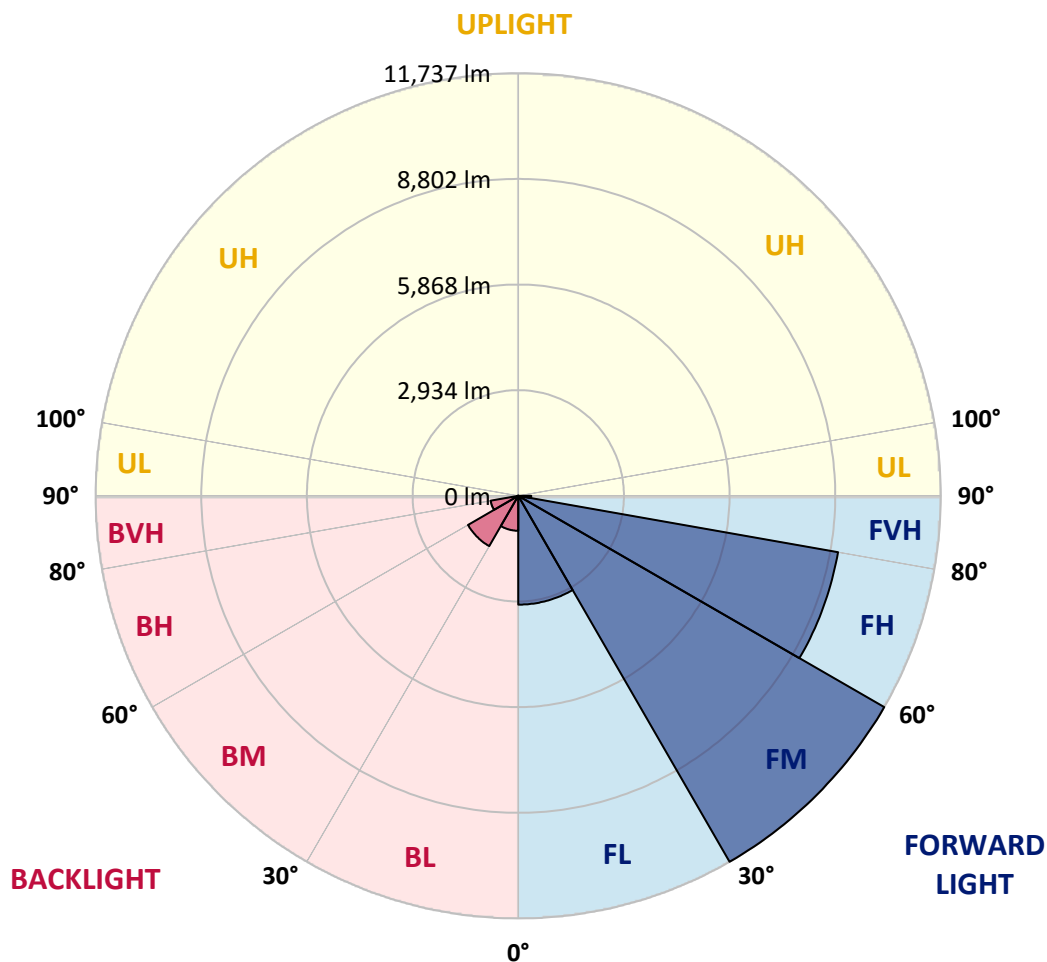
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3022.0	11.0			
FM (30°-60°)	11736.6	42.6			
FH (60°-80°)	9018.8	32.8			G4/12000
FVH (80°-90°)	362.2	1.3			G3/500
BL (0°-30°)	970.4	3.5	B2/1000		
BM (30°-60°)	1613.1	5.9	B2/2500		
BH (60°-80°)	778.8	2.8	B2/1000		G2/1000
BVH (80°-90°)	33.9	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°	9101.0	9101.0	9101.0	9101.0	9101.0	9101.0	9101.0	9101.0	9101.0	9101.0	9101.0
2.5°	10005.2	9961.2	9860.8	9555.2	9289.4	8941.9	8590.2	8314.0	8144.4	7832.5	7690.2
5°	9693.3	9714.3	9423.3	8795.4	8096.2	7619.1	7097.8	6683.4	6227.1	5938.2	5634.7
7.5°	8879.1	8837.3	8521.2	7646.2	6796.4	6105.7	5446.3	4910.5	4573.5	4303.5	4077.4
10°	8182.0	8150.7	7746.7	6620.6	5708.0	5191.0	4745.1	4276.3	3914.1	3518.6	3202.5
12.5°	7744.6	7673.5	7208.8	6032.4	5289.3	4807.9	4322.3	3834.7	3334.4	2934.6	2551.6
15°	7598.1	7495.5	6978.5	5829.4	5021.5	4410.2	3801.2	3240.2	2664.5	2222.9	1934.1
17.5°	7863.9	7694.4	7143.9	5793.8	4701.2	3891.1	3141.8	2411.3	1812.6	1475.6	1297.7
20°	8473.0	8278.3	7562.5	5758.3	4345.3	3309.3	2388.3	1703.8	1253.8	1069.6	971.2
22.5°	9377.3	9109.3	8182.0	5814.7	4016.7	2742.0	1724.7	1203.5	996.4	881.2	812.1
25°	10463.6	10239.6	8967.0	6015.7	3757.1	2296.1	1333.3	983.8	839.4	768.2	715.8
27.5°	11654.6	11296.7	9982.2	6256.4	3520.7	1950.8	1170.0	879.2	747.2	682.4	655.1
30°	12502.3	12224.0	10832.0	6423.8	3225.5	1691.3	1069.6	866.5	749.3	671.9	621.6
32.5°	13339.6	12983.7	11543.7	6501.2	3009.9	1511.3	925.2	755.6	657.3	617.5	567.2
35°	14235.4	13862.9	12253.2	6459.4	2848.8	1391.9	839.4	674.0	563.1	496.1	445.8
37.5°	15141.7	14748.3	12958.6	6308.7	2748.3	1343.8	772.4	640.5	531.7	462.6	408.2
40°	16217.7	15692.3	13620.1	6185.2	2643.6	1318.7	728.4	619.6	508.6	435.3	380.9
42.5°	17096.7	16596.5	14245.9	6120.3	2572.5	1260.1	728.4	602.8	494.0	412.3	355.8
45°	17929.8	17410.7	14921.9	6172.6	2543.2	1186.8	736.8	600.7	483.5	395.6	339.1
47.5°	18626.9	18176.8	15616.9	6369.4	2505.5	1107.2	692.8	630.0	477.2	380.9	322.4
50°	19449.4	19014.1	16535.8	6767.1	2438.5	1027.8	638.4	678.2	475.1	368.4	307.7
52.5°	20609.0	20138.1	17804.2	7219.3	2331.8	906.3	588.2	671.9	466.7	347.5	293.1
55°	22026.1	21645.2	19273.6	7761.3	2185.3	770.2	508.6	596.6	441.7	311.9	267.9
57.5°	22934.5	22610.1	20374.6	7995.8	1961.3	630.0	448.0	500.3	403.9	278.4	238.6
59°	23041.3	22748.2	20604.9	7918.3	1814.8	575.6	418.6	429.1	393.5	259.6	221.9
60°	22951.2	22647.7	20512.7	7767.6	1678.7	537.9	393.5	380.9	395.6	249.1	209.3
62.5°	22373.5	21854.5	19619.0	7003.6	1467.3	494.0	349.5	311.9	349.5	223.9	186.3
65°	21257.9	20479.3	17850.3	5927.8	1383.6	468.9	297.2	261.7	265.8	196.8	161.1
67.5°	19309.2	18327.5	15495.5	4816.3	1348.0	471.0	251.2	234.4	205.1	167.5	142.3
70°	16228.1	15248.5	12433.3	3962.3	1331.3	471.0	213.5	200.9	171.6	140.2	123.5
72.5°	11499.7	10444.8	8387.2	3112.5	1199.4	468.9	182.1	182.1	140.2	117.2	100.5
75°	6497.1	6505.5	5272.6	2202.0	996.4	387.2	146.5	144.5	102.6	90.0	75.3
77.5°	3786.5	3719.5	3554.1	946.1	462.6	175.9	102.6	87.9	71.2	64.9	54.4
80°	1946.6	1601.2	1559.4	343.3	165.4	111.0	71.2	50.3	46.0	41.9	37.7
82.5°	575.6	577.7	514.9	138.1	92.1	73.3	35.5	27.2	25.1	23.0	23.0
85°	39.8	25.1	29.3	41.9	56.5	29.3	2.1	6.3	6.3	8.4	10.5
87.5°	4.1	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°	9101.0	9101.0	9101.0	9101.0	9101.0	9101.0	9101.0	9101.0	9101.0	9101.0	9101.0
2.5°	7533.2	7625.3	7453.7	7457.8	7315.5	7361.5	7194.1	7248.5	7150.1	7225.5	7447.3
5°	5668.2	5689.1	5551.0	5507.1	5528.0	5613.8	5647.3	5494.5	5559.4	5431.7	5423.3
7.5°	3993.7	4018.8	3939.3	3928.8	4079.5	4044.0	4108.8	3951.9	3803.3	3868.1	3748.8
10°	3102.0	2997.4	2834.1	2788.0	2758.7	2777.6	2777.6	2635.3	2614.4	2557.8	2643.6
12.5°	2449.0	2321.3	2166.4	1957.1	1904.7	1900.6	1823.1	1697.5	1657.8	1609.6	1680.8
15°	1779.1	1726.8	1597.1	1479.9	1360.5	1337.5	1211.9	1109.4	973.3	954.5	948.2
17.5°	1251.7	1174.3	1172.2	1105.2	1036.1	990.0	872.8	755.6	703.3	697.0	697.0
20°	937.7	910.6	866.5	858.2	837.3	785.0	680.3	617.5	592.3	594.5	602.8
22.5°	789.1	770.2	730.5	711.7	703.3	657.3	579.8	537.9	525.4	525.4	527.5
25°	705.4	688.6	644.7	615.4	604.9	571.4	510.8	479.4	468.9	468.9	468.9
27.5°	642.6	621.6	575.6	550.5	531.7	494.0	456.3	424.9	414.4	414.4	416.6
30°	598.6	575.6	533.8	500.3	471.0	437.5	406.1	378.9	366.3	364.2	366.3
32.5°	540.0	519.1	477.2	456.3	422.8	383.0	357.9	332.8	320.2	322.4	320.2
35°	420.7	414.4	385.2	391.4	372.6	339.1	316.1	288.8	274.2	272.1	276.3
37.5°	383.0	357.9	324.5	326.5	320.2	307.7	270.0	240.7	230.3	230.3	232.3
40°	353.8	328.6	291.0	272.1	274.2	274.2	234.4	203.0	192.5	190.5	194.7
42.5°	328.6	303.5	261.7	230.3	221.9	232.3	198.9	167.5	157.0	152.8	157.0
45°	311.9	284.7	236.5	200.9	175.9	188.4	163.3	138.1	125.6	125.6	123.5
47.5°	295.1	270.0	217.7	173.7	146.5	140.2	134.0	111.0	98.3	96.3	98.3
50°	280.5	255.3	196.8	150.7	123.5	108.8	108.8	87.9	79.6	75.3	77.4
52.5°	265.8	238.6	177.9	134.0	106.7	87.9	77.4	71.2	64.9	62.8	64.9
55°	244.9	217.7	159.1	115.1	92.1	73.3	60.7	58.6	54.4	50.3	54.4
57.5°	219.8	194.7	140.2	98.3	73.3	56.5	50.3	48.2	43.9	41.9	41.9
59°	205.1	182.1	129.7	85.8	64.9	50.3	46.0	43.9	39.8	35.5	37.7
60°	196.8	177.9	123.5	79.6	58.6	46.0	41.9	39.8	35.5	33.5	35.5
62.5°	173.7	159.1	108.8	64.9	46.0	33.5	29.3	31.4	29.3	27.2	29.3
65°	152.8	140.2	92.1	50.3	35.5	23.0	20.9	27.2	25.1	23.0	25.1
67.5°	136.1	121.4	77.4	37.7	25.1	12.5	14.6	23.0	23.0	20.9	23.0
70°	117.2	104.7	62.8	27.2	12.5	6.3	10.5	16.8	20.9	18.9	20.9
72.5°	96.3	81.7	48.2	18.9	6.3	0.0	6.3	14.6	20.9	18.9	20.9
75°	75.3	60.7	35.5	10.5	0.0	0.0	2.1	12.5	20.9	18.9	20.9
77.5°	54.4	43.9	20.9	2.1	0.0	0.0	2.1	12.5	20.9	18.9	20.9
80°	35.5	31.4	8.4	0.0	0.0	0.0	2.1	12.5	20.9	20.9	23.0
82.5°	23.0	16.8	0.0	0.0	0.0	0.0	4.1	16.8	23.0	25.1	25.1
85°	10.5	0.0	0.0	0.0	0.0	0.0	8.4	20.9	27.2	27.2	27.2
87.5°	0.0	0.0	0.0	0.0	0.0	4.1	14.6	25.1	31.4	31.4	31.4
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°	9101.0	9101.0	9101.0	9101.0	9101.0	9101.0	9101.0	9101.0	9101.0	9101.0	9101.0
2.5°	7485.1	7616.9	7803.2	8090.0	8322.4	8688.6	8969.1	9352.2	9739.3	9856.6	10038.7
5°	5509.1	5678.7	6101.5	6486.6	6729.4	7503.9	7993.7	8766.1	9458.9	9791.7	10153.8
7.5°	3826.3	4027.2	4349.6	4887.5	5398.2	6028.2	6819.5	7702.8	8717.9	9193.0	9703.8
10°	2685.5	2936.6	3390.9	3832.6	4475.2	5073.8	5854.5	6829.9	7949.7	8510.7	9151.2
12.5°	1695.4	1919.4	2520.2	3016.2	3817.9	4512.8	5232.9	6116.2	7413.9	7989.5	8661.4
15°	969.1	1157.5	1438.0	2074.3	2963.9	3882.7	4780.8	5806.3	7139.7	7849.3	8575.6
17.5°	722.2	772.4	897.9	1258.0	2068.0	3141.8	4364.2	5712.1	7326.0	8159.0	8987.9
20°	607.0	640.5	699.1	841.4	1318.7	2419.7	3958.1	5728.9	7928.8	8975.4	9762.4
22.5°	544.2	565.2	613.3	705.4	900.1	1762.5	3483.0	5827.3	8659.3	9978.0	10886.4
25°	477.2	504.4	546.3	625.9	749.3	1222.4	3014.1	6047.1	9682.9	11250.6	12104.6
27.5°	424.9	450.0	491.9	565.2	657.3	933.6	2467.8	6235.4	10762.9	12531.6	13230.7
30°	372.6	397.7	439.6	498.1	581.9	755.6	1879.7	6346.4	11811.6	13492.3	14030.3
32.5°	328.6	349.5	389.3	441.7	510.8	640.5	1481.9	6231.3	12613.3	14365.2	14725.3
35°	284.7	309.8	343.3	391.4	452.1	546.3	1232.8	5833.6	13301.9	15263.2	15392.9
37.5°	238.6	267.9	303.5	347.5	395.6	502.4	990.0	5394.0	14038.6	16383.0	16169.5
40°	200.9	228.2	261.7	309.8	353.8	460.5	761.9	4925.1	14834.1	17433.7	17017.2
42.5°	163.3	192.5	232.3	276.3	349.5	401.9	590.3	4439.5	15547.8	18348.4	17783.3
45°	129.7	154.9	196.8	253.3	347.5	345.4	456.3	3960.2	16085.8	19001.5	18354.7
47.5°	102.6	123.5	165.4	247.0	320.2	293.1	366.3	3663.0	16650.9	19589.6	18792.2
50°	81.7	102.6	142.3	257.5	280.5	251.2	307.7	3711.1	17197.2	19889.0	18972.2
52.5°	69.1	90.0	123.5	203.0	215.6	219.8	270.0	3933.0	17902.6	20209.2	19330.2
55°	60.7	79.6	104.7	142.3	167.5	196.8	247.0	4094.2	18846.6	20895.8	20119.3
57.5°	48.2	69.1	94.2	121.4	138.1	171.6	228.2	4106.8	19700.6	21777.0	21167.9
59°	43.9	62.8	87.9	115.1	123.5	154.9	215.6	4000.0	19732.0	21908.9	21649.3
60°	39.8	60.7	83.7	106.7	117.2	146.5	205.1	3876.5	19447.4	21699.6	21848.2
62.5°	33.5	52.3	73.3	85.8	100.5	121.4	177.9	3428.5	18068.0	20751.4	21479.8
65°	29.3	46.0	62.8	71.2	83.7	104.7	157.0	2744.1	16544.2	19466.2	20424.9
67.5°	27.2	41.9	54.4	60.7	73.3	96.3	140.2	1938.2	14570.3	17835.6	18840.3
70°	25.1	39.8	48.2	56.5	64.9	81.7	119.3	1130.3	11223.4	14976.4	16037.6
72.5°	25.1	37.7	41.9	48.2	56.5	73.3	111.0	611.2	7673.5	11424.4	12795.3
75°	25.1	35.5	37.7	41.9	50.3	66.9	98.3	320.2	4960.8	7937.2	9795.9
77.5°	25.1	33.5	37.7	39.8	48.2	58.6	85.8	200.9	3305.0	5559.4	6620.6
80°	27.2	33.5	35.5	39.8	46.0	54.4	71.2	134.0	1942.5	3344.8	4029.3
82.5°	29.3	33.5	37.7	41.9	48.2	52.3	62.8	83.7	895.8	2212.4	2503.4
85°	31.4	35.5	39.8	43.9	50.3	52.3	58.6	60.7	146.5	998.4	1350.0
87.5°	33.5	37.7	41.9	46.0	54.4	54.4	54.4	54.4	50.3	106.7	272.1
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: P649045

CATALOG NUMBER: GLAN-SA7C-835-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9101.0	9101.0	9101.0	9101.0	9101.0	9101.0	9101.0	9101.0	9101.0	9101.0
2.5°	10269.0	10505.4	10670.8	10712.7	10593.4	10538.9	10388.2	10153.8	10011.5	10005.2
5°	10821.5	11376.2	11761.4	11826.2	11596.0	11206.7	10744.1	10147.5	9798.0	9693.3
7.5°	10727.3	11698.6	12318.1	12408.1	12020.9	11277.9	10382.0	9421.2	9040.3	8879.1
10°	10340.1	11524.8	12410.2	12552.5	12035.6	10988.9	9850.3	8778.6	8305.6	8182.0
12.5°	10009.4	11206.7	11993.7	12190.4	11799.0	10754.5	9532.2	8366.3	7859.8	7744.6
15°	9864.9	10829.9	11311.3	11411.8	11346.9	10608.0	9498.7	8303.5	7723.7	7598.1
17.5°	10009.4	10509.7	10570.3	10672.9	10817.3	10593.4	9821.0	8644.6	8018.8	7863.9
20°	10388.2	10231.2	9980.1	10024.0	10354.8	10654.0	10394.6	9400.3	8638.4	8473.0
22.5°	11032.9	10162.2	9592.8	9555.2	9973.8	10857.1	11236.0	10423.8	9540.5	9377.3
25°	11824.2	10335.9	9450.5	9368.9	9825.2	11154.3	12150.7	11677.6	10712.7	10463.6
27.5°	12686.5	10695.9	9450.5	9370.9	9812.6	11418.1	12933.5	12787.0	11926.7	11654.6
30°	13159.6	10993.2	9586.6	9496.5	9967.5	11570.9	13352.1	13772.8	12839.3	12502.3
32.5°	13582.4	11405.5	9852.4	9682.9	10292.0	11796.9	13726.8	14610.1	13565.6	13339.6
35°	13971.7	11847.2	10218.7	10021.9	10719.0	12106.7	14141.2	15489.2	14576.6	14235.4
37.5°	14400.8	12360.0	10790.1	10622.6	11432.7	12709.5	14633.1	16644.6	15570.8	15141.7
40°	14867.5	12954.4	11730.0	11658.8	12567.2	13391.9	15254.8	17877.5	16705.3	16217.7
42.5°	15342.7	13638.9	12881.1	12998.3	13852.4	14348.5	15893.2	18825.7	17634.6	17096.7
45°	15773.8	14513.8	14377.8	14957.6	15351.1	15282.0	16366.3	19493.4	18444.7	17929.8
47.5°	16318.1	15788.6	16188.3	17082.1	17092.6	16297.2	16724.2	20039.7	19141.8	18626.9
50°	16927.2	17293.5	18526.3	19436.9	19192.0	17295.6	17142.8	20686.5	19861.8	19449.4
52.5°	17632.6	18978.5	20686.5	21697.5	21126.0	18384.1	17839.8	21385.6	21004.6	20609.0
55°	18453.1	20127.6	22840.3	23646.2	23070.5	19736.2	18899.0	22333.7	22296.1	22026.1
57.5°	19380.3	21341.6	24087.8	25178.4	24665.5	21322.8	20378.7	23227.5	23085.2	22934.5
59°	20112.9	21965.4	24638.3	25768.6	25458.9	22434.3	21373.0	23784.3	23267.3	23041.3
60°	20556.7	22388.2	24841.4	25848.2	25777.0	23095.7	22003.1	24056.4	23265.2	22951.2
62.5°	21873.3	23127.1	24763.9	25494.4	25772.8	24364.1	23851.3	24355.8	22834.0	22373.5
65°	22342.1	22882.2	23480.8	23390.8	23629.5	24299.2	25031.8	24027.1	21913.0	21257.9
67.5°	21429.5	20196.7	20408.1	19807.4	19690.2	21603.3	24552.5	22419.6	20110.9	19309.2
70°	18063.8	15472.5	15365.7	15642.0	14884.3	17490.3	22047.0	19323.8	17136.5	16228.1
72.5°	14218.7	10934.5	10034.5	11051.7	11028.7	13343.7	18314.9	13712.1	11577.1	11499.7
75°	11181.6	7612.7	6681.3	6846.6	7164.8	9659.8	14587.1	8707.4	7129.2	6497.1
77.5°	7506.0	5394.0	5031.9	4828.8	5172.1	6202.0	9228.7	4722.1	3997.9	3786.5
80°	4326.5	3918.4	4450.0	4039.7	4224.0	3907.9	4590.3	2166.4	1798.0	1946.6
82.5°	2815.3	2231.3	2377.8	1766.6	2415.5	2436.4	1473.6	640.5	542.1	575.6
85°	1760.3	1046.6	588.2	418.6	833.0	1532.2	460.5	39.8	46.0	39.8
87.5°	456.3	173.7	73.3	108.8	134.0	119.3	106.7	6.3	2.1	4.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)