

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: P653115

Luminaire Tested: **GLAN-SA9C-840-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P653115
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-SA9C-840-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 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: 38493.4 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

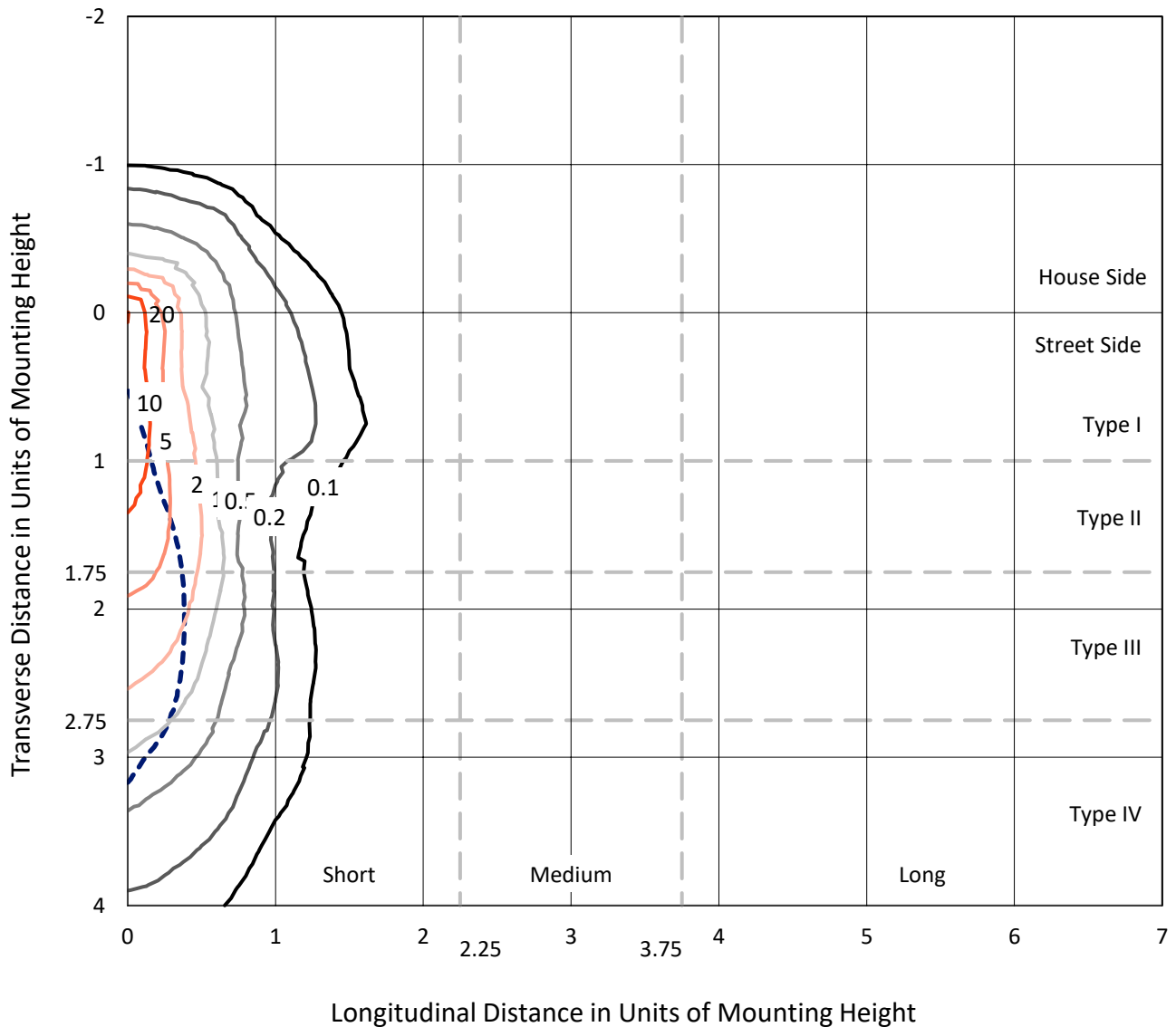
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

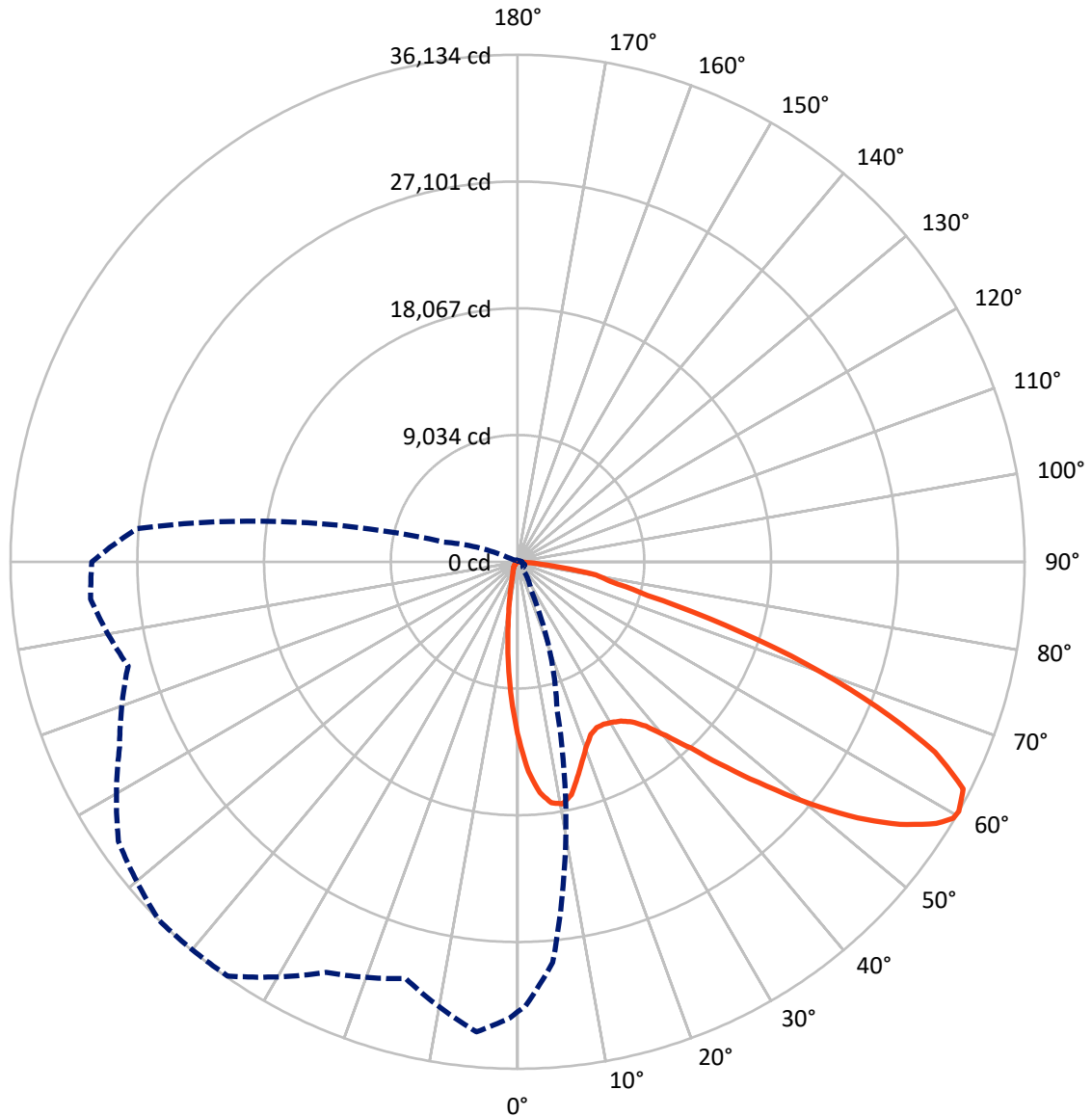
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.4 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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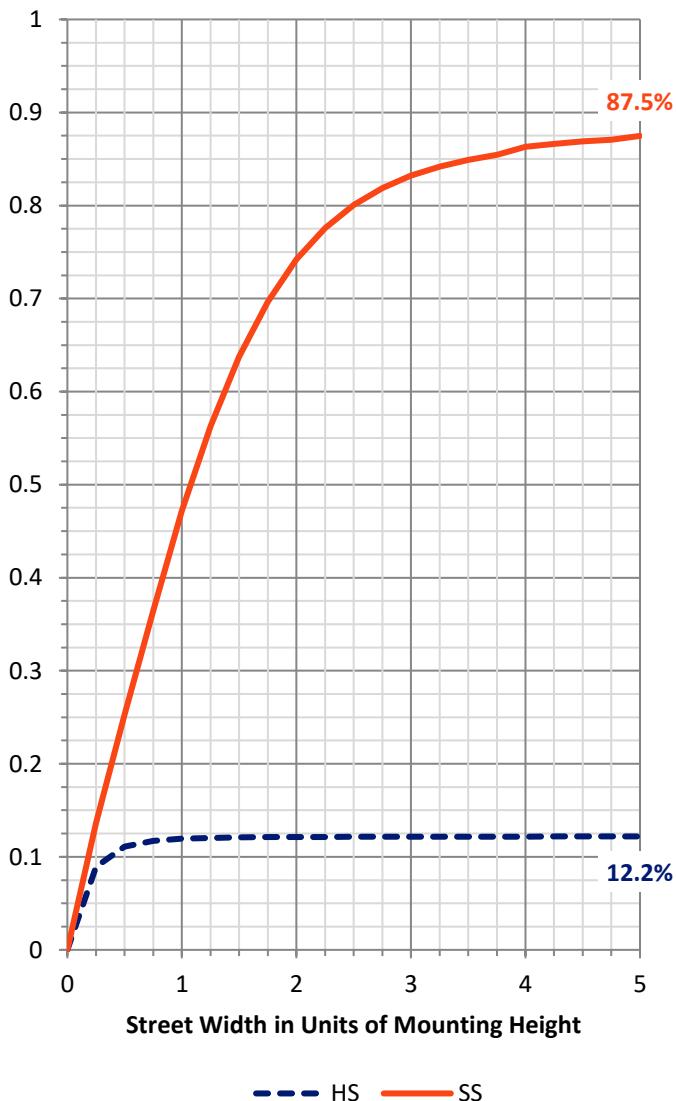
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4747.8	0.0	4747.8
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	33745.6	0.0	33745.6
	% Fixture	87.7	0.0	87.7
Total	Lumens	38493.4	0.0	38493.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	946.3	2.5
10°-20°	1879.3	4.9
20°-30°	2755.6	7.2
30°-40°	4098.0	10.6
40°-50°	5963.8	15.5
50°-60°	8600.3	22.3
60°-70°	9459.4	24.6
70°-80°	4237.1	11.0
80°-90°	553.6	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°	38493.4	100.0
0°-180°	38493.4	100.0

Coefficient of Utilization

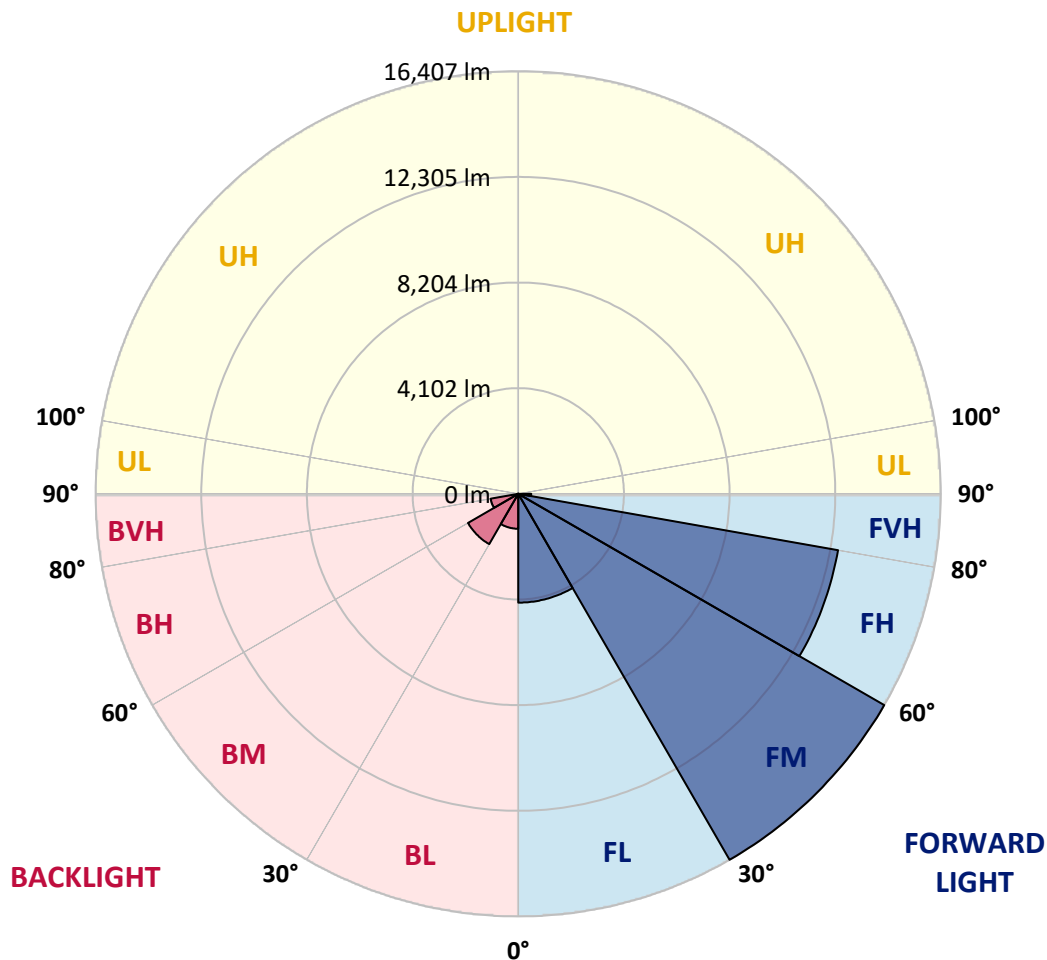


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4224.5	11.0			
FM (30°-60°)	16407.1	42.6			
FH (60°-80°)	12607.7	32.8			G5
FVH (80°-90°)	506.3	1.3			G4/750
BL (0°-30°)	1356.6	3.5	B3/2500		
BM (30°-60°)	2255.1	5.9	B2/2500		
BH (60°-80°)	1088.8	2.8	B3/2500		G3/2500
BVH (80°-90°)	47.3	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12722.6	12722.6	12722.6	12722.6	12722.6	12722.6	12722.6	12722.6	12722.6	12722.6	12722.6
2.5°	13986.7	13925.3	13784.8	13357.6	12986.0	12500.2	12008.6	11622.5	11385.4	10949.4	10750.4
5°	13550.7	13580.0	13173.3	12295.4	11318.1	10650.9	9922.4	9343.0	8705.1	8301.3	7877.1
7.5°	12412.5	12354.0	11912.1	10689.0	9501.0	8535.4	7613.7	6864.6	6393.5	6016.0	5700.0
10°	11438.1	11394.2	10829.5	9255.2	7979.4	7256.7	6633.5	5978.0	5471.8	4918.8	4476.9
12.5°	10826.5	10727.0	10077.5	8433.0	7394.2	6721.2	6042.3	5360.6	4661.2	4102.4	3566.9
15°	10621.7	10478.4	9755.6	8149.1	7019.7	6165.3	5313.8	4529.5	3724.9	3107.5	2703.7
17.5°	10993.3	10756.3	9986.7	8099.4	6572.0	5439.6	4392.0	3370.8	2534.0	2062.9	1814.2
20°	11844.8	11572.7	10572.0	8049.6	6074.5	4626.2	3338.7	2381.8	1752.7	1495.2	1357.7
22.5°	13108.8	12734.3	11438.1	8128.7	5615.2	3833.2	2411.1	1682.5	1392.8	1231.9	1135.4
25°	14627.5	14314.4	12535.4	8409.6	5252.3	3209.9	1863.9	1375.3	1173.4	1073.9	1000.7
27.5°	16292.4	15792.0	13954.5	8746.1	4921.7	2727.1	1635.7	1229.0	1044.6	953.9	915.8
30°	17477.5	17088.4	15142.5	8980.2	4509.1	2364.3	1495.2	1211.4	1047.5	939.3	869.1
32.5°	18647.9	18150.5	16137.4	9088.4	4207.7	2112.7	1293.3	1056.3	918.8	863.2	793.0
35°	19900.3	19379.5	17129.3	9029.9	3982.4	1945.8	1173.4	942.2	787.1	693.5	623.3
37.5°	21167.3	20617.2	18115.4	8819.2	3841.9	1878.5	1079.8	895.4	743.2	646.6	570.6
40°	22671.3	21936.9	19040.1	8646.6	3695.6	1843.5	1018.3	866.1	711.1	608.6	532.5
42.5°	23900.3	23200.9	19915.0	8555.9	3596.2	1761.5	1018.3	842.7	690.5	576.4	497.5
45°	25064.8	24339.2	20860.1	8629.0	3555.2	1659.1	1030.0	839.8	675.9	553.0	474.0
47.5°	26039.2	25410.1	21831.5	8904.1	3502.5	1547.9	968.5	880.8	667.2	532.5	450.6
50°	27189.2	26580.6	23116.1	9460.1	3408.9	1436.7	892.5	948.1	664.2	515.0	430.2
52.5°	28810.2	28151.9	24889.3	10092.1	3259.6	1267.0	822.2	939.3	652.5	485.8	409.7
55°	30791.2	30258.7	26943.4	10849.9	3054.8	1076.8	711.1	833.9	617.4	436.0	374.5
57.5°	32061.1	31607.6	28482.5	11177.6	2741.7	880.8	626.2	699.4	564.7	389.1	333.5
59°	32210.4	31800.7	28804.4	11069.4	2536.9	804.7	585.3	599.9	550.1	362.8	310.2
60°	32084.6	31660.3	28675.7	10858.7	2346.7	752.0	550.1	532.5	553.0	348.2	292.6
62.5°	31277.0	30551.3	27426.2	9790.7	2051.2	690.5	488.6	436.0	488.6	313.1	260.5
65°	29717.3	28628.8	24953.6	8286.7	1934.1	655.5	415.5	365.8	371.6	275.1	225.3
67.5°	26993.2	25620.8	21661.8	6733.0	1884.4	658.3	351.1	327.7	286.8	234.1	199.0
70°	22686.0	21316.6	17380.9	5539.1	1861.0	658.3	298.5	280.9	239.9	196.0	172.7
72.5°	16075.9	14601.2	11724.8	4351.1	1676.6	655.5	254.6	254.6	196.0	163.8	140.4
75°	9082.5	9094.2	7370.8	3078.2	1392.8	541.4	204.9	201.9	143.4	125.8	105.4
77.5°	5293.3	5199.7	4968.5	1322.6	646.6	245.8	143.4	122.9	99.5	90.7	76.1
80°	2721.2	2238.5	2180.0	479.9	231.2	155.1	99.5	70.2	64.3	58.5	52.6
82.5°	804.7	807.6	719.8	193.1	128.8	102.4	49.7	38.0	35.2	32.2	32.2
85°	55.6	35.2	41.0	58.5	79.0	41.0	2.9	8.7	8.7	11.7	14.6
87.5°	5.9	2.9	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°	12722.6	12722.6	12722.6	12722.6	12722.6	12722.6	12722.6	12722.6	12722.6	12722.6	12722.6
2.5°	10531.0	10659.8	10419.8	10425.6	10226.6	10291.1	10056.9	10133.0	9995.5	10100.8	10411.0
5°	7923.8	7953.1	7760.0	7698.5	7727.8	7847.8	7894.6	7680.9	7771.7	7593.2	7581.5
7.5°	5583.0	5618.0	5506.9	5492.2	5702.9	5653.2	5743.9	5524.4	5316.7	5407.4	5240.6
10°	4336.4	4190.1	3962.0	3897.5	3856.6	3882.9	3882.9	3683.9	3654.6	3575.7	3695.6
12.5°	3423.5	3245.0	3028.5	2735.9	2662.8	2656.9	2548.7	2373.0	2317.5	2250.2	2349.7
15°	2487.2	2414.0	2232.6	2068.8	1901.9	1869.8	1694.2	1550.8	1360.7	1334.3	1325.5
17.5°	1749.8	1641.5	1638.6	1545.0	1448.5	1384.0	1220.2	1056.3	983.1	974.4	974.4
20°	1310.9	1272.9	1211.4	1199.7	1170.4	1097.3	951.0	863.2	828.0	831.0	842.7
22.5°	1103.1	1076.8	1021.2	994.9	983.1	918.8	810.6	752.0	734.4	734.4	737.4
25°	986.1	962.7	901.2	860.3	845.6	798.8	713.9	670.1	655.5	655.5	655.5
27.5°	898.3	869.1	804.7	769.6	743.2	690.5	637.9	594.0	579.4	579.4	582.3
30°	836.9	804.7	746.1	699.4	658.3	611.6	567.7	529.7	512.1	509.1	512.1
32.5°	755.0	725.7	667.2	637.9	591.1	535.5	500.4	465.2	447.7	450.6	447.7
35°	588.1	579.4	538.4	547.2	520.8	474.0	441.9	403.8	383.3	380.4	386.3
37.5°	535.5	500.4	453.6	456.5	447.7	430.2	377.4	336.5	321.9	321.9	324.8
40°	494.5	459.4	406.7	380.4	383.3	383.3	327.7	283.8	269.2	266.3	272.1
42.5°	459.4	424.3	365.8	321.9	310.2	324.8	278.0	234.1	219.4	213.6	219.4
45°	436.0	398.0	330.7	280.9	245.8	263.3	228.2	193.1	175.6	175.6	172.7
47.5°	412.6	377.4	304.3	242.9	204.9	196.0	187.3	155.1	137.5	134.6	137.5
50°	392.1	357.0	275.1	210.7	172.7	152.1	152.1	122.9	111.2	105.4	108.2
52.5°	371.6	333.5	248.7	187.3	149.2	122.9	108.2	99.5	90.7	87.8	90.7
55°	342.4	304.3	222.4	161.0	128.8	102.4	84.9	81.9	76.1	70.2	76.1
57.5°	307.2	272.1	196.0	137.5	102.4	79.0	70.2	67.3	61.5	58.5	58.5
59°	286.8	254.6	181.4	120.0	90.7	70.2	64.3	61.5	55.6	49.7	52.6
60°	275.1	248.7	172.7	111.2	81.9	64.3	58.5	55.6	49.7	46.8	49.7
62.5°	242.9	222.4	152.1	90.7	64.3	46.8	41.0	43.9	41.0	38.0	41.0
65°	213.6	196.0	128.8	70.2	49.7	32.2	29.3	38.0	35.2	32.2	35.2
67.5°	190.2	169.7	108.2	52.6	35.2	17.6	20.5	32.2	32.2	29.3	32.2
70°	163.8	146.3	87.8	38.0	17.6	8.7	14.6	23.4	29.3	26.3	29.3
72.5°	134.6	114.1	67.3	26.3	8.7	0.0	8.7	20.5	29.3	26.3	29.3
75°	105.4	84.9	49.7	14.6	0.0	0.0	2.9	17.6	29.3	26.3	29.3
77.5°	76.1	61.5	29.3	2.9	0.0	0.0	2.9	17.6	29.3	26.3	29.3
80°	49.7	43.9	11.7	0.0	0.0	0.0	2.9	17.6	29.3	29.3	32.2
82.5°	32.2	23.4	0.0	0.0	0.0	0.0	5.9	23.4	32.2	35.2	35.2
85°	14.6	0.0	0.0	0.0	0.0	0.0	11.7	29.3	38.0	38.0	38.0
87.5°	0.0	0.0	0.0	0.0	0.0	5.9	20.5	35.2	43.9	43.9	43.9
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°	12722.6	12722.6	12722.6	12722.6	12722.6	12722.6	12722.6	12722.6	12722.6	12722.6	12722.6
2.5°	10463.7	10648.1	10908.4	11309.3	11634.1	12146.1	12538.3	13073.8	13615.1	13778.9	14033.5
5°	7701.5	7938.5	8529.5	9067.9	9407.3	10490.0	11174.7	12254.5	13223.0	13688.2	14194.5
7.5°	5348.8	5629.8	6080.4	6832.5	7546.4	8427.2	9533.2	10768.0	12187.2	12851.4	13565.3
10°	3754.1	4105.3	4740.3	5357.7	6255.9	7092.8	8184.3	9547.8	11113.3	11897.5	12792.9
12.5°	2370.1	2683.2	3523.0	4216.5	5337.2	6308.7	7315.2	8550.0	10364.2	11168.9	12108.1
15°	1354.8	1618.1	2010.2	2899.8	4143.4	5427.9	6683.2	8117.0	9980.9	10972.9	11988.2
17.5°	1009.5	1079.8	1255.3	1758.6	2890.9	4392.0	6100.9	7985.3	10241.3	11405.9	12564.6
20°	848.6	895.4	977.3	1176.3	1843.5	3382.6	5533.2	8008.7	11084.0	12547.0	13647.2
22.5°	760.8	790.0	857.3	986.1	1258.2	2463.8	4869.0	8146.3	12105.2	13948.7	15218.6
25°	667.2	705.2	763.7	874.9	1047.5	1708.8	4213.6	8453.5	13536.1	15727.7	16921.6
27.5°	594.0	629.1	687.6	790.0	918.8	1305.1	3449.9	8716.8	15045.9	17518.5	18495.8
30°	520.8	556.0	614.5	696.4	813.4	1056.3	2627.6	8871.9	16511.9	18861.5	19613.5
32.5°	459.4	488.6	544.2	617.4	713.9	895.4	2071.6	8711.0	17632.6	20081.7	20585.0
35°	398.0	433.0	479.9	547.2	632.0	763.7	1723.5	8155.0	18595.3	21337.0	21518.4
37.5°	333.5	374.5	424.3	485.8	553.0	702.2	1384.0	7540.5	19625.2	22902.4	22604.0
40°	280.9	318.9	365.8	433.0	494.5	643.7	1065.1	6885.1	20737.2	24371.3	23789.1
42.5°	228.2	269.2	324.8	386.3	488.6	561.8	825.2	6206.2	21735.0	25650.1	24860.0
45°	181.4	216.6	275.1	354.1	485.8	482.8	637.9	5536.1	22487.0	26563.0	25658.8
47.5°	143.4	172.7	231.2	345.3	447.7	409.7	512.1	5120.7	23277.0	27385.2	26270.4
50°	114.1	143.4	199.0	359.9	392.1	351.1	430.2	5188.0	24040.7	27803.7	26522.0
52.5°	96.5	125.8	172.7	283.8	301.4	307.2	377.4	5498.1	25026.8	28251.4	27022.4
55°	84.9	111.2	146.3	199.0	234.1	275.1	345.3	5723.4	26346.5	29211.1	28125.6
57.5°	67.3	96.5	131.7	169.7	193.1	239.9	318.9	5741.0	27540.3	30443.0	29591.5
59°	61.5	87.8	122.9	161.0	172.7	216.6	301.4	5591.7	27584.2	30627.4	30264.5
60°	55.6	84.9	117.1	149.2	163.8	204.9	286.8	5419.2	27186.3	30334.7	30542.5
62.5°	46.8	73.2	102.4	120.0	140.4	169.7	248.7	4792.9	25258.0	29009.2	30027.5
65°	41.0	64.3	87.8	99.5	117.1	146.3	219.4	3836.1	23127.8	27212.6	28552.7
67.5°	38.0	58.5	76.1	84.9	102.4	134.6	196.0	2709.5	20368.5	24933.2	26337.7
70°	35.2	55.6	67.3	79.0	90.7	114.1	166.8	1580.1	15689.7	20936.1	22419.6
72.5°	35.2	52.6	58.5	67.3	79.0	102.4	155.1	854.5	10727.0	15970.6	17887.1
75°	35.2	49.7	52.6	58.5	70.2	93.6	137.5	447.7	6934.8	11095.7	13694.1
77.5°	35.2	46.8	52.6	55.6	67.3	81.9	120.0	280.9	4620.3	7771.7	9255.2
80°	38.0	46.8	49.7	55.6	64.3	76.1	99.5	187.3	2715.4	4675.9	5632.7
82.5°	41.0	46.8	52.6	58.5	67.3	73.2	87.8	117.1	1252.3	3092.9	3499.6
85°	43.9	49.7	55.6	61.5	70.2	73.2	81.9	84.9	204.9	1395.7	1887.3
87.5°	46.8	52.6	58.5	64.3	76.1	76.1	76.1	76.1	70.2	149.2	380.4
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: P653115

CATALOG NUMBER: GLAN-SA9C-840-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12722.6	12722.6	12722.6	12722.6	12722.6	12722.6	12722.6	12722.6	12722.6	12722.6
2.5°	14355.4	14686.0	14917.2	14975.7	14808.9	14732.8	14522.1	14194.5	13995.5	13986.7
5°	15127.8	15903.3	16441.7	16532.4	16210.5	15666.2	15019.6	14185.7	13697.0	13550.7
7.5°	14996.2	16353.9	17220.0	17345.9	16804.5	15765.7	14513.4	13170.3	12637.8	12412.5
10°	14454.9	16111.0	17348.7	17547.7	16825.0	15362.0	13770.2	12272.0	11610.7	11438.1
12.5°	13992.6	15666.2	16766.5	17041.5	16494.4	15034.2	13325.4	11695.5	10987.4	10826.5
15°	13790.6	15139.6	15812.6	15953.0	15862.4	14829.4	13278.5	11607.8	10797.3	10621.7
17.5°	13992.6	14691.8	14776.7	14920.1	15122.0	14808.9	13729.2	12084.7	11209.9	10993.3
20°	14522.1	14302.7	13951.6	14013.0	14475.4	14893.8	14531.0	13141.0	12075.9	11844.8
22.5°	15423.4	14206.2	13410.2	13357.6	13942.8	15177.6	15707.2	14571.9	13337.1	13108.8
25°	16529.4	14449.1	13211.3	13097.1	13735.0	15593.1	16985.9	16324.7	14975.7	14627.5
27.5°	17735.0	14952.3	13211.3	13100.1	13717.5	15961.8	18080.3	17875.5	16672.8	16292.4
30°	18396.3	15367.8	13401.5	13275.7	13934.0	16175.4	18665.5	19253.7	17948.6	17477.5
32.5°	18987.3	15944.3	13773.1	13536.1	14387.6	16491.4	19189.3	20424.1	18964.0	18647.9
35°	19531.6	16561.6	14285.1	14010.1	14984.5	16924.5	19768.6	21653.1	20377.3	19900.3
37.5°	20131.4	17278.5	15084.0	14849.9	15982.3	17767.2	20456.2	23268.2	21767.2	21167.3
40°	20784.0	18109.5	16397.8	16298.3	17568.2	18721.1	21325.3	24991.7	23353.1	22671.3
42.5°	21448.2	19066.4	18007.2	18171.0	19364.9	20058.4	22217.8	26317.2	24652.3	23900.3
45°	22051.0	20289.5	20099.3	20909.8	21459.9	21363.3	22879.1	27250.7	25784.6	25064.8
47.5°	22811.8	22071.5	22630.4	23879.8	23894.4	22782.5	23379.5	28014.4	26759.0	26039.2
50°	23663.2	24175.3	25898.8	27171.6	26829.2	24178.2	23964.6	28918.5	27765.6	27189.2
52.5°	24649.4	26530.9	28918.5	30331.8	29533.0	25699.8	24939.0	29895.8	29363.3	28810.2
55°	25796.4	28137.3	31929.5	33056.0	32251.3	27590.1	26419.6	31221.4	31168.6	30791.2
57.5°	27092.6	29834.4	33673.4	35197.9	34481.0	29808.1	28488.4	32470.8	32271.8	32061.1
59°	28116.7	30706.3	34443.0	36023.1	35590.0	31361.8	29878.3	33249.1	32526.3	32210.4
60°	28737.1	31297.4	34726.8	36134.2	36034.7	32286.4	30759.0	33629.5	32523.5	32084.6
62.5°	30577.6	32330.3	34618.5	35639.7	36028.9	34059.7	33342.8	34048.0	31920.7	31277.0
65°	31233.1	31987.9	32824.8	32699.0	33032.5	33968.9	34993.1	33588.5	30633.2	29717.3
67.5°	29957.3	28233.8	28529.3	27689.6	27525.7	30200.1	34323.0	31341.3	28113.9	26993.2
70°	25252.1	21629.6	21480.4	21866.7	20807.4	24450.4	30820.5	27013.6	23955.9	22686.0
72.5°	19876.9	15285.8	14027.6	15449.8	15417.5	18653.8	25603.2	19168.8	16184.2	16075.9
75°	15631.2	10642.2	9340.1	9571.3	10016.0	13503.9	20391.9	12172.5	9966.3	9082.5
77.5°	10492.9	7540.5	7034.3	6750.5	7230.3	8670.0	12901.1	6601.3	5588.9	5293.3
80°	6048.2	5477.6	6220.9	5647.3	5904.8	5463.0	6416.9	3028.5	2513.5	2721.2
82.5°	3935.6	3119.2	3324.1	2469.6	3376.7	3406.0	2059.9	895.4	757.8	804.7
85°	2460.9	1463.0	822.2	585.3	1164.6	2141.9	643.7	55.6	64.3	55.6
87.5°	637.9	242.9	102.4	152.1	187.3	166.8	149.2	8.7	2.9	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)