

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: P653828

Luminaire Tested: **GLAN-SA4A-840-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P653828
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4A-840-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8410.9 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 121
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

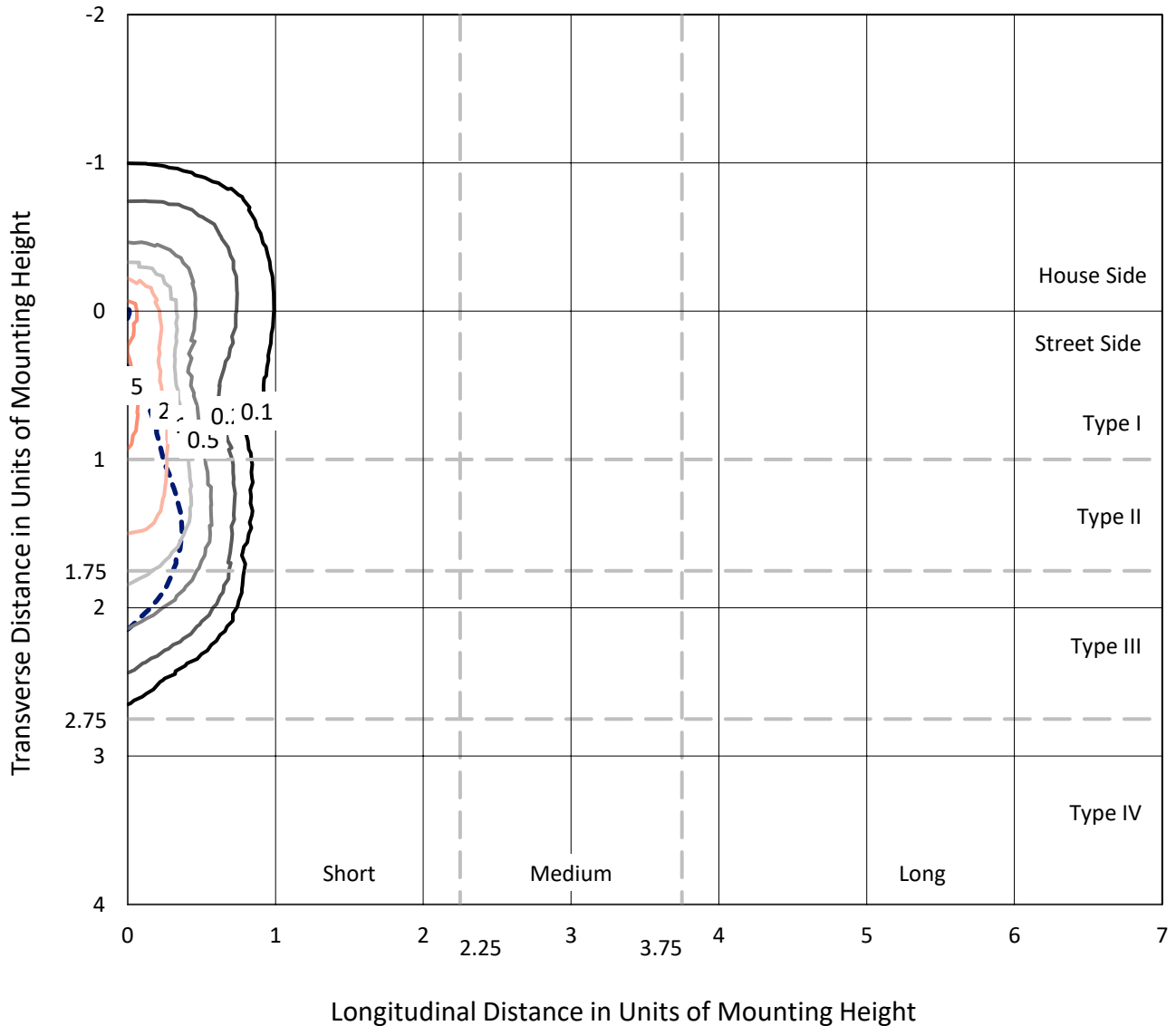




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Iso-Footcandle Lines of Horizontal Illumination

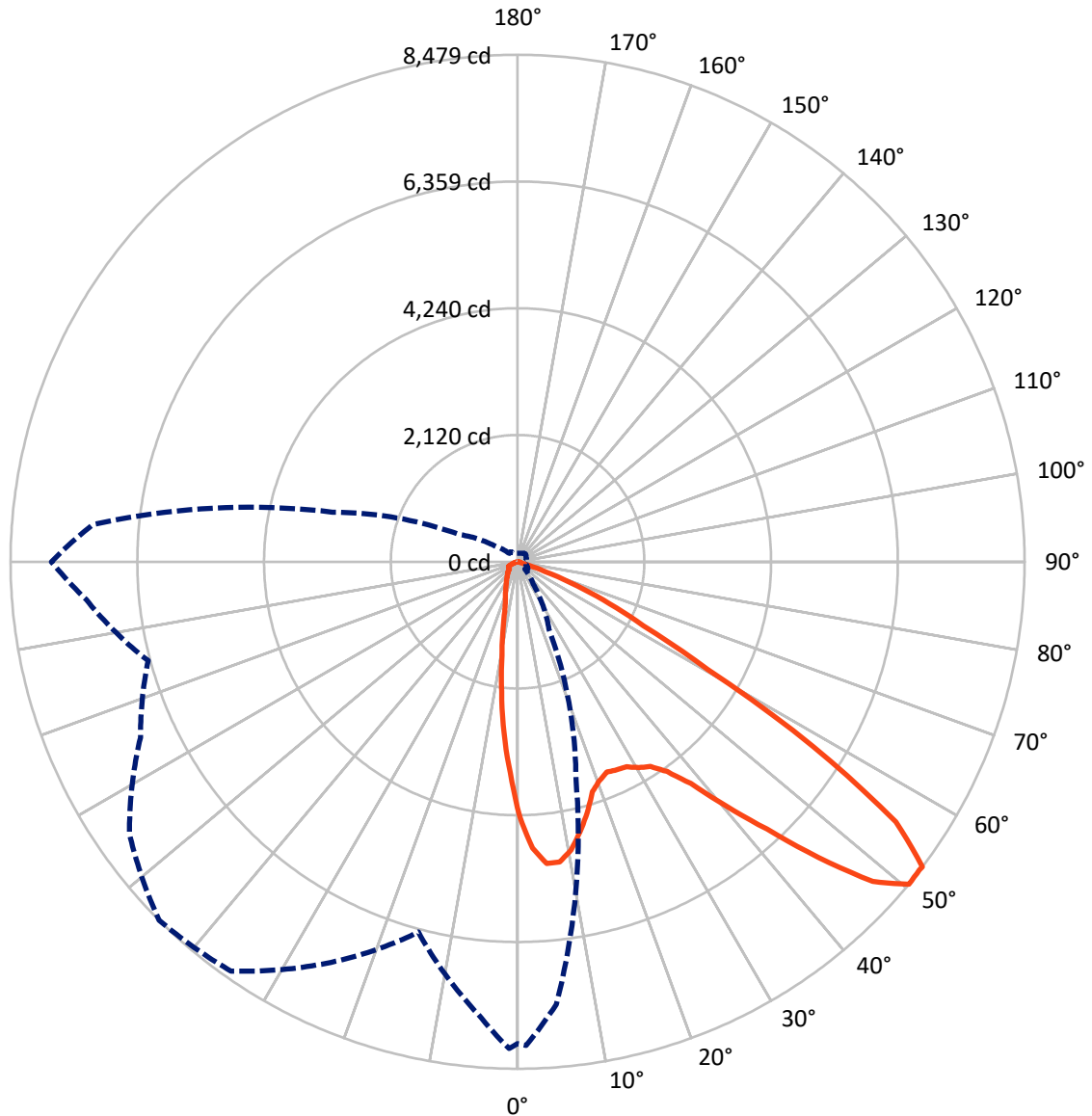
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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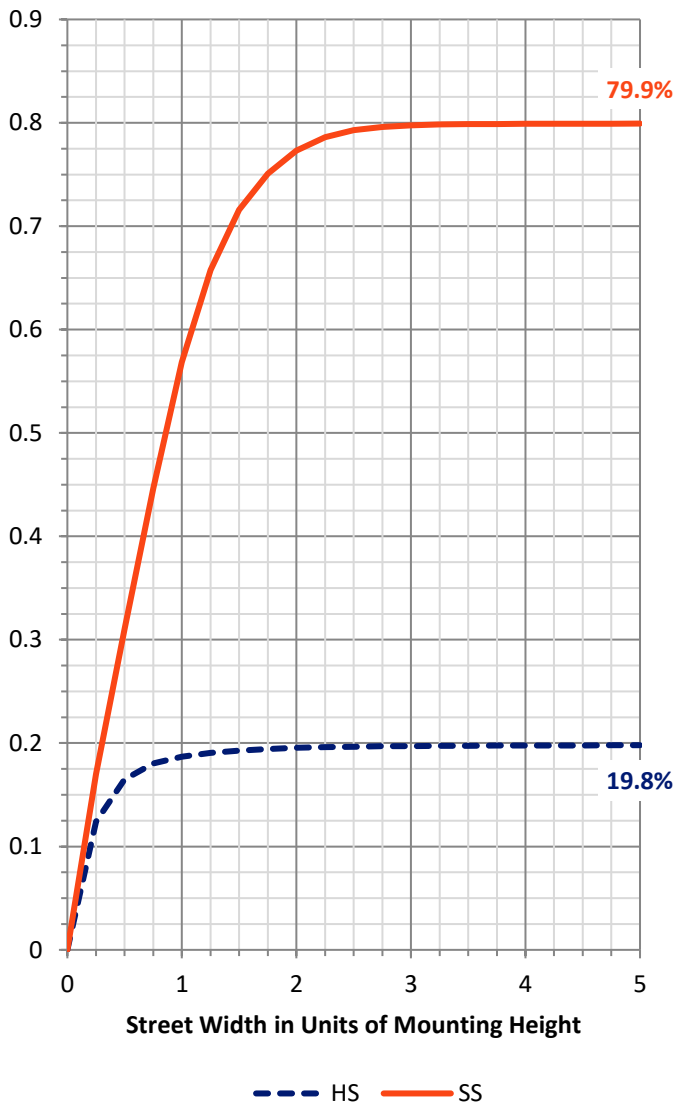
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1684.7	0.0	1684.7
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	6726.2	0.0	6726.2
	% Fixture	80.0	0.0	80.0
Total	Lumens	8410.9	0.0	8410.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.9	3.7
10°-20°	617.9	7.3
20°-30°	928.3	11.0
30°-40°	1393.3	16.6
40°-50°	1958.2	23.3
50°-60°	2112.3	25.1
60°-70°	980.7	11.7
70°-80°	92.3	1.1
80°-90°	17.0	0.2
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°	8410.9	100.0
0°-180°	8410.9	100.0

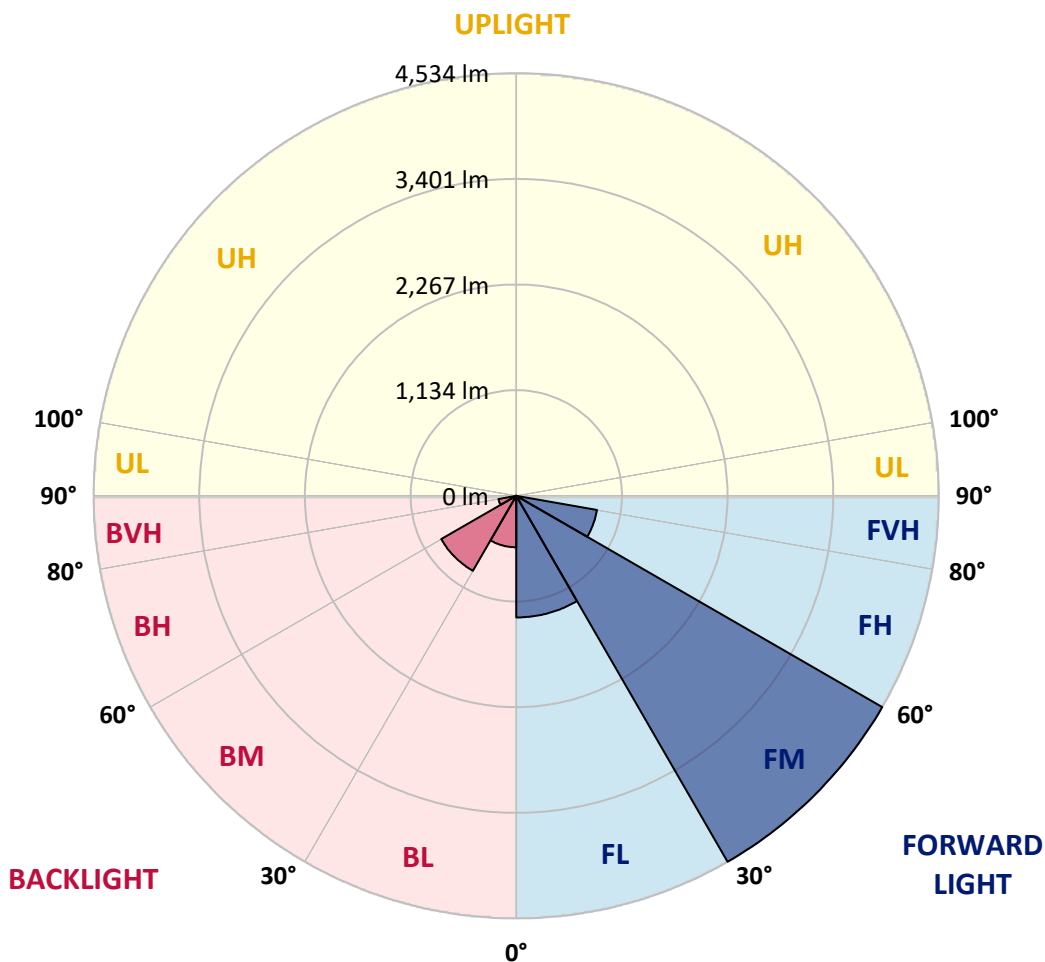


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1304.9	15.5			
FM (30°-60°)	4534.1	53.9			
FH (60°-80°)	879.6	10.5			G1/1800
FVH (80°-90°)	7.7	0.1			G0/10
BL (0°-30°)	552.2	6.6	B2/1000		
BM (30°-60°)	929.7	11.1	B1/1000		
BH (60°-80°)	193.5	2.3	B1/500		G1/500
BVH (80°-90°)	9.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4265.4	4265.4	4265.4	4265.4	4265.4	4265.4	4265.4	4265.4	4265.4	4265.4	4265.4
2.5°	4433.9	4365.5	4278.7	4206.9	4100.1	3884.9	3826.5	3756.4	3698.0	3619.6	3509.4
5°	4031.8	4010.1	3970.0	3699.6	3504.4	3244.1	3030.5	2940.4	2821.9	2725.1	2655.0
7.5°	3724.7	3637.9	3511.1	3239.0	2927.0	2648.3	2411.4	2272.9	2116.0	2062.6	1967.4
10°	3396.0	3416.0	3229.0	2846.9	2469.8	2244.5	2097.6	1964.2	1822.3	1728.8	1593.7
12.5°	3290.8	3225.7	3082.2	2610.0	2287.9	2077.6	1899.1	1733.8	1583.7	1433.5	1303.3
15°	3359.2	3259.1	3058.8	2559.9	2147.7	1885.7	1662.1	1438.4	1299.9	1108.0	972.9
17.5°	3604.5	3524.5	3255.8	2613.3	2075.9	1702.1	1370.1	1139.7	927.8	754.3	685.8
20°	4013.3	3899.9	3562.8	2681.7	1969.1	1480.2	1111.4	827.7	627.5	554.1	515.6
22.5°	4413.9	4352.1	3926.6	2813.6	1874.0	1283.3	834.4	557.3	468.9	455.6	430.5
25°	5176.5	4991.3	4482.3	3052.2	1800.6	1098.0	629.2	448.9	397.2	387.1	390.5
27.5°	5630.4	5475.2	4996.3	3210.7	1718.8	956.2	532.4	412.2	377.1	355.4	347.1
30°	6066.0	5885.7	5251.6	3304.1	1543.6	806.0	472.2	395.5	387.1	355.4	345.4
32.5°	6401.4	6224.5	5620.4	3444.3	1471.8	709.2	388.8	308.7	287.0	283.7	313.7
35°	6915.4	6726.8	5935.8	3521.1	1416.7	659.2	337.1	275.3	250.3	240.3	242.0
37.5°	7394.3	7265.8	6227.9	3551.1	1358.4	644.1	302.1	247.0	225.3	218.6	217.0
40°	7794.8	7507.8	6504.8	3582.8	1333.3	615.8	280.4	225.3	210.2	200.2	200.2
42.5°	7978.3	7686.3	6815.2	3564.5	1326.7	570.7	280.4	206.9	195.3	185.3	183.6
45°	7938.3	7819.8	6953.7	3556.2	1326.7	525.6	255.3	201.9	185.3	171.9	168.5
47.5°	8041.7	7886.6	7127.3	3591.2	1299.9	493.9	215.3	211.9	175.2	158.5	155.2
50°	8060.1	8090.2	7429.3	3773.1	1241.6	453.9	168.5	208.6	168.5	143.5	140.2
52°	8180.2	7993.4	7521.1	3869.9	1179.8	423.9	141.9	178.5	161.9	133.5	130.2
52.5°	8015.1	8136.9	7542.8	3904.9	1186.5	403.8	136.8	175.2	158.5	133.5	125.1
55°	7829.8	7946.6	7454.4	3980.0	1088.0	317.1	106.8	126.8	143.5	116.8	111.8
57.5°	6805.2	6923.7	6478.1	3644.6	886.1	223.6	88.5	95.1	126.8	108.5	103.4
60°	6049.2	5964.1	5436.8	3040.5	629.2	125.1	70.1	73.4	138.5	100.2	98.5
62.5°	5528.6	5346.7	4544.0	2348.0	383.8	83.4	55.1	56.8	106.8	93.4	93.4
65°	4090.1	3886.5	3018.8	1420.1	188.6	58.4	41.7	45.1	66.8	80.1	80.1
67.5°	2334.6	2256.2	1458.5	640.8	78.5	36.8	31.7	35.1	51.7	65.1	61.7
70°	1073.0	962.9	560.7	135.1	36.8	25.1	25.1	28.3	41.7	48.4	45.1
72.5°	313.7	297.0	136.8	21.7	15.1	15.1	16.7	21.7	31.7	36.8	33.4
75°	23.4	15.1	10.0	6.6	6.6	10.0	13.4	21.7	31.7	35.1	28.3
77.5°	1.7	3.4	1.7	1.7	5.0	10.0	15.1	26.7	41.7	43.4	31.7
80°	1.7	1.7	0.0	1.7	5.0	10.0	16.7	30.0	46.8	50.0	26.7
82.5°	0.0	0.0	0.0	1.7	6.6	13.4	20.0	31.7	43.4	53.4	28.3
85°	0.0	0.0	0.0	1.7	10.0	18.3	23.4	8.3	5.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4265.4	4265.4	4265.4	4265.4	4265.4	4265.4	4265.4	4265.4	4265.4	4265.4	4265.4
2.5°	3587.9	3544.5	3527.7	3542.8	3537.8	3532.8	3624.5	3604.5	3601.2	3631.2	3624.5
5°	2693.4	2616.6	2826.9	2741.7	2830.2	2883.6	2893.6	2898.7	2960.4	2895.3	2980.4
7.5°	1919.1	1939.1	1937.4	1994.2	2095.9	2186.1	2239.5	2197.8	2194.4	2186.1	2149.3
10°	1533.6	1498.6	1491.8	1478.6	1510.3	1587.0	1652.1	1600.3	1563.7	1613.7	1598.7
12.5°	1253.3	1204.8	1178.2	1124.8	1126.4	1178.2	1178.2	1178.2	1214.8	1243.3	1264.9
15°	961.2	921.1	921.1	867.7	856.1	857.7	884.5	887.8	946.2	962.9	971.2
17.5°	672.5	650.8	675.8	697.5	684.2	687.5	697.5	700.9	709.2	702.6	719.2
20°	517.3	514.0	520.7	559.0	587.4	604.1	592.4	575.7	565.7	542.4	542.4
22.5°	438.9	445.6	457.3	489.0	525.6	535.6	522.3	483.9	453.9	450.6	452.2
25°	390.5	397.2	415.5	435.6	455.6	472.2	458.9	430.5	413.9	398.8	398.8
27.5°	360.5	363.8	373.8	388.8	405.5	418.8	413.9	398.8	380.5	373.8	358.8
30°	337.1	342.1	353.8	357.1	372.1	378.8	370.5	367.1	355.4	347.1	342.1
32.5°	325.4	323.7	332.1	335.4	337.1	342.1	332.1	337.1	335.4	322.1	317.1
35°	245.3	258.7	280.4	298.7	303.7	310.4	308.7	302.1	283.7	268.7	250.3
37.5°	220.3	228.6	240.3	255.3	275.3	283.7	280.4	263.7	242.0	231.9	228.6
40°	203.6	208.6	218.6	228.6	248.7	263.7	252.0	237.0	220.3	211.9	206.9
42.5°	188.6	190.2	195.3	205.3	220.3	243.6	223.6	203.6	196.9	191.9	188.6
45°	171.9	171.9	178.5	183.6	200.2	221.9	201.9	183.6	180.2	176.9	175.2
47.5°	158.5	160.2	163.6	170.2	183.6	198.6	185.3	170.2	161.9	160.2	156.8
50°	141.9	143.5	150.2	156.8	173.6	181.9	173.6	156.8	148.5	143.5	143.5
52°	128.5	133.5	140.2	153.6	165.2	178.5	168.5	150.2	140.2	135.1	131.9
52.5°	126.8	130.2	136.8	151.9	165.2	176.9	166.9	148.5	136.8	133.5	130.2
55°	113.5	118.5	130.2	148.5	163.6	176.9	163.6	146.8	130.2	121.9	118.5
57.5°	108.5	111.8	126.8	150.2	161.9	176.9	163.6	146.8	130.2	115.1	111.8
60°	103.4	110.2	126.8	145.2	160.2	178.5	165.2	145.2	126.8	108.5	108.5
62.5°	98.5	103.4	125.1	141.9	153.6	171.9	158.5	141.9	121.9	103.4	101.8
65°	85.1	93.4	110.2	118.5	131.9	148.5	135.1	123.5	106.8	91.8	90.2
67.5°	65.1	68.5	81.7	91.8	100.2	115.1	108.5	93.4	81.7	70.1	70.1
70°	45.1	48.4	58.4	63.4	71.7	80.1	75.1	63.4	55.1	48.4	46.8
72.5°	31.7	33.4	36.8	40.0	43.4	46.8	45.1	36.8	31.7	30.0	28.3
75°	25.1	28.3	30.0	28.3	26.7	25.1	25.1	21.7	18.3	16.7	16.7
77.5°	25.1	26.7	25.1	21.7	18.3	16.7	15.1	13.4	10.0	8.3	10.0
80°	21.7	21.7	21.7	18.3	16.7	15.1	13.4	11.7	10.0	8.3	8.3
82.5°	23.4	23.4	21.7	18.3	18.3	15.1	15.1	13.4	11.7	8.3	8.3
85°	0.0	0.0	0.0	3.4	8.3	15.1	15.1	13.4	11.7	10.0	10.0
87.5°	0.0	0.0	0.0	0.0	1.7	3.4	6.6	8.3	10.0	10.0	10.0
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°	4265.4	4265.4	4265.4	4265.4	4265.4	4265.4	4265.4	4265.4	4265.4	4265.4	4265.4
2.5°	3684.6	3748.0	3868.2	3988.4	4061.8	4148.6	4305.4	4388.8	4497.3	4550.7	4655.9
5°	2968.7	3118.9	3172.3	3309.2	3456.0	3602.8	3836.5	4093.5	4307.1	4453.9	4644.2
7.5°	2166.1	2201.1	2408.0	2499.8	2740.1	3007.1	3325.8	3649.6	3919.9	4160.3	4305.4
10°	1623.7	1752.2	1882.3	2057.6	2251.2	2526.5	2831.9	3189.0	3539.4	3779.7	3963.3
12.5°	1305.0	1406.7	1580.3	1768.9	2007.6	2189.4	2496.5	2850.2	3304.1	3539.4	3781.4
15°	987.9	1118.1	1315.0	1510.3	1762.2	1954.1	2264.5	2710.0	3294.1	3617.9	3826.5
17.5°	732.6	821.1	997.9	1216.5	1473.5	1743.9	2162.7	2695.1	3406.0	3791.4	4006.7
20°	560.7	590.7	702.6	897.8	1176.5	1530.3	1997.5	2760.2	3736.4	4213.7	4432.2
22.5°	453.9	467.3	510.7	645.8	916.2	1343.3	1919.1	2805.2	4108.5	4719.3	5011.3
25°	395.5	392.2	420.5	478.9	715.9	1168.1	1818.9	2975.4	4564.1	5313.4	5575.3
27.5°	360.5	360.5	373.8	415.5	594.1	1054.7	1755.5	3097.2	5023.0	5835.7	5977.5
30°	342.1	345.4	383.8	397.2	493.9	919.5	1650.4	3220.7	5461.9	6169.4	6364.7
32.5°	317.1	303.7	295.4	328.7	415.5	797.7	1545.3	3272.4	5817.3	6578.3	6745.2
35°	243.6	237.0	247.0	272.0	357.1	694.2	1428.4	3330.9	6226.2	7052.2	7085.6
37.5°	220.3	218.6	225.3	247.0	300.4	604.1	1345.0	3315.8	6538.2	7444.4	7354.2
40°	203.6	203.6	208.6	227.0	268.7	540.7	1258.2	3302.4	6840.3	7884.9	7621.2
42.5°	190.2	190.2	198.6	210.2	255.3	499.0	1193.1	3284.1	7093.9	8155.3	7778.1
45°	171.9	176.9	190.2	201.9	258.7	470.6	1144.8	3214.0	7180.7	8151.9	7703.0
47.5°	158.5	165.2	178.5	195.3	233.6	462.2	1111.4	3152.3	7150.7	7951.7	7467.7
50°	143.5	151.9	170.2	198.6	198.6	445.6	1076.3	3207.3	7129.0	7796.5	7242.4
52°	133.5	140.2	163.6	193.6	173.6	410.5	1054.7	3314.1	7217.4	7776.4	7142.3
52.5°	131.9	136.8	158.5	190.2	165.2	403.8	1039.6	3339.2	7245.8	7726.4	7210.7
55°	116.8	123.5	145.2	148.5	135.1	332.1	991.3	3396.0	7105.6	7628.0	7145.6
57.5°	110.2	113.5	128.5	121.9	116.8	250.3	852.8	3307.5	6311.3	6775.2	6648.4
60°	101.8	105.1	120.2	95.1	98.5	175.2	640.8	2871.9	5068.0	5645.5	5874.0
62.5°	98.5	96.8	113.5	76.8	83.4	126.8	452.2	2334.6	3904.9	4647.5	5043.0
65°	86.8	85.1	81.7	65.1	71.7	98.5	270.4	1523.6	2751.8	3516.1	3733.0
67.5°	66.8	70.1	60.0	51.7	60.0	76.8	150.2	682.6	1443.5	2109.3	2284.6
70°	46.8	50.0	48.4	45.1	53.4	63.4	86.8	233.6	597.4	1108.0	1221.6
72.5°	28.3	35.1	36.8	38.3	46.8	55.1	61.7	75.1	158.5	392.2	487.3
75°	16.7	23.4	28.3	33.4	38.3	46.8	51.7	53.4	55.1	73.4	118.5
77.5°	11.7	16.7	25.1	31.7	38.3	46.8	55.1	58.4	55.1	51.7	55.1
80°	10.0	16.7	23.4	30.0	40.0	48.4	55.1	55.1	53.4	46.8	50.0
82.5°	10.0	16.7	25.1	31.7	38.3	46.8	53.4	55.1	50.0	46.8	48.4
85°	11.7	18.3	26.7	33.4	41.7	38.3	35.1	28.3	26.7	21.7	23.4
87.5°	11.7	16.7	16.7	18.3	20.0	20.0	20.0	18.3	15.1	13.4	13.4
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: P653828

CATALOG NUMBER: GLAN-SA4A-840-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4265.4	4265.4	4265.4	4265.4	4265.4	4265.4	4265.4	4265.4	4265.4	4265.4
2.5°	4660.8	4794.4	4789.3	4792.7	4772.7	4637.5	4572.4	4407.2	4453.9	4433.9
5°	4839.5	4971.2	5084.7	5071.4	4917.8	4734.2	4462.3	4205.3	4135.2	4031.8
7.5°	4660.8	4977.9	5083.1	5068.0	4841.0	4605.8	4171.9	3914.9	3793.1	3724.7
10°	4377.2	4744.3	4874.4	4901.2	4747.6	4390.5	3991.6	3579.5	3514.5	3396.0
12.5°	4215.3	4482.3	4562.4	4634.2	4580.8	4313.7	3854.8	3459.4	3369.2	3290.8
15°	4083.5	4242.0	4275.4	4357.1	4388.8	4245.4	3926.6	3589.5	3367.5	3359.2
17.5°	4205.3	4140.2	4018.4	4043.4	4143.5	4247.0	4111.8	3846.5	3631.2	3604.5
20°	4407.2	4120.1	3844.8	3906.6	3990.0	4307.1	4392.2	4205.3	4081.8	4013.3
22.5°	4639.1	4155.2	3789.8	3819.8	3978.4	4442.2	4846.1	4742.7	4512.3	4413.9
25°	5068.0	4252.0	3833.1	3853.2	4070.1	4630.8	5256.6	5333.4	5196.5	5176.5
27.5°	5486.9	4502.3	3928.2	3883.2	4116.9	4814.4	5505.3	5917.4	5677.2	5630.4
30°	5700.5	4705.9	4070.1	3993.3	4310.4	4926.2	5655.5	6297.9	6087.7	6066.0
32.5°	6027.5	4891.2	4180.3	4081.8	4418.9	5064.7	5935.8	6713.5	6509.8	6401.4
35°	6164.4	5093.1	4422.2	4307.1	4729.3	5258.3	6079.3	7083.9	7020.5	6915.4
37.5°	6428.1	5310.0	4707.6	4700.9	5104.8	5510.2	6337.9	7587.8	7576.1	7394.3
40°	6449.8	5547.0	5158.1	5368.4	5685.5	5949.1	6564.9	7728.0	7918.3	7794.8
42.5°	6483.1	5962.5	5937.5	6111.0	6383.0	6326.3	6573.3	7761.4	8051.8	7978.3
45°	6498.2	6378.0	6730.1	7050.5	7164.0	6820.3	6494.8	7698.0	8121.9	7938.3
47.5°	6378.0	6735.1	7370.9	7990.0	8023.4	7123.9	6461.5	7632.9	8163.6	8041.7
50°	6394.7	6958.8	7924.9	8479.0	8357.2	7392.6	6409.7	7592.9	8141.9	8060.1
52°	6354.7	6963.7	8003.4	8469.0	8383.8	7244.1	6321.3	7439.3	8121.9	8180.2
52.5°	6399.7	6933.7	7921.6	8475.7	8365.5	7317.5	6309.6	7524.4	8133.6	8015.1
55°	6244.5	6576.6	7442.7	7678.0	7661.3	6641.7	5950.8	7242.4	7828.2	7829.8
57.5°	5643.8	5700.5	5837.3	5832.3	5755.6	5221.5	5089.7	6660.0	6978.8	6805.2
60°	4972.9	4173.5	3804.8	3654.6	3569.5	3482.7	4502.3	6092.6	6122.6	6049.2
62.5°	4297.1	2893.6	2403.0	2361.3	2381.3	2698.3	4352.1	5867.4	5687.2	5528.6
65°	3467.7	2109.3	1745.5	1690.5	1885.7	2227.8	3522.8	4499.0	4222.0	4090.1
67.5°	2177.8	1538.6	1179.8	1076.3	1311.6	1533.6	2314.6	2826.9	2516.5	2334.6
70°	1291.6	859.4	534.0	478.9	539.0	817.7	1296.7	1410.1	1166.5	1073.0
72.5°	509.0	315.4	148.5	126.8	131.9	287.0	477.3	465.6	352.1	313.7
75°	136.8	95.1	51.7	41.7	35.1	53.4	76.8	50.0	18.3	23.4
77.5°	63.4	56.8	45.1	35.1	26.7	20.0	10.0	3.4	3.4	1.7
80°	55.1	48.4	41.7	35.1	26.7	16.7	8.3	1.7	1.7	1.7
82.5°	51.7	45.1	38.3	31.7	25.1	16.7	8.3	1.7	0.0	0.0
85°	21.7	28.3	31.7	30.0	26.7	16.7	8.3	1.7	0.0	0.0
87.5°	11.7	10.0	8.3	6.6	5.0	3.4	3.4	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

(END OF REPORT)