

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: P653384

Luminaire Tested: **GLAN-SA5D-840-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P653384
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5D-840-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18011.7 lumens
Efficiency: N/A
Efficacy: 58.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

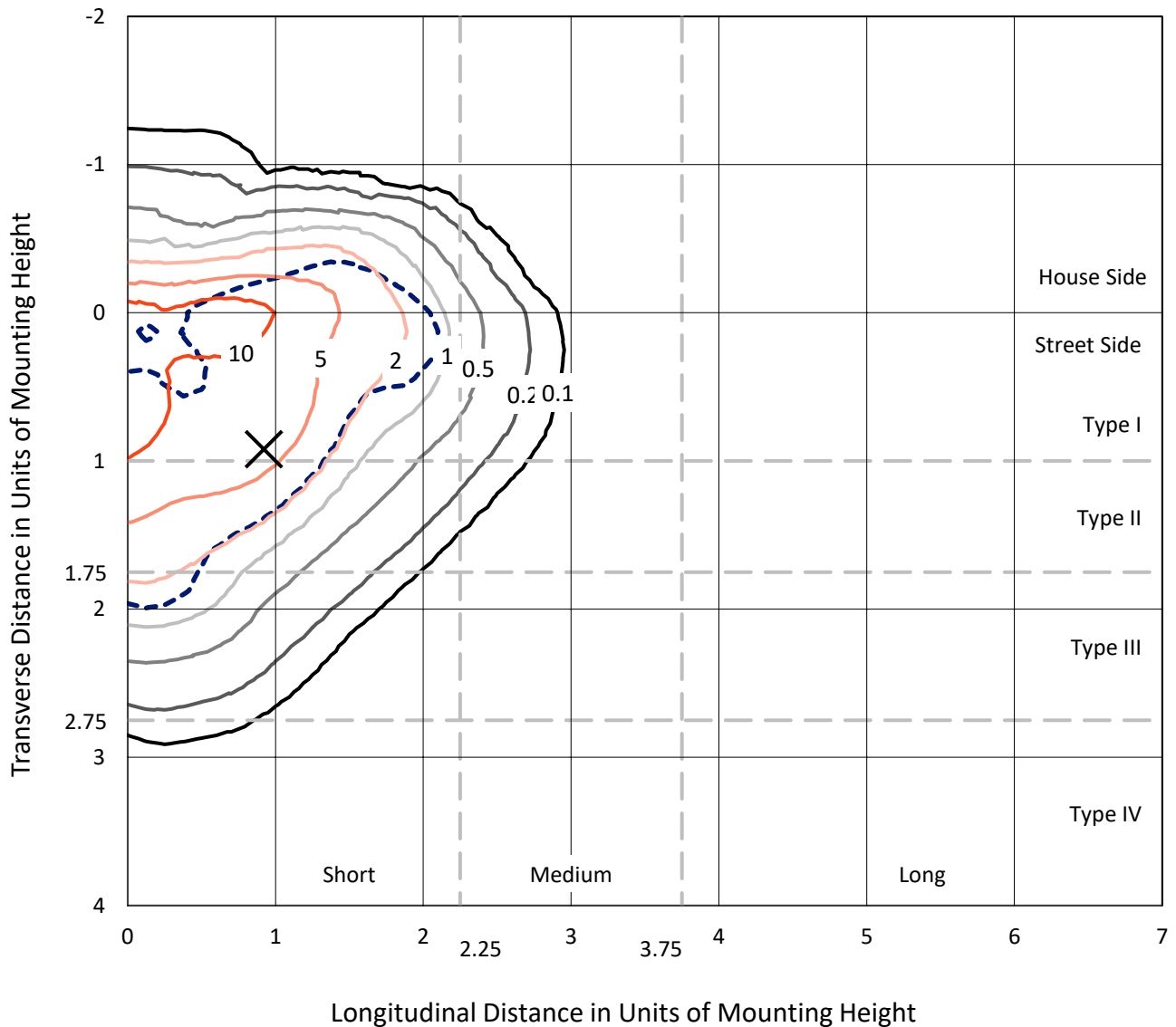
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

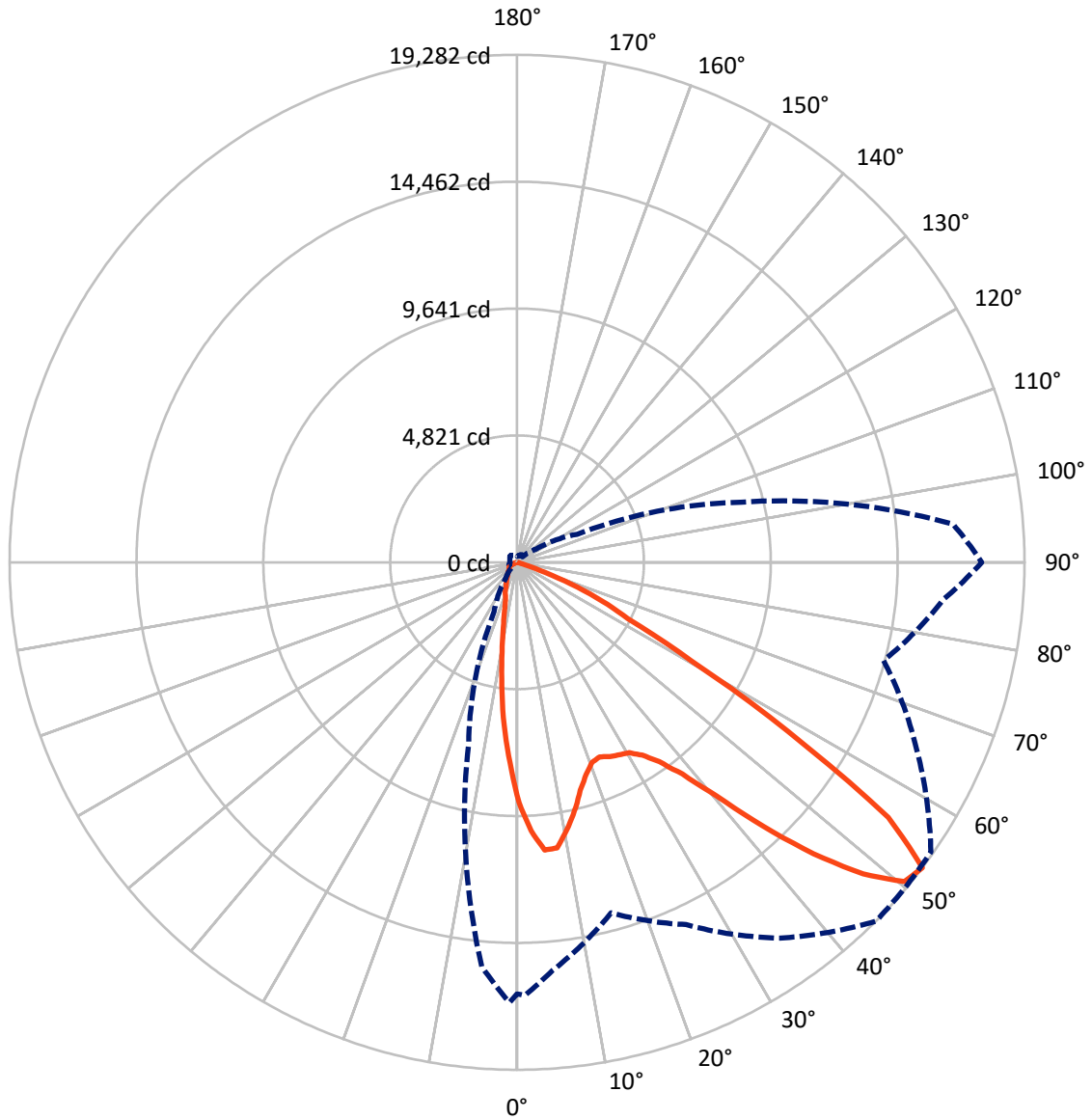
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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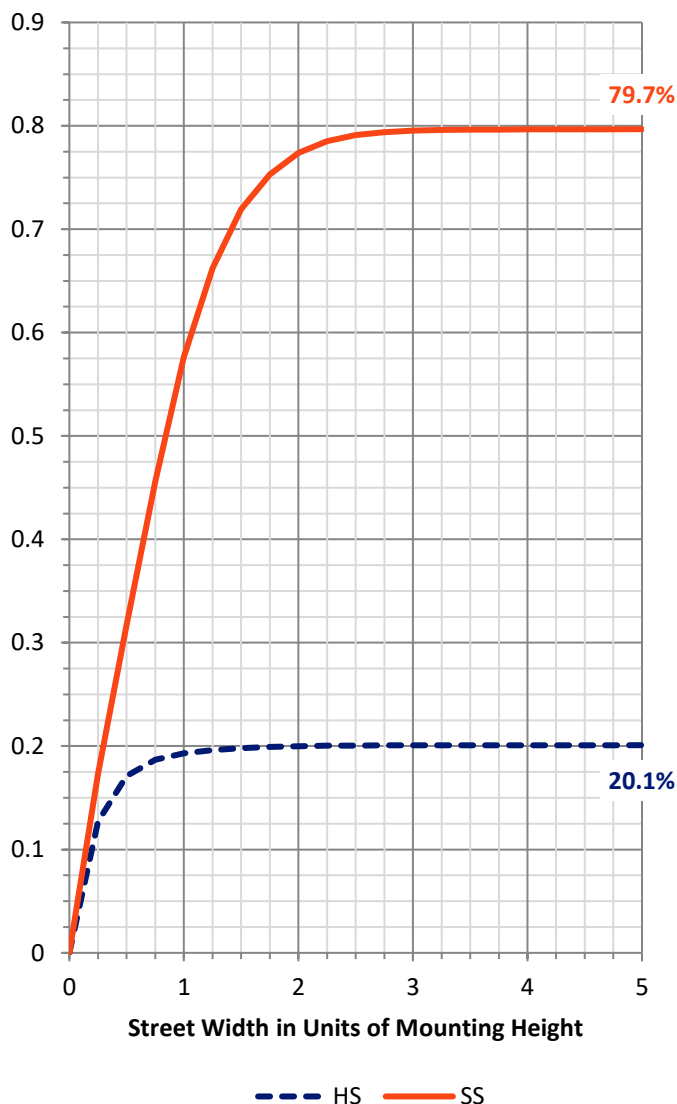
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3655.5	0.0	3655.5
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	14356.2	0.0	14356.2
	% Fixture	79.7	0.0	79.7
Total	Lumens	18011.7	0.0	18011.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	666.0	3.7
10°-20°	1314.1	7.3
20°-30°	1999.8	11.1
30°-40°	2988.9	16.6
40°-50°	4256.5	23.6
50°-60°	4575.6	25.4
60°-70°	2027.6	11.3
70°-80°	164.0	0.9
80°-90°	19.1	0.1
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°	18011.7	100.0
0°-180°	18011.7	100.0

Coefficient of Utilization



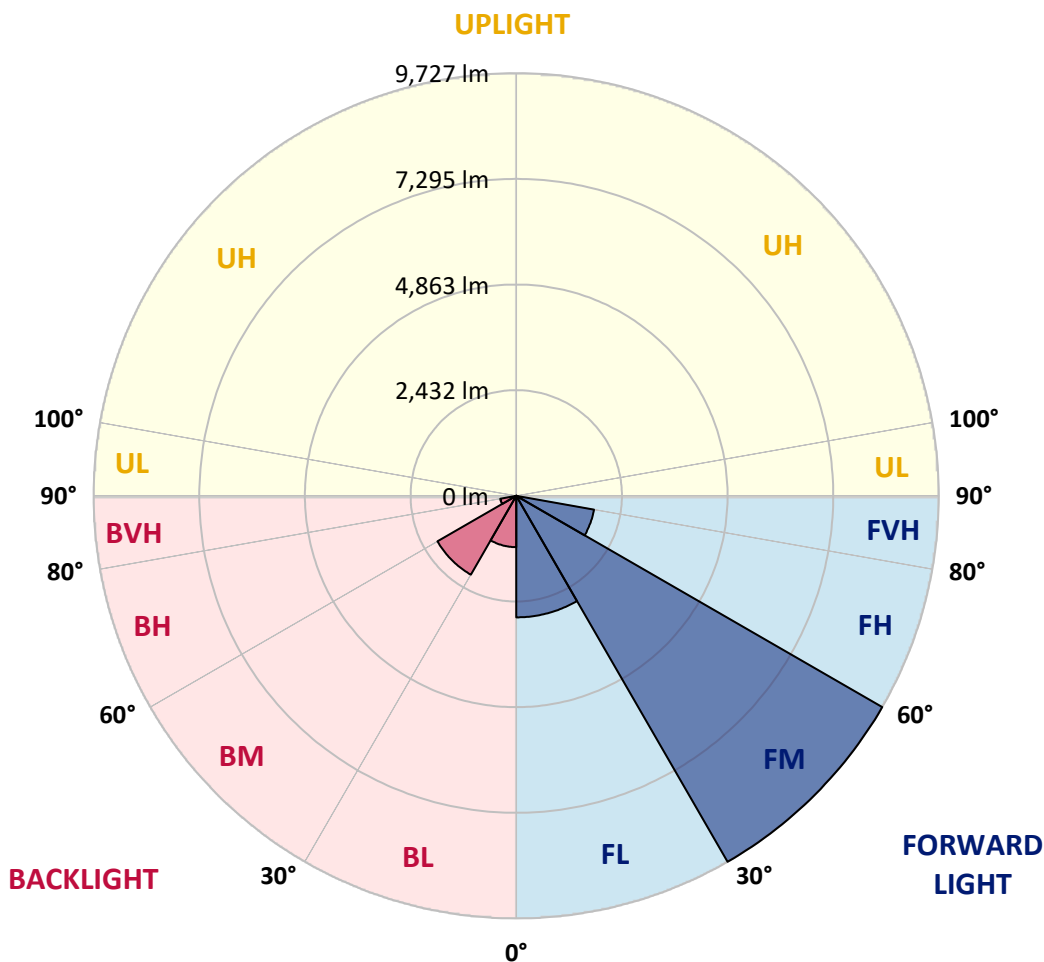
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2797.6	15.5			
FM (30°-60°)	9726.9	54.0			
FH (60°-80°)	1817.6	10.1			G2/5000
FVH (80°-90°)	14.2	0.1			G1/100
BL (0°-30°)	1182.3	6.6	B3/2500		
BM (30°-60°)	2094.2	11.6	B2/2500		
BH (60°-80°)	374.0	2.1	B1/500		G1/500
BVH (80°-90°)	5.0	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8
2.5°	9664.2	9692.5	9848.4	10043.2	10145.9	10379.8	10216.8	10259.3	10170.7	9859.0	9614.6
5°	9370.1	9366.6	9564.9	10046.8	10503.8	10967.8	10982.0	10734.0	10298.3	9820.0	9136.3
7.5°	8484.5	8622.6	8828.1	9596.8	10443.5	10790.7	10957.2	10666.7	9997.1	9313.4	8573.1
10°	7814.9	7885.8	8233.0	9161.1	9781.1	10245.1	10347.8	10181.4	9667.7	8813.9	7985.0
12.5°	7428.8	7464.2	7871.6	8650.9	9306.3	9650.0	9699.6	9777.6	9409.1	8608.5	7613.0
15°	7432.3	7460.7	8009.8	8661.6	8920.2	8828.1	8991.0	8987.5	9147.0	8569.5	7924.7
17.5°	7967.3	7999.2	8495.1	8817.5	8704.1	8488.0	8477.4	8640.3	8976.9	9054.8	8395.9
20°	8888.4	8962.7	9327.6	9309.9	8672.2	8236.5	8116.1	8240.0	9022.9	9465.8	9345.4
22.5°	10128.2	10230.9	10486.0	9997.1	8817.5	8066.5	8027.5	8268.4	9327.6	10383.3	10422.3
25°	11566.5	11740.1	11864.1	11237.0	9334.7	8360.5	8176.3	8590.7	9738.5	11378.7	11793.3
27.5°	12519.5	12700.1	12671.8	11775.5	9681.8	8438.4	8282.6	8668.7	10096.4	11616.1	12508.9
30°	13263.4	13373.2	13571.6	12066.0	10029.0	8658.1	8392.3	8998.1	10213.3	12027.1	13373.2
32.5°	14131.3	14205.8	14219.9	12579.7	10564.0	8934.4	8732.4	9409.1	10730.5	12420.3	14138.5
35°	15006.4	15116.2	14886.0	13213.8	10893.4	9448.0	9299.3	10121.2	11144.9	12827.7	14981.6
37.5°	15955.8	16012.5	15481.0	13475.9	11364.6	10284.1	10202.6	10889.9	11864.1	13564.6	15916.8
40°	16752.9	16806.0	16115.2	13798.4	11860.5	11453.2	11662.1	12356.5	12841.8	14042.8	16384.4
42.5°	17195.7	17319.6	16327.8	13621.3	12856.0	12778.1	13706.2	13950.7	13975.5	14177.4	16802.4
45°	17316.1	17259.4	15977.1	13766.5	13727.5	14956.8	15799.9	16122.3	15102.0	14425.4	16908.7
47.5°	16760.0	16834.3	15459.9	13638.9	14871.7	16607.6	17698.8	18297.4	15941.6	14209.3	16646.6
50°	16310.0	16214.4	15293.3	13546.8	15180.0	17387.0	19069.7	19204.3	16713.9	14475.0	16359.6
52.5°	16398.6	16458.8	15559.0	13791.2	15187.0	17433.0	19282.3	19190.1	16738.7	14414.7	16256.9
55°	16586.4	16320.7	15445.6	13252.8	14170.3	16147.0	17114.2	16972.5	15449.2	13773.6	16005.4
57.5°	14312.1	14723.0	14202.2	11832.2	11630.3	12165.2	12147.5	12583.2	11524.0	11853.5	14570.7
60°	11616.1	11687.0	11881.8	10121.2	8048.7	7864.5	7609.5	7333.1	7754.7	10135.3	13252.8
62.5°	10216.8	10131.8	10826.1	9207.2	5682.3	4757.7	4715.2	4885.2	5983.4	9667.7	12430.9
65°	7425.3	7531.5	8034.6	7145.4	4265.3	3631.1	3567.4	4070.4	4842.7	7747.6	9487.0
67.5°	4534.5	4740.0	4786.0	4407.0	2894.3	2299.1	2207.0	2664.0	3496.5	5012.8	5561.9
70°	2093.7	2341.7	2575.5	2405.4	1675.6	945.9	892.7	1119.5	1764.2	2883.6	2951.0
72.5°	634.1	637.6	892.7	931.7	542.0	212.5	187.8	248.0	598.7	952.9	1002.6
75°	46.1	49.6	120.4	138.2	102.8	53.2	56.7	67.3	127.5	212.5	159.5
77.5°	3.5	3.5	3.5	17.7	31.9	35.4	46.1	53.2	67.3	78.0	70.8
80°	3.5	0.0	3.5	14.1	24.8	35.4	42.5	49.6	53.2	60.2	53.2
82.5°	0.0	0.0	0.0	10.6	24.8	35.4	38.9	53.2	60.2	70.8	60.2
85°	0.0	0.0	0.0	10.6	24.8	38.9	35.4	17.7	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8
2.5°	9657.0	9518.9	9203.7	9044.2	8668.7	8615.5	8247.1	8186.9	8062.9	7995.6	7832.7
5°	8835.2	8668.7	8155.0	7722.8	7219.8	6869.0	6599.8	6355.4	6213.6	6082.6	6142.8
7.5°	8165.6	7680.3	7110.0	6387.3	5806.3	5430.8	5019.8	4683.3	4484.9	4350.3	4382.2
10°	7464.2	7148.9	6355.4	5544.1	4842.7	4577.0	4254.6	3996.0	3716.1	3475.3	3361.9
12.5°	7244.5	6776.9	5781.5	4956.1	4424.7	4166.1	3797.6	3500.1	3142.2	2848.2	2745.5
15°	7283.6	6833.6	5625.6	4743.5	4116.4	3670.1	3230.9	2862.4	2469.2	2263.7	2157.4
17.5°	7917.7	7138.3	5728.4	4520.3	3687.8	3067.9	2525.9	2058.3	1764.2	1551.6	1505.6
20°	8697.0	7797.2	5948.0	4357.4	3337.1	2440.8	1845.7	1441.8	1197.4	1161.9	1151.3
22.5°	9837.8	8874.1	6419.2	4247.6	2908.4	1902.3	1264.7	1048.6	981.3	974.2	977.7
25°	11431.9	10223.9	6932.9	4155.5	2586.1	1466.6	1034.4	889.2	867.9	857.3	875.0
27.5°	12122.7	11038.7	7205.6	3957.1	2292.1	1321.4	1020.3	882.1	821.9	804.2	814.8
30°	12976.5	11580.7	7634.3	3617.0	1859.9	1087.6	952.9	960.0	931.7	843.1	814.8
32.5°	14110.1	12257.3	7850.3	3376.1	1661.5	899.8	697.9	641.2	715.6	729.7	754.5
35°	14836.3	12944.6	7960.1	3234.4	1558.7	768.8	591.6	538.5	520.7	524.3	538.5
37.5°	16186.1	13872.7	8098.3	3085.5	1480.8	669.5	535.0	485.3	460.5	460.5	474.7
40°	16993.8	14609.6	8286.1	3004.1	1402.9	609.3	485.3	442.8	421.6	421.6	428.7
42.5°	17195.7	14974.5	8222.3	2975.8	1314.3	595.2	442.8	410.9	386.1	382.6	379.0
45°	17557.1	15530.7	8233.0	2943.9	1222.2	542.0	418.1	382.6	347.2	343.6	340.1
47.5°	17953.8	15931.0	8254.2	2819.9	1133.6	453.5	435.7	354.2	311.8	304.7	304.7
50°	17613.7	16249.8	8438.4	2695.9	1020.3	368.4	428.7	333.0	276.4	265.7	269.2
52.5°	17656.2	16625.3	8828.1	2522.3	878.6	294.0	347.2	315.3	251.5	233.8	237.3
55°	16976.0	16228.5	8881.2	2338.1	687.3	226.7	265.7	276.4	212.5	205.5	205.5
57.5°	14613.1	13741.7	7836.2	1895.3	453.5	187.8	191.3	240.9	184.2	177.1	180.6
60°	12505.3	11031.6	6305.8	1250.6	283.4	148.8	138.2	244.5	163.0	159.5	170.1
62.5°	11400.0	9065.5	4782.5	775.8	194.9	113.4	95.6	198.4	141.7	141.7	155.8
65°	8236.5	6089.7	2780.9	407.4	138.2	88.6	70.8	113.4	116.9	120.4	127.5
67.5°	5101.3	3074.9	1172.6	198.4	92.1	60.2	46.1	70.8	78.0	78.0	85.0
70°	2518.8	1225.8	389.7	113.4	70.8	49.6	31.9	38.9	38.9	35.4	38.9
72.5°	779.4	368.4	99.2	70.8	49.6	31.9	17.7	14.1	7.1	0.0	3.5
75°	88.6	70.8	63.7	49.6	31.9	14.1	3.5	0.0	0.0	0.0	0.0
77.5°	53.2	60.2	60.2	49.6	31.9	10.6	0.0	0.0	0.0	0.0	0.0
80°	42.5	46.1	49.6	46.1	28.3	14.1	0.0	0.0	0.0	0.0	0.0
82.5°	53.2	60.2	67.3	60.2	38.9	17.7	7.1	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	10.6	3.5	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°	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8
2.5°	7765.4	7687.4	7797.2	7634.3	7630.7	7634.3	7588.2	7545.7	7613.0	7793.6	7811.4
5°	5926.7	6093.2	6146.4	6319.9	6224.3	6082.6	6111.0	6015.3	6249.1	6351.8	6270.3
7.5°	4314.8	4304.2	4662.0	4683.3	4729.4	4732.9	4725.8	4538.0	4346.7	4389.3	4516.8
10°	3347.8	3167.0	3340.6	3323.0	3436.3	3404.5	3450.5	3248.5	3315.9	3315.9	3397.3
12.5°	2727.8	2536.5	2504.6	2458.6	2504.6	2522.3	2540.0	2501.0	2614.4	2667.6	2724.3
15°	2083.1	1976.8	1948.4	1859.9	1874.0	1923.6	1966.1	1983.8	1948.4	2029.9	2037.0
17.5°	1512.7	1509.2	1526.8	1523.3	1509.2	1498.5	1495.0	1448.9	1434.7	1441.8	1470.2
20°	1147.8	1176.1	1236.4	1296.6	1328.4	1289.5	1236.4	1158.4	1126.5	1133.6	1137.2
22.5°	981.3	1023.8	1105.3	1172.6	1204.5	1133.6	1038.0	970.7	956.5	952.9	949.4
25°	889.2	938.8	999.0	1020.3	1016.7	974.2	903.3	875.0	867.9	860.8	829.0
27.5°	839.6	857.3	867.9	892.7	903.3	875.0	857.3	814.8	807.7	807.7	786.4
30°	811.2	800.6	814.8	797.1	811.2	790.0	793.6	793.6	775.8	782.9	782.9
32.5°	754.5	758.1	758.1	722.7	733.4	708.5	733.4	754.5	758.1	761.7	790.0
35°	552.6	616.4	648.3	648.3	658.9	641.2	637.6	612.8	581.0	549.1	535.0
37.5°	485.3	510.2	552.6	577.4	595.2	581.0	549.1	510.2	492.4	478.3	464.1
40°	432.2	453.5	481.8	510.2	545.6	527.8	478.3	460.5	439.3	439.3	425.1
42.5°	389.7	400.3	418.1	460.5	499.5	464.1	428.7	414.4	403.8	400.3	396.8
45°	350.7	354.2	372.0	407.4	453.5	418.1	382.6	364.9	368.4	372.0	368.4
47.5°	315.3	322.4	333.0	375.5	403.8	386.1	347.2	336.6	336.6	336.6	340.1
50°	272.8	290.5	311.8	347.2	368.4	357.8	325.9	311.8	304.7	304.7	308.2
52.5°	244.5	258.6	286.9	329.4	357.8	340.1	308.2	286.9	272.8	269.2	276.4
55°	212.5	237.3	283.4	315.3	354.2	336.6	301.1	276.4	251.5	248.0	248.0
57.5°	191.3	230.3	272.8	311.8	343.6	329.4	301.1	269.2	237.3	233.8	233.8
60°	180.6	223.2	265.7	301.1	343.6	322.4	297.5	262.1	226.7	226.7	223.2
62.5°	170.1	209.0	251.5	286.9	329.4	311.8	286.9	251.5	216.1	216.1	209.0
65°	141.7	180.6	209.0	240.9	286.9	269.2	244.5	219.7	191.3	184.2	187.8
67.5°	99.2	124.0	152.3	184.2	212.5	205.5	194.9	177.1	152.3	148.8	145.2
70°	49.6	67.3	92.1	124.0	148.8	141.7	134.6	120.4	106.3	102.8	102.8
72.5°	7.1	21.3	38.9	56.7	78.0	81.5	78.0	74.4	70.8	67.3	70.8
75°	0.0	0.0	0.0	14.1	31.9	38.9	46.1	53.2	53.2	46.1	56.7
77.5°	0.0	0.0	0.0	0.0	3.5	17.7	35.4	46.1	56.7	49.6	67.3
80°	0.0	0.0	0.0	0.0	3.5	21.3	35.4	49.6	56.7	49.6	70.8
82.5°	0.0	0.0	0.0	0.0	3.5	24.8	35.4	46.1	53.2	49.6	63.7
85°	0.0	0.0	0.0	0.0	10.6	21.3	14.1	7.1	3.5	3.5	10.6
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: P653384

CATALOG NUMBER: GLAN-SA5D-840-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8	9132.8
2.5°	7910.6	8162.1	8431.4	8534.0	8852.9	9093.8	9256.7	9607.5	9660.7	9664.2
5°	6355.4	6482.9	6943.5	7159.5	7634.3	8002.7	8395.9	8962.7	9341.7	9370.1
7.5°	4516.8	4871.1	5065.8	5629.1	6213.6	6791.2	7375.7	8034.6	8473.8	8484.5
10°	3634.7	3865.0	4212.1	4633.7	5126.1	5714.2	6493.5	7258.8	7705.1	7814.9
12.5°	2926.2	3330.0	3726.8	4162.5	4538.0	4980.9	5820.5	6840.7	7209.1	7428.8
15°	2253.0	2621.5	3089.2	3599.2	4024.4	4616.0	5572.5	6738.0	7357.9	7432.3
17.5°	1661.5	1990.9	2423.1	2904.9	3542.5	4382.2	5615.0	7258.8	7843.3	7967.3
20°	1193.9	1385.1	1725.2	2285.0	3096.2	4109.4	5657.5	7786.6	8675.8	8888.4
22.5°	945.9	1023.8	1247.0	1743.0	2596.7	3822.4	5958.7	8796.2	9820.0	10128.2
25°	821.9	864.4	970.7	1374.5	2281.4	3794.1	6440.4	10007.8	11343.3	11566.5
27.5°	793.6	800.6	892.7	1261.2	2111.4	3606.4	6624.6	10868.7	12292.7	12519.5
30°	836.0	949.4	956.5	1066.3	1796.1	3234.4	6720.3	11701.2	13096.9	13263.4
32.5°	722.7	687.3	712.1	825.4	1580.0	3018.3	6900.9	12427.4	14014.4	14131.3
35°	503.1	527.8	584.5	715.6	1381.6	2791.5	6947.0	13228.0	14886.0	15006.4
37.5°	464.1	478.3	524.3	609.3	1215.1	2664.0	6883.2	13812.5	15789.3	15955.8
40°	432.2	449.9	474.7	552.6	1091.1	2522.3	6794.7	14340.4	16341.9	16752.9
42.5°	407.4	421.6	442.8	527.8	984.8	2380.6	6670.6	15084.3	16837.9	17195.7
45°	379.0	400.3	425.1	513.7	924.6	2285.0	6578.6	15038.3	17124.9	17316.1
47.5°	350.7	386.1	414.4	478.3	906.9	2238.9	6617.6	14864.7	16891.0	16760.0
50°	322.4	368.4	418.1	396.8	864.4	2146.8	6663.6	15102.0	16334.8	16310.0
52.5°	297.5	350.7	389.7	325.9	768.8	2058.3	7110.0	15413.8	16728.1	16398.6
55°	262.1	315.3	311.8	262.1	623.5	1990.9	7460.7	15420.8	16462.3	16586.4
57.5°	237.3	279.9	244.5	219.7	460.5	1665.0	6890.3	12930.4	14092.4	14312.1
60°	219.7	272.8	184.2	173.6	301.1	1200.9	6015.3	10014.9	11201.6	11616.1
62.5°	201.9	258.6	145.2	141.7	209.0	853.8	4945.4	8381.7	9653.5	10216.8
65°	177.1	184.2	116.9	109.8	148.8	460.5	3011.2	5770.9	7216.2	7425.3
67.5°	145.2	141.7	95.6	88.6	99.2	223.2	1328.4	2890.8	4183.8	4534.5
70°	116.9	116.9	81.5	70.8	70.8	102.8	347.2	1151.3	1891.7	2093.7
72.5°	85.0	88.6	63.7	56.7	53.2	49.6	56.7	230.3	495.9	634.1
75°	74.4	78.0	63.7	49.6	38.9	31.9	24.8	21.3	28.3	46.1
77.5°	81.5	81.5	67.3	46.1	35.4	24.8	14.1	7.1	7.1	3.5
80°	102.8	106.3	88.6	60.2	42.5	28.3	17.7	7.1	3.5	3.5
82.5°	109.8	120.4	99.2	74.4	53.2	31.9	17.7	3.5	0.0	0.0
85°	28.3	46.1	78.0	67.3	53.2	31.9	17.7	3.5	0.0	0.0
87.5°	0.0	3.5	10.6	10.6	14.1	14.1	10.6	3.5	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)