

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: P649534

Luminaire Tested: **GLAN-SA7D-835-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P649534
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-SA7D-835-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 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: 23324 lumens
Efficiency: N/A
Efficacy: 53.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

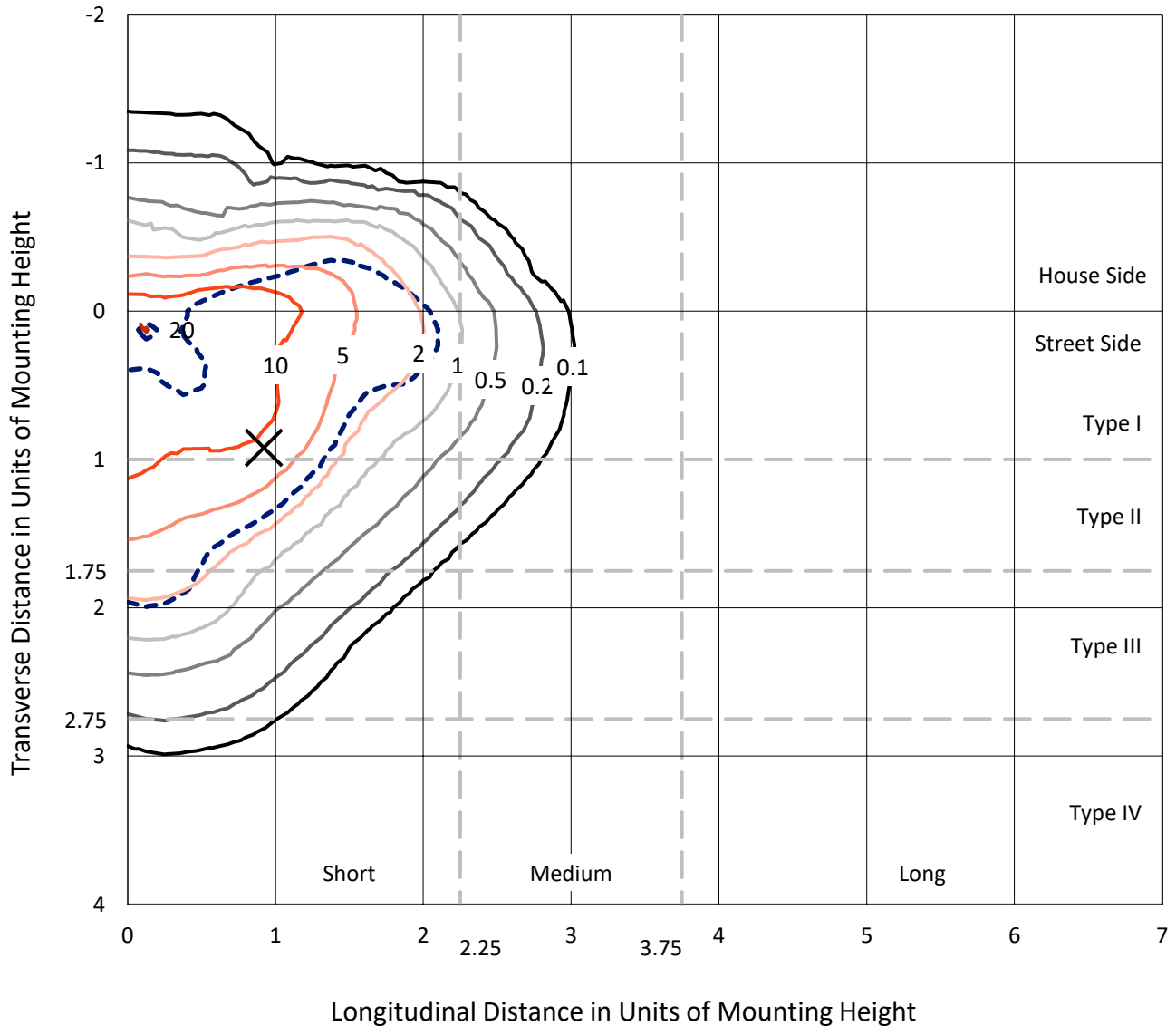
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

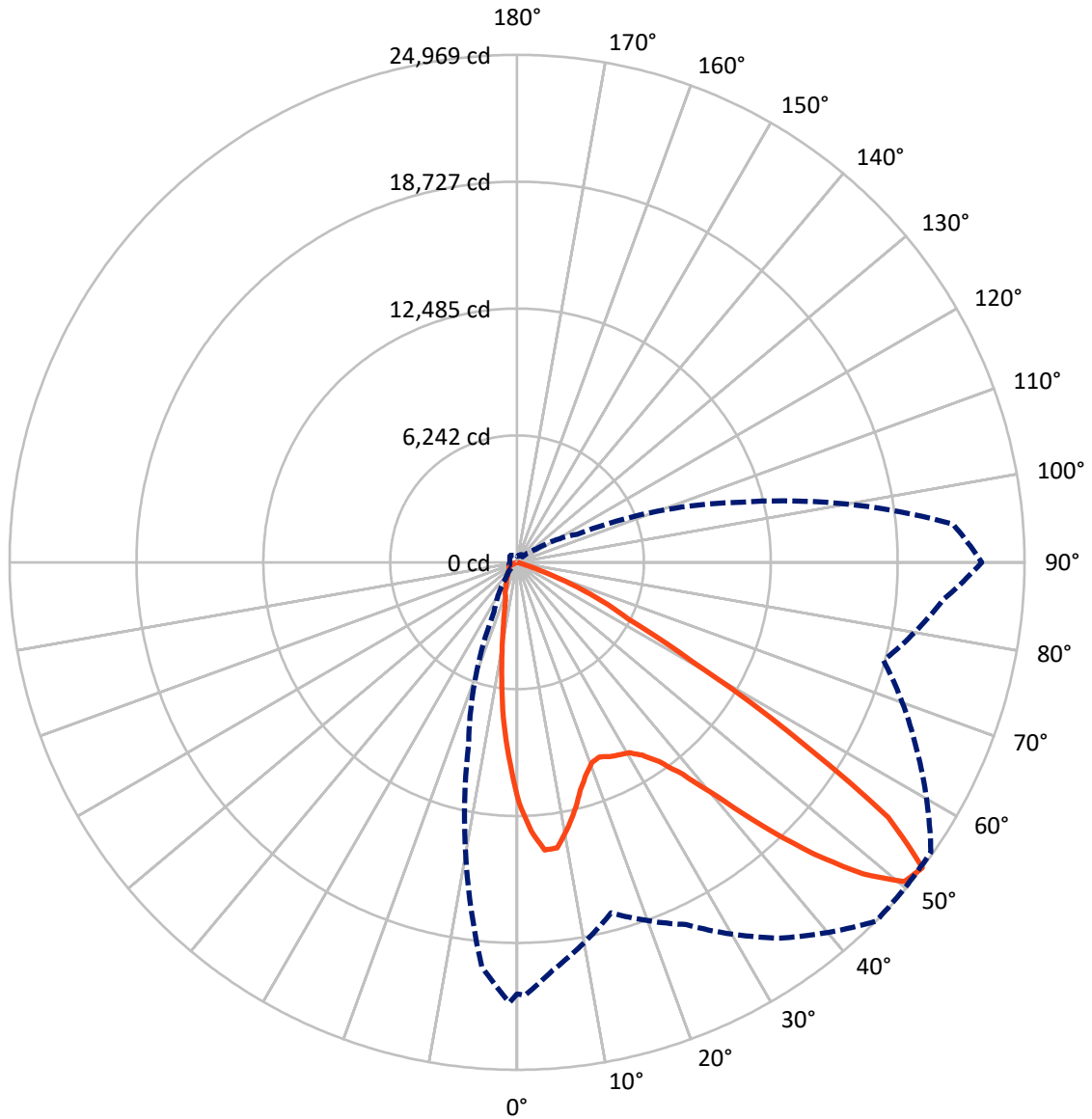
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.5 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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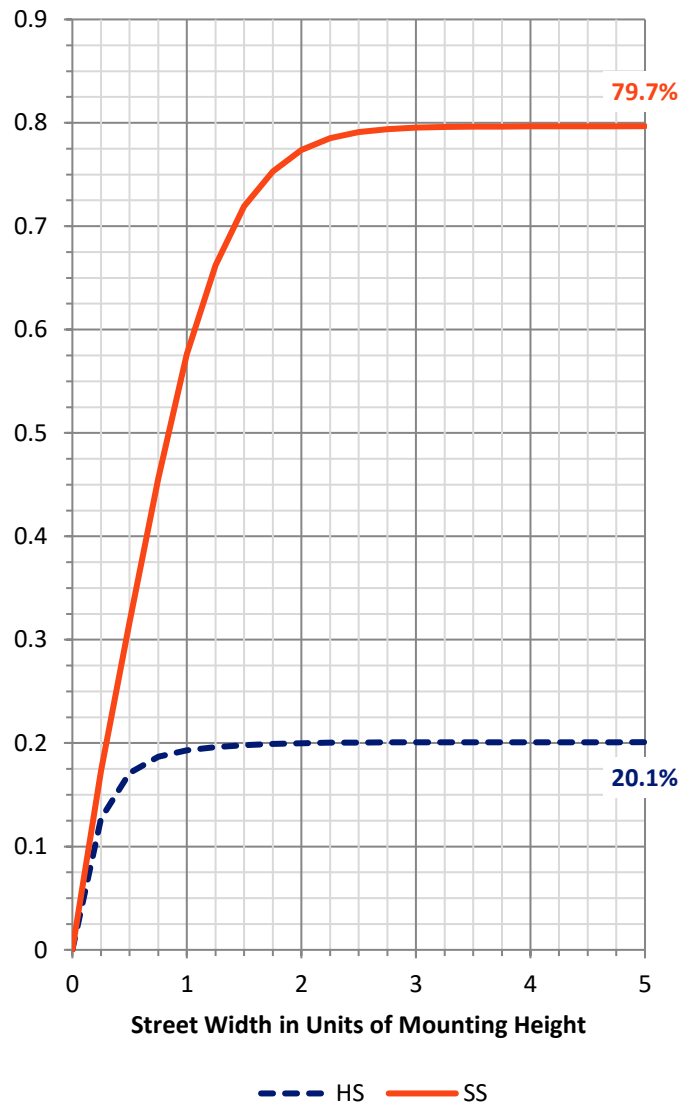
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4733.6	0.0	4733.6
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	18590.4	0.0	18590.4
	% Fixture	79.7	0.0	79.7
Total	Lumens	23324.0	0.0	23324.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	862.5	3.7
10°-20°	1701.6	7.3
20°-30°	2589.6	11.1
30°-40°	3870.5	16.6
40°-50°	5511.9	23.6
50°-60°	5925.1	25.4
60°-70°	2625.6	11.3
70°-80°	212.4	0.9
80°-90°	24.8	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°	23324.0	100.0
0°-180°	23324.0	100.0

Coefficient of Utilization



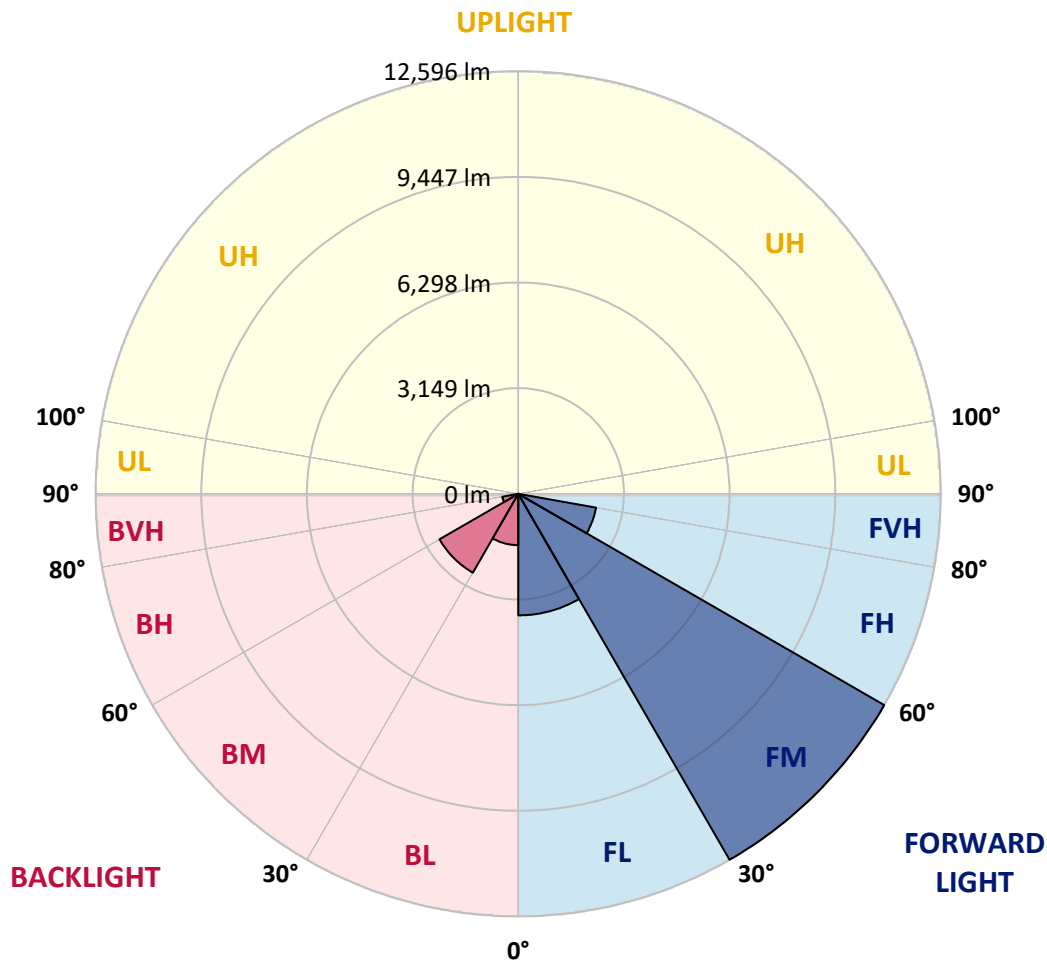
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3622.7	15.5			
FM (30°-60°)	12595.7	54.0			
FH (60°-80°)	2353.7	10.1			G2/5000
FVH (80°-90°)	18.3	0.1			G1/100
BL (0°-30°)	1531.0	6.6	B3/2500		
BM (30°-60°)	2711.8	11.6	B3/5000		
BH (60°-80°)	484.3	2.1	B1/500		G1/500
BVH (80°-90°)	6.4	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°	11826.4	11826.4	11826.4	11826.4	11826.4	11826.4	11826.4	11826.4	11826.4	11826.4	11826.4
2.5°	12514.5	12551.2	12753.0	13005.3	13138.3	13441.1	13230.1	13285.2	13170.5	12766.7	12450.2
5°	12133.7	12129.1	12386.0	13009.9	13601.6	14202.6	14221.0	13899.9	13335.6	12716.3	11831.0
7.5°	10986.8	11165.7	11431.8	12427.3	13523.7	13973.3	14188.9	13812.7	12945.7	12060.3	11101.5
10°	10119.8	10211.6	10661.2	11863.1	12665.9	13266.8	13399.9	13184.2	12519.1	11413.5	10340.1
12.5°	9619.8	9665.7	10193.3	11202.5	12051.2	12496.1	12560.3	12661.3	12184.2	11147.4	9858.4
15°	9624.4	9661.1	10372.2	11216.2	11551.1	11431.8	11642.8	11638.3	11844.7	11097.0	10262.1
17.5°	10317.1	10358.4	11000.6	11418.1	11271.3	10991.4	10977.7	11188.7	11624.5	11725.4	10872.2
20°	11509.8	11606.2	12078.6	12055.7	11230.0	10665.7	10509.7	10670.3	11684.2	12257.6	12101.6
22.5°	13115.4	13248.4	13578.7	12945.7	11418.1	10445.5	10395.1	10707.1	12078.6	13445.7	13496.2
25°	14977.9	15202.7	15363.2	14551.3	12087.9	10826.3	10587.7	11124.5	12610.8	14734.8	15271.5
27.5°	16211.9	16445.9	16409.2	15248.5	12537.4	10927.2	10725.4	11225.4	13074.1	15042.1	16198.2
30°	17175.3	17317.5	17574.4	15624.8	12987.0	11211.6	10867.6	11652.1	13225.5	15574.3	17317.5
32.5°	18299.2	18395.6	18413.9	16289.9	13679.6	11569.5	11308.0	12184.2	13895.3	16083.4	18308.3
35°	19432.3	19574.5	19276.3	17111.1	14106.3	12234.6	12042.0	13106.2	14432.0	16611.0	19400.2
37.5°	20661.7	20735.1	20047.0	17450.5	14716.4	13317.3	13211.7	14101.7	15363.2	17565.2	20611.2
40°	21693.9	21762.7	20868.1	17868.0	15358.7	14831.1	15101.8	16000.9	16629.4	18184.5	21216.8
42.5°	22267.3	22427.9	21143.4	17638.6	16647.8	16546.8	17748.7	18065.2	18097.3	18358.8	21758.1
45°	22423.3	22349.9	20689.2	17826.7	17776.2	19368.1	20459.9	20877.3	19556.1	18680.0	21895.7
47.5°	21703.0	21799.4	20019.5	17661.6	19258.0	21505.8	22918.7	23694.0	20643.4	18400.1	21556.2
50°	21120.5	20996.6	19803.9	17542.3	19657.1	22515.0	24694.0	24868.4	21643.5	18744.2	21184.7
52.5°	21235.1	21313.1	20147.9	17858.8	19666.2	22574.7	24969.3	24850.0	21675.6	18666.2	21051.7
55°	21478.2	21134.2	20001.1	17161.5	18349.7	20909.5	22161.8	21978.3	20005.7	17835.9	20725.9
57.5°	18533.1	19065.3	18390.9	15322.0	15060.5	15753.2	15730.2	16294.5	14922.9	15349.5	18868.0
60°	15042.1	15133.9	15386.2	13106.2	10422.6	10184.1	9853.7	9495.9	10041.8	13124.6	17161.5
62.5°	13230.1	13120.0	14019.1	11922.7	7358.2	6160.9	6105.8	6326.0	7748.2	12519.1	16097.2
65°	9615.2	9752.8	10404.3	9252.8	5523.3	4702.1	4619.5	5270.9	6271.0	10032.7	12285.1
67.5°	5871.9	6137.9	6197.6	5706.7	3747.9	2977.2	2858.0	3449.7	4527.8	6491.2	7202.3
70°	2711.1	3032.2	3335.0	3114.9	2169.8	1224.8	1156.0	1449.6	2284.6	3734.1	3821.4
72.5°	821.1	825.8	1156.0	1206.5	701.9	275.2	243.1	321.1	775.2	1234.0	1298.2
75°	59.7	64.2	156.0	178.9	133.0	68.8	73.4	87.1	165.1	275.2	206.4
77.5°	4.6	4.6	4.6	22.9	41.3	45.9	59.7	68.8	87.1	100.9	91.8
80°	4.6	0.0	4.6	18.3	32.1	45.9	55.0	64.2	68.8	78.0	68.8
82.5°	0.0	0.0	0.0	13.8	32.1	45.9	50.4	68.8	78.0	91.8	78.0
85°	0.0	0.0	0.0	13.8	32.1	50.4	45.9	22.9	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°	11826.4	11826.4	11826.4	11826.4	11826.4	11826.4	11826.4	11826.4	11826.4	11826.4	11826.4
2.5°	12505.3	12326.4	11918.1	11711.6	11225.4	11156.6	10679.5	10601.5	10441.0	10353.8	10142.7
5°	11441.0	11225.4	10560.2	10000.6	9349.2	8895.0	8546.4	8229.8	8046.3	7876.6	7954.6
7.5°	10574.0	9945.5	9206.9	8271.1	7518.8	7032.5	6500.4	6064.6	5807.7	5633.4	5674.6
10°	9665.7	9257.4	8229.8	7179.3	6271.0	5926.9	5509.5	5174.6	4812.2	4500.3	4353.5
12.5°	9381.3	8775.7	7486.7	6417.8	5729.7	5394.8	4917.7	4532.4	4069.0	3688.2	3555.2
15°	9431.7	8849.2	7284.8	6142.6	5330.6	4752.6	4183.7	3706.6	3197.5	2931.4	2793.7
17.5°	10252.8	9243.6	7417.8	5853.6	4775.5	3972.7	3270.8	2665.3	2284.6	2009.3	1949.7
20°	11262.1	10096.9	7702.3	5642.5	4321.4	3160.7	2390.0	1867.1	1550.6	1504.7	1490.9
22.5°	12739.3	11491.5	8312.4	5500.3	3766.2	2463.5	1637.7	1357.9	1270.7	1261.6	1266.1
25°	14803.6	13239.3	8977.6	5381.0	3348.8	1899.2	1339.6	1151.5	1123.9	1110.1	1133.1
27.5°	15698.1	14294.4	9330.8	5124.1	2968.0	1711.1	1321.2	1142.2	1064.3	1041.3	1055.1
30°	16803.7	14996.3	9885.8	4683.7	2408.4	1408.3	1234.0	1243.2	1206.5	1091.8	1055.1
32.5°	18271.7	15872.4	10165.7	4371.8	2151.5	1165.2	903.7	830.3	926.7	945.0	977.1
35°	19212.1	16762.4	10307.9	4188.3	2018.5	995.5	766.1	697.3	674.3	678.9	697.3
37.5°	20959.9	17964.3	10486.8	3995.6	1917.6	867.0	692.7	628.5	596.3	596.3	614.7
40°	22005.8	18918.5	10730.0	3890.1	1816.6	789.0	628.5	573.4	545.9	545.9	555.1
42.5°	22267.3	19391.0	10647.4	3853.5	1701.9	770.7	573.4	532.1	500.0	495.4	490.9
45°	22735.2	20111.2	10661.2	3812.1	1582.7	701.9	541.3	495.4	449.6	445.0	440.4
47.5°	23249.0	20629.6	10688.7	3651.6	1468.0	587.2	564.2	458.8	403.7	394.6	394.6
50°	22808.6	21042.5	10927.2	3491.0	1321.2	477.1	555.1	431.2	357.8	344.1	348.7
52.5°	22863.7	21528.7	11431.8	3266.2	1137.7	380.8	449.6	408.3	325.7	302.8	307.3
55°	21982.9	21014.9	11500.6	3027.7	890.0	293.6	344.1	357.8	275.2	266.1	266.1
57.5°	18923.1	17794.6	10147.4	2454.2	587.2	243.1	247.7	311.9	238.6	229.3	234.0
60°	16193.5	14285.2	8165.6	1619.3	367.0	192.7	178.9	316.6	211.0	206.4	220.2
62.5°	14762.3	11739.2	6193.0	1004.7	252.3	146.8	123.9	256.9	183.5	183.5	201.9
65°	10665.7	7885.7	3601.1	527.6	178.9	114.7	91.8	146.8	151.4	156.0	165.1
67.5°	6605.9	3981.9	1518.5	256.9	119.3	78.0	59.7	91.8	100.9	100.9	110.1
70°	3261.7	1587.2	504.6	146.8	91.8	64.2	41.3	50.4	50.4	45.9	50.4
72.5°	1009.2	477.1	128.4	91.8	64.2	41.3	22.9	18.3	9.2	0.0	4.6
75°	114.7	91.8	82.6	64.2	41.3	18.3	4.6	0.0	0.0	0.0	0.0
77.5°	68.8	78.0	78.0	64.2	41.3	13.8	0.0	0.0	0.0	0.0	0.0
80°	55.0	59.7	64.2	59.7	36.7	18.3	0.0	0.0	0.0	0.0	0.0
82.5°	68.8	78.0	87.1	78.0	50.4	22.9	9.2	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	13.8	4.6	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°	11826.4	11826.4	11826.4	11826.4	11826.4	11826.4	11826.4	11826.4	11826.4	11826.4	11826.4
2.5°	10055.6	9954.7	10096.9	9885.8	9881.3	9885.8	9826.3	9771.2	9858.4	10092.3	10115.3
5°	7674.7	7890.4	7959.2	8183.9	8060.1	7876.6	7913.3	7789.4	8092.2	8225.3	8119.7
7.5°	5587.5	5573.7	6037.0	6064.6	6124.2	6128.8	6119.6	5876.5	5628.8	5683.8	5848.9
10°	4335.1	4101.1	4325.9	4303.0	4449.8	4408.5	4468.1	4206.7	4293.8	4293.8	4399.4
12.5°	3532.3	3284.6	3243.3	3183.7	3243.3	3266.2	3289.1	3238.7	3385.5	3454.4	3527.7
15°	2697.4	2559.8	2523.1	2408.4	2426.8	2491.0	2546.0	2568.9	2523.1	2628.6	2637.8
17.5°	1958.8	1954.2	1977.2	1972.6	1954.2	1940.5	1935.9	1876.2	1857.9	1867.1	1903.8
20°	1486.3	1523.0	1601.0	1679.0	1720.3	1669.8	1601.0	1500.1	1458.8	1468.0	1472.6
22.5°	1270.7	1325.8	1431.2	1518.5	1559.7	1468.0	1344.1	1256.9	1238.6	1234.0	1229.4
25°	1151.5	1215.7	1293.7	1321.2	1316.6	1261.6	1169.8	1133.1	1123.9	1114.8	1073.5
27.5°	1087.2	1110.1	1123.9	1156.0	1169.8	1133.1	1110.1	1055.1	1045.9	1045.9	1018.4
30°	1050.6	1036.8	1055.1	1032.2	1050.6	1023.0	1027.6	1027.6	1004.7	1013.8	1013.8
32.5°	977.1	981.7	981.7	935.8	949.6	917.5	949.6	977.1	981.7	986.3	1023.0
35°	715.7	798.2	839.5	839.5	853.2	830.3	825.8	793.6	752.3	711.0	692.7
37.5°	628.5	660.6	715.7	747.8	770.7	752.3	711.0	660.6	637.7	619.3	601.0
40°	559.7	587.2	623.9	660.6	706.5	683.6	619.3	596.3	568.8	568.8	550.5
42.5°	504.6	518.3	541.3	596.3	646.8	601.0	555.1	536.7	523.0	518.3	513.8
45°	454.1	458.8	481.7	527.6	587.2	541.3	495.4	472.5	477.1	481.7	477.1
47.5°	408.3	417.4	431.2	486.2	523.0	500.0	449.6	435.8	435.8	435.8	440.4
50°	353.2	376.2	403.7	449.6	477.1	463.3	422.0	403.7	394.6	394.6	399.1
52.5°	316.6	334.9	371.6	426.7	463.3	440.4	399.1	371.6	353.2	348.7	357.8
55°	275.2	307.3	367.0	408.3	458.8	435.8	389.9	357.8	325.7	321.1	321.1
57.5°	247.7	298.2	353.2	403.7	445.0	426.7	389.9	348.7	307.3	302.8	302.8
60°	234.0	289.0	344.1	389.9	445.0	417.4	385.3	339.4	293.6	293.6	289.0
62.5°	220.2	270.7	325.7	371.6	426.7	403.7	371.6	325.7	279.8	279.8	270.7
65°	183.5	234.0	270.7	311.9	371.6	348.7	316.6	284.4	247.7	238.6	243.1
67.5°	128.4	160.6	197.2	238.6	275.2	266.1	252.3	229.3	197.2	192.7	188.1
70°	64.2	87.1	119.3	160.6	192.7	183.5	174.3	156.0	137.7	133.0	133.0
72.5°	9.2	27.6	50.4	73.4	100.9	105.5	100.9	96.3	91.8	87.1	91.8
75°	0.0	0.0	0.0	18.3	41.3	50.4	59.7	68.8	68.8	59.7	73.4
77.5°	0.0	0.0	0.0	0.0	4.6	22.9	45.9	59.7	73.4	64.2	87.1
80°	0.0	0.0	0.0	0.0	4.6	27.6	45.9	64.2	73.4	64.2	91.8
82.5°	0.0	0.0	0.0	0.0	4.6	32.1	45.9	59.7	68.8	64.2	82.6
85°	0.0	0.0	0.0	0.0	13.8	27.6	18.3	9.2	4.6	4.6	13.8
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: P649534

CATALOG NUMBER: GLAN-SA7D-835-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11826.4	11826.4	11826.4	11826.4	11826.4	11826.4	11826.4	11826.4	11826.4	11826.4
2.5°	10243.7	10569.4	10918.1	11051.1	11464.0	11775.9	11986.9	12441.1	12509.9	12514.5
5°	8229.8	8394.9	8991.3	9271.2	9885.8	10363.0	10872.2	11606.2	12097.0	12133.7
7.5°	5848.9	6307.7	6560.0	7289.4	8046.3	8794.1	9551.0	10404.3	10973.1	10986.8
10°	4706.7	5004.9	5454.5	6000.4	6638.0	7399.5	8408.7	9399.6	9977.6	10119.8
12.5°	3789.2	4312.1	4825.9	5390.3	5876.5	6449.9	7537.2	8858.3	9335.4	9619.8
15°	2917.6	3394.7	4000.2	4660.8	5211.3	5977.4	7216.0	8725.3	9528.1	9624.4
17.5°	2151.5	2578.1	3137.8	3761.7	4587.4	5674.6	7271.0	9399.6	10156.5	10317.1
20°	1546.0	1793.7	2234.1	2958.9	4009.4	5321.4	7326.1	10083.2	11234.6	11509.8
22.5°	1224.8	1325.8	1614.8	2257.0	3362.6	4949.8	7716.0	11390.5	12716.3	13115.4
25°	1064.3	1119.3	1256.9	1779.9	2954.3	4913.1	8339.9	12959.4	14688.9	14977.9
27.5°	1027.6	1036.8	1156.0	1633.1	2734.1	4670.0	8578.5	14074.2	15918.3	16211.9
30°	1082.7	1229.4	1238.6	1380.8	2325.8	4188.3	8702.3	15152.2	16959.7	17175.3
32.5°	935.8	890.0	922.1	1068.9	2046.0	3908.5	8936.3	16092.7	18147.8	18299.2
35°	651.4	683.6	756.9	926.7	1789.1	3614.9	8995.9	17129.4	19276.3	19432.3
37.5°	601.0	619.3	678.9	789.0	1573.5	3449.7	8913.4	17886.3	20446.1	20661.7
40°	559.7	582.6	614.7	715.7	1412.9	3266.2	8798.6	18569.9	21161.7	21693.9
42.5°	527.6	545.9	573.4	683.6	1275.3	3082.7	8638.1	19533.2	21804.0	22267.3
45°	490.9	518.3	550.5	665.2	1197.3	2958.9	8518.8	19473.6	22175.6	22423.3
47.5°	454.1	500.0	536.7	619.3	1174.3	2899.2	8569.3	19248.8	21872.8	21703.0
50°	417.4	477.1	541.3	513.8	1119.3	2780.0	8628.9	19556.1	21152.6	21120.5
52.5°	385.3	454.1	504.6	422.0	995.5	2665.3	9206.9	19959.8	21661.8	21235.1
55°	339.4	408.3	403.7	339.4	807.4	2578.1	9661.1	19969.0	21317.7	21478.2
57.5°	307.3	362.4	316.6	284.4	596.3	2156.1	8922.5	16744.1	18248.8	18533.1
60°	284.4	353.2	238.6	224.8	389.9	1555.1	7789.4	12968.6	14505.4	15042.1
62.5°	261.4	334.9	188.1	183.5	270.7	1105.6	6404.0	10853.8	12500.7	13230.1
65°	229.3	238.6	151.4	142.2	192.7	596.3	3899.3	7472.9	9344.6	9615.2
67.5°	188.1	183.5	123.9	114.7	128.4	289.0	1720.3	3743.4	5417.7	5871.9
70°	151.4	151.4	105.5	91.8	91.8	133.0	449.6	1490.9	2449.7	2711.1
72.5°	110.1	114.7	82.6	73.4	68.8	64.2	73.4	298.2	642.2	821.1
75°	96.3	100.9	82.6	64.2	50.4	41.3	32.1	27.6	36.7	59.7
77.5°	105.5	105.5	87.1	59.7	45.9	32.1	18.3	9.2	9.2	4.6
80°	133.0	137.7	114.7	78.0	55.0	36.7	22.9	9.2	4.6	4.6
82.5°	142.2	156.0	128.4	96.3	68.8	41.3	22.9	4.6	0.0	0.0
85°	36.7	59.7	100.9	87.1	68.8	41.3	22.9	4.6	0.0	0.0
87.5°	0.0	4.6	13.8	13.8	18.3	18.3	13.8	4.6	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)