

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: P455772

Luminaire Tested: **GLAN-SA7A-727-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455772
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-SA7A-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA 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: 19131 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): 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

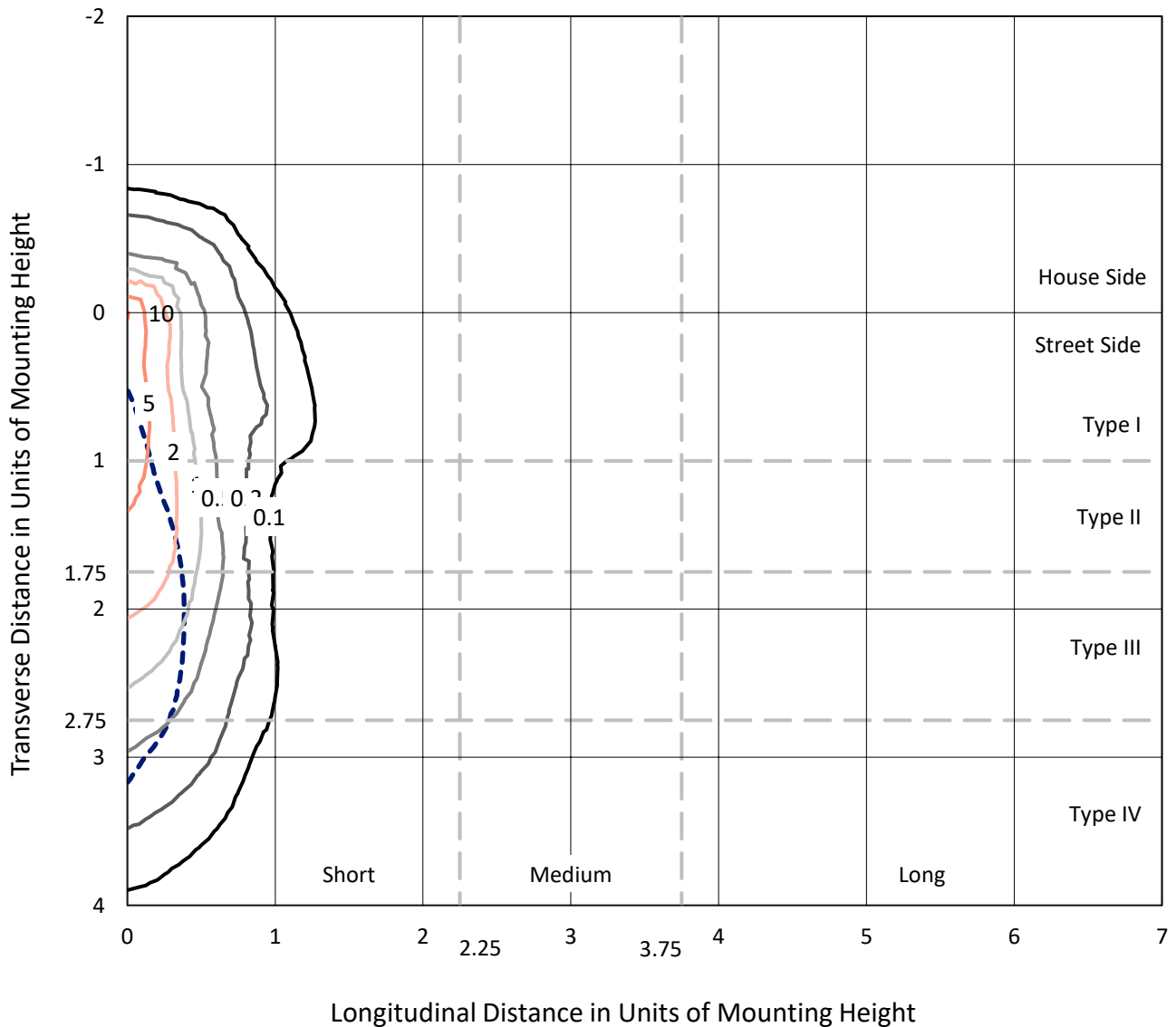




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Iso-Footcandle Lines of Horizontal Illumination

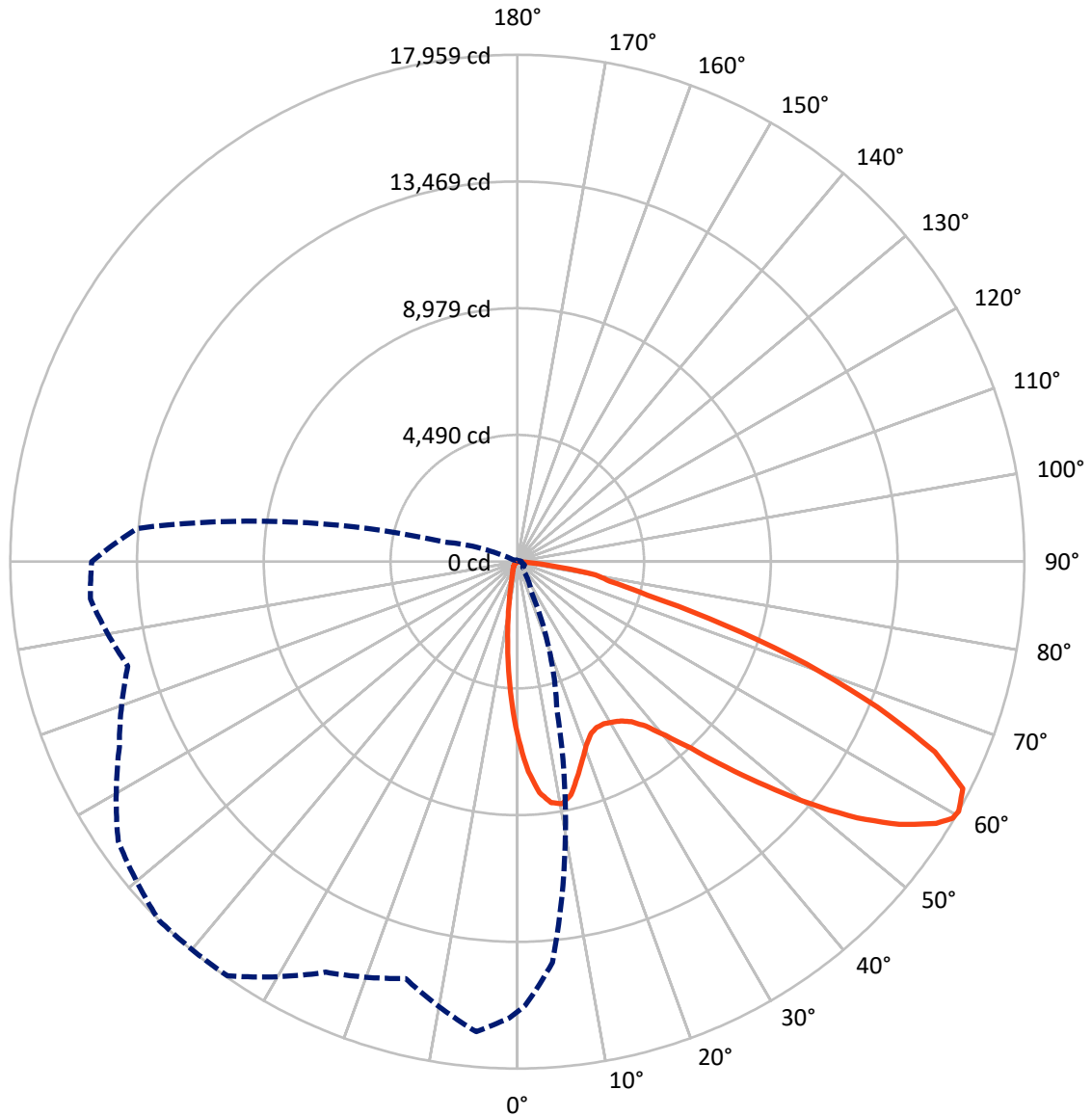
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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	2359.6	0.0	2359.6
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	16771.4	0.0	16771.4
	% Fixture	87.7	0.0	87.7
Total	Lumens	19131.0	0.0	19131.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.3	2.5
10°-20°	934.0	4.9
20°-30°	1369.5	7.2
30°-40°	2036.7	10.6
40°-50°	2964.0	15.5
50°-60°	4274.3	22.3
60°-70°	4701.3	24.6
70°-80°	2105.8	11.0
80°-90°	275.2	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°	19131.0	100.0
0°-180°	19131.0	100.0

Coefficient of Utilization



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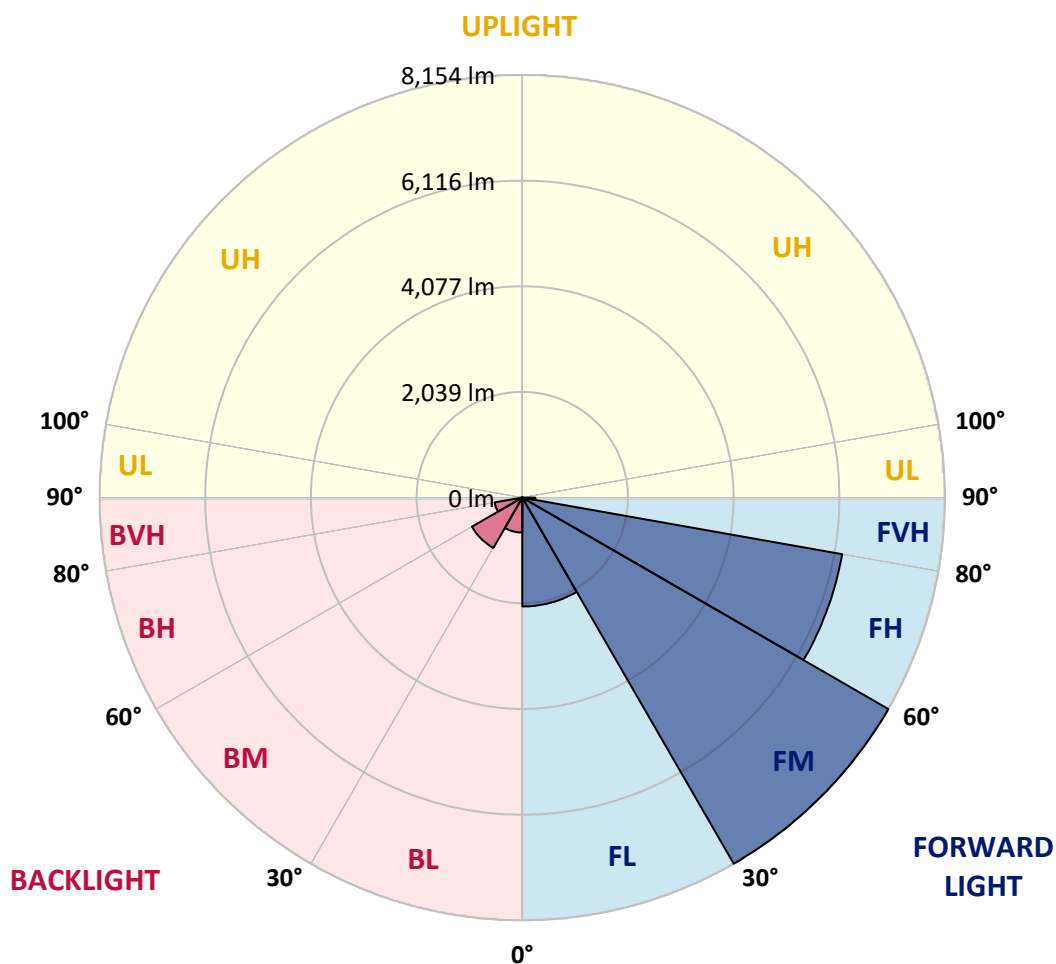
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2099.6	11.0			
FM	(30°-60°)	8154.2	42.6			
FH	(60°-80°)	6266.0	32.8			G3/7500
FVH	(80°-90°)	251.6	1.3			G3/500
BL	(0°-30°)	674.2	3.5	B2/1000		
BM	(30°-60°)	1120.8	5.9	B2/2500		
BH	(60°-80°)	541.1	2.8	B2/1000		G2/1000
BVH	(80°-90°)	23.5	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6323.1	6323.1	6323.1	6323.1	6323.1	6323.1	6323.1	6323.1	6323.1	6323.1	6323.1
2.5°	6951.3	6920.8	6851.0	6638.6	6454.0	6212.5	5968.2	5776.3	5658.5	5441.8	5342.9
5°	6734.6	6749.2	6547.0	6110.7	5625.0	5293.5	4931.4	4643.4	4326.4	4125.7	3914.8
7.5°	6168.9	6139.8	5920.2	5312.4	4721.9	4242.0	3784.0	3411.7	3177.5	2989.9	2832.9
10°	5684.7	5662.8	5382.2	4599.8	3965.7	3606.5	3296.8	2971.0	2719.4	2444.6	2225.0
12.5°	5380.7	5331.3	5008.4	4191.1	3674.9	3340.4	3003.0	2664.2	2316.6	2038.9	1772.7
15°	5278.9	5207.7	4848.5	4050.1	3488.7	3064.1	2640.9	2251.2	1851.3	1544.4	1343.7
17.5°	5463.6	5345.8	4963.3	4025.4	3266.2	2703.4	2182.8	1675.3	1259.4	1025.2	901.6
20°	5886.8	5751.5	5254.2	4000.6	3019.0	2299.2	1659.3	1183.8	871.1	743.1	674.8
22.5°	6515.0	6328.9	5684.7	4039.9	2790.7	1905.1	1198.3	836.2	692.2	612.2	564.2
25°	7269.8	7114.2	6230.0	4179.5	2610.4	1595.3	926.4	683.5	583.2	533.7	497.4
27.5°	8097.3	7848.6	6935.3	4346.7	2446.0	1355.4	812.9	610.8	519.2	474.1	455.2
30°	8686.2	8492.8	7525.7	4463.1	2241.0	1175.0	743.1	602.1	520.6	466.8	431.9
32.5°	9267.9	9020.7	8020.2	4516.9	2091.2	1050.0	642.8	525.0	456.6	429.0	394.1
35°	9890.3	9631.5	8513.2	4487.8	1979.2	967.1	583.2	468.3	391.2	344.7	309.8
37.5°	10520.0	10246.6	9003.2	4383.1	1909.4	933.6	536.6	445.0	369.4	321.4	283.6
40°	11267.5	10902.5	9462.8	4297.3	1836.7	916.2	506.1	430.5	353.4	302.5	264.7
42.5°	11878.3	11530.7	9897.6	4252.2	1787.3	875.5	506.1	418.8	343.2	286.5	247.2
45°	12457.1	12096.4	10367.3	4288.6	1766.9	824.6	511.9	417.4	335.9	274.9	235.6
47.5°	12941.4	12628.7	10850.1	4425.3	1740.7	769.3	481.4	437.7	331.6	264.7	224.0
50°	13512.9	13210.4	11488.6	4701.6	1694.2	714.0	443.5	471.2	330.1	255.9	213.8
52.5°	14318.5	13991.3	12369.8	5015.7	1620.0	629.7	408.6	466.8	324.3	241.4	203.6
55°	15303.0	15038.4	13390.7	5392.4	1518.2	535.2	353.4	414.5	306.8	216.7	186.1
57.5°	15934.2	15708.8	14155.6	5555.2	1362.6	437.7	311.2	347.6	280.7	193.4	165.8
59°	16008.4	15804.8	14315.6	5501.4	1260.8	399.9	290.8	298.1	273.4	180.3	154.2
60°	15945.8	15735.0	14251.6	5396.7	1166.3	373.7	273.4	264.7	274.9	173.1	145.4
62.5°	15544.5	15183.8	13630.7	4865.9	1019.4	343.2	242.9	216.7	242.9	155.6	129.4
65°	14769.3	14228.4	12401.8	4118.4	961.3	325.8	206.5	181.8	184.7	136.7	112.0
67.5°	13415.4	12733.4	10765.8	3346.2	936.5	327.2	174.5	162.9	142.5	116.3	98.9
70°	11274.8	10594.2	8638.2	2752.9	924.9	327.2	148.3	139.6	119.2	97.4	85.8
72.5°	7989.6	7256.7	5827.2	2162.5	833.3	325.8	126.5	126.5	97.4	81.4	69.8
75°	4514.0	4519.8	3663.2	1529.9	692.2	269.0	101.8	100.3	71.3	62.5	52.4
77.5°	2630.7	2584.2	2469.3	657.3	321.4	122.2	71.3	61.1	49.4	45.1	37.8
80°	1352.5	1112.5	1083.4	238.5	114.9	77.1	49.4	34.9	32.0	29.1	26.2
82.5°	399.9	401.4	357.7	96.0	64.0	50.9	24.7	18.9	17.5	16.0	16.0
85°	27.6	17.5	20.4	29.1	39.3	20.4	1.5	4.4	4.4	5.8	7.3
87.5°	2.9	1.5	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°	6323.1	6323.1	6323.1	6323.1	6323.1	6323.1	6323.1	6323.1	6323.1	6323.1	6323.1
2.5°	5233.8	5297.8	5178.6	5181.5	5082.6	5114.6	4998.2	5036.1	4967.7	5020.1	5174.2
5°	3938.1	3952.6	3856.7	3826.1	3840.7	3900.3	3923.6	3817.4	3862.5	3773.8	3768.0
7.5°	2774.7	2792.2	2736.9	2729.6	2834.3	2809.6	2854.7	2745.6	2642.4	2687.4	2604.6
10°	2155.2	2082.5	1969.1	1937.1	1916.7	1929.8	1929.8	1830.9	1816.4	1777.1	1836.7
12.5°	1701.5	1612.8	1505.1	1359.7	1323.4	1320.5	1266.6	1179.4	1151.8	1118.3	1167.8
15°	1236.1	1199.8	1109.6	1028.2	945.3	929.3	842.0	770.8	676.2	663.1	658.8
17.5°	869.6	815.8	814.4	767.8	719.9	687.9	606.4	525.0	488.6	484.3	484.3
20°	651.5	632.6	602.1	596.2	581.7	545.3	472.6	429.0	411.6	413.0	418.8
22.5°	548.3	535.2	507.5	494.4	488.6	456.6	402.8	373.7	365.0	365.0	366.5
25°	490.1	478.4	447.9	427.5	420.3	397.0	354.8	333.0	325.8	325.8	325.8
27.5°	446.5	431.9	399.9	382.5	369.4	343.2	317.0	295.2	287.9	287.9	289.4
30°	415.9	399.9	370.8	347.6	327.2	303.9	282.1	263.2	254.5	253.0	254.5
32.5°	375.2	360.7	331.6	317.0	293.8	266.1	248.7	231.2	222.5	224.0	222.5
35°	292.3	287.9	267.6	271.9	258.9	235.6	219.6	200.7	190.5	189.1	192.0
37.5°	266.1	248.7	225.4	226.9	222.5	213.8	187.6	167.2	160.0	160.0	161.4
40°	245.8	228.3	202.1	189.1	190.5	190.5	162.9	141.1	133.8	132.3	135.2
42.5°	228.3	210.9	181.8	160.0	154.2	161.4	138.2	116.3	109.1	106.2	109.1
45°	216.7	197.8	164.3	139.6	122.2	130.9	113.4	96.0	87.3	87.3	85.8
47.5°	205.0	187.6	151.2	120.7	101.8	97.4	93.1	77.1	68.3	66.9	68.3
50°	194.9	177.4	136.7	104.7	85.8	75.6	75.6	61.1	55.3	52.4	53.8
52.5°	184.7	165.8	123.6	93.1	74.2	61.1	53.8	49.4	45.1	43.6	45.1
55°	170.1	151.2	110.5	80.0	64.0	50.9	42.2	40.7	37.8	34.9	37.8
57.5°	152.7	135.2	97.4	68.3	50.9	39.3	34.9	33.4	30.5	29.1	29.1
59°	142.5	126.5	90.2	59.6	45.1	34.9	32.0	30.5	27.6	24.7	26.2
60°	136.7	123.6	85.8	55.3	40.7	32.0	29.1	27.6	24.7	23.3	24.7
62.5°	120.7	110.5	75.6	45.1	32.0	23.3	20.4	21.8	20.4	18.9	20.4
65°	106.2	97.4	64.0	34.9	24.7	16.0	14.5	18.9	17.5	16.0	17.5
67.5°	94.5	84.3	53.8	26.2	17.5	8.7	10.2	16.0	16.0	14.5	16.0
70°	81.4	72.7	43.6	18.9	8.7	4.4	7.3	11.6	14.5	13.1	14.5
72.5°	66.9	56.7	33.4	13.1	4.4	0.0	4.4	10.2	14.5	13.1	14.5
75°	52.4	42.2	24.7	7.3	0.0	0.0	1.5	8.7	14.5	13.1	14.5
77.5°	37.8	30.5	14.5	1.5	0.0	0.0	1.5	8.7	14.5	13.1	14.5
80°	24.7	21.8	5.8	0.0	0.0	0.0	1.5	8.7	14.5	14.5	16.0
82.5°	16.0	11.6	0.0	0.0	0.0	0.0	2.9	11.6	16.0	17.5	17.5
85°	7.3	0.0	0.0	0.0	0.0	0.0	5.8	14.5	18.9	18.9	18.9
87.5°	0.0	0.0	0.0	0.0	0.0	2.9	10.2	17.5	21.8	21.8	21.8
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°	6323.1	6323.1	6323.1	6323.1	6323.1	6323.1	6323.1	6323.1	6323.1	6323.1	6323.1
2.5°	5200.4	5292.0	5421.4	5620.7	5782.1	6036.6	6231.5	6497.6	6766.6	6848.1	6974.6
5°	3827.6	3945.4	4239.1	4506.7	4675.4	5213.5	5553.8	6090.4	6571.7	6803.0	7054.6
7.5°	2658.4	2798.0	3021.9	3395.7	3750.5	4188.2	4737.9	5351.6	6056.9	6387.1	6741.9
10°	1865.8	2040.3	2355.9	2662.7	3109.2	3525.1	4067.5	4745.2	5523.2	5913.0	6358.0
12.5°	1177.9	1333.5	1750.9	2095.6	2652.5	3135.4	3635.6	4249.3	5150.9	5550.9	6017.7
15°	673.3	804.2	999.1	1441.2	2059.2	2697.6	3321.5	4034.1	4960.4	5453.4	5958.1
17.5°	501.7	536.6	623.9	874.0	1436.8	2182.8	3032.1	3968.6	5089.9	5668.7	6244.5
20°	421.7	445.0	485.7	584.6	916.2	1681.1	2750.0	3980.3	5508.7	6235.8	6782.6
22.5°	378.1	392.6	426.1	490.1	625.3	1224.5	2419.9	4048.6	6016.2	6932.4	7563.5
25°	331.6	350.5	379.6	434.8	520.6	849.3	2094.1	4201.3	6727.3	7816.6	8409.9
27.5°	295.2	312.7	341.7	392.6	456.6	648.6	1714.6	4332.2	7477.7	8706.6	9192.3
30°	258.9	276.3	305.4	346.1	404.3	525.0	1305.9	4409.3	8206.3	9374.1	9747.8
32.5°	228.3	242.9	270.5	306.8	354.8	445.0	1029.6	4329.3	8763.3	9980.5	10230.6
35°	197.8	215.2	238.5	271.9	314.1	379.6	856.6	4053.0	9241.7	10604.4	10694.5
37.5°	165.8	186.1	210.9	241.4	274.9	349.0	687.9	3747.6	9753.6	11382.4	11234.1
40°	139.6	158.5	181.8	215.2	245.8	319.9	529.3	3421.8	10306.3	12112.4	11823.0
42.5°	113.4	133.8	161.4	192.0	242.9	279.2	410.1	3084.5	10802.2	12747.9	12355.3
45°	90.2	107.6	136.7	176.0	241.4	240.0	317.0	2751.4	11175.9	13201.7	12752.3
47.5°	71.3	85.8	114.9	171.6	222.5	203.6	254.5	2544.9	11568.5	13610.3	13056.2
50°	56.7	71.3	98.9	178.9	194.9	174.5	213.8	2578.4	11948.1	13818.3	13181.3
52.5°	48.0	62.5	85.8	141.1	149.8	152.7	187.6	2732.5	12438.2	14040.8	13430.0
55°	42.2	55.3	72.7	98.9	116.3	136.7	171.6	2844.5	13094.0	14517.8	13978.2
57.5°	33.4	48.0	65.4	84.3	96.0	119.2	158.5	2853.2	13687.4	15130.0	14706.8
59°	30.5	43.6	61.1	80.0	85.8	107.6	149.8	2779.1	13709.2	15221.6	15041.3
60°	27.6	42.2	58.2	74.2	81.4	101.8	142.5	2693.3	13511.4	15076.2	15179.4
62.5°	23.3	36.4	50.9	59.6	69.8	84.3	123.6	2382.1	12553.1	14417.4	14923.5
65°	20.4	32.0	43.6	49.4	58.2	72.7	109.1	1906.5	11494.4	13524.5	14190.5
67.5°	18.9	29.1	37.8	42.2	50.9	66.9	97.4	1346.6	10123.0	12391.6	13089.7
70°	17.5	27.6	33.4	39.3	45.1	56.7	82.9	785.3	7797.7	10405.1	11142.4
72.5°	17.5	26.2	29.1	33.4	39.3	50.9	77.1	424.6	5331.3	7937.3	8889.8
75°	17.5	24.7	26.2	29.1	34.9	46.5	68.3	222.5	3446.6	5514.5	6805.9
77.5°	17.5	23.3	26.2	27.6	33.4	40.7	59.6	139.6	2296.3	3862.5	4599.8
80°	18.9	23.3	24.7	27.6	32.0	37.8	49.4	93.1	1349.5	2323.9	2799.4
82.5°	20.4	23.3	26.2	29.1	33.4	36.4	43.6	58.2	622.4	1537.1	1739.3
85°	21.8	24.7	27.6	30.5	34.9	36.4	40.7	42.2	101.8	693.7	938.0
87.5°	23.3	26.2	29.1	32.0	37.8	37.8	37.8	37.8	34.9	74.2	189.1
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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CATALOG NUMBER: GLAN-SA7A-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6323.1	6323.1	6323.1	6323.1	6323.1	6323.1	6323.1	6323.1	6323.1	6323.1
2.5°	7134.5	7298.9	7413.8	7442.8	7359.9	7322.1	7217.4	7054.6	6955.7	6951.3
5°	7518.5	7903.8	8171.4	8216.5	8056.5	7786.0	7464.7	7050.2	6807.3	6734.6
7.5°	7453.0	8127.8	8558.2	8620.8	8351.7	7835.5	7213.1	6545.6	6280.9	6168.9
10°	7184.0	8007.1	8622.2	8721.1	8361.9	7634.8	6843.7	6099.1	5770.5	5684.7
12.5°	6954.2	7786.0	8332.8	8469.5	8197.6	7471.9	6622.6	5812.6	5460.7	5380.7
15°	6853.9	7524.3	7858.8	7928.6	7883.5	7370.1	6599.4	5769.0	5366.2	5278.9
17.5°	6954.2	7301.8	7344.0	7415.2	7515.6	7359.9	6823.3	6006.0	5571.2	5463.6
20°	7217.4	7108.4	6933.9	6964.4	7194.2	7402.1	7221.8	6531.0	6001.7	5886.8
22.5°	7665.3	7060.4	6664.8	6638.6	6929.5	7543.2	7806.4	7242.2	6628.5	6515.0
25°	8215.0	7181.1	6565.9	6509.2	6826.2	7749.7	8441.9	8113.2	7442.8	7269.8
27.5°	8814.2	7431.2	6565.9	6510.7	6817.5	7932.9	8985.8	8884.0	8286.3	8097.3
30°	9142.9	7637.7	6660.5	6597.9	6925.1	8039.1	9276.6	9568.9	8920.4	8686.2
32.5°	9436.6	7924.2	6845.1	6727.3	7150.5	8196.1	9537.0	10150.6	9425.0	9267.9
35°	9707.1	8231.0	7099.6	6962.9	7447.2	8411.4	9824.9	10761.4	10127.4	9890.3
37.5°	10005.2	8587.3	7496.6	7380.3	7943.1	8830.2	10166.6	11564.2	10818.1	10520.0
40°	10329.5	9000.3	8149.6	8100.2	8731.3	9304.3	10598.6	12420.7	11606.4	11267.5
42.5°	10659.6	9475.9	8949.4	9030.9	9624.2	9968.9	11042.1	13079.5	12252.0	11878.3
45°	10959.2	10083.8	9989.2	10392.1	10665.5	10617.5	11370.8	13543.4	12814.8	12457.1
47.5°	11337.3	10969.4	11247.2	11868.1	11875.4	11322.8	11619.4	13923.0	13299.1	12941.4
50°	11760.5	12015.0	12871.5	13504.1	13334.0	12016.4	11910.3	14372.3	13799.4	13512.9
52.5°	12250.6	13185.7	14372.3	15074.7	14677.7	12772.7	12394.6	14858.0	14593.4	14318.5
55°	12820.6	13984.0	15868.8	16428.6	16028.7	13712.1	13130.4	15516.8	15490.6	15303.0
57.5°	13464.9	14827.5	16735.5	17493.1	17136.9	14814.4	14158.6	16137.8	16038.9	15934.2
59°	13973.9	15260.9	17117.9	17903.2	17688.0	15586.6	14849.3	16524.6	16165.4	16008.4
60°	14282.2	15554.6	17259.0	17958.5	17909.1	16046.2	15287.1	16713.7	16164.0	15945.8
62.5°	15196.9	16068.0	17205.2	17712.7	17906.2	16927.4	16571.2	16921.6	15864.4	15544.5
65°	15522.6	15897.8	16313.8	16251.2	16417.0	16882.4	17391.3	16693.3	15224.5	14769.3
67.5°	14888.6	14032.0	14178.9	13761.5	13680.1	15009.3	17058.3	15576.4	13972.4	13415.4
70°	12550.2	10749.8	10675.6	10867.6	10341.2	12151.7	15317.6	13425.6	11905.9	11274.8
72.5°	9878.7	7597.0	6971.7	7678.4	7662.4	9270.8	12724.7	9526.8	8043.4	7989.6
75°	7768.6	5289.1	4642.0	4756.8	4977.9	6711.4	10134.7	6049.7	4953.2	4514.0
77.5°	5214.9	3747.6	3496.0	3354.9	3593.4	4308.9	6411.8	3280.8	2777.6	2630.7
80°	3005.9	2722.4	3091.7	2806.7	2934.7	2715.1	3189.2	1505.1	1249.2	1352.5
82.5°	1956.0	1550.2	1652.0	1227.4	1678.2	1692.7	1023.8	445.0	376.7	399.9
85°	1223.0	727.1	408.6	290.8	578.8	1064.5	319.9	27.6	32.0	27.6
87.5°	317.0	120.7	50.9	75.6	93.1	82.9	74.2	4.4	1.5	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)