

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: P453914

Luminaire Tested: **GLAN-SA5A-727-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453914  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5A-727-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13755 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

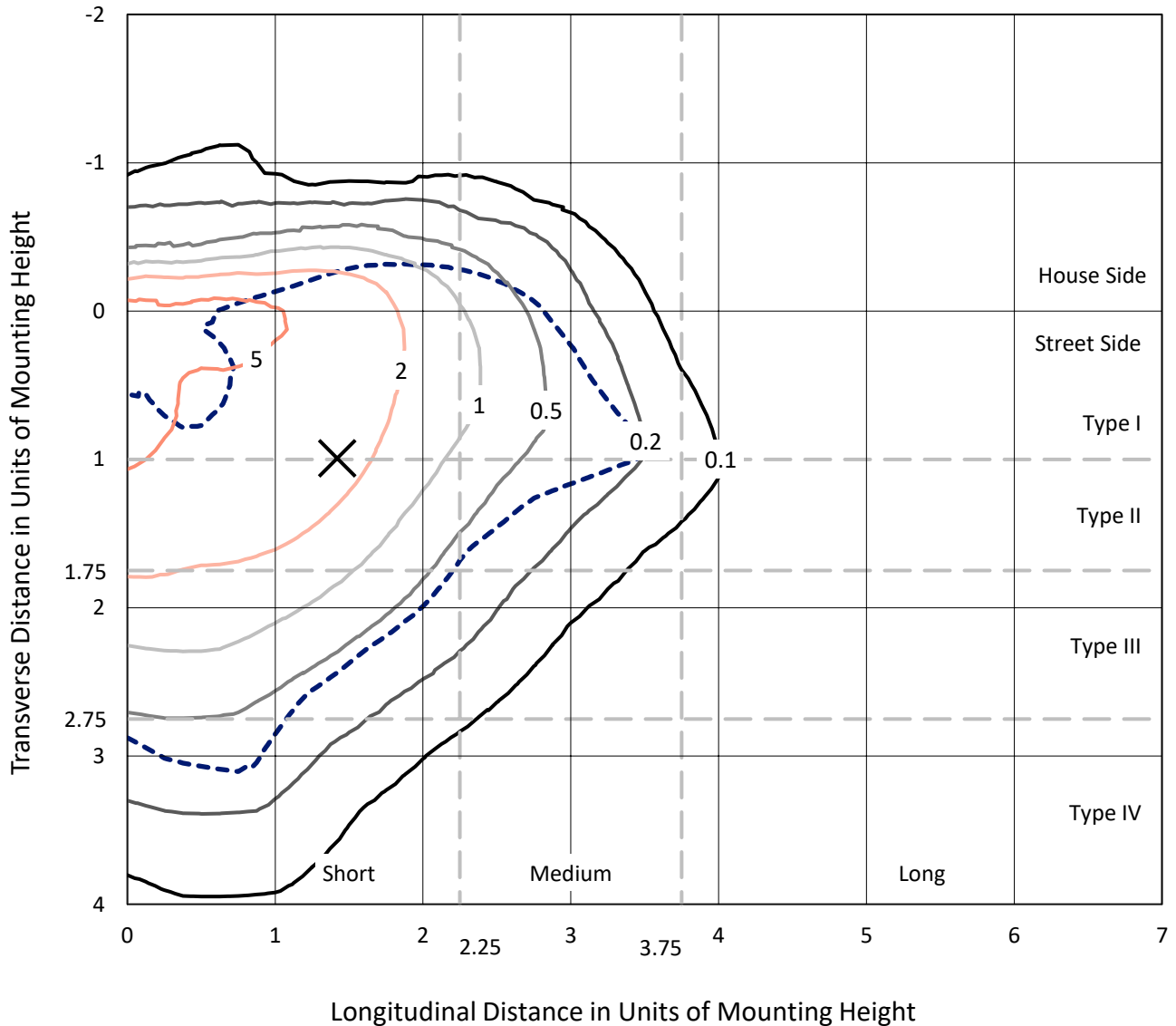




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### Iso-Footcandle Lines of Horizontal Illumination

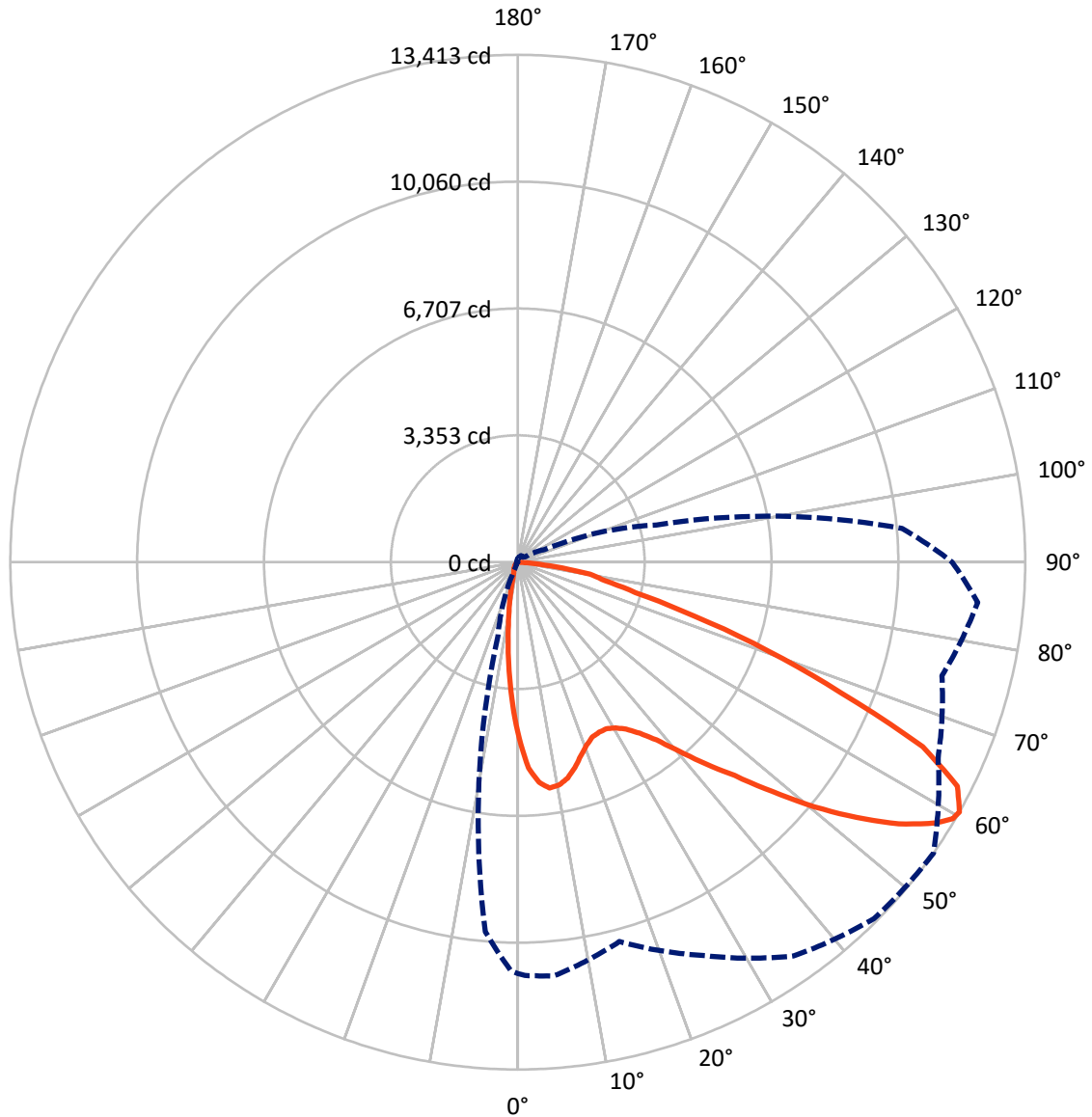
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2041.4	0.0	2041.4
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	11713.6	0.0	11713.6
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	13755.0	0.0	13755.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	344.9	2.5
10°-20°	679.2	4.9
20°-30°	1005.3	7.3
30°-40°	1498.5	10.9
40°-50°	2194.5	16.0
50°-60°	3168.2	23.0
60°-70°	3332.8	24.2
70°-80°	1371.0	10.0
80°-90°	160.6	1.2
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°	13755.0	100.0
0°-180°	13755.0	100.0

**Coefficient of Utilization**



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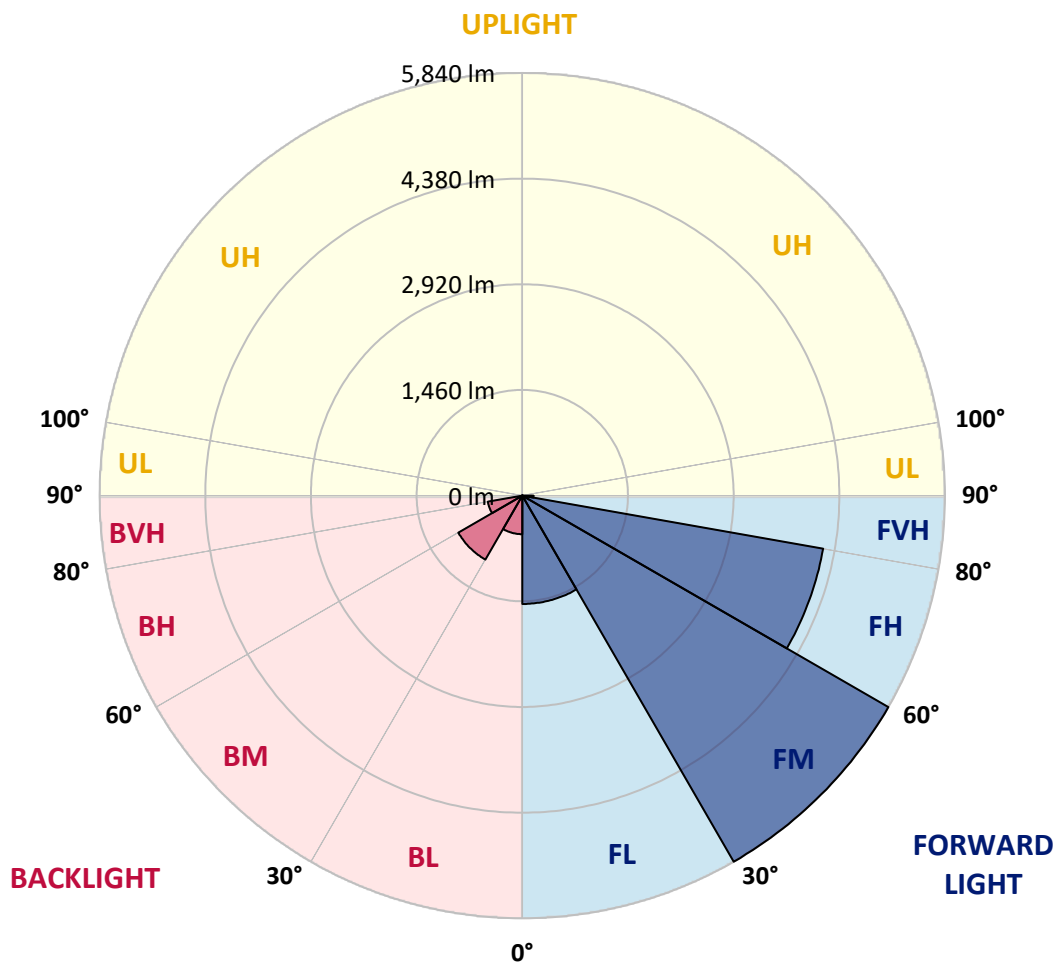
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1496.7	10.9			
FM	(30°-60°)	5840.4	42.5			
FH	(60°-80°)	4220.7	30.7			G2/5000
FVH	(80°-90°)	155.9	1.1			G2/225
BL	(0°-30°)	532.6	3.9	B2/1000		
BM	(30°-60°)	1020.9	7.4	B2/2500		
BH	(60°-80°)	483.2	3.5	B1/500		G1/500
BVH	(80°-90°)	4.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4657.4	4657.4	4657.4	4657.4	4657.4	4657.4	4657.4	4657.4	4657.4	4657.4	4657.4
2.5°	5088.3	5079.8	5155.0	5277.8	5401.7	5466.3	5453.6	5448.3	5345.6	5270.4	5112.7
5°	5077.7	5121.1	5255.6	5588.0	5840.0	5961.8	5997.8	5846.4	5646.3	5356.2	4998.3
7.5°	4773.9	4827.9	5047.0	5566.9	6014.7	6279.4	6269.9	6027.4	5614.5	5165.6	4655.3
10°	4397.0	4460.5	4717.8	5348.8	5930.0	6279.4	6298.5	5991.4	5477.9	4902.0	4365.2
12.5°	4131.2	4206.4	4491.2	5145.5	5711.9	6056.0	6078.2	5855.9	5375.2	4800.3	4207.4
15°	4041.2	4112.2	4401.2	5042.8	5480.0	5665.3	5660.0	5636.7	5335.0	4824.7	4215.9
17.5°	4195.8	4254.0	4580.1	5089.4	5263.0	5243.9	5271.5	5383.7	5343.5	5029.0	4482.7
20°	4594.9	4654.2	5004.7	5232.3	5096.8	4976.1	4988.8	5176.2	5421.8	5413.3	4899.9
22.5°	5144.4	5245.0	5562.6	5509.7	5074.5	4809.9	4783.4	5026.9	5555.2	5855.9	5463.1
25°	5840.0	5941.7	6189.4	5952.2	5183.6	4770.7	4746.3	4981.4	5717.2	6287.9	6097.3
27.5°	6424.4	6501.7	6748.4	6383.2	5344.5	4787.6	4747.4	4987.7	5848.5	6655.3	6632.0
30°	6892.4	6949.6	7094.6	6584.3	5483.2	4861.7	4815.2	5080.9	5906.7	6834.2	7065.0
32.5°	7269.3	7365.7	7411.2	6799.2	5682.3	5001.5	4922.1	5259.8	6048.6	7055.5	7519.2
35°	7700.2	7811.4	7753.2	7004.6	5944.8	5219.6	5122.2	5549.9	6263.5	7259.8	8046.4
37.5°	8246.5	8374.6	8147.0	7220.6	6222.2	5547.8	5502.3	5957.5	6589.6	7552.0	8611.8
40°	8811.9	8886.0	8529.2	7483.2	6563.1	6025.3	6068.7	6563.1	7016.3	7902.4	9213.2
42.5°	9253.4	9323.3	8922.0	7703.4	6911.5	6591.7	6772.8	7293.7	7505.4	8261.4	9662.1
45°	9591.1	9650.4	9194.1	7943.7	7381.5	7412.3	7754.2	8046.4	7995.6	8480.5	10008.3
47.5°	9853.7	9904.5	9403.7	8202.1	8085.6	8415.9	8939.0	9062.8	8503.8	8717.7	10321.7
50°	9961.7	9976.5	9469.4	8531.3	8885.0	9694.9	10240.2	10165.0	9086.1	8981.3	10655.2
52.5°	10102.5	10099.3	9656.8	8844.7	9636.7	10838.3	11382.5	11212.1	9744.7	9376.2	11030.0
55°	10472.0	10476.2	10058.0	9289.4	10277.2	11761.6	12343.9	12220.0	10439.2	10043.2	11467.2
57.5°	10920.9	10936.8	10628.7	9809.2	10889.2	12430.7	13061.7	13014.1	11378.3	10785.4	11880.1
59°	10979.2	11010.9	10898.7	10175.6	11252.3	12636.1	13307.3	13353.9	11881.2	11274.5	12103.5
60°	10873.3	10926.2	10977.0	10383.1	11465.1	12710.2	13322.1	13413.2	12259.2	11607.0	12205.2
62.5°	10411.7	10495.3	10750.5	11021.5	11730.9	12479.4	12848.9	13039.5	12727.1	12480.4	12214.7
65°	9807.1	9850.5	10219.0	11134.8	11215.3	11401.6	11515.9	11760.5	12164.9	12817.1	11777.4
67.5°	8816.1	8944.3	9395.3	10477.3	9693.8	9473.6	9445.0	9201.5	10251.8	12014.6	10699.6
70°	7283.1	7340.3	7896.1	8589.6	7315.9	6977.1	7112.6	7021.6	7946.9	10342.8	8611.8
72.5°	5507.6	5636.7	6179.9	6846.9	4978.2	4538.8	4912.6	4878.7	5969.2	8312.2	5916.2
75°	3918.4	4002.0	4694.5	5358.3	3486.4	2953.9	3088.3	3214.3	4167.2	6563.1	3496.0
77.5°	2692.4	2764.4	3284.2	3543.6	2543.1	2436.2	2228.7	2350.4	2730.5	3894.1	1902.6
80°	1624.1	1620.9	1962.9	2026.4	1771.3	2057.1	1725.7	1937.5	1650.6	1666.5	736.9
82.5°	1054.5	1043.9	1200.6	1308.6	985.7	1036.5	695.6	1002.6	1075.7	464.8	232.9
85°	472.2	492.3	577.0	761.2	432.0	229.7	141.9	308.1	458.4	234.0	0.0
87.5°	48.7	38.1	101.6	185.3	59.3	6.4	21.2	10.6	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°	4657.4	4657.4	4657.4	4657.4	4657.4	4657.4	4657.4	4657.4	4657.4	4657.4	4657.4
2.5°	5039.6	4978.2	4795.0	4623.5	4476.4	4296.4	4179.9	3996.8	3885.6	3851.7	3857.0
5°	4837.4	4660.6	4312.3	4033.8	3723.6	3546.8	3277.9	3019.5	2879.8	2827.9	2804.6
7.5°	4413.9	4224.4	3804.1	3366.8	3034.4	2724.1	2524.0	2296.4	2140.8	2012.7	1990.4
10°	4099.4	3850.6	3329.7	2859.7	2597.1	2364.2	2164.1	1936.4	1753.3	1607.2	1566.9
12.5°	3911.0	3632.5	3051.3	2657.4	2408.6	2169.4	1908.9	1645.3	1457.9	1300.1	1227.1
15°	3877.1	3554.2	2972.9	2512.4	2205.4	1916.3	1570.1	1285.3	1092.6	943.3	897.8
17.5°	4081.4	3695.0	2961.3	2361.0	1939.6	1529.9	1169.9	933.8	716.8	633.1	600.3
20°	4445.7	3943.8	2960.2	2185.2	1666.5	1178.4	821.6	608.8	520.9	480.7	461.6
22.5°	4942.2	4282.6	3016.4	2033.8	1382.7	869.2	586.5	484.9	434.1	401.3	393.9
25°	5548.9	4784.5	3154.0	1931.1	1165.7	681.8	483.8	415.0	372.7	357.9	351.5
27.5°	6087.8	5265.1	3305.4	1825.3	1010.0	603.5	448.9	380.1	346.2	334.6	325.0
30°	6552.6	5701.3	3378.4	1685.5	885.1	552.7	455.3	406.6	362.1	327.2	311.3
32.5°	6940.1	6035.9	3426.1	1558.5	779.2	452.1	360.0	314.4	294.3	281.6	271.0
35°	7425.0	6398.0	3397.5	1486.5	725.2	411.9	328.2	271.0	237.2	211.7	201.2
37.5°	7933.2	6760.1	3347.7	1427.2	700.9	382.2	312.3	257.3	220.2	193.7	180.0
40°	8459.3	7095.7	3289.5	1372.1	678.7	363.1	302.8	245.6	208.6	180.0	165.2
42.5°	8941.1	7422.8	3266.2	1336.1	642.7	366.3	295.4	240.3	196.9	167.3	154.6
45°	9330.7	7733.0	3298.0	1317.1	603.5	361.0	297.5	234.0	187.4	158.8	146.1
47.5°	9746.8	8171.4	3400.7	1298.0	565.4	335.6	313.4	232.9	183.2	153.5	139.8
50°	10230.6	8732.5	3635.7	1251.4	518.8	308.1	333.5	231.9	177.9	147.2	133.4
52.5°	10875.4	9369.9	3878.2	1169.9	451.0	281.6	318.7	228.7	167.3	139.8	126.0
55°	11454.5	10041.1	4083.6	1073.6	365.3	243.5	286.9	214.9	149.3	127.0	114.3
57.5°	11693.8	10420.1	4077.2	940.2	292.2	213.9	236.1	196.9	130.2	112.2	101.6
59°	11605.9	10372.5	3940.6	841.7	266.8	198.0	195.9	194.8	121.8	101.6	93.2
60°	11482.1	10198.9	3793.5	793.0	250.9	187.4	180.0	192.7	114.3	95.3	86.8
62.5°	11007.7	9478.9	3305.4	710.4	229.7	158.8	144.0	163.0	101.6	82.6	75.2
65°	10320.6	8372.5	2798.3	687.1	223.4	131.3	119.6	116.5	86.8	69.9	63.5
67.5°	8980.2	7085.1	2266.8	671.2	225.5	110.1	104.8	87.9	72.0	58.2	54.0
70°	7189.9	5524.5	1856.0	653.2	227.6	90.0	87.9	69.9	58.2	48.7	44.5
72.5°	4368.4	3274.7	1461.1	567.5	221.3	72.0	78.3	52.9	42.3	34.9	32.8
75°	2700.9	2241.4	906.3	441.5	146.1	52.9	55.1	32.8	28.6	22.2	22.2
77.5°	1564.8	1415.5	324.0	158.8	64.6	31.8	24.4	16.9	15.9	9.5	9.5
80°	649.0	519.8	112.2	54.0	34.9	14.8	5.3	1.1	0.0	0.0	0.0
82.5°	189.5	168.3	30.7	24.4	10.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	4657.4	4657.4	4657.4	4657.4	4657.4	4657.4	4657.4	4657.4	4657.4	4657.4	4657.4
2.5°	3767.0	3732.1	3716.2	3770.2	3720.4	3783.9	3735.2	3756.4	3818.9	3846.4	3917.3
5°	2819.4	2783.4	2766.5	2848.0	2843.8	2884.0	2879.8	2916.8	2948.6	2877.7	2950.7
7.5°	1964.0	1939.6	1979.8	2043.4	2111.1	2088.9	2088.9	2039.1	2056.1	2045.5	2042.3
10°	1493.9	1410.2	1389.1	1387.0	1412.4	1417.7	1389.1	1320.3	1345.7	1353.1	1397.5
12.5°	1175.2	1110.6	1012.2	967.7	956.0	965.6	871.3	811.0	839.6	822.6	866.1
15°	842.8	789.8	731.6	681.8	668.1	649.0	546.3	474.3	465.8	469.0	476.4
17.5°	601.4	565.4	565.4	512.4	483.8	426.7	374.8	343.0	339.9	343.0	348.3
20°	443.6	424.6	422.4	408.7	376.9	338.8	302.8	296.4	294.3	299.6	301.7
22.5°	382.2	362.1	345.1	344.1	314.4	282.7	265.7	257.3	258.3	260.5	265.7
25°	342.0	320.8	302.8	292.2	271.0	248.8	232.9	228.7	228.7	231.9	232.9
27.5°	313.4	286.9	271.0	256.2	237.2	218.1	204.3	201.2	199.0	201.2	206.5
30°	293.3	266.8	246.7	224.5	209.6	191.6	180.0	175.8	174.7	175.8	180.0
32.5°	250.9	235.0	219.2	199.0	181.0	169.4	156.7	149.3	149.3	151.4	155.6
35°	189.5	181.0	180.0	174.7	159.9	147.2	132.3	124.9	124.9	129.2	131.3
37.5°	167.3	151.4	149.3	147.2	140.8	123.9	110.1	103.8	102.7	105.9	110.1
40°	152.5	134.5	124.9	122.8	123.9	104.8	90.0	83.6	83.6	84.7	88.9
42.5°	140.8	119.6	102.7	100.6	104.8	87.9	73.1	66.7	66.7	66.7	72.0
45°	131.3	106.9	86.8	76.2	82.6	72.0	59.3	52.9	50.8	52.9	55.1
47.5°	124.9	97.4	76.2	61.4	61.4	57.2	47.6	40.2	38.1	39.2	42.3
50°	119.6	88.9	64.6	49.8	44.5	45.5	36.0	30.7	28.6	28.6	31.8
52.5°	111.2	80.5	56.1	42.3	33.9	30.7	26.5	22.2	21.2	22.2	24.4
55°	100.6	73.1	48.7	34.9	26.5	21.2	19.1	15.9	14.8	15.9	19.1
57.5°	88.9	61.4	39.2	27.5	18.0	13.8	12.7	10.6	8.5	9.5	11.6
59°	81.5	55.1	33.9	22.2	13.8	9.5	9.5	7.4	5.3	6.4	9.5
60°	78.3	50.8	28.6	19.1	11.6	7.4	7.4	5.3	3.2	4.2	7.4
62.5°	66.7	42.3	22.2	11.6	5.3	1.1	3.2	1.1	0.0	1.1	3.2
65°	56.1	33.9	14.8	5.3	0.0	0.0	0.0	0.0	0.0	0.0	1.1
67.5°	46.6	25.4	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	37.1	16.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	25.4	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	15.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P453914

CATALOG NUMBER: GLAN-SA5A-727-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4657.4	4657.4	4657.4	4657.4	4657.4	4657.4	4657.4	4657.4	4657.4	4657.4
2.5°	3921.6	4073.0	4166.1	4341.9	4521.9	4660.6	4834.2	4989.8	5054.4	5088.3
5°	3024.8	3235.5	3414.4	3682.3	3931.1	4233.9	4540.9	4903.0	5041.7	5077.7
7.5°	2122.8	2337.7	2525.1	2835.3	3190.0	3595.5	4055.0	4514.5	4716.7	4773.9
10°	1533.1	1762.8	1991.5	2301.7	2633.1	3072.5	3551.0	4119.6	4352.5	4397.0
12.5°	967.7	1214.4	1586.0	1969.3	2319.7	2673.3	3174.1	3792.4	4049.7	4131.2
15°	561.1	745.4	1025.9	1525.6	1971.4	2439.3	2985.7	3669.6	3957.6	4041.2
17.5°	375.9	439.4	632.1	1014.3	1602.9	2223.4	2938.0	3770.2	4088.9	4195.8
20°	316.6	345.1	412.9	618.3	1234.5	2030.7	2950.7	4043.3	4461.5	4594.9
22.5°	278.4	304.9	348.3	444.7	861.8	1791.4	3011.1	4434.0	4974.0	5144.4
25°	245.6	272.1	310.2	368.4	579.1	1515.1	3143.4	5005.7	5652.6	5840.0
27.5°	218.1	242.5	275.3	325.0	445.7	1207.0	3260.9	5562.6	6272.0	6424.4
30°	192.7	212.8	244.6	282.7	370.6	930.6	3320.2	6049.7	6723.0	6892.4
32.5°	167.3	186.3	217.0	247.7	304.9	709.4	3278.9	6407.5	7161.3	7269.3
35°	142.9	163.0	188.5	217.0	263.6	572.8	3072.5	6809.8	7615.5	7700.2
37.5°	122.8	139.8	166.2	188.5	238.2	458.4	2822.6	7171.9	8124.8	8246.5
40°	103.8	120.7	147.2	167.3	219.2	361.0	2597.1	7574.2	8661.6	8811.9
42.5°	84.7	104.8	128.1	160.9	188.5	275.3	2323.9	7900.3	9064.9	9253.4
45°	67.8	90.0	115.4	159.9	164.1	209.6	2060.3	8154.4	9421.7	9591.1
47.5°	54.0	76.2	111.2	149.3	134.5	166.2	1910.0	8420.2	9718.2	9853.7
50°	43.4	63.5	116.5	131.3	112.2	140.8	1905.7	8716.6	9871.7	9961.7
52.5°	34.9	51.9	98.5	100.6	95.3	123.9	2020.1	9050.1	10028.4	10102.5
55°	29.6	43.4	64.6	74.1	85.8	112.2	2105.8	9563.6	10402.1	10472.0
57.5°	23.3	37.1	49.8	59.3	76.2	102.7	2117.5	9959.6	10875.4	10920.9
59°	20.1	31.8	44.5	52.9	69.9	96.3	2069.8	9983.9	10906.1	10979.2
60°	16.9	28.6	39.2	49.8	64.6	91.1	2018.0	9807.1	10791.8	10873.3
62.5°	12.7	22.2	28.6	40.2	52.9	78.3	1772.3	9189.9	10354.5	10411.7
65°	8.5	15.9	21.2	29.6	41.3	67.8	1444.1	8389.5	9679.0	9807.1
67.5°	5.3	11.6	16.9	22.2	33.9	57.2	1029.1	7194.2	8733.6	8816.1
70°	3.2	7.4	12.7	18.0	26.5	45.5	610.9	5686.5	7266.1	7283.1
72.5°	2.1	5.3	8.5	12.7	21.2	41.3	296.4	3706.7	5305.4	5507.6
75°	1.1	3.2	5.3	9.5	16.9	33.9	141.9	2476.4	3860.2	3918.4
77.5°	0.0	1.1	3.2	6.4	12.7	26.5	82.6	1626.2	2632.0	2692.4
80°	0.0	0.0	2.1	5.3	9.5	16.9	49.8	959.2	1594.5	1624.1
82.5°	0.0	0.0	1.1	4.2	6.4	12.7	25.4	421.4	1043.9	1054.5
85°	0.0	0.0	1.1	4.2	5.3	8.5	9.5	57.2	463.7	472.2
87.5°	0.0	0.0	1.1	5.3	5.3	5.3	5.3	3.2	39.2	48.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)