

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: P452290

Luminaire Tested: **GLAN-SA3B-727-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452290
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-SA3B-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA 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: 10202 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

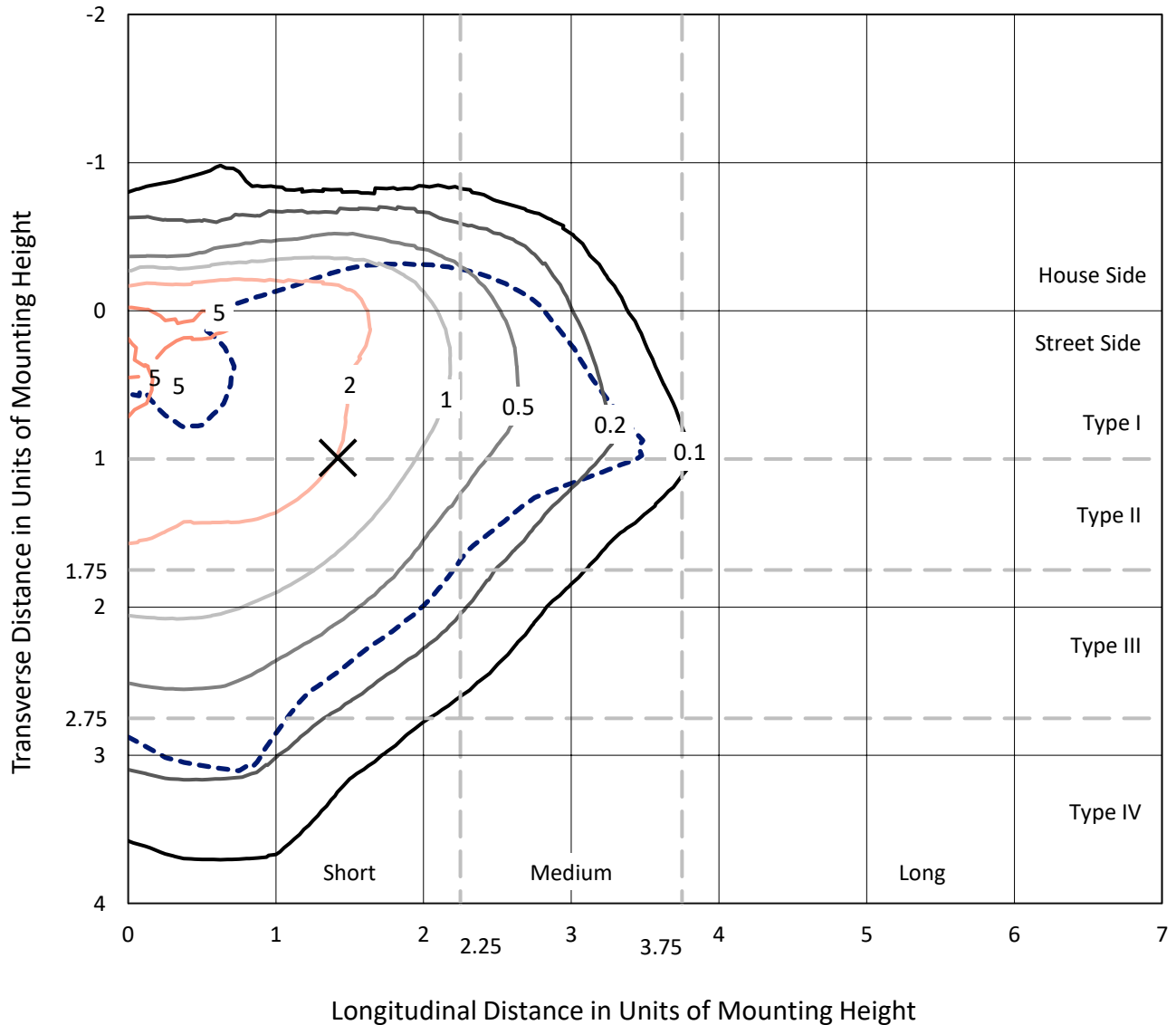
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

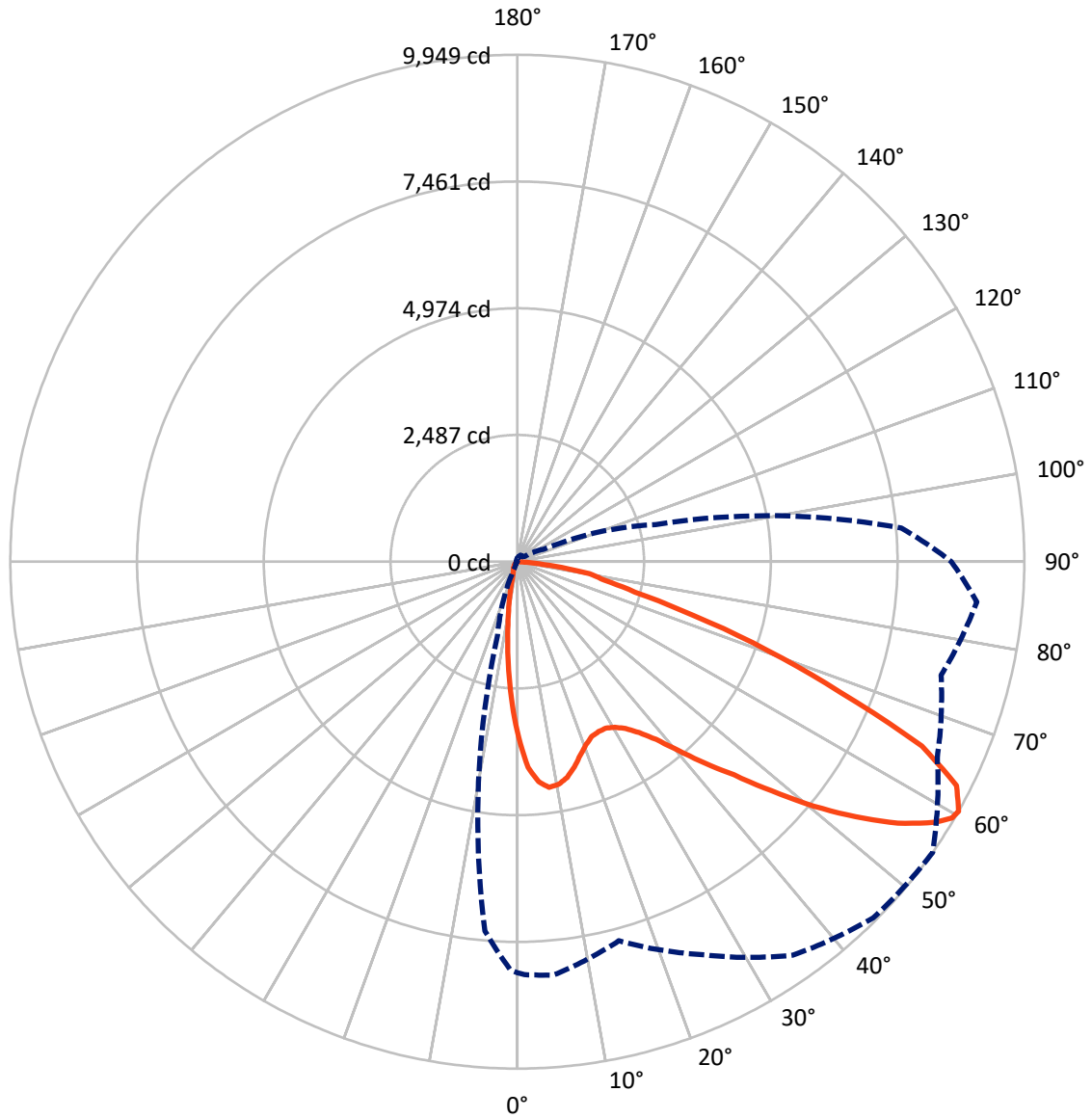
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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
House Side	Lumens	1514.1	0.0	1514.1
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	8687.9	0.0	8687.9
	% Fixture	85.2	0.0	85.2
Total	Lumens	10202.0	0.0	10202.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.8	2.5
10°-20°	503.7	4.9
20°-30°	745.6	7.3
30°-40°	1111.4	10.9
40°-50°	1627.7	16.0
50°-60°	2349.9	23.0
60°-70°	2471.9	24.2
70°-80°	1016.9	10.0
80°-90°	119.1	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°	10202.0	100.0
0°-180°	10202.0	100.0

Coefficient of Utilization



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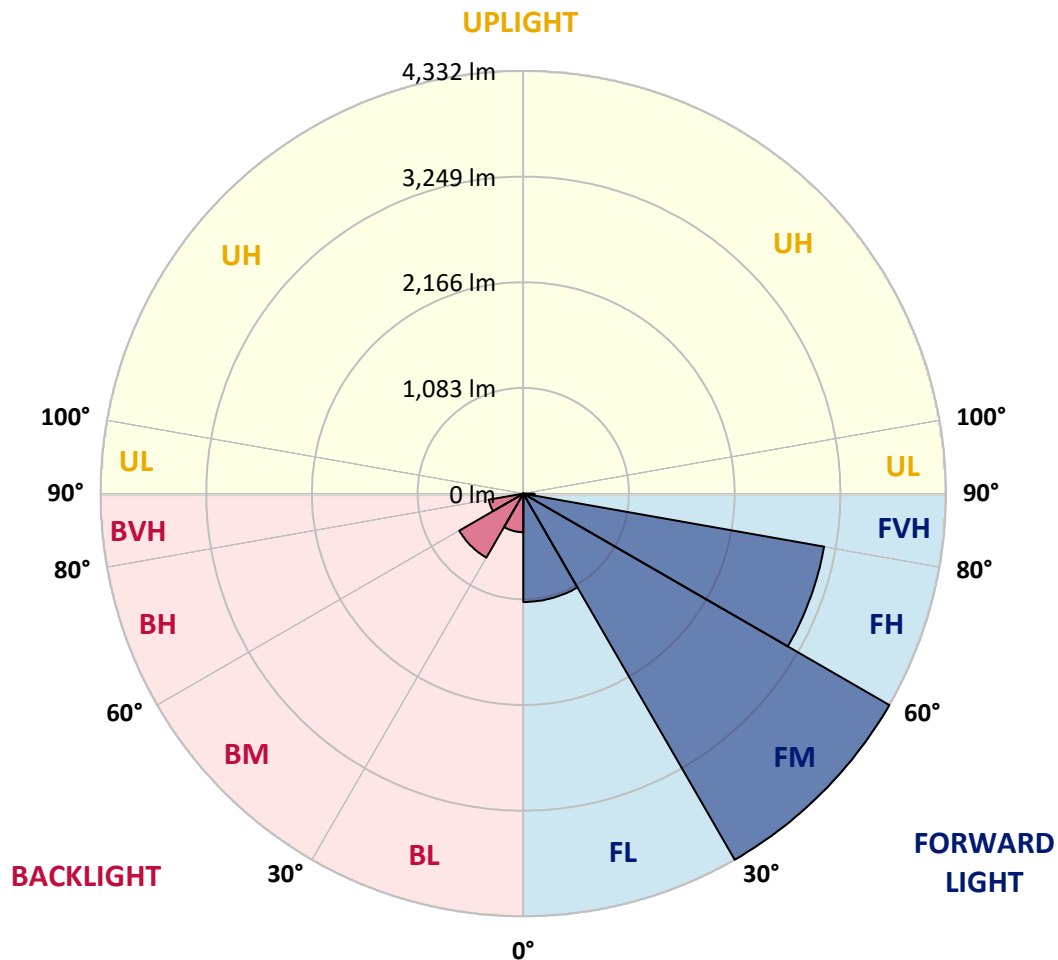
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1110.1	10.9			
FM	(30°-60°)	4331.8	42.5			
FH	(60°-80°)	3130.4	30.7			G2/5000
FVH	(80°-90°)	115.6	1.1			G2/225
BL	(0°-30°)	395.0	3.9	B1/500		
BM	(30°-60°)	757.2	7.4	B1/1000		
BH	(60°-80°)	358.4	3.5	B1/500		G1/500
BVH	(80°-90°)	3.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3454.4	3454.4	3454.4	3454.4	3454.4	3454.4	3454.4	3454.4	3454.4	3454.4	3454.4
2.5°	3774.0	3767.7	3823.4	3914.5	4006.4	4054.3	4044.9	4041.0	3964.8	3909.0	3792.0
5°	3766.1	3798.3	3898.0	4144.6	4331.5	4421.8	4448.5	4336.2	4187.8	3972.6	3707.2
7.5°	3540.7	3580.8	3743.3	4128.9	4461.1	4657.4	4650.3	4470.5	4164.2	3831.3	3452.8
10°	3261.2	3308.3	3499.1	3967.1	4398.3	4657.4	4671.5	4443.8	4062.9	3635.8	3237.6
12.5°	3064.1	3119.8	3331.1	3816.4	4236.5	4491.7	4508.2	4343.3	3986.8	3560.4	3120.6
15°	2997.3	3050.0	3264.3	3740.2	4064.5	4201.9	4198.0	4180.7	3956.9	3578.4	3126.9
17.5°	3112.0	3155.2	3397.0	3774.8	3903.5	3889.4	3909.8	3993.1	3963.2	3730.0	3324.8
20°	3408.0	3452.0	3711.9	3880.8	3780.3	3690.7	3700.2	3839.1	4021.3	4015.0	3634.2
22.5°	3815.6	3890.2	4125.8	4086.5	3763.8	3567.4	3547.8	3728.4	4120.3	4343.3	4052.0
25°	4331.5	4406.9	4590.6	4414.7	3844.6	3538.4	3520.3	3694.7	4240.4	4663.7	4522.3
27.5°	4765.0	4822.3	5005.3	4734.3	3964.0	3551.0	3521.1	3699.4	4337.8	4936.2	4918.9
30°	5112.1	5154.5	5262.0	4883.5	4066.9	3605.9	3571.4	3768.5	4381.0	5068.9	5240.1
32.5°	5391.6	5463.1	5496.8	5043.0	4214.5	3709.6	3650.7	3901.2	4486.2	5233.0	5576.9
35°	5711.2	5793.7	5750.5	5195.3	4409.2	3871.3	3799.1	4116.3	4645.6	5384.5	5968.0
37.5°	6116.4	6211.4	6042.6	5355.5	4615.0	4114.8	4081.0	4418.7	4887.5	5601.3	6387.3
40°	6535.7	6590.7	6326.1	5550.2	4867.8	4468.9	4501.1	4867.8	5203.9	5861.2	6833.4
42.5°	6863.2	6915.0	6617.4	5713.6	5126.2	4889.0	5023.3	5409.7	5566.7	6127.4	7166.3
45°	7113.7	7157.7	6819.2	5891.8	5474.8	5497.6	5751.3	5968.0	5930.3	6290.0	7423.1
47.5°	7308.4	7346.1	6974.7	6083.4	5997.0	6242.1	6630.0	6721.8	6307.2	6465.9	7655.5
50°	7388.5	7399.5	7023.4	6327.6	6589.9	7190.6	7595.1	7539.3	6739.1	6661.4	7902.9
52.5°	7493.0	7490.6	7162.4	6560.1	7147.5	8038.7	8442.4	8315.9	7227.6	6954.3	8180.9
55°	7767.0	7770.2	7460.0	6889.9	7622.5	8723.5	9155.4	9063.5	7742.7	7449.0	8505.2
57.5°	8100.0	8111.8	7883.2	7275.5	8076.4	9219.8	9687.8	9652.4	8439.2	7999.5	8811.4
59°	8143.2	8166.7	8083.5	7547.2	8345.8	9372.1	9870.0	9904.5	8812.2	8362.3	8977.1
60°	8064.6	8103.9	8141.6	7701.1	8503.6	9427.1	9881.0	9948.5	9092.6	8608.8	9052.5
62.5°	7722.3	7784.3	7973.6	8174.6	8700.7	9255.9	9529.9	9671.3	9439.6	9256.7	9059.6
65°	7273.9	7306.1	7579.4	8258.6	8318.3	8456.5	8541.3	8722.7	9022.7	9506.4	8735.3
67.5°	6538.9	6633.9	6968.4	7771.0	7189.9	7026.5	7005.3	6824.7	7603.7	8911.2	7935.9
70°	5401.8	5444.2	5856.5	6370.8	5426.2	5174.9	5275.4	5207.9	5894.2	7671.2	6387.3
72.5°	4084.9	4180.7	4583.6	5078.3	3692.3	3366.4	3643.6	3618.5	4427.3	6165.1	4388.0
75°	2906.3	2968.3	3481.9	3974.2	2585.9	2190.9	2290.6	2384.1	3090.8	4867.8	2592.9
77.5°	1996.9	2050.3	2435.9	2628.3	1886.2	1806.9	1653.0	1743.3	2025.2	2888.2	1411.1
80°	1204.6	1202.2	1455.9	1503.0	1313.7	1525.8	1280.0	1437.0	1224.2	1236.0	546.5
82.5°	782.1	774.3	890.5	970.6	731.1	768.8	515.9	743.6	797.8	344.7	172.8
85°	350.2	365.1	428.0	564.6	320.4	170.4	105.2	228.5	340.0	173.5	0.0
87.5°	36.1	28.3	75.4	137.4	44.0	4.7	15.7	7.9	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°	3454.4	3454.4	3454.4	3454.4	3454.4	3454.4	3454.4	3454.4	3454.4	3454.4	3454.4
2.5°	3737.8	3692.3	3556.5	3429.2	3320.1	3186.6	3100.2	2964.4	2881.9	2856.8	2860.7
5°	3587.9	3456.7	3198.4	2991.8	2761.8	2630.6	2431.2	2239.6	2135.9	2097.4	2080.2
7.5°	3273.8	3133.2	2821.4	2497.1	2250.6	2020.5	1872.1	1703.2	1587.8	1492.8	1476.3
10°	3040.5	2856.0	2469.7	2121.0	1926.2	1753.5	1605.1	1436.2	1300.4	1192.0	1162.2
12.5°	2900.8	2694.2	2263.1	1971.0	1786.5	1609.0	1415.8	1220.3	1081.3	964.3	910.1
15°	2875.6	2636.1	2205.0	1863.4	1635.7	1421.3	1164.5	953.3	810.4	699.7	665.9
17.5°	3027.2	2740.6	2196.4	1751.1	1438.6	1134.7	867.7	692.6	531.6	469.6	445.2
20°	3297.3	2925.1	2195.6	1620.8	1236.0	874.0	609.4	451.5	386.3	356.5	342.4
22.5°	3665.6	3176.4	2237.2	1508.5	1025.6	644.7	435.0	359.7	322.0	297.6	292.1
25°	4115.6	3548.6	2339.3	1432.3	864.6	505.7	358.9	307.8	276.4	265.4	260.7
27.5°	4515.3	3905.1	2451.6	1353.8	749.1	447.6	333.0	281.9	256.8	248.1	241.1
30°	4860.0	4228.6	2505.8	1250.1	656.5	409.9	337.7	301.5	268.6	242.6	230.9
32.5°	5147.4	4476.8	2541.1	1155.9	578.0	335.3	267.0	233.2	218.3	208.9	201.0
35°	5507.0	4745.3	2519.9	1102.5	537.9	305.5	243.4	201.0	175.9	157.1	149.2
37.5°	5884.0	5013.9	2483.0	1058.5	519.8	283.5	231.7	190.8	163.3	143.7	133.5
40°	6274.2	5262.8	2439.8	1017.7	503.4	269.3	224.6	182.2	154.7	133.5	122.5
42.5°	6631.5	5505.5	2422.5	991.0	476.7	271.7	219.1	178.3	146.1	124.1	114.6
45°	6920.5	5735.6	2446.1	976.9	447.6	267.8	220.7	173.5	139.0	117.8	108.4
47.5°	7229.1	6060.7	2522.3	962.7	419.3	248.9	232.4	172.8	135.9	113.9	103.7
50°	7588.0	6476.8	2696.6	928.2	384.8	228.5	247.4	172.0	131.9	109.2	98.9
52.5°	8066.2	6949.6	2876.4	867.7	334.5	208.9	236.4	169.6	124.1	103.7	93.4
55°	8495.8	7447.4	3028.8	796.3	270.9	180.6	212.8	159.4	110.7	94.2	84.8
57.5°	8673.2	7728.6	3024.0	697.3	216.7	158.6	175.1	146.1	96.6	83.2	75.4
59°	8608.0	7693.2	2922.7	624.3	197.9	146.8	145.3	144.5	90.3	75.4	69.1
60°	8516.2	7564.4	2813.6	588.2	186.1	139.0	133.5	142.9	84.8	70.7	64.4
62.5°	8164.4	7030.5	2451.6	526.9	170.4	117.8	106.8	120.9	75.4	61.3	55.8
65°	7654.7	6209.9	2075.4	509.6	165.7	97.4	88.7	86.4	64.4	51.8	47.1
67.5°	6660.6	5255.0	1681.2	497.9	167.3	81.7	77.7	65.2	53.4	43.2	40.0
70°	5332.7	4097.5	1376.6	484.5	168.8	66.7	65.2	51.8	43.2	36.1	33.0
72.5°	3240.0	2428.8	1083.7	420.9	164.1	53.4	58.1	39.3	31.4	25.9	24.3
75°	2003.2	1662.4	672.2	327.5	108.4	39.3	40.8	24.3	21.2	16.5	16.5
77.5°	1160.6	1049.9	240.3	117.8	47.9	23.6	18.1	12.6	11.8	7.1	7.1
80°	481.4	385.6	83.2	40.0	25.9	11.0	3.9	0.8	0.0	0.0	0.0
82.5°	140.6	124.9	22.8	18.1	7.9	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°	3454.4	3454.4	3454.4	3454.4	3454.4	3454.4	3454.4	3454.4	3454.4	3454.4	3454.4
2.5°	2794.0	2768.0	2756.3	2796.3	2759.4	2806.5	2770.4	2786.1	2832.4	2852.9	2905.5
5°	2091.2	2064.5	2051.9	2112.4	2109.2	2139.1	2135.9	2163.4	2187.0	2134.3	2188.5
7.5°	1456.7	1438.6	1468.4	1515.6	1565.8	1549.3	1549.3	1512.4	1525.0	1517.1	1514.8
10°	1108.0	1046.0	1030.3	1028.7	1047.5	1051.5	1030.3	979.2	998.1	1003.6	1036.5
12.5°	871.6	823.7	750.7	717.7	709.1	716.2	646.3	601.5	622.7	610.1	642.3
15°	625.1	585.8	542.6	505.7	495.5	481.4	405.2	351.8	345.5	347.9	353.4
17.5°	446.0	419.3	419.3	380.1	358.9	316.5	278.0	254.4	252.1	254.4	258.4
20°	329.0	314.9	313.3	303.1	279.6	251.3	224.6	219.9	218.3	222.2	223.8
22.5°	283.5	268.6	256.0	255.2	233.2	209.7	197.1	190.8	191.6	193.2	197.1
25°	253.6	237.9	224.6	216.7	201.0	184.5	172.8	169.6	169.6	172.0	172.8
27.5°	232.4	212.8	201.0	190.0	175.9	161.8	151.6	149.2	147.6	149.2	153.1
30°	217.5	197.9	183.0	166.5	155.5	142.1	133.5	130.4	129.6	130.4	133.5
32.5°	186.1	174.3	162.5	147.6	134.3	125.6	116.2	110.7	110.7	112.3	115.4
35°	140.6	134.3	133.5	129.6	118.6	109.2	98.2	92.7	92.7	95.8	97.4
37.5°	124.1	112.3	110.7	109.2	104.4	91.9	81.7	77.0	76.2	78.5	81.7
40°	113.1	99.7	92.7	91.1	91.9	77.7	66.7	62.0	62.0	62.8	66.0
42.5°	104.4	88.7	76.2	74.6	77.7	65.2	54.2	49.5	49.5	49.5	53.4
45°	97.4	79.3	64.4	56.5	61.3	53.4	44.0	39.3	37.7	39.3	40.8
47.5°	92.7	72.2	56.5	45.5	45.5	42.4	35.3	29.8	28.3	29.1	31.4
50°	88.7	66.0	47.9	36.9	33.0	33.8	26.7	22.8	21.2	21.2	23.6
52.5°	82.5	59.7	41.6	31.4	25.1	22.8	19.6	16.5	15.7	16.5	18.1
55°	74.6	54.2	36.1	25.9	19.6	15.7	14.1	11.8	11.0	11.8	14.1
57.5°	66.0	45.5	29.1	20.4	13.3	10.2	9.4	7.9	6.3	7.1	8.6
59°	60.5	40.8	25.1	16.5	10.2	7.1	7.1	5.5	3.9	4.7	7.1
60°	58.1	37.7	21.2	14.1	8.6	5.5	5.5	3.9	2.4	3.1	5.5
62.5°	49.5	31.4	16.5	8.6	3.9	0.8	2.4	0.8	0.0	0.8	2.4
65°	41.6	25.1	11.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.8
67.5°	34.6	18.8	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	27.5	12.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	18.8	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	11.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	4.7	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: P452290
 CATALOG NUMBER: GLAN-SA3B-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3454.4	3454.4	3454.4	3454.4	3454.4	3454.4	3454.4	3454.4	3454.4	3454.4
2.5°	2908.6	3020.9	3090.0	3220.4	3353.9	3456.7	3585.5	3700.9	3748.8	3774.0
5°	2243.5	2399.8	2532.5	2731.1	2915.7	3140.3	3368.0	3636.5	3739.4	3766.1
7.5°	1574.5	1733.9	1872.9	2102.9	2366.0	2666.8	3007.6	3348.4	3498.3	3540.7
10°	1137.1	1307.5	1477.1	1707.2	1952.9	2278.8	2633.8	3055.5	3228.2	3261.2
12.5°	717.7	900.7	1176.3	1460.6	1720.5	1982.8	2354.2	2812.8	3003.6	3064.1
15°	416.2	552.8	760.9	1131.6	1462.2	1809.2	2214.4	2721.7	2935.3	2997.3
17.5°	278.8	325.9	468.8	752.3	1188.9	1649.1	2179.1	2796.3	3032.7	3112.0
20°	234.8	256.0	306.3	458.6	915.6	1506.1	2188.5	2998.9	3309.1	3408.0
22.5°	206.5	226.2	258.4	329.8	639.2	1328.7	2233.3	3288.7	3689.2	3815.6
25°	182.2	201.8	230.1	273.3	429.5	1123.7	2331.4	3712.7	4192.5	4331.5
27.5°	161.8	179.8	204.2	241.1	330.6	895.2	2418.6	4125.8	4651.9	4765.0
30°	142.9	157.8	181.4	209.7	274.8	690.2	2462.6	4487.0	4986.4	5112.1
32.5°	124.1	138.2	161.0	183.8	226.2	526.1	2432.0	4752.4	5311.5	5391.6
35°	106.0	120.9	139.8	161.0	195.5	424.8	2278.8	5050.8	5648.4	5711.2
37.5°	91.1	103.7	123.3	139.8	176.7	340.0	2093.5	5319.4	6026.1	6116.4
40°	77.0	89.5	109.2	124.1	162.5	267.8	1926.2	5617.8	6424.2	6535.7
42.5°	62.8	77.7	95.0	119.4	139.8	204.2	1723.7	5859.6	6723.4	6863.2
45°	50.3	66.7	85.6	118.6	121.7	155.5	1528.1	6048.1	6988.0	7113.7
47.5°	40.0	56.5	82.5	110.7	99.7	123.3	1416.6	6245.2	7207.9	7308.4
50°	32.2	47.1	86.4	97.4	83.2	104.4	1413.5	6465.1	7321.8	7388.5
52.5°	25.9	38.5	73.0	74.6	70.7	91.9	1498.3	6712.4	7438.0	7493.0
55°	22.0	32.2	47.9	55.0	63.6	83.2	1561.9	7093.3	7715.2	7767.0
57.5°	17.3	27.5	36.9	44.0	56.5	76.2	1570.5	7387.0	8066.2	8100.0
59°	14.9	23.6	33.0	39.3	51.8	71.5	1535.2	7405.0	8089.0	8143.2
60°	12.6	21.2	29.1	36.9	47.9	67.5	1496.7	7273.9	8004.2	8064.6
62.5°	9.4	16.5	21.2	29.8	39.3	58.1	1314.5	6816.1	7679.9	7722.3
65°	6.3	11.8	15.7	22.0	30.6	50.3	1071.1	6222.4	7178.9	7273.9
67.5°	3.9	8.6	12.6	16.5	25.1	42.4	763.3	5335.9	6477.6	6538.9
70°	2.4	5.5	9.4	13.3	19.6	33.8	453.1	4217.6	5389.3	5401.8
72.5°	1.6	3.9	6.3	9.4	15.7	30.6	219.9	2749.2	3934.9	4084.9
75°	0.8	2.4	3.9	7.1	12.6	25.1	105.2	1836.7	2863.1	2906.3
77.5°	0.0	0.8	2.4	4.7	9.4	19.6	61.3	1206.2	1952.2	1996.9
80°	0.0	0.0	1.6	3.9	7.1	12.6	36.9	711.4	1182.6	1204.6
82.5°	0.0	0.0	0.8	3.1	4.7	9.4	18.8	312.5	774.3	782.1
85°	0.0	0.0	0.8	3.1	3.9	6.3	7.1	42.4	343.9	350.2
87.5°	0.0	0.0	0.8	3.9	3.9	3.9	3.9	2.4	29.1	36.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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