

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: P459454

Luminaire Tested: **GLAN-SA9A-735-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459454
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9A-735-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33290 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

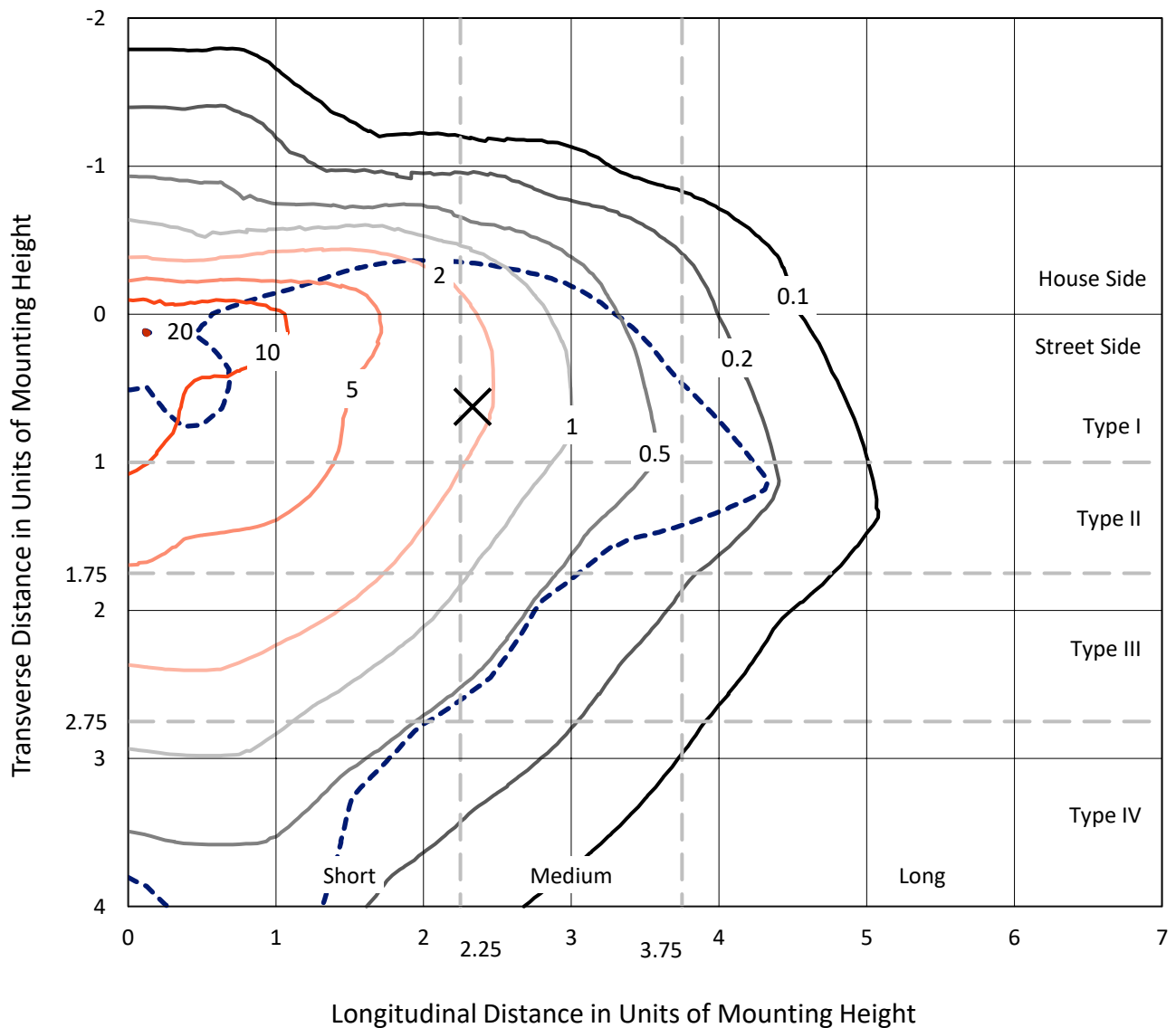
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

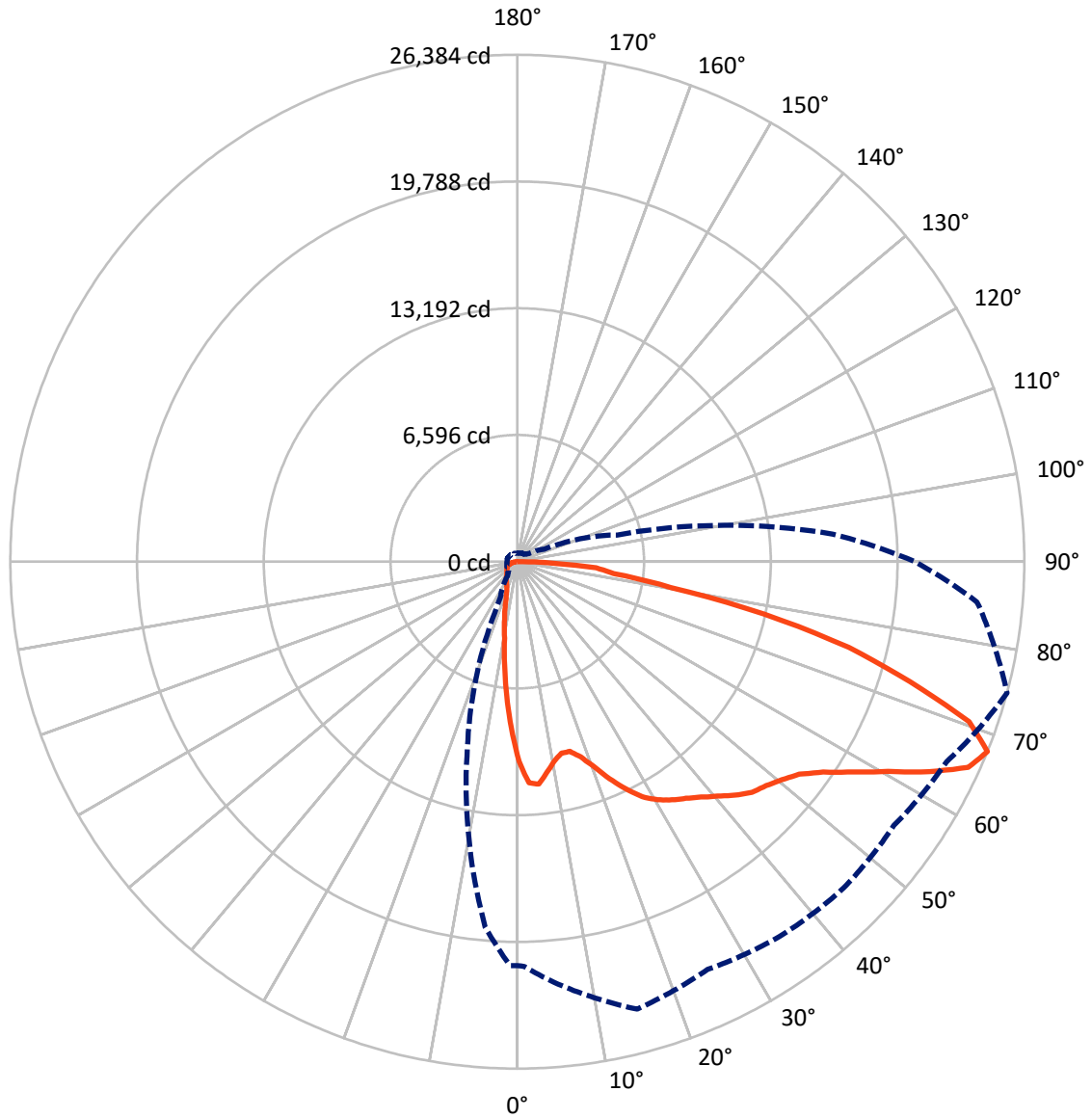
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5626.7	0.0	5626.7
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	27663.3	0.0	27663.3
	% Fixture	83.1	0.0	83.1
Total	Lumens	33290.0	0.0	33290.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	788.9	2.4
10°-20°	1645.2	4.9
20°-30°	2367.4	7.1
30°-40°	3409.8	10.2
40°-50°	4789.8	14.4
50°-60°	6680.1	20.1
60°-70°	7942.2	23.9
70°-80°	4677.5	14.1
80°-90°	989.1	3.0
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°	33290.0	100.0
0°-180°	33290.0	100.0

Coefficient of Utilization



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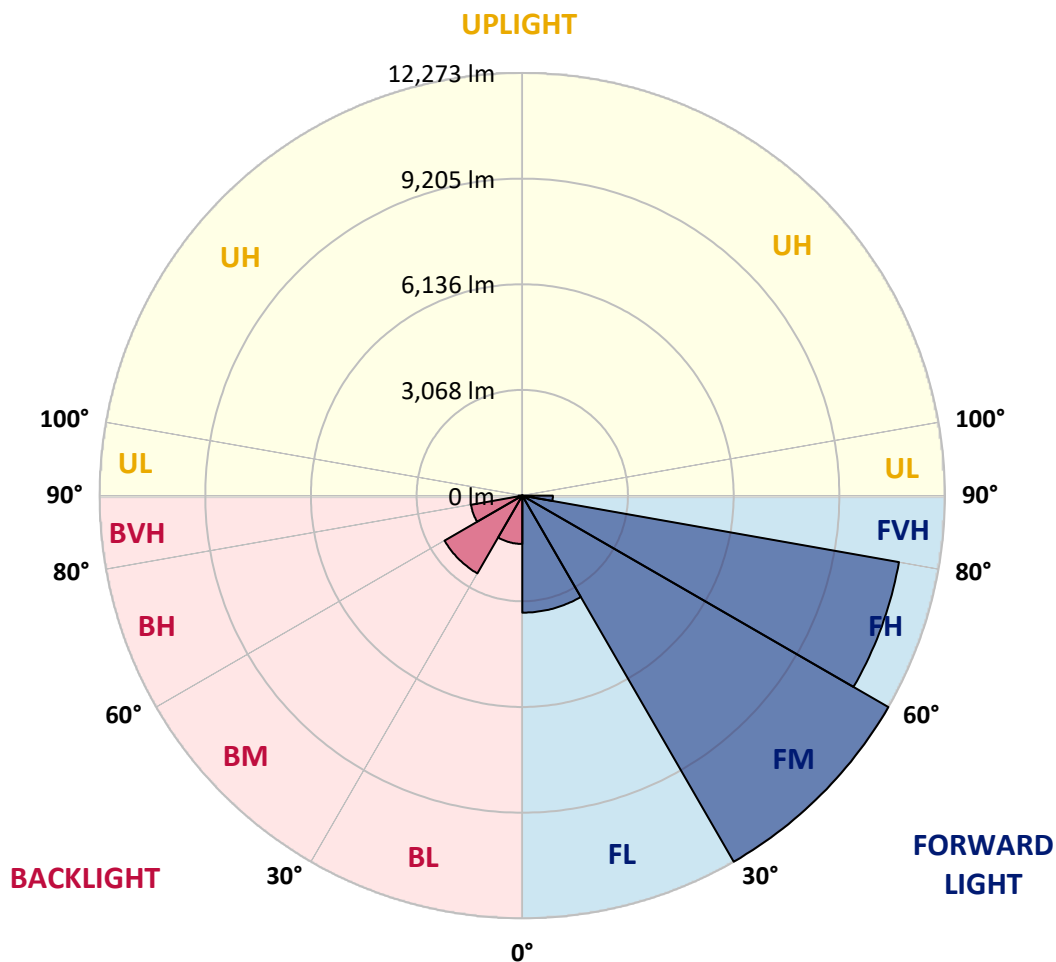
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3398.0	10.2			
FM	(30°-60°)	12272.8	36.9			
FH	(60°-80°)	11105.7	33.4			G4/12000
FVH	(80°-90°)	886.8	2.7			G5
BL	(0°-30°)	1403.5	4.2	B3/2500		
BM	(30°-60°)	2606.9	7.8	B3/5000		
BH	(60°-80°)	1514.0	4.5	B3/2500		G3/2500
BVH	(80°-90°)	102.3	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10400.6	10400.6	10400.6	10400.6	10400.6	10400.6	10400.6	10400.6	10400.6	10400.6	10400.6
2.5°	11213.9	11228.9	11324.9	11604.6	11796.7	11867.2	11916.3	11824.5	11734.8	11517.1	11188.3
5°	11179.8	11267.3	11517.1	12144.7	12640.0	12853.4	12917.5	12642.1	12187.4	11628.1	10955.6
7.5°	10526.5	10643.9	11028.2	12080.6	12953.8	13453.3	13387.1	12889.7	12070.0	11073.0	10133.7
10°	9751.6	9881.8	10345.1	11617.4	12742.4	13429.8	13429.8	12823.5	11734.8	10550.0	9467.7
12.5°	9136.8	9273.4	9802.8	11141.3	12302.7	12953.8	13062.6	12541.8	11493.6	10219.1	9030.1
15°	8934.0	9066.4	9636.3	10853.2	11837.3	12234.3	12270.6	12099.9	11376.2	10242.6	9010.9
17.5°	9185.9	9356.7	9933.1	10938.5	11410.3	11433.8	11461.6	11596.1	11389.0	10671.7	9399.4
20°	9913.9	10097.4	10699.5	11213.9	11036.7	10793.4	10808.3	11154.2	11540.5	11380.4	10328.0
22.5°	10964.2	11124.3	11741.2	11698.5	10878.8	10377.1	10272.5	10755.0	11764.7	12264.2	11316.4
25°	12097.7	12285.6	12994.3	12417.9	10923.6	10129.5	10063.3	10520.1	11997.4	13090.4	12458.5
27.5°	13395.7	13579.3	14138.6	13143.8	11158.4	10110.3	10031.3	10498.8	12206.6	13854.6	13549.4
30°	14360.6	14529.2	14909.2	13754.3	11446.6	10238.3	10140.1	10667.4	12385.9	14377.7	14612.5
32.5°	15118.4	15293.5	15500.5	14134.3	11826.6	10471.0	10289.6	10974.8	12620.7	14776.9	15400.2
35°	15908.3	16115.4	16100.4	14471.6	12181.0	10740.0	10562.8	11418.9	12990.1	15124.8	16399.3
37.5°	16909.5	16992.7	16886.0	14774.7	12605.8	11224.6	11126.4	12078.5	13515.2	15545.4	17567.0
40°	17925.6	18092.1	17543.5	15141.9	13122.4	12136.1	12125.5	13054.1	14138.6	16038.5	18698.4
42.5°	18796.6	18937.5	18158.3	15462.1	13747.9	13248.4	13329.5	14362.7	14956.2	16610.6	19607.8
45°	19452.0	19577.9	18726.2	15771.7	14571.9	14533.5	15011.7	15765.3	15987.3	17125.1	20141.5
47.5°	20009.2	20130.9	19121.1	16241.3	15590.2	16068.4	16900.9	17227.6	16868.9	17419.7	20739.3
50°	20478.8	20515.1	19392.2	16800.6	16854.0	17949.1	18756.1	18967.4	17739.9	17842.4	21258.0
52.5°	20967.7	20920.7	19859.7	17505.1	18220.2	19733.8	20320.8	20540.7	18574.6	18363.3	22013.7
55°	22062.8	22107.6	20907.9	18393.2	19601.4	21486.4	22259.2	22047.9	19499.0	19321.8	22974.4
57.5°	23386.4	23347.9	22383.0	19782.9	21008.2	23117.4	23693.8	23354.3	20732.9	20638.9	23947.8
60°	23900.8	23952.1	23616.9	21277.2	22395.8	24545.5	25134.7	24607.5	22212.2	22169.6	24682.2
62.5°	23384.2	23672.4	23898.7	22607.2	23578.5	25595.9	26180.8	25578.8	23755.7	24065.2	25196.7
65°	22355.3	22417.2	23187.8	23734.3	24148.5	25768.8	26074.0	25753.8	25045.1	25792.3	25173.2
67.5°	21018.9	21072.3	21975.3	24103.7	23414.1	23804.8	24018.3	23924.3	24645.9	26383.6	24014.0
70°	19746.6	19703.9	20658.1	23162.2	20382.8	19789.3	19966.5	19671.9	21266.5	24938.3	21740.5
72.5°	17270.3	17424.0	18448.7	20545.0	16138.8	15173.9	15560.3	14798.2	16356.6	21358.3	17646.0
75°	13528.0	13564.3	15274.3	17242.5	12174.6	10652.5	11175.5	10857.4	12528.9	17816.8	12185.2
77.5°	9367.4	9286.2	11124.3	13169.4	8682.1	7798.3	7806.8	7655.3	8748.3	13118.1	8278.6
80°	5949.6	5825.8	6963.6	8135.6	5966.7	6383.0	6173.7	6167.3	5695.6	8092.9	5006.0
82.5°	3215.0	3351.6	4399.8	5100.0	4280.2	4933.4	4521.4	4389.1	3908.8	5065.8	3202.2
85°	1464.5	1592.5	2346.1	3469.0	3251.2	3287.5	2196.7	2591.6	3234.2	4113.7	1709.9
87.5°	143.0	183.6	484.6	1637.4	1110.1	875.3	326.6	629.8	813.3	1462.3	136.6
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°	10400.6	10400.6	10400.6	10400.6	10400.6	10400.6	10400.6	10400.6	10400.6	10400.6	10400.6
2.5°	11053.8	10942.8	10565.0	10253.3	9922.4	9670.5	9341.7	9121.9	8970.3	8741.9	8714.1
5°	10545.7	10274.6	9617.1	8946.8	8368.3	7932.8	7490.9	7085.3	6846.2	6771.5	6675.4
7.5°	9689.7	9232.9	8387.5	7619.0	6955.1	6306.1	5806.6	5452.2	5215.2	5076.5	4910.0
10°	8985.2	8455.8	7426.9	6485.4	5938.9	5535.5	5095.7	4715.7	4423.2	4173.5	4036.8
12.5°	8511.3	7913.6	6756.5	5992.3	5569.6	5140.5	4626.0	4199.1	3767.9	3483.9	3362.3
15°	8368.3	7736.4	6549.5	5746.8	5140.5	4579.1	4002.7	3445.5	3018.6	2749.6	2659.9
17.5°	8718.4	7954.1	6547.3	5420.2	4636.7	3966.4	3227.8	2704.7	2267.1	2066.5	2002.4
20°	9371.6	8372.6	6566.5	5097.8	4090.2	3146.6	2348.2	1919.2	1709.9	1624.6	1592.5
22.5°	10283.2	9010.9	6624.2	4779.7	3492.5	2416.6	1759.0	1541.3	1466.6	1451.6	1445.2
25°	11406.1	9800.7	6818.4	4493.7	2988.7	1844.4	1470.9	1372.7	1330.0	1315.0	1312.9
27.5°	12439.3	10821.1	7053.3	4248.2	2501.9	1590.4	1330.0	1246.7	1204.0	1201.9	1206.1
30°	13372.2	11675.0	7249.7	3972.8	2132.6	1413.2	1238.2	1154.9	1114.3	1112.2	1125.0
32.5°	14179.1	12377.4	7394.8	3701.7	1927.7	1304.3	1154.9	1065.2	1031.1	1024.7	1031.1
35°	15041.6	13077.6	7328.7	3490.3	1810.3	1214.7	1093.0	1005.5	964.9	945.7	945.7
37.5°	16025.7	13799.1	7215.5	3315.3	1756.9	1140.0	1039.6	954.2	913.7	894.5	892.3
40°	17099.5	14520.7	7059.7	3159.5	1703.5	1095.1	1003.3	913.7	864.6	845.4	841.1
42.5°	18047.3	15137.6	6931.6	3057.0	1616.0	1103.7	971.3	883.8	821.9	796.3	794.1
45°	18871.3	15758.8	6908.1	2997.2	1543.4	1090.9	962.8	860.3	787.7	760.0	755.7
47.5°	19516.0	16405.7	7042.6	2963.1	1464.5	1022.6	1018.3	845.4	757.8	728.0	723.7
50°	20301.6	17323.6	7350.0	2892.6	1391.9	958.5	1075.9	843.2	734.4	695.9	685.3
52.5°	21347.7	18519.1	7766.3	2766.7	1287.3	898.7	1026.8	843.2	706.6	668.2	655.4
55°	22929.5	20043.3	8174.0	2589.5	1140.0	819.8	926.5	817.6	666.0	631.9	623.4
57.5°	23977.7	21157.7	8434.5	2344.0	956.4	762.1	798.4	777.1	625.5	589.2	589.2
60°	24031.1	21456.5	8310.6	2034.4	841.1	708.7	693.8	783.5	589.2	550.8	546.5
62.5°	23416.3	20724.3	7665.9	1756.9	779.2	651.1	627.6	687.4	552.9	514.5	508.1
65°	22455.6	18856.4	6547.3	1624.6	745.0	599.9	565.7	563.6	514.5	478.2	469.6
67.5°	20690.2	16478.3	5379.6	1547.7	728.0	542.2	510.2	499.5	469.6	439.8	435.5
70°	18087.9	13801.3	4314.4	1515.7	719.4	482.5	456.8	444.0	418.4	394.9	392.8
72.5°	14072.4	11194.7	3560.8	1494.3	715.1	427.0	399.2	382.1	367.2	345.8	345.8
75°	10108.1	8235.9	2717.6	1347.0	661.8	367.2	337.3	326.6	305.3	288.2	292.5
77.5°	6372.3	5546.1	1788.9	990.5	512.3	294.6	269.0	262.6	245.5	222.0	237.0
80°	4303.7	3900.2	1043.9	623.4	322.3	215.6	207.1	204.9	185.7	160.1	162.2
82.5°	2928.9	2873.4	542.2	354.4	185.7	126.0	121.7	126.0	104.6	85.4	85.4
85°	1144.2	1562.6	256.2	138.8	59.8	19.2	27.8	29.9	17.1	8.5	10.7
87.5°	21.3	160.1	6.4	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°	10400.6	10400.6	10400.6	10400.6	10400.6	10400.6	10400.6	10400.6	10400.6	10400.6	10400.6
2.5°	8671.4	8652.2	8684.2	8547.6	8575.4	8626.6	8652.2	8667.2	8878.5	8829.4	8963.9
5°	6765.1	6745.9	6869.7	6886.8	6950.8	6938.0	6999.9	7014.8	7091.7	7119.4	7307.3
7.5°	4920.6	5003.9	5144.8	5217.4	5326.2	5360.4	5328.4	5407.4	5247.3	5362.5	5396.7
10°	3953.6	3853.3	3793.5	3960.0	3981.3	4139.3	4075.3	4024.0	4118.0	4122.2	4211.9
12.5°	3291.8	3076.2	2933.2	2980.1	3031.4	3099.7	3110.4	3212.8	3281.1	3345.2	3398.5
15°	2580.9	2506.2	2376.0	2312.0	2384.5	2412.3	2478.5	2563.9	2636.4	2655.6	2728.2
17.5°	1981.1	1993.9	1972.5	1934.1	1978.9	2000.3	2004.5	2006.7	2025.9	2013.1	2119.8
20°	1594.7	1639.5	1692.9	1701.4	1716.4	1727.0	1707.8	1635.2	1637.4	1682.2	1716.4
22.5°	1443.1	1451.6	1511.4	1530.6	1577.6	1558.4	1502.9	1468.7	1464.5	1475.1	1492.2
25°	1323.6	1336.4	1379.1	1408.9	1445.2	1411.1	1370.5	1338.5	1334.2	1344.9	1362.0
27.5°	1216.8	1236.0	1274.5	1304.3	1338.5	1306.5	1268.1	1240.3	1238.2	1236.0	1246.7
30°	1131.4	1152.8	1180.5	1214.7	1238.2	1210.4	1174.1	1159.2	1157.0	1152.8	1157.0
32.5°	1046.0	1080.2	1107.9	1125.0	1148.5	1127.2	1099.4	1090.9	1075.9	1063.1	1056.7
35°	950.0	986.3	1029.0	1050.3	1073.8	1052.4	1033.2	996.9	971.3	969.2	973.5
37.5°	894.5	909.4	943.6	979.9	1003.3	992.7	956.4	920.1	913.7	913.7	917.9
40°	845.4	851.8	866.7	913.7	956.4	924.4	879.5	868.9	868.9	866.7	868.9
42.5°	796.3	802.7	802.7	839.0	907.3	856.0	821.9	821.9	821.9	824.0	830.4
45°	751.4	753.6	751.4	777.1	841.1	798.4	774.9	781.3	785.6	789.9	794.1
47.5°	713.0	715.1	713.0	734.4	766.4	749.3	736.5	745.0	753.6	760.0	764.2
50°	678.9	676.7	681.0	693.8	708.7	713.0	704.5	717.3	721.6	730.1	740.8
52.5°	649.0	646.8	651.1	657.5	678.9	678.9	678.9	689.5	698.1	706.6	721.6
55°	614.8	616.9	623.4	631.9	659.6	655.4	657.5	666.0	674.6	687.4	695.9
57.5°	582.8	587.1	595.6	608.4	636.2	634.0	636.2	640.4	651.1	657.5	666.0
60°	546.5	555.0	565.7	574.3	602.0	599.9	610.5	619.1	625.5	625.5	629.8
62.5°	510.2	523.0	533.7	540.1	570.0	572.1	587.1	593.5	597.7	593.5	599.9
65°	473.9	493.1	497.4	505.9	535.8	538.0	555.0	570.0	565.7	561.4	572.1
67.5°	437.6	461.1	459.0	469.6	499.5	503.8	518.7	544.4	535.8	531.6	540.1
70°	397.1	414.1	416.3	422.7	463.2	456.8	480.3	503.8	497.4	499.5	499.5
72.5°	352.2	367.2	367.2	380.0	422.7	412.0	431.2	456.8	456.8	454.7	454.7
75°	298.9	307.4	315.9	335.2	380.0	367.2	380.0	403.5	407.7	403.5	403.5
77.5°	241.2	254.0	258.3	283.9	315.9	313.8	326.6	337.3	345.8	341.6	341.6
80°	170.8	183.6	200.7	228.4	247.6	254.0	260.4	269.0	273.3	273.3	277.5
82.5°	96.1	115.3	130.2	158.0	166.5	198.5	196.4	202.8	196.4	172.9	192.1
85°	21.3	40.6	57.6	72.6	83.3	115.3	121.7	136.6	113.1	104.6	104.6
87.5°	0.0	0.0	0.0	0.0	0.0	17.1	34.2	47.0	40.6	34.2	34.2
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: P459454

CATALOG NUMBER: GLAN-SA9A-735-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10400.6	10400.6	10400.6	10400.6	10400.6	10400.6	10400.6	10400.6	10400.6	10400.6
2.5°	9077.0	9262.8	9486.9	9873.3	10144.4	10436.9	10731.5	11045.3	11128.5	11213.9
5°	7358.5	7723.6	7922.1	8440.9	8985.2	9676.9	10242.6	10861.7	11120.0	11179.8
7.5°	5573.9	5821.5	6342.4	6867.5	7542.1	8268.0	9134.7	10099.6	10400.6	10526.5
10°	4419.0	4756.3	5213.1	5776.7	6368.0	7149.3	8127.1	9254.2	9681.2	9751.6
12.5°	3761.5	4137.2	4634.6	5230.2	5789.5	6378.7	7364.9	8528.4	8985.2	9136.8
15°	3007.9	3462.6	4036.8	4664.5	5272.9	5917.6	6916.6	8229.5	8756.8	8934.0
17.5°	2363.2	2730.4	3351.6	4032.6	4754.1	5569.6	6822.7	8372.6	9021.5	9185.9
20°	1808.1	2070.7	2593.7	3313.2	4158.5	5225.9	6846.2	8912.7	9689.7	9913.9
22.5°	1562.6	1697.1	2015.2	2700.5	3646.2	4927.0	6942.3	9653.4	10590.6	10964.2
25°	1415.4	1485.8	1665.1	2113.4	3157.3	4636.7	7162.1	10650.4	11850.1	12097.7
27.5°	1289.4	1340.6	1451.6	1774.0	2713.3	4367.7	7418.3	11756.2	13026.3	13395.7
30°	1169.9	1238.2	1342.8	1575.5	2429.4	4122.2	7740.7	12652.8	14016.9	14360.6
32.5°	1078.1	1146.4	1242.4	1436.7	2188.1	3863.9	7932.8	13440.5	14826.0	15118.4
35°	1003.3	1061.0	1161.3	1325.7	2004.5	3667.5	7894.4	14066.0	15609.4	15908.3
37.5°	950.0	999.1	1099.4	1221.1	1865.8	3462.6	7875.2	14892.1	16563.7	16909.5
40°	900.9	952.1	1043.9	1152.8	1727.0	3221.4	7885.8	15711.9	17579.8	17925.6
42.5°	862.4	920.1	994.8	1133.6	1584.0	3027.1	7885.8	16424.9	18463.6	18796.6
45°	830.4	892.3	964.9	1131.4	1470.9	2879.8	7832.5	17037.6	19168.1	19452.0
47.5°	802.7	871.0	975.6	1093.0	1443.1	2773.1	7785.5	17528.6	19742.3	20009.2
50°	783.5	864.6	1037.5	1048.2	1451.6	2741.0	8011.8	18147.7	20248.3	20478.8
52.5°	768.5	866.7	1035.4	982.0	1436.7	2762.4	8483.6	19114.7	20950.6	20967.7
55°	738.6	864.6	982.0	907.3	1374.8	2798.7	9089.8	20519.4	22050.0	22062.8
57.5°	708.7	841.1	911.5	843.2	1248.8	2798.7	9819.9	21849.3	23375.7	23386.4
60°	678.9	875.3	800.5	787.7	1084.5	2747.4	10590.6	22434.3	23792.0	23900.8
62.5°	649.0	881.7	715.1	738.6	964.9	2623.6	11164.8	21787.4	23228.4	23384.2
65°	614.8	710.9	659.6	687.4	903.0	2416.6	10983.4	20602.6	22169.6	22355.3
67.5°	574.3	602.0	599.9	634.0	881.7	2111.3	10027.0	19104.0	21029.6	21018.9
70°	525.2	540.1	546.5	582.8	841.1	1874.3	8355.5	17159.3	19507.5	19746.6
72.5°	473.9	486.7	493.1	525.2	800.5	1739.8	6485.4	14480.1	16896.7	17270.3
75°	418.4	427.0	435.5	463.2	757.8	1541.3	4619.6	11053.8	12941.0	13528.0
77.5°	360.8	360.8	371.4	399.2	638.3	1272.3	3099.7	7753.5	8767.5	9367.4
80°	292.5	294.6	290.3	320.2	469.6	871.0	1761.2	5178.9	5834.3	5949.6
82.5°	224.2	217.7	219.9	234.8	350.1	593.5	939.3	3217.1	3279.0	3215.0
85°	140.9	140.9	136.6	153.7	224.2	309.5	512.3	1970.4	1539.2	1464.5
87.5°	57.6	47.0	53.4	61.9	106.7	126.0	200.7	405.6	155.8	143.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)