

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: P532683

Luminaire Tested: **GLAN-SA8A-740-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532683
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8A-740-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20415 lumens
Efficiency: N/A
Efficacy: 83.7 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): 244
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



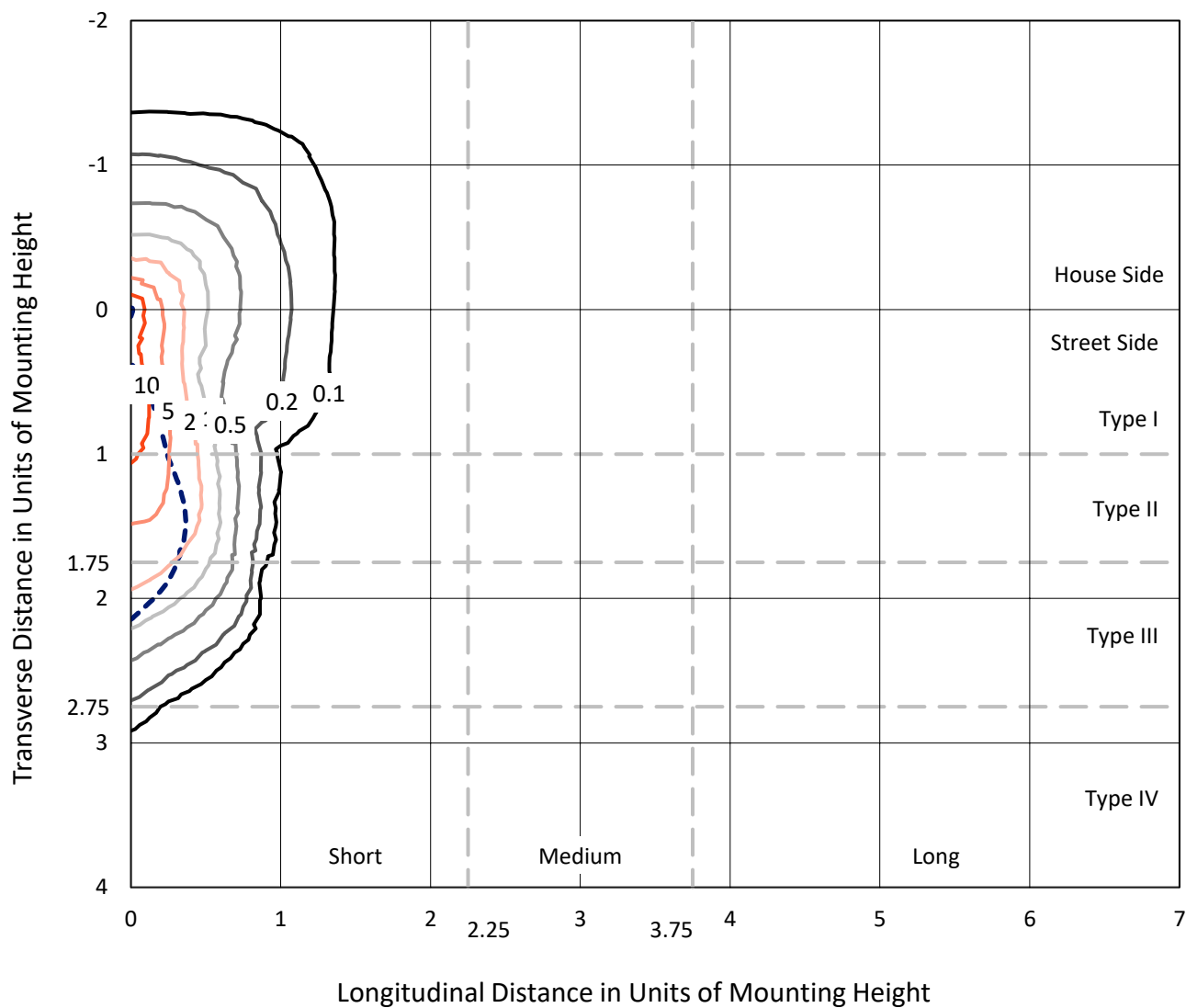
REPORT NUMBER: P532683

CATALOG NUMBER: GLAN-SA8A-740-U-SLR-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



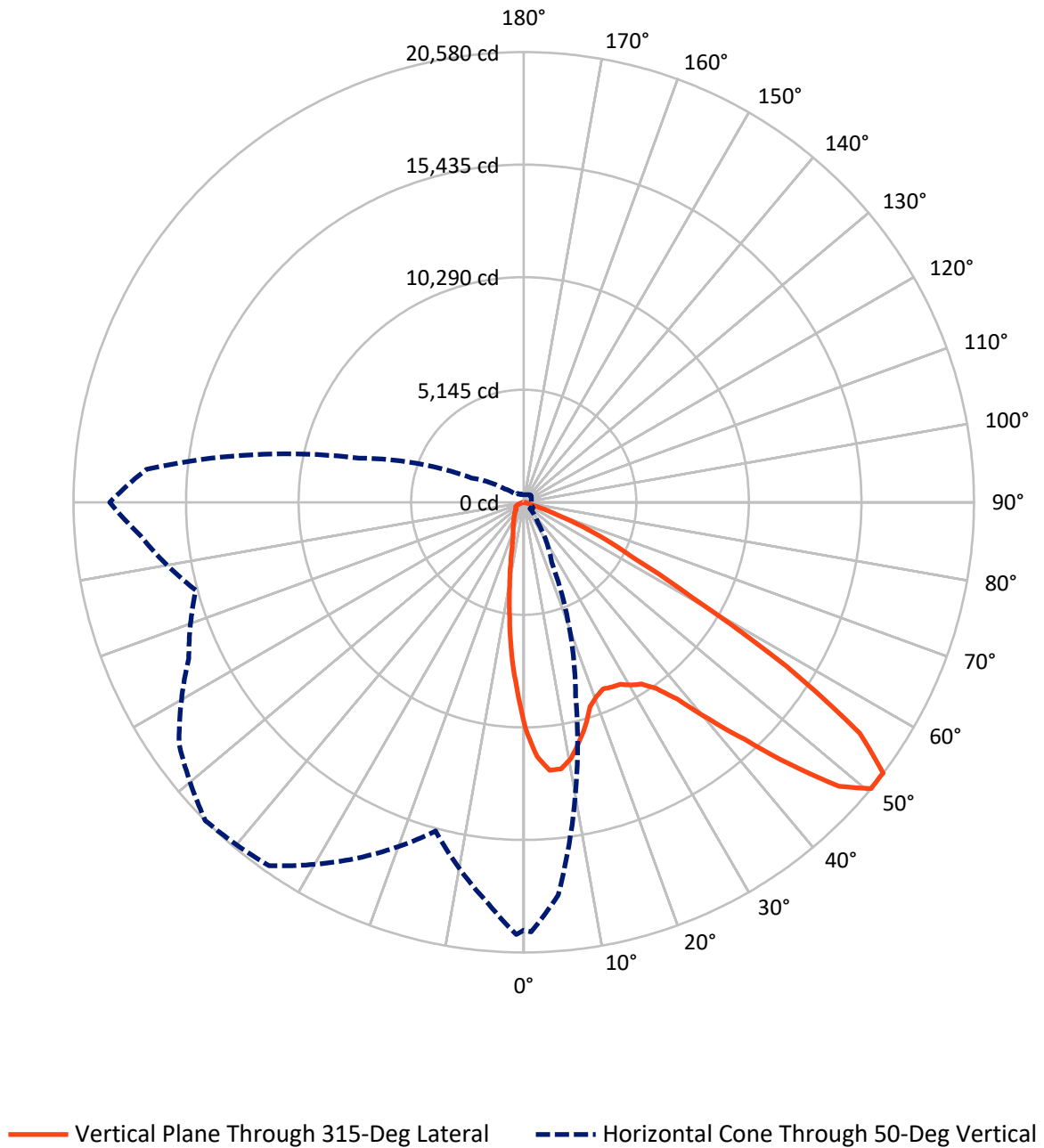
Based on 25 foot mounting height. Maximum calculated value = 16.6 fc

Type III - Short - N/A

REPORT NUMBER: P532683

CATALOG NUMBER: GLAN-SA8A-740-U-SLR-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P532683

CATALOG NUMBER: GLAN-SA8A-740-U-SLR-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4089.1	0.0	4089.1
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	16325.9	0.0	16325.9
	% Fixture	80.0	0.0	80.0
Total	Lumens	20415.0	0.0	20415.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	754.6	3.7
10°-20°	1499.8	7.3
20°-30°	2253.1	11.0
30°-40°	3381.9	16.6
40°-50°	4753.0	23.3
50°-60°	5126.9	25.1
60°-70°	2380.4	11.7
70°-80°	224.0	1.1
80°-90°	41.3	0.2
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°	20415.0	100.0
0°-180°	20415.0	100.0

Coefficient of Utilization



REPORT NUMBER: P532683

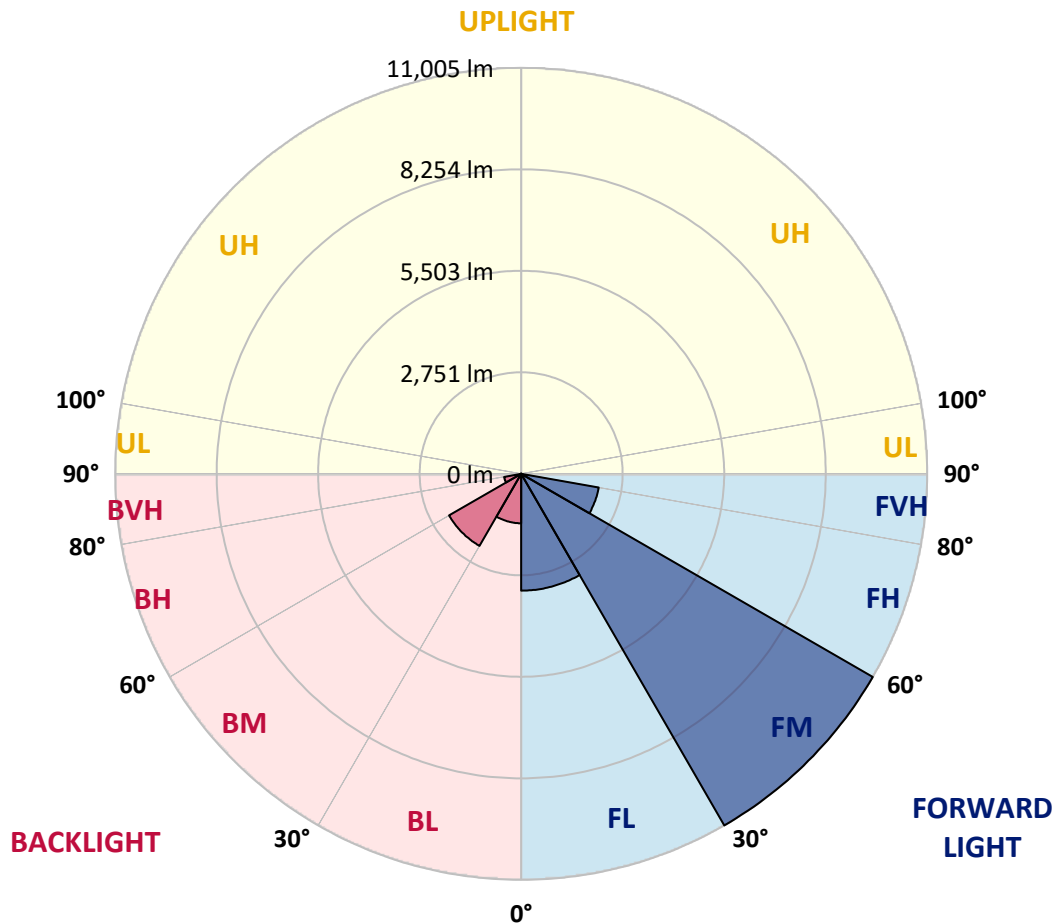
CATALOG NUMBER: GLAN-SA8A-740-U-SLR-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3167.2	15.5			
FM	(30°-60°)	11005.2	53.9			
FH	(60°-80°)	2134.9	10.5			G2/5000
FVH	(80°-90°)	18.6	0.1			G1/100
BL	(0°-30°)	1340.3	6.6	B3/2500		
BM	(30°-60°)	2256.6	11.1	B2/2500		
BH	(60°-80°)	469.5	2.3	B1/500		G1/500
BVH	(80°-90°)	22.7	0.1			G1/100
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



REPORT NUMBER: P532683

CATALOG NUMBER: GLAN-SA8A-740-U-SLR-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10353.0	10353.0	10353.0	10353.0	10353.0	10353.0	10353.0	10353.0	10353.0	10353.0	10353.0
2.5°	10762.1	10596.0	10385.4	10211.2	9952.0	9429.5	9287.7	9117.6	8975.8	8785.4	8518.1
5°	9785.9	9733.3	9636.0	8979.9	8506.0	7874.1	7355.6	7136.9	6849.3	6614.4	6444.3
7.5°	9040.6	8830.0	8522.2	7861.9	7104.5	6428.1	5852.9	5516.7	5136.0	5006.4	4775.5
10°	8242.7	8291.3	7837.6	6910.1	5994.7	5447.9	5091.4	4767.4	4423.1	4196.3	3868.2
12.5°	7987.5	7829.5	7481.2	6334.9	5553.2	5042.8	4609.4	4208.4	3843.9	3479.3	3163.4
15°	8153.6	7910.6	7424.5	6213.4	5212.9	4577.0	4034.3	3491.5	3155.3	2689.5	2361.4
17.5°	8749.0	8554.6	7902.4	6343.0	5038.8	4131.5	3325.4	2766.5	2252.1	1830.8	1664.7
20°	9741.4	9465.9	8647.7	6509.1	4779.5	3592.8	2697.6	2009.0	1523.0	1344.8	1251.6
22.5°	10713.5	10563.6	9530.7	6829.1	4548.7	3114.8	2025.2	1352.9	1138.2	1105.8	1045.0
25°	12564.5	12114.9	10879.5	7408.3	4370.4	2665.2	1527.0	1089.6	964.0	939.7	947.8
27.5°	13666.3	13289.6	12127.1	7793.1	4172.0	2320.9	1292.1	1000.5	915.4	862.7	842.5
30°	14723.4	14286.0	12746.8	8019.9	3746.7	1956.4	1146.3	960.0	939.7	862.7	838.4
32.5°	15537.6	15108.2	13642.0	8360.2	3572.5	1721.4	943.8	749.3	696.7	688.6	761.5
35°	16785.1	16327.4	14407.5	8546.5	3438.8	1599.9	818.2	668.3	607.6	583.3	587.3
37.5°	17947.6	17635.7	15116.3	8619.4	3297.1	1563.5	733.1	599.5	546.8	530.6	526.6
40°	18919.7	18223.0	15788.7	8696.3	3236.3	1494.6	680.5	546.8	510.4	486.1	486.1
42.5°	19365.3	18656.4	16542.1	8651.8	3220.1	1385.3	680.5	502.3	473.9	449.6	445.6
45°	19268.0	18980.5	16878.3	8631.5	3220.1	1275.9	619.7	490.1	449.6	417.2	409.1
47.5°	19519.2	19142.5	17299.5	8716.6	3155.3	1198.9	522.5	514.4	425.3	384.8	376.7
50°	19563.7	19636.6	18032.7	9158.1	3013.5	1101.7	409.1	506.3	409.1	348.3	340.2
52°	19855.4	19401.7	18255.4	9393.0	2863.7	1028.8	344.3	433.4	392.9	324.0	315.9
52.5°	19454.4	19750.0	18308.1	9478.1	2879.9	980.2	332.1	425.3	384.8	324.0	303.8
55°	19004.8	19288.3	18093.4	9660.3	2640.9	769.6	259.2	307.8	348.3	283.5	271.4
57.5°	16517.8	16805.4	15723.9	8846.2	2150.8	542.8	214.7	230.9	307.8	263.3	251.1
60°	14682.9	14476.3	13196.4	7379.9	1527.0	303.8	170.1	178.2	336.2	243.0	239.0
62.5°	13419.2	12977.7	11029.4	5699.0	931.6	202.5	133.7	137.7	259.2	226.8	226.8
65°	9927.7	9433.5	7327.3	3446.9	457.7	141.8	101.3	109.4	162.0	194.4	194.4
67.5°	5666.6	5476.2	3540.1	1555.4	190.4	89.1	77.0	85.1	125.6	158.0	149.9
70°	2604.4	2337.1	1361.0	328.1	89.1	60.8	60.8	68.9	101.3	117.5	109.4
72.5°	761.5	721.0	332.1	52.7	36.5	36.5	40.5	52.7	77.0	89.1	81.0
75°	56.7	36.5	24.3	16.2	16.2	24.3	32.4	52.7	77.0	85.1	68.9
77.5°	4.1	8.1	4.1	4.1	12.2	24.3	36.5	64.8	101.3	105.3	77.0
80°	4.1	4.1	0.0	4.1	12.2	24.3	40.5	72.9	113.4	121.5	64.8
82.5°	0.0	0.0	0.0	4.1	16.2	32.4	48.6	77.0	105.3	129.6	68.9
85°	0.0	0.0	0.0	4.1	24.3	44.6	56.7	20.3	12.2	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: P532683

CATALOG NUMBER: GLAN-SA8A-740-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10353.0	10353.0	10353.0	10353.0	10353.0	10353.0	10353.0	10353.0	10353.0	10353.0	10353.0
2.5°	8708.5	8603.2	8562.7	8599.1	8587.0	8574.8	8797.6	8749.0	8740.9	8813.8	8797.6
5°	6537.4	6351.1	6861.5	6654.9	6869.6	6999.2	7023.5	7035.7	7185.5	7027.5	7234.1
7.5°	4658.0	4706.6	4702.6	4840.3	5087.4	5306.1	5435.7	5334.5	5326.4	5306.1	5217.0
10°	3722.4	3637.3	3621.1	3588.7	3665.7	3852.0	4010.0	3884.4	3795.3	3916.8	3880.3
12.5°	3041.9	2924.4	2859.6	2730.0	2734.1	2859.6	2859.6	2859.6	2948.7	3017.6	3070.2
15°	2333.1	2235.9	2235.9	2106.2	2077.9	2081.9	2146.7	2154.8	2296.6	2337.1	2357.4
17.5°	1632.3	1579.7	1640.4	1693.1	1660.7	1668.8	1693.1	1701.2	1721.4	1705.2	1745.7
20°	1255.6	1247.5	1263.7	1356.9	1425.8	1466.3	1437.9	1397.4	1373.1	1316.4	1316.4
22.5°	1065.3	1081.5	1109.8	1186.8	1275.9	1300.2	1267.8	1174.6	1101.7	1093.6	1097.7
25°	947.8	964.0	1008.6	1057.2	1105.8	1146.3	1113.9	1045.0	1004.5	968.1	968.1
27.5°	874.9	883.0	907.3	943.8	984.3	1016.7	1004.5	968.1	923.5	907.3	870.8
30°	818.2	830.3	858.7	866.8	903.3	919.5	899.2	891.1	862.7	842.5	830.3
32.5°	789.8	785.8	806.0	814.1	818.2	830.3	806.0	818.2	814.1	781.7	769.6
35°	595.4	627.8	680.5	725.0	737.2	753.4	749.3	733.1	688.6	652.1	607.6
37.5°	534.7	554.9	583.3	619.7	668.3	688.6	680.5	640.0	587.3	563.0	554.9
40°	494.2	506.3	530.6	554.9	603.5	640.0	611.6	575.2	534.7	514.4	502.3
42.5°	457.7	461.8	473.9	498.2	534.7	591.4	542.8	494.2	478.0	465.8	457.7
45°	417.2	417.2	433.4	445.6	486.1	538.7	490.1	445.6	437.4	429.3	425.3
47.5°	384.8	388.8	396.9	413.1	445.6	482.0	449.6	413.1	392.9	388.8	380.7
50°	344.3	348.3	364.5	380.7	421.2	441.5	421.2	380.7	360.5	348.3	348.3
52°	311.9	324.0	340.2	372.6	401.0	433.4	409.1	364.5	340.2	328.1	320.0
52.5°	307.8	315.9	332.1	368.6	401.0	429.3	405.0	360.5	332.1	324.0	315.9
55°	275.4	287.6	315.9	360.5	396.9	429.3	396.9	356.4	315.9	295.7	287.6
57.5°	263.3	271.4	307.8	364.5	392.9	429.3	396.9	356.4	315.9	279.5	271.4
60°	251.1	267.3	307.8	352.4	388.8	433.4	401.0	352.4	307.8	263.3	263.3
62.5°	239.0	251.1	303.8	344.3	372.6	417.2	384.8	344.3	295.7	251.1	247.1
65°	206.6	226.8	267.3	287.6	320.0	360.5	328.1	299.7	259.2	222.8	218.7
67.5°	158.0	166.1	198.5	222.8	243.0	279.5	263.3	226.8	198.5	170.1	170.1
70°	109.4	117.5	141.8	153.9	174.2	194.4	182.3	153.9	133.7	117.5	113.4
72.5°	77.0	81.0	89.1	97.2	105.3	113.4	109.4	89.1	77.0	72.9	68.9
75°	60.8	68.9	72.9	68.9	64.8	60.8	60.8	52.7	44.6	40.5	40.5
77.5°	60.8	64.8	60.8	52.7	44.6	40.5	36.5	32.4	24.3	20.3	24.3
80°	52.7	52.7	52.7	44.6	40.5	36.5	32.4	28.4	24.3	20.3	20.3
82.5°	56.7	56.7	52.7	44.6	44.6	36.5	36.5	32.4	28.4	20.3	20.3
85°	0.0	0.0	0.0	8.1	20.3	36.5	36.5	32.4	28.4	24.3	24.3
87.5°	0.0	0.0	0.0	0.0	4.1	8.1	16.2	20.3	24.3	24.3	24.3
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: P532683

CATALOG NUMBER: GLAN-SA8A-740-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	10353.0	10353.0	10353.0	10353.0	10353.0	10353.0	10353.0	10353.0	10353.0	10353.0	10353.0
2.5°	8943.4	9097.3	9389.0	9680.6	9858.8	10069.4	10450.2	10652.7	10916.0	11045.6	11300.8
5°	7205.8	7570.3	7699.9	8032.1	8388.5	8744.9	9312.0	9935.8	10454.2	10810.7	11272.4
7.5°	5257.5	5342.6	5844.8	6067.6	6650.9	7298.9	8072.6	8858.4	9514.5	10097.8	10450.2
10°	3941.1	4253.0	4568.9	4994.2	5464.1	6132.4	6873.6	7740.4	8591.0	9174.3	9619.8
12.5°	3167.5	3414.5	3835.8	4293.5	4872.7	5314.2	6059.5	6918.2	8019.9	8591.0	9178.3
15°	2397.9	2713.8	3191.8	3665.7	4277.3	4743.1	5496.5	6577.9	7995.6	8781.4	9287.7
17.5°	1778.2	1992.8	2422.2	2952.8	3576.6	4232.7	5249.4	6541.5	8267.0	9202.6	9725.2
20°	1361.0	1433.9	1705.2	2179.1	2855.6	3714.3	4848.4	6699.5	9069.0	10227.4	10758.0
22.5°	1101.7	1134.1	1239.4	1567.5	2223.7	3260.6	4658.0	6808.8	9972.2	11454.7	12163.5
25°	960.0	951.9	1020.7	1162.5	1737.6	2835.3	4415.0	7222.0	11078.0	12896.7	13532.6
27.5°	874.9	874.9	907.3	1008.6	1442.0	2559.9	4261.1	7517.7	12191.9	14164.5	14508.8
30°	830.3	838.4	931.6	964.0	1198.9	2231.8	4005.9	7817.4	13257.2	14974.6	15448.5
32.5°	769.6	737.2	716.9	797.9	1008.6	1936.1	3750.7	7943.0	14119.9	15966.9	16372.0
35°	591.4	575.2	599.5	660.2	866.8	1685.0	3467.2	8084.7	15112.3	17117.2	17198.3
37.5°	534.7	530.6	546.8	599.5	729.1	1466.3	3264.7	8048.3	15869.7	18069.1	17850.4
40°	494.2	494.2	506.3	550.9	652.1	1312.3	3054.0	8015.9	16602.8	19138.4	18498.5
42.5°	461.8	461.8	482.0	510.4	619.7	1211.1	2896.1	7971.3	17218.5	19794.6	18879.2
45°	417.2	429.3	461.8	490.1	627.8	1142.2	2778.6	7801.2	17429.1	19786.5	18696.9
47.5°	384.8	401.0	433.4	473.9	567.1	1122.0	2697.6	7651.3	17356.2	19300.4	18125.8
50°	348.3	368.6	413.1	482.0	482.0	1081.5	2612.5	7785.0	17303.6	18923.8	17579.0
52°	324.0	340.2	396.9	469.9	421.2	996.4	2559.9	8044.2	17518.2	18875.1	17336.0
52.5°	320.0	332.1	384.8	461.8	401.0	980.2	2523.4	8105.0	17587.1	18753.6	17502.0
55°	283.5	299.7	352.4	360.5	328.1	806.0	2406.0	8242.7	17246.9	18514.7	17344.1
57.5°	267.3	275.4	311.9	295.7	283.5	607.6	2069.8	8028.0	15318.8	16444.9	16137.0
60°	247.1	255.2	291.6	230.9	239.0	425.3	1555.4	6970.8	12301.3	13702.7	14257.6
62.5°	239.0	234.9	275.4	186.3	202.5	307.8	1097.7	5666.6	9478.1	11280.5	12240.5
65°	210.6	206.6	198.5	158.0	174.2	239.0	656.2	3698.1	6679.2	8534.3	9060.9
67.5°	162.0	170.1	145.8	125.6	145.8	186.3	364.5	1656.6	3503.6	5119.8	5545.1
70°	113.4	121.5	117.5	109.4	129.6	153.9	210.6	567.1	1450.1	2689.5	2964.9
72.5°	68.9	85.1	89.1	93.2	113.4	133.7	149.9	182.3	384.8	951.9	1182.7
75°	40.5	56.7	68.9	81.0	93.2	113.4	125.6	129.6	133.7	178.2	287.6
77.5°	28.4	40.5	60.8	77.0	93.2	113.4	133.7	141.8	133.7	125.6	133.7
80°	24.3	40.5	56.7	72.9	97.2	117.5	133.7	133.7	129.6	113.4	121.5
82.5°	24.3	40.5	60.8	77.0	93.2	113.4	129.6	133.7	121.5	113.4	117.5
85°	28.4	44.6	64.8	81.0	101.3	93.2	85.1	68.9	64.8	52.7	56.7
87.5°	28.4	40.5	40.5	44.6	48.6	48.6	48.6	44.6	36.5	32.4	32.4
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: P532683

CATALOG NUMBER: GLAN-SA8A-740-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10353.0	10353.0	10353.0	10353.0	10353.0	10353.0	10353.0	10353.0	10353.0	10353.0
2.5°	11312.9	11637.0	11624.8	11632.9	11584.3	11256.2	11098.3	10697.3	10810.7	10762.1
5°	11746.3	12066.3	12341.8	12309.4	11936.7	11491.2	10830.9	10207.2	10037.0	9785.9
7.5°	11312.9	12082.5	12337.7	12301.3	11750.4	11179.3	10126.2	9502.4	9206.7	9040.6
10°	10624.4	11515.5	11831.4	11896.2	11523.6	10656.8	9688.7	8688.2	8530.3	8242.7
12.5°	10231.5	10879.5	11074.0	11248.1	11118.5	10470.4	9356.6	8396.6	8177.9	7987.5
15°	9911.5	10296.3	10377.3	10575.8	10652.7	10304.4	9530.7	8712.5	8173.8	8153.6
17.5°	10207.2	10049.2	9753.5	9814.3	10057.3	10308.4	9980.3	9336.3	8813.8	8749.0
20°	10697.3	10000.6	9332.3	9482.1	9684.7	10454.2	10660.8	10207.2	9907.4	9741.4
22.5°	11260.3	10085.6	9198.6	9271.5	9656.3	10782.3	11762.5	11511.4	10952.4	10713.5
25°	12301.3	10320.6	9303.9	9352.5	9879.1	11240.0	12759.0	12945.3	12613.1	12564.5
27.5°	13317.9	10928.1	9534.8	9425.4	9992.5	11685.6	13362.5	14362.9	13779.7	13666.3
30°	13836.4	11422.3	9879.1	9692.8	10462.3	11957.0	13727.0	15286.4	14776.1	14723.4
32.5°	14630.3	11871.9	10146.4	9907.4	10725.6	12293.1	14407.5	16295.0	15800.8	15537.6
35°	14962.4	12362.0	10733.7	10454.2	11479.0	12763.0	14755.8	17194.2	17040.3	16785.1
37.5°	15602.4	12888.6	11426.4	11410.1	12390.4	13374.6	15383.7	18417.4	18389.1	17947.6
40°	15655.0	13463.7	12520.0	13030.3	13799.9	14439.9	15934.5	18757.7	19219.4	18919.7
42.5°	15736.0	14472.3	14411.5	14832.8	15493.0	15355.3	15954.8	18838.7	19543.5	19365.3
45°	15772.5	15480.9	16335.5	17113.2	17388.6	16554.2	15764.4	18684.8	19713.6	19268.0
47.5°	15480.9	16347.7	17890.9	19393.6	19474.6	17291.4	15683.4	18526.8	19814.9	19519.2
50°	15521.4	16890.4	19235.6	20580.4	20284.7	17943.5	15557.8	18429.6	19762.2	19563.7
52°	15424.2	16902.6	19426.0	20556.1	20349.5	17583.1	15343.1	18057.0	19713.6	19855.4
52.5°	15533.5	16829.7	19227.5	20572.3	20305.0	17761.3	15314.8	18263.5	19741.9	19454.4
55°	15156.8	15962.9	18065.1	18636.2	18595.7	16120.8	14443.9	17579.0	19000.7	19004.8
57.5°	13698.7	13836.4	14168.5	14156.4	13970.0	12673.9	12353.9	16165.4	16939.0	16517.8
60°	12070.4	10130.2	9235.1	8870.5	8663.9	8453.3	10928.1	14788.2	14861.1	14682.9
62.5°	10429.9	7023.5	5832.7	5731.4	5780.0	6549.6	10563.6	14241.4	13804.0	13419.2
65°	8416.9	5119.8	4236.8	4103.1	4577.0	5407.4	8550.5	10920.0	10247.7	9927.7
67.5°	5285.9	3734.5	2863.7	2612.5	3183.7	3722.4	5618.0	6861.5	6108.1	5666.6
70°	3135.1	2086.0	1296.1	1162.5	1308.3	1984.7	3147.2	3422.6	2831.3	2604.4
72.5°	1235.4	765.5	360.5	307.8	320.0	696.7	1158.4	1130.1	854.6	761.5
75°	332.1	230.9	125.6	101.3	85.1	129.6	186.3	121.5	44.6	56.7
77.5°	153.9	137.7	109.4	85.1	64.8	48.6	24.3	8.1	8.1	4.1
80°	133.7	117.5	101.3	85.1	64.8	40.5	20.3	4.1	4.1	4.1
82.5°	125.6	109.4	93.2	77.0	60.8	40.5	20.3	4.1	0.0	0.0
85°	52.7	68.9	77.0	72.9	64.8	40.5	20.3	4.1	0.0	0.0
87.5°	28.4	24.3	20.3	16.2	12.2	8.1	8.1	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

(END OF REPORT)