

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: P533568

Luminaire Tested: **GLAN-SA9A-730-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533568
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9A-730-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28119 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 274
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



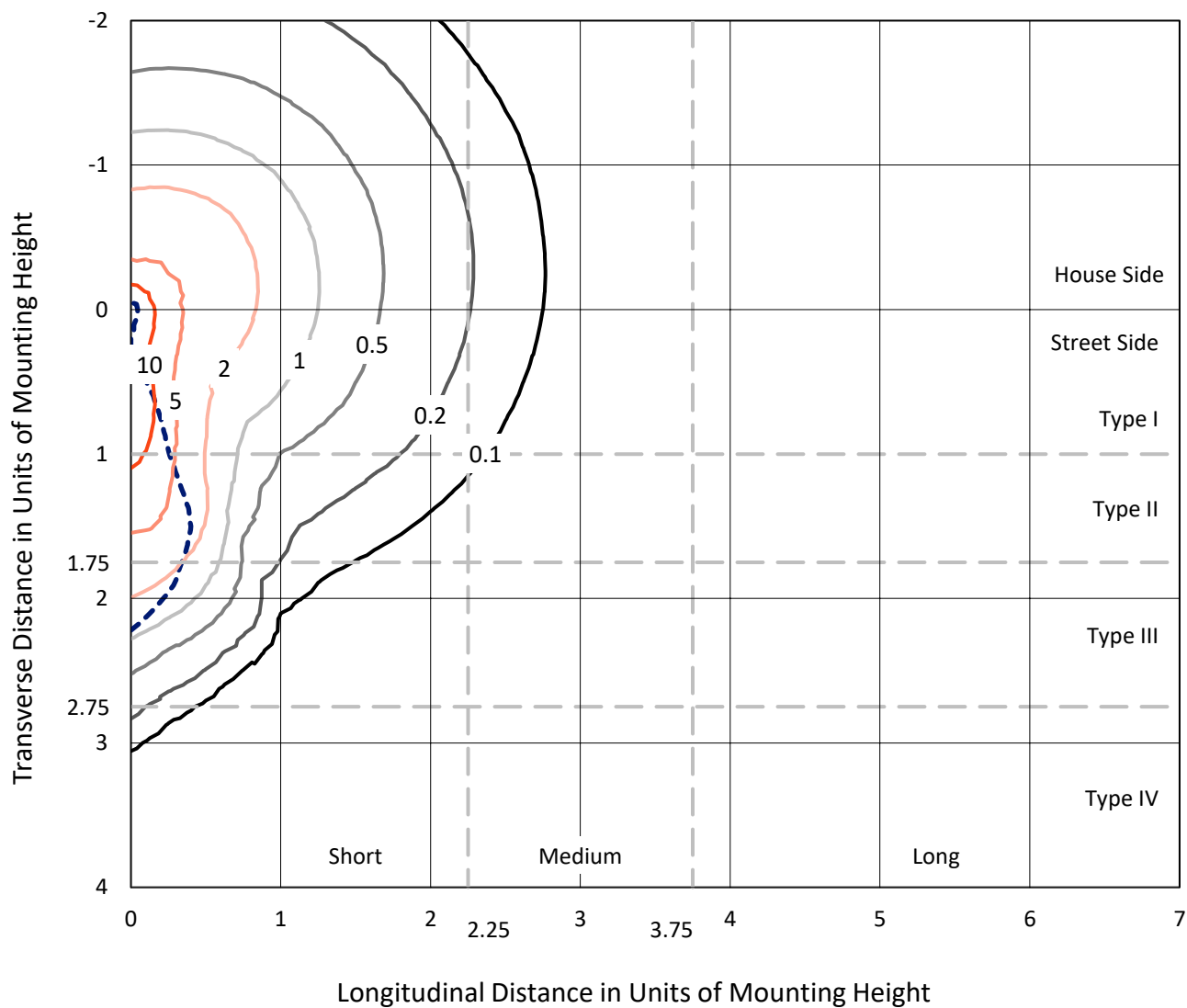
REPORT NUMBER: P533568

CATALOG NUMBER: GLAN-SA9A-730-U-SLR-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

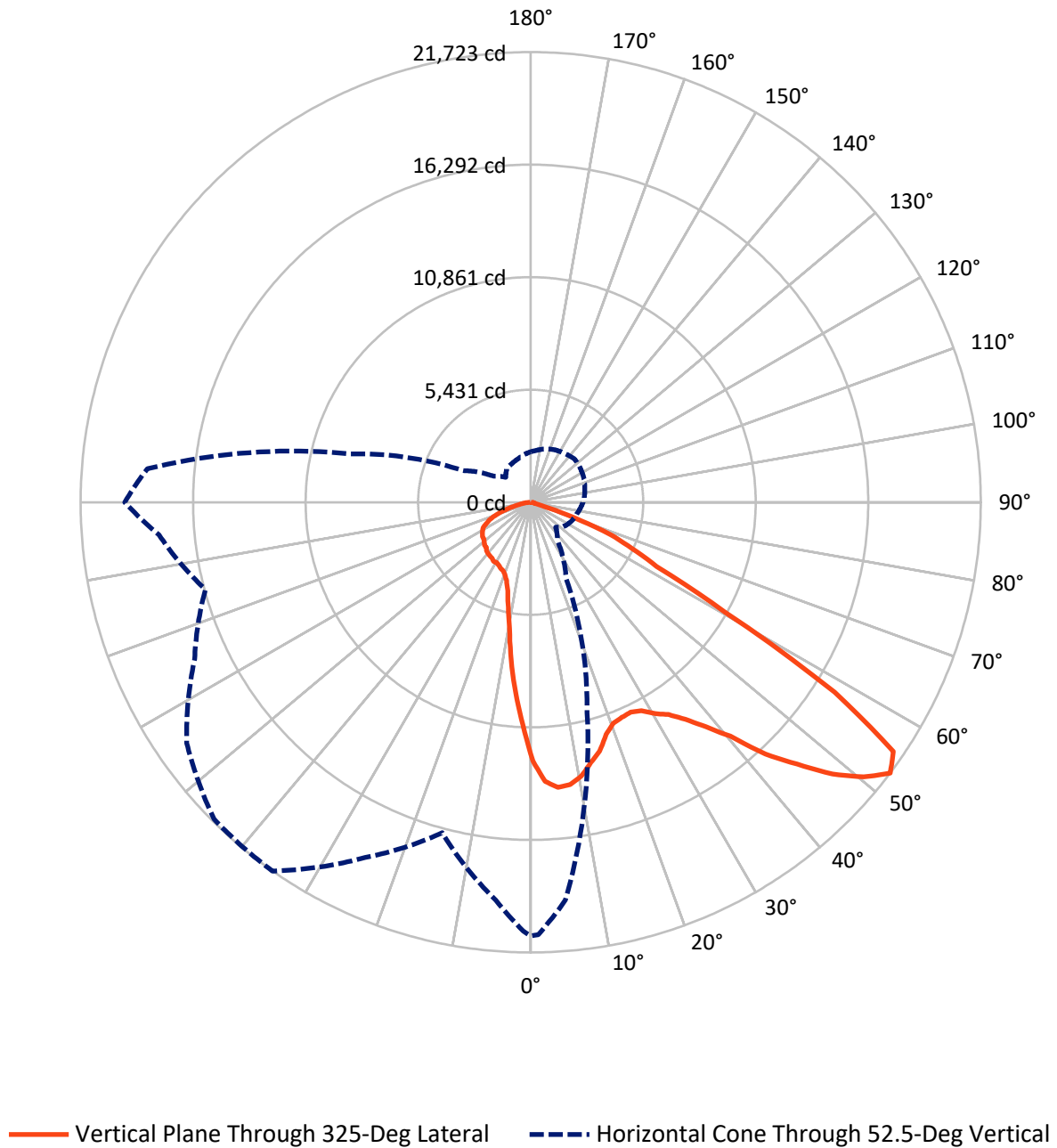


Based on 25 foot mounting height. Maximum calculated value = 20 fc

Type III - Short - N/A

REPORT NUMBER: P533568
CATALOG NUMBER: GLAN-SA9A-730-U-SLR-GRSWH

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8476.7	0.0	8476.7
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	19642.3	0.0	19642.3
	% Fixture	69.9	0.0	69.9
Total	Lumens	28119.0	0.0	28119.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	952.1	3.4
10°-20°	2063.9	7.3
20°-30°	3118.4	11.1
30°-40°	4506.3	16.0
40°-50°	5997.1	21.3
50°-60°	6707.9	23.9
60°-70°	3780.5	13.4
70°-80°	842.7	3.0
80°-90°	150.1	0.5
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°	28119.0	100.0
0°-180°	28119.0	100.0

Coefficient of Utilization



REPORT NUMBER: P533568

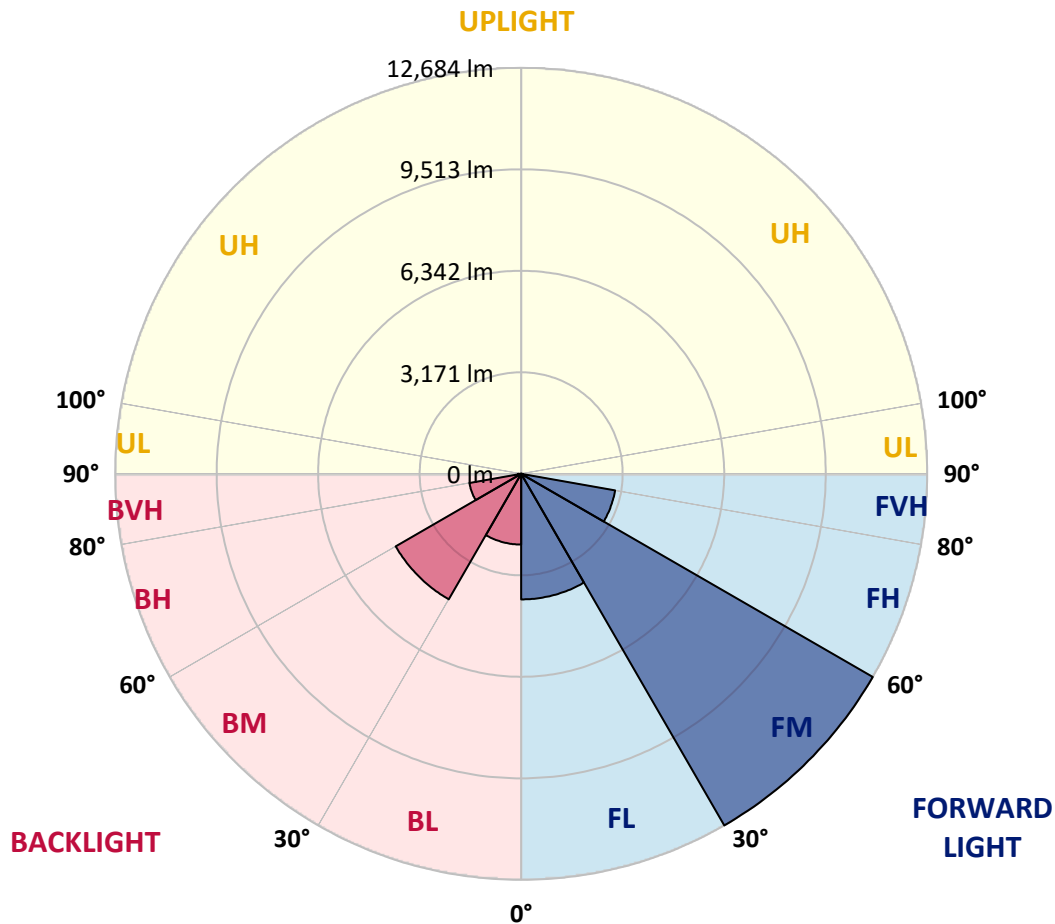
CATALOG NUMBER: GLAN-SA9A-730-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3923.9	14.0			
FM	(30°-60°)	12683.8	45.1			
FH	(60°-80°)	2980.2	10.6			G2/5000
FVH	(80°-90°)	54.3	0.2			G1/100
BL	(0°-30°)	2210.5	7.9	B3/2500		
BM	(30°-60°)	4527.4	16.1	B3/5000		
BH	(60°-80°)	1643.0	5.8	B3/2500		G3/2500
BVH	(80°-90°)	95.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



REPORT NUMBER: P533568

CATALOG NUMBER: GLAN-SA9A-730-U-SLR-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12479.4	12479.4	12479.4	12479.4	12479.4	12479.4	12479.4	12479.4	12479.4	12479.4	12479.4
2.5°	12687.2	12891.0	12670.9	12279.7	12002.5	11749.9	11484.9	11432.0	11085.5	11024.4	10771.7
5°	11965.9	11921.0	11652.0	11138.5	10572.0	10058.5	9679.5	9312.7	9064.1	8774.7	8754.3
7.5°	11089.6	10828.8	10673.9	9895.5	9194.5	8387.5	8041.1	7482.7	7307.5	7046.7	6912.2
10°	10307.1	10115.6	9752.8	8974.4	7996.3	7462.4	7091.5	6789.9	6586.1	6317.1	5978.9
12.5°	9919.9	9842.5	9434.9	8228.6	7503.1	6932.5	6671.7	6378.3	6031.8	5599.8	5432.7
15°	9989.2	9728.4	9418.6	8085.9	7083.3	6533.1	6117.4	5750.6	5306.4	4894.8	4654.3
17.5°	10506.8	10307.1	9687.6	8175.6	6924.4	6129.7	5375.7	4833.6	4434.2	4063.3	3896.2
20°	11525.7	11236.3	10539.4	8289.7	6582.0	5567.2	4703.2	4034.8	3606.9	3411.2	3354.2
22.5°	12654.6	12483.5	11370.8	8546.5	6309.0	5045.6	3990.0	3321.6	3162.6	3109.7	3215.6
25°	14028.1	13583.9	12662.8	8966.2	6097.0	4601.3	3386.8	3015.9	2934.4	2987.4	3109.7
27.5°	15071.4	14953.3	13567.6	9361.6	5807.7	4067.4	3048.5	2804.0	2828.4	2881.4	2995.5
30°	16310.4	15711.3	14443.8	9634.6	5546.8	3700.6	2812.1	2746.9	2771.4	2861.0	2918.1
32.5°	17056.2	16832.1	14994.0	10046.3	5245.3	3382.7	2628.7	2567.6	2604.3	2738.8	2873.3
35°	18005.9	17561.6	15674.6	10152.2	5033.3	3256.4	2498.3	2453.5	2539.1	2632.8	2783.6
37.5°	19114.4	18808.7	16616.1	10078.9	4919.2	3126.0	2388.3	2367.9	2429.0	2559.5	2734.7
40°	19770.6	19676.8	17109.2	10123.7	4739.9	3011.8	2261.9	2286.4	2412.7	2514.6	2685.8
42.5°	20402.3	19791.0	17838.8	10107.4	4625.8	2857.0	2274.2	2245.6	2343.5	2461.6	2624.7
45°	20540.9	19933.6	18009.9	9993.3	4487.2	2706.2	2180.4	2192.7	2310.8	2457.6	2563.5
47.5°	20451.2	20002.9	18327.8	9960.7	4356.8	2600.2	2041.9	2188.6	2257.9	2376.1	2526.9
50°	20390.1	20365.6	18596.8	10115.6	4181.5	2433.1	1874.8	2135.6	2204.9	2323.1	2486.1
52.5°	20928.0	20875.1	19269.3	10523.1	4043.0	2253.8	1703.6	2001.1	2168.2	2282.3	2441.3
55°	21254.1	21021.8	20422.7	11024.4	3810.7	2017.4	1585.4	1834.0	2078.5	2180.4	2343.5
57.5°	19118.5	18959.5	18474.5	10290.8	3419.4	1707.7	1438.7	1662.8	1956.3	2115.2	2282.3
60°	15906.9	15658.3	14415.3	8746.2	2522.8	1328.6	1349.0	1528.3	1923.7	1984.8	2180.4
62.5°	14998.1	14382.7	12691.3	7038.5	1935.9	1141.2	1210.4	1406.1	1752.5	1854.4	2050.0
65°	11900.7	11444.2	9080.4	5082.2	1296.0	990.4	1104.5	1267.5	1512.0	1711.7	1891.1
67.5°	7450.1	7014.1	4845.8	2404.6	904.8	847.7	986.3	1157.5	1357.2	1536.5	1736.2
70°	3892.2	3415.3	2237.5	868.1	623.6	692.8	823.3	986.3	1181.9	1328.6	1483.5
72.5°	1450.9	1177.8	729.5	375.0	432.0	529.8	668.4	786.6	925.2	1104.5	1190.1
75°	224.2	191.6	187.5	228.2	293.4	383.1	476.8	595.0	717.3	831.4	888.5
77.5°	106.0	101.9	114.1	150.8	195.6	273.1	346.4	460.5	558.4	631.7	664.3
80°	69.3	65.2	73.4	101.9	146.7	203.8	277.1	354.6	444.2	505.4	497.2
82.5°	40.8	44.8	44.8	69.3	101.9	146.7	199.7	269.0	330.1	383.1	350.5
85°	24.5	20.4	20.4	40.8	69.3	118.2	167.1	114.1	118.2	118.2	134.5
87.5°	8.2	8.2	8.2	4.1	8.2	8.2	12.2	20.4	24.5	28.5	36.7
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: P533568

CATALOG NUMBER: GLAN-SA9A-730-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12479.4	12479.4	12479.4	12479.4	12479.4	12479.4	12479.4	12479.4	12479.4	12479.4	12479.4
2.5°	10763.6	10889.9	10845.1	10686.1	10808.4	10828.8	10747.3	11028.5	11081.5	10995.9	11020.3
5°	8725.8	8758.4	8831.8	8986.6	9096.7	9227.1	9227.1	9235.2	9125.2	9402.3	9320.8
7.5°	6798.0	6818.4	6904.0	7234.1	7327.9	7576.5	7682.4	7609.1	7389.0	7295.3	7372.7
10°	5868.8	5750.6	5722.1	5762.9	5974.8	6080.7	6170.4	6146.0	6109.3	6035.9	5954.4
12.5°	5249.3	5163.7	5094.5	4996.6	5008.9	5110.8	5180.0	5123.0	5139.3	5155.6	5180.0
15°	4576.9	4515.7	4479.0	4332.3	4316.0	4385.3	4409.8	4442.4	4503.5	4507.6	4479.0
17.5°	3863.6	3810.7	3892.2	3973.7	3916.6	3920.7	3965.5	3994.1	3977.8	3904.4	3867.7
20°	3374.6	3431.6	3513.1	3590.6	3651.7	3688.4	3704.7	3659.9	3606.9	3456.1	3452.0
22.5°	3231.9	3305.3	3374.6	3492.8	3549.8	3643.6	3558.0	3456.1	3382.7	3309.4	3223.8
25°	3126.0	3187.1	3325.7	3370.5	3480.5	3558.0	3496.8	3394.9	3268.6	3162.6	3097.4
27.5°	3048.5	3117.8	3207.5	3329.7	3415.3	3460.2	3399.0	3358.3	3227.8	3101.5	3007.8
30°	2999.6	3073.0	3236.0	3337.9	3411.2	3447.9	3342.0	3293.1	3199.3	3093.4	3011.8
32.5°	2967.0	3032.2	3170.8	3301.2	3350.1	3350.1	3366.4	3309.4	3178.9	2999.6	2930.3
35°	2861.0	2950.7	3064.8	3215.6	3305.3	3358.3	3276.8	3211.5	3126.0	2942.6	2816.2
37.5°	2799.9	2861.0	3007.8	3150.4	3227.8	3284.9	3252.3	3138.2	3024.1	2873.3	2771.4
40°	2734.7	2832.5	2962.9	3097.4	3183.0	3240.1	3215.6	3081.1	2942.6	2799.9	2730.6
42.5°	2689.9	2755.1	2889.6	3040.4	3142.3	3252.3	3178.9	3011.8	2914.0	2718.4	2641.0
45°	2653.2	2759.2	2901.8	2962.9	3068.9	3183.0	3052.6	2950.7	2836.6	2693.9	2628.7
47.5°	2608.4	2706.2	2799.9	2962.9	3011.8	3064.8	3040.4	2877.4	2779.5	2624.7	2579.8
50°	2592.1	2628.7	2799.9	2889.6	2958.9	3011.8	2946.6	2824.4	2730.6	2571.7	2473.9
52.5°	2526.9	2596.1	2706.2	2824.4	2910.0	2975.2	2869.2	2791.8	2665.4	2498.3	2437.2
55°	2445.3	2486.1	2681.7	2804.0	2848.8	2893.7	2852.9	2726.6	2596.1	2425.0	2363.8
57.5°	2339.4	2433.1	2592.1	2763.2	2820.3	2844.7	2779.5	2677.6	2514.6	2363.8	2266.0
60°	2229.3	2327.1	2502.4	2641.0	2698.0	2787.7	2689.9	2628.7	2441.3	2274.2	2168.2
62.5°	2119.3	2229.3	2359.8	2535.0	2583.9	2620.6	2596.1	2510.5	2359.8	2172.3	2041.9
65°	1988.9	2070.4	2233.4	2323.1	2355.7	2441.3	2355.7	2323.1	2188.6	2009.3	1899.2
67.5°	1793.2	1862.5	2005.2	2090.8	2115.2	2151.9	2147.8	2111.1	1960.3	1838.1	1740.3
70°	1569.1	1630.2	1719.9	1821.8	1834.0	1878.8	1838.1	1829.9	1732.1	1565.0	1512.0
72.5°	1259.4	1316.4	1434.6	1479.4	1483.5	1499.8	1479.4	1450.9	1426.4	1251.2	1198.2
75°	965.9	998.5	1055.6	1096.3	1096.3	1116.7	1104.5	1075.9	1010.7	900.7	847.7
77.5°	672.5	705.1	778.4	802.9	798.8	807.0	770.3	741.8	643.9	586.9	542.1
80°	489.1	509.4	546.1	562.4	566.5	578.7	533.9	509.4	452.4	387.2	366.8
82.5°	354.6	366.8	370.9	391.3	391.3	370.9	358.6	334.2	293.4	252.7	236.4
85°	146.7	150.8	154.9	179.3	183.4	220.1	203.8	191.6	167.1	142.6	130.4
87.5°	36.7	40.8	53.0	44.8	53.0	53.0	57.1	65.2	65.2	53.0	53.0
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: P533568

CATALOG NUMBER: GLAN-SA9A-730-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	12479.4	12479.4	12479.4	12479.4	12479.4	12479.4	12479.4	12479.4	12479.4	12479.4	12479.4
2.5°	11114.1	11146.7	11562.4	11615.4	11819.1	12027.0	12446.8	12748.4	12992.9	13151.9	13196.7
5°	9406.4	9614.3	9805.8	10115.6	10396.8	10796.2	11256.7	11827.3	12544.6	12911.4	13058.1
7.5°	7364.5	7609.1	7886.2	8187.8	8599.4	9316.7	9932.2	10592.4	11509.4	11888.4	12463.1
10°	6011.5	6284.5	6651.3	6883.6	7380.9	8065.5	8782.8	9545.0	10421.2	10967.3	11631.7
12.5°	5314.5	5538.7	5877.0	6366.0	6736.9	7181.1	7715.0	8676.9	9932.2	10449.8	10906.2
15°	4544.3	4792.9	5184.1	5726.2	6170.4	6700.2	7299.3	8346.8	9683.5	10482.4	10869.5
17.5°	3908.5	4087.8	4499.4	4968.1	5477.6	6056.3	6916.2	8330.5	9944.4	10967.3	11599.1
20°	3468.3	3492.8	3716.9	4116.3	4809.2	5563.1	6679.9	8248.9	10779.9	11802.8	12601.7
22.5°	3191.2	3166.7	3170.8	3509.1	3994.1	5078.2	6309.0	8526.1	11729.5	13131.5	13669.5
25°	3052.6	2987.4	2946.6	3020.0	3460.2	4503.5	6027.8	8892.9	12752.4	14227.8	14888.0
27.5°	2979.2	2865.1	2783.6	2795.8	3117.8	4214.1	5852.5	9051.8	13767.3	15756.1	15988.4
30°	2950.7	2808.1	2689.9	2649.1	2861.0	3810.7	5477.6	9324.9	14676.1	16595.7	16795.4
32.5°	2848.8	2673.6	2559.5	2522.8	2608.4	3456.1	5208.6	9520.5	15479.0	17508.6	17439.3
35°	2730.6	2583.9	2441.3	2372.0	2433.1	3227.8	4992.6	9426.8	16424.5	18217.8	18181.1
37.5°	2718.4	2526.9	2408.7	2294.5	2290.5	2946.6	4699.1	9516.4	17027.7	19489.4	18988.1
40°	2612.4	2490.2	2335.3	2241.6	2188.6	2804.0	4413.8	9304.5	17912.1	20002.9	19509.7
42.5°	2616.5	2433.1	2298.6	2188.6	2135.6	2596.1	4218.2	9247.5	18221.9	20838.4	19754.3
45°	2551.3	2372.0	2257.9	2127.4	2098.9	2437.2	4030.7	8982.5	18768.0	20879.1	19448.6
47.5°	2486.1	2327.1	2204.9	2050.0	1984.8	2380.1	3884.0	8762.5	18482.7	20496.0	19024.7
50°	2441.3	2257.9	2143.7	2033.7	1850.3	2282.3	3692.5	8709.5	18083.3	19978.4	18238.2
52.5°	2363.8	2200.8	2082.6	1997.0	1703.6	2192.7	3619.1	9019.2	18572.4	19591.2	18009.9
55°	2290.5	2123.4	1972.6	1805.5	1581.3	1956.3	3415.3	9308.6	19285.6	20483.8	19045.1
57.5°	2213.0	2054.1	1891.1	1691.4	1463.1	1711.7	3203.4	9361.6	17948.8	18931.0	18079.2
60°	2111.1	1907.4	1785.1	1524.3	1336.8	1418.3	2539.1	8253.0	13922.1	15809.1	15837.7
62.5°	1997.0	1776.9	1671.0	1365.3	1206.4	1222.7	2070.4	6936.6	11293.4	13086.6	13865.1
65°	1846.2	1634.3	1508.0	1263.4	1112.6	1059.6	1516.1	5082.2	8579.1	10616.9	11501.2
67.5°	1650.6	1450.9	1292.0	1100.4	994.4	908.9	1035.2	2861.0	5065.9	7128.2	7397.2
70°	1442.8	1271.6	1104.5	945.5	827.3	766.2	758.1	1267.5	2420.9	3835.1	4364.9
72.5°	1137.1	1014.8	880.3	762.1	684.7	595.0	542.1	525.7	819.2	1560.9	2156.0
75°	815.1	713.2	635.8	558.4	501.3	452.4	411.6	375.0	342.3	391.3	538.0
77.5°	513.5	476.8	415.7	395.3	362.7	350.5	334.2	313.8	289.4	273.1	273.1
80°	346.4	322.0	301.6	297.5	285.3	281.2	285.3	264.9	240.5	220.1	228.2
82.5°	232.3	228.2	224.2	220.1	224.2	228.2	236.4	232.3	211.9	199.7	203.8
85°	138.6	146.7	154.9	163.0	179.3	158.9	130.4	110.0	97.8	89.7	85.6
87.5°	53.0	73.4	65.2	61.1	65.2	61.1	57.1	53.0	44.8	40.8	40.8
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: P533568

CATALOG NUMBER: GLAN-SA9A-730-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12479.4	12479.4	12479.4	12479.4	12479.4	12479.4	12479.4	12479.4	12479.4	12479.4
2.5°	13494.2	13575.7	13645.0	13628.7	13486.0	13294.5	13217.1	12821.7	12740.2	12687.2
5°	13677.6	14150.4	14252.3	14191.1	13820.2	13351.6	12895.1	12316.4	11978.1	11965.9
7.5°	13339.3	13922.1	14105.5	14244.1	13751.0	12935.8	12153.3	11285.2	11073.3	11089.6
10°	12479.4	13408.6	13861.0	14003.6	13437.1	12732.1	11648.0	10767.6	10315.3	10307.1
12.5°	12002.5	12732.1	12858.4	13058.1	12891.0	12177.8	11354.5	10368.2	9928.1	9919.9
15°	11578.7	12059.6	12096.3	12377.5	12467.2	11986.2	11432.0	10380.5	10025.9	9989.2
17.5°	11949.6	11615.4	11476.8	11513.5	11778.4	11953.6	11880.3	11073.3	10710.6	10506.8
20°	12198.2	11452.3	11032.6	11073.3	11387.1	12027.0	12548.7	12075.9	11501.2	11525.7
22.5°	12862.5	11476.8	10820.6	10775.8	11273.0	12410.1	13302.6	13343.4	12789.1	12654.6
25°	13856.9	11758.0	10755.4	10743.2	11220.0	12821.7	14183.0	14843.2	14276.7	14028.1
27.5°	14655.7	12198.2	10959.2	11000.0	11387.1	13155.9	14932.9	15809.1	15377.1	15071.4
30°	15356.7	12654.6	11244.5	11057.0	11835.4	13331.2	15254.8	16909.5	16563.1	16310.4
32.5°	15646.1	13302.6	11696.9	11387.1	12206.3	13543.1	15923.2	17977.3	17679.8	17056.2
35°	16135.2	13665.4	11941.4	11917.0	12854.3	14052.6	16237.1	18682.4	18560.1	18005.9
37.5°	16526.4	14032.2	12809.5	12540.5	13742.8	14908.4	16742.4	19656.5	19375.2	19114.4
40°	16828.0	14688.3	13620.5	13975.1	14835.1	15686.9	17207.0	19717.6	20528.6	19770.6
42.5°	16550.9	15275.2	14953.3	15801.0	16616.1	16575.3	17260.0	20190.4	20797.6	20402.3
45°	16481.6	16269.7	17060.3	17830.6	18018.1	17313.0	16881.0	19668.7	20716.1	20540.9
47.5°	16314.5	17247.8	18625.3	19880.6	19595.3	17806.2	16428.6	19574.9	20765.0	20451.2
50°	16257.4	17459.7	19782.8	21005.5	20834.3	18234.1	16216.7	18971.8	20418.6	20390.1
52.5°	16253.4	17895.8	20263.7	21616.8	21722.8	18910.6	16506.0	19277.4	20687.6	20928.0
55°	16436.8	17757.2	20202.6	21278.5	21237.8	18609.0	16538.6	19481.2	21017.7	21254.1
57.5°	15503.5	15906.9	16673.1	17524.9	17304.9	15413.8	14769.9	18009.9	19289.7	19118.5
60°	13388.2	12124.8	11260.8	11220.0	10792.1	10201.1	12088.1	16074.0	16074.0	15906.9
62.5°	11725.4	7959.6	6838.8	6520.9	6826.6	7507.2	11660.2	15633.9	15189.6	14998.1
65°	10254.1	6076.7	4943.7	4854.0	5383.8	6410.9	10543.5	13319.0	12536.4	11900.7
67.5°	6598.3	4450.5	3676.2	3517.2	4157.1	4707.3	7018.1	8191.9	7698.7	7450.1
70°	4254.9	2897.7	2045.9	1919.6	2168.2	2901.8	4483.1	4776.6	4059.3	3892.2
72.5°	2013.3	1251.2	717.3	591.0	664.3	1108.6	1772.9	1907.4	1585.4	1450.9
75°	639.9	460.5	293.4	252.7	240.5	285.3	407.6	313.8	228.2	224.2
77.5°	285.3	273.1	232.3	195.6	171.2	142.6	118.2	97.8	101.9	106.0
80°	236.4	216.0	191.6	171.2	142.6	110.0	85.6	65.2	65.2	69.3
82.5°	207.9	187.5	167.1	142.6	122.3	89.7	65.2	44.8	40.8	40.8
85°	89.7	106.0	114.1	122.3	97.8	73.4	44.8	28.5	24.5	24.5
87.5°	36.7	32.6	28.5	24.5	20.4	20.4	16.3	12.2	8.2	8.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)