

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: P451133

Luminaire Tested: **GLAN-SA2A-727-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451133
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2A-727-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6630 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

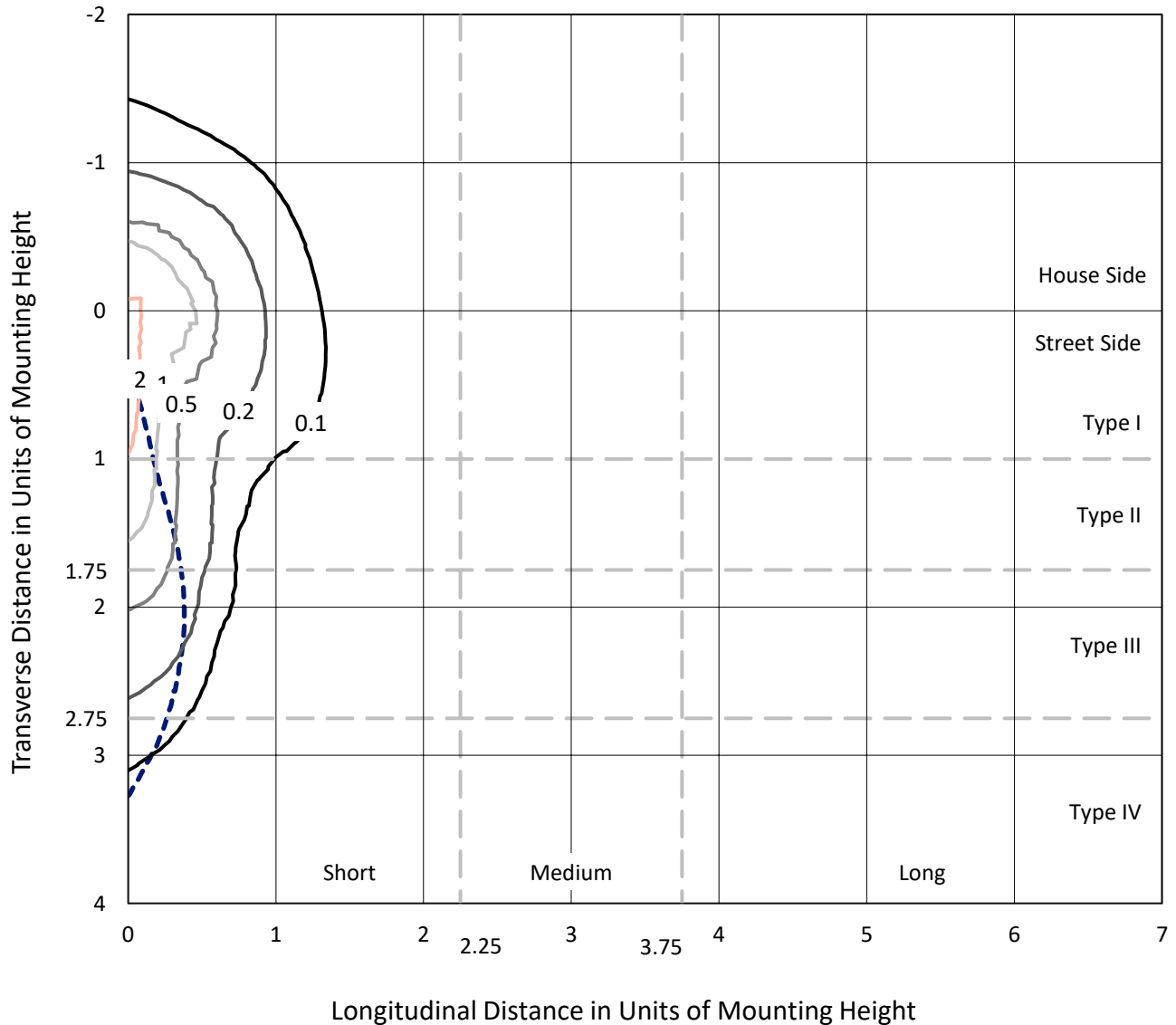
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451133
 CATALOG NUMBER: GLAN-SA2A-727-U-SLR

Iso-Footcandle Lines of Horizontal Illumination

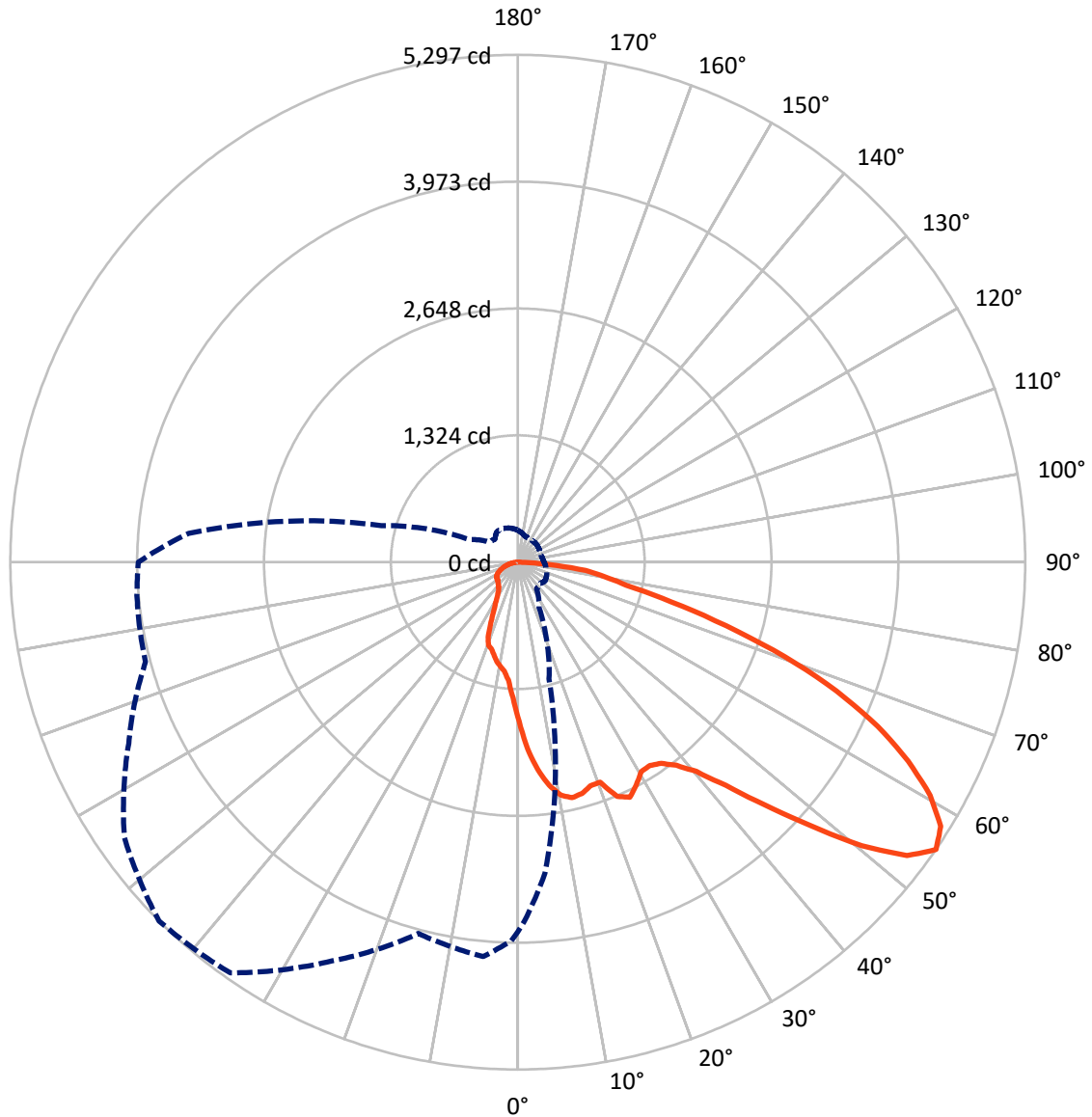
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P451133
CATALOG NUMBER: GLAN-SA2A-727-U-SLR

Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P451133

CATALOG NUMBER: GLAN-SA2A-727-U-SLR

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1450.3	0.0	1450.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	5179.7	0.0	5179.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	6630.0	0.0	6630.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.0	2.1
10°-20°	374.1	5.6
20°-30°	646.3	9.7
30°-40°	751.1	11.3
40°-50°	1048.0	15.8
50°-60°	1422.0	21.4
60°-70°	1352.8	20.4
70°-80°	730.8	11.0
80°-90°	163.8	2.5
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°	6630.0	100.0
0°-180°	6630.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451133

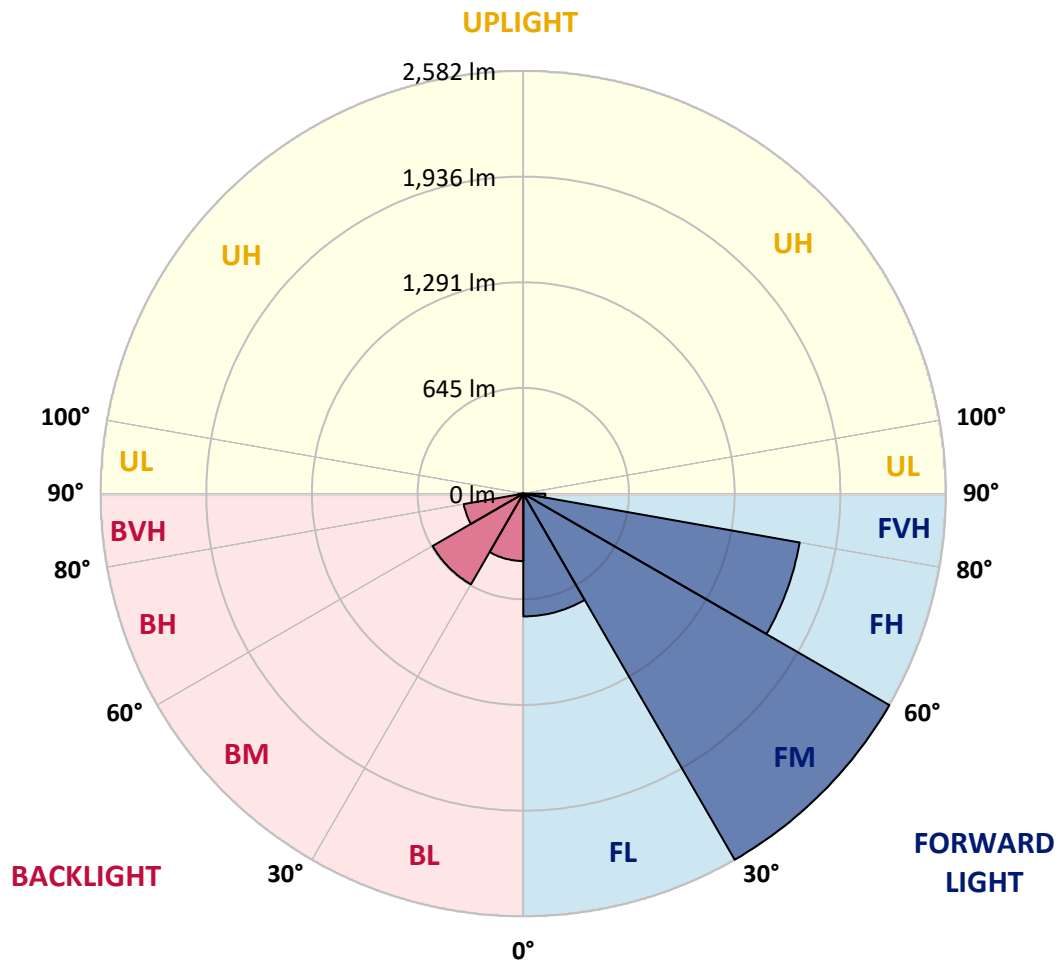
CATALOG NUMBER: GLAN-SA2A-727-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	749.9	11.3			
FM	(30°-60°)	2581.6	38.9			
FH	(60°-80°)	1714.4	25.9			G1/1800
FVH	(80°-90°)	133.9	2.0			G2/225
BL	(0°-30°)	411.6	6.2	B1/500		
BM	(30°-60°)	639.5	9.6	B1/1000		
BH	(60°-80°)	369.3	5.6	B1/500		G1/500
BVH	(80°-90°)	29.9	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P451133

CATALOG NUMBER: GLAN-SA2A-727-U-SLR

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1663.9	1663.9	1663.9	1663.9	1663.9	1663.9	1663.9	1663.9	1663.9	1663.9	1663.9
2.5°	1848.5	1841.5	1821.8	1770.2	1718.1	1665.2	1624.5	1573.8	1520.8	1492.4	1456.1
5°	1873.8	1865.9	1819.6	1703.2	1597.8	1487.2	1398.8	1321.4	1289.9	1243.5	1206.4
7.5°	1814.3	1810.8	1741.3	1574.2	1429.9	1285.1	1184.9	1122.8	1066.4	1045.4	1049.8
10°	1760.1	1746.1	1659.1	1440.8	1272.4	1154.7	1083.0	1022.2	982.4	971.9	974.1
12.5°	1715.0	1696.2	1593.4	1351.1	1203.7	1109.7	1018.3	954.8	918.5	928.6	962.7
15°	1705.9	1680.5	1565.9	1320.5	1166.1	1044.9	944.8	871.7	844.6	866.5	921.2
17.5°	1765.3	1733.4	1613.1	1330.6	1130.2	978.9	856.0	772.4	749.7	784.7	856.0
20°	1956.5	1909.3	1760.5	1388.7	1126.7	946.1	804.4	720.4	730.0	796.5	870.9
22.5°	2309.9	2239.1	2018.6	1473.6	1145.1	937.8	793.9	750.1	803.1	859.5	908.5
25°	2379.9	2324.3	2065.0	1492.8	1141.2	932.1	823.6	845.5	904.5	932.5	915.5
27.5°	2419.3	2355.8	2061.9	1397.5	1020.5	845.5	787.3	823.6	838.5	811.4	765.0
30°	2511.1	2445.1	2114.0	1297.3	840.2	627.2	549.8	534.9	545.0	550.2	533.6
32.5°	2637.5	2572.4	2211.9	1231.7	726.5	518.8	442.6	421.7	416.8	411.2	404.6
35°	2801.1	2700.9	2308.2	1189.7	679.7	479.8	409.8	393.7	387.1	379.2	372.2
37.5°	2967.3	2862.3	2429.8	1145.6	648.7	452.7	388.0	380.5	369.2	360.9	350.8
40°	3144.0	3026.4	2540.4	1107.1	618.5	435.2	372.2	371.4	356.5	346.9	335.0
42.5°	3297.1	3176.0	2639.3	1083.4	595.3	416.8	362.6	365.2	349.9	335.5	320.2
45°	3418.7	3299.7	2730.7	1083.4	576.5	398.5	360.9	359.1	343.8	325.9	308.4
47.5°	3525.4	3402.5	2819.9	1111.0	564.7	383.2	351.2	354.3	338.5	315.8	298.7
50°	3608.1	3499.6	2940.2	1153.9	552.9	370.9	339.0	355.6	334.2	310.6	290.9
52.5°	3713.5	3616.4	3085.0	1212.5	542.8	357.4	328.1	355.6	333.7	311.0	289.6
55°	3859.6	3757.3	3259.5	1261.0	526.6	344.7	318.4	345.5	332.4	308.8	286.1
57.5°	3962.0	3885.4	3382.9	1293.4	503.4	328.5	309.7	335.9	326.7	300.5	275.6
58°	3966.8	3892.0	3400.8	1300.8	497.8	325.4	307.5	331.5	324.1	297.0	272.1
60°	3911.7	3847.4	3404.3	1290.3	465.4	310.1	296.1	313.6	310.1	276.4	253.3
62.5°	3711.3	3642.7	3263.0	1205.0	422.5	291.3	278.6	289.6	281.7	247.6	226.1
65°	3426.6	3300.2	2972.6	1071.2	391.9	271.2	255.0	255.9	247.6	223.1	204.3
67.5°	3047.4	2906.1	2516.8	902.8	368.7	248.9	227.0	224.8	214.8	199.0	183.7
70°	2580.7	2484.0	2045.3	734.4	342.9	224.4	195.5	194.2	188.1	176.3	162.7
72.5°	2091.6	1968.7	1651.6	587.9	311.4	200.8	166.2	168.8	161.0	152.7	140.4
75°	1543.6	1463.1	1276.8	471.5	269.0	175.0	138.7	139.5	136.0	127.3	117.7
77.5°	1016.5	992.5	913.3	309.7	206.9	139.1	113.3	114.2	111.5	103.7	93.6
80°	684.1	667.9	618.9	199.5	138.2	100.6	87.5	88.4	87.9	79.6	66.0
82.5°	421.7	414.7	398.9	134.7	95.8	72.2	57.7	60.4	65.2	56.0	45.1
85°	199.0	199.5	241.0	73.5	56.4	46.4	31.5	33.7	33.7	33.7	25.4
87.5°	25.8	27.1	33.2	31.1	20.6	17.5	11.4	9.6	8.3	10.9	7.9
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: P451133
 CATALOG NUMBER: GLAN-SA2A-727-U-SLR

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1663.9	1663.9	1663.9	1663.9	1663.9	1663.9	1663.9	1663.9	1663.9	1663.9	1663.9
2.5°	1443.4	1434.7	1415.9	1411.5	1408.9	1416.3	1396.6	1401.9	1393.1	1417.6	1413.7
5°	1208.5	1209.4	1224.7	1234.8	1238.3	1234.8	1221.7	1198.9	1181.4	1174.4	1176.2
7.5°	1041.5	1056.8	1083.0	1112.3	1139.0	1146.9	1139.4	1096.1	1048.9	1019.1	1009.5
10°	985.9	1006.5	1036.6	1059.8	1083.4	1102.2	1106.2	1072.5	1016.5	946.1	918.5
12.5°	989.0	1017.0	1045.8	1053.3	1051.1	1058.5	1055.0	1049.3	1012.6	922.9	877.0
15°	960.1	993.3	1013.5	1009.5	1002.5	996.0	986.8	972.3	959.2	896.2	845.5
17.5°	893.6	927.7	944.3	945.7	945.7	943.9	921.6	916.4	914.6	884.0	852.9
20°	905.9	924.7	917.2	905.0	908.5	920.3	907.2	904.5	914.6	928.2	922.5
22.5°	912.9	906.3	850.3	796.1	783.8	820.6	828.0	857.3	898.0	947.0	978.9
25°	869.6	816.6	716.5	655.2	620.7	654.8	699.4	753.6	814.4	877.4	914.6
27.5°	727.0	686.7	615.0	559.9	529.7	534.9	573.0	622.4	678.8	721.3	748.4
30°	547.6	529.7	492.5	473.7	455.3	451.0	467.1	486.0	510.9	516.1	523.1
32.5°	403.3	400.7	402.8	396.7	393.2	392.8	388.0	392.3	395.0	398.0	391.9
35°	364.8	361.3	355.2	353.4	351.2	352.1	349.9	347.7	349.5	352.1	353.9
37.5°	345.1	339.9	331.1	328.1	328.1	329.4	325.9	325.0	328.1	336.4	340.7
40°	329.8	323.7	313.6	309.7	312.3	315.8	311.0	309.2	316.7	325.4	332.4
42.5°	315.4	310.6	300.9	296.6	298.7	305.3	298.3	297.0	306.6	316.2	324.6
45°	303.1	298.3	289.6	287.4	288.2	294.4	289.6	289.6	298.7	309.2	316.7
47.5°	293.5	287.4	281.7	279.9	280.8	284.3	283.4	283.4	292.2	303.1	310.6
50°	283.9	278.6	271.2	272.1	274.3	279.1	278.6	279.9	288.7	302.2	310.1
52.5°	279.5	271.6	263.3	264.2	270.8	276.4	274.7	276.0	286.1	311.4	322.8
55°	274.7	264.2	254.6	255.9	263.3	271.6	269.4	271.2	283.0	317.6	333.3
57.5°	265.5	253.3	242.8	243.6	254.6	263.3	259.8	262.0	276.0	311.0	327.6
58°	261.6	251.1	241.0	241.4	251.9	261.6	257.6	259.4	273.8	309.2	325.0
60°	244.9	238.8	230.1	230.5	240.6	248.9	246.7	248.4	262.4	296.6	308.4
62.5°	222.2	218.7	216.5	216.5	222.6	230.5	232.7	234.9	247.6	268.1	278.6
65°	197.7	197.7	198.1	198.1	202.1	212.1	213.5	219.1	230.9	241.0	248.9
67.5°	181.1	180.2	181.1	178.9	180.6	186.8	193.3	198.6	210.8	217.8	220.4
70°	159.7	159.2	159.7	156.6	158.8	164.0	168.4	177.1	189.8	195.1	196.4
72.5°	138.7	138.7	139.5	137.3	137.3	143.0	146.1	155.7	167.5	170.6	171.0
75°	116.8	118.1	118.1	115.0	115.9	119.4	123.3	131.2	142.2	144.3	144.3
77.5°	92.7	97.5	97.5	94.5	95.8	96.2	101.5	105.4	113.7	114.6	111.1
80°	67.4	72.2	76.1	73.5	75.7	73.0	76.1	78.7	87.0	83.1	77.4
82.5°	48.1	51.6	54.7	55.1	52.9	48.1	52.1	52.5	56.4	51.2	48.1
85°	26.7	29.7	33.7	31.9	28.4	25.4	26.7	27.6	27.1	25.8	24.1
87.5°	7.0	7.4	8.3	6.1	5.7	4.8	6.6	6.6	7.4	7.9	7.4
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: P451133
 CATALOG NUMBER: GLAN-SA2A-727-U-SLR

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1663.9	1663.9	1663.9	1663.9	1663.9	1663.9	1663.9	1663.9	1663.9	1663.9	1663.9
2.5°	1416.7	1436.0	1477.5	1509.0	1547.5	1594.3	1649.4	1705.0	1764.9	1783.7	1810.0
5°	1172.2	1220.3	1240.5	1297.8	1354.6	1439.9	1530.9	1636.3	1751.8	1807.3	1860.7
7.5°	1001.6	1027.5	1048.4	1090.4	1158.7	1262.3	1376.5	1508.2	1671.7	1752.7	1831.0
10°	909.8	912.4	938.2	990.3	1049.8	1141.2	1249.2	1396.6	1579.0	1677.4	1769.3
12.5°	849.0	837.6	865.6	919.9	987.2	1071.6	1170.9	1311.3	1512.1	1613.1	1724.2
15°	795.6	777.7	798.7	854.2	920.7	1020.0	1126.7	1275.5	1485.8	1603.5	1726.9
17.5°	796.9	747.5	755.0	801.8	867.8	968.8	1098.3	1274.1	1525.7	1661.2	1807.3
20°	895.4	816.2	782.5	791.3	855.1	965.3	1111.4	1335.4	1656.4	1854.1	2010.3
22.5°	992.0	944.3	890.1	872.2	907.2	1022.6	1195.0	1480.2	1940.7	2238.6	2520.7
25°	958.3	999.0	985.5	960.1	968.0	1063.8	1251.8	1599.1	2161.6	2497.1	2762.2
27.5°	766.8	840.7	855.6	855.1	858.2	936.9	1125.9	1519.1	2189.2	2546.5	2799.8
30°	538.9	545.4	553.3	568.6	582.6	653.0	880.9	1333.6	2176.9	2568.9	2822.5
32.5°	388.8	397.6	408.5	429.5	462.8	552.4	770.7	1274.6	2241.7	2661.1	2889.0
35°	355.6	365.7	376.2	400.2	431.7	514.8	727.0	1250.1	2348.0	2810.7	3008.4
37.5°	345.1	356.5	365.7	383.2	408.5	487.7	687.2	1233.5	2456.9	2969.1	3168.5
40°	337.7	350.8	358.2	372.2	389.7	462.8	651.7	1220.3	2562.3	3113.9	3297.1
42.5°	331.1	344.7	354.3	364.4	378.8	440.5	620.2	1207.2	2653.7	3254.3	3425.3
45°	323.2	340.3	352.5	360.4	373.1	421.7	596.2	1196.7	2757.8	3378.9	3554.8
47.5°	316.7	335.5	350.8	360.0	364.8	408.5	576.9	1211.2	2882.9	3509.3	3675.0
50°	317.1	335.0	354.3	368.7	356.0	397.6	565.1	1268.5	3045.6	3664.1	3770.0
52.5°	331.1	353.0	368.3	371.8	343.8	384.5	559.0	1368.6	3238.1	3801.0	3865.7
55°	346.9	369.6	386.2	384.0	337.2	367.9	557.7	1475.4	3448.9	3960.7	3990.4
57.5°	341.2	374.4	399.8	388.4	337.7	351.7	552.0	1561.5	3625.2	4080.1	4113.8
58°	339.4	372.7	401.5	387.5	336.4	346.9	550.7	1569.0	3649.7	4088.4	4131.2
60°	322.4	357.4	400.2	381.0	328.9	333.7	536.3	1593.0	3643.1	4045.5	4141.7
62.5°	291.3	320.2	370.0	349.0	306.2	316.2	503.9	1563.3	3465.5	3839.1	3988.2
65°	256.3	277.7	311.0	307.1	273.8	298.3	459.7	1445.6	3109.9	3504.0	3661.0
67.5°	230.1	247.6	268.6	262.9	246.3	274.3	412.0	1246.6	2711.0	3101.6	3299.3
70°	203.4	217.0	227.4	223.5	218.3	250.6	369.6	1011.7	2328.7	2719.3	2910.9
72.5°	176.3	189.0	197.7	192.0	189.0	225.7	335.0	785.1	1839.3	2243.4	2489.7
75°	147.4	160.1	166.2	159.7	157.9	199.0	283.9	586.6	1380.0	1729.5	1942.1
77.5°	114.2	127.7	135.6	133.4	134.3	163.6	229.2	401.5	986.8	1178.8	1402.7
80°	80.0	94.9	100.2	98.0	104.1	124.7	161.8	255.0	680.6	765.0	922.9
82.5°	49.4	63.4	64.3	66.5	70.9	92.3	122.0	155.3	427.3	441.8	556.4
85°	24.9	30.2	32.4	35.9	39.8	56.4	69.5	96.2	275.1	208.2	311.0
87.5°	8.3	8.7	10.5	13.1	16.2	23.2	29.7	39.4	68.2	37.6	96.2
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: P451133

CATALOG NUMBER: GLAN-SA2A-727-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1663.9	1663.9	1663.9	1663.9	1663.9	1663.9	1663.9	1663.9	1663.9	1663.9
2.5°	1862.9	1900.1	1927.2	1952.1	1928.1	1925.9	1902.3	1864.2	1848.5	1848.5
5°	1972.7	2059.7	2130.1	2175.2	2155.9	2109.6	2033.0	1935.5	1883.0	1873.8
7.5°	2002.9	2174.8	2305.5	2351.9	2319.5	2217.2	2070.7	1906.2	1831.0	1814.3
10°	1984.5	2208.0	2400.0	2473.5	2428.4	2273.6	2073.7	1872.1	1779.3	1760.1
12.5°	1965.2	2212.4	2417.5	2523.8	2494.5	2319.1	2096.0	1849.8	1742.6	1715.0
15°	1979.2	2214.1	2396.1	2505.9	2524.7	2373.8	2132.8	1865.9	1735.2	1705.9
17.5°	2067.6	2247.4	2365.5	2454.3	2520.3	2448.1	2237.3	1943.4	1801.7	1765.3
20°	2252.2	2327.0	2383.0	2451.6	2557.9	2599.9	2451.2	2155.9	1988.4	1956.5
22.5°	2786.7	2773.1	2658.5	2657.2	2811.2	2979.6	2969.5	2588.1	2336.2	2309.9
25°	2987.0	2924.0	2758.2	2718.0	2785.8	3045.6	3008.0	2676.5	2443.8	2379.9
27.5°	2908.7	2752.6	2643.6	2634.5	2612.2	2857.5	2948.1	2712.3	2481.4	2419.3
30°	2903.9	2674.3	2518.6	2536.9	2558.4	2792.8	2981.3	2824.7	2577.6	2511.1
32.5°	2915.7	2685.2	2527.7	2531.2	2595.1	2802.4	3018.1	2947.2	2704.0	2637.5
35°	2963.4	2747.3	2586.3	2578.0	2677.8	2865.4	3080.6	3139.7	2876.8	2801.1
37.5°	3040.4	2871.1	2693.5	2691.3	2836.1	2979.1	3158.5	3333.9	3048.7	2967.3
40°	3153.7	3015.9	2884.2	2872.4	3051.3	3164.2	3259.5	3540.8	3248.6	3144.0
42.5°	3290.6	3189.5	3135.7	3182.5	3354.4	3371.9	3417.0	3731.9	3418.7	3297.1
45°	3417.4	3412.6	3487.4	3611.6	3711.8	3606.8	3581.4	3860.1	3550.8	3418.7
47.5°	3568.3	3698.7	3924.4	4106.3	4211.3	3880.2	3721.8	3943.6	3647.0	3525.4
50°	3721.4	4041.1	4401.6	4655.3	4677.6	4177.2	3818.5	4022.3	3734.5	3608.1
52.5°	3882.4	4314.5	4794.3	5089.2	5045.9	4435.7	3912.1	4075.7	3824.6	3713.5
55°	4022.3	4482.0	5013.9	5296.9	5233.5	4593.1	4013.1	4133.4	3953.2	3859.6
57.5°	4100.6	4496.0	4959.2	5206.4	5137.7	4562.5	4059.5	4176.3	4035.5	3962.0
58°	4112.0	4477.2	4910.7	5153.9	5083.9	4536.7	4059.1	4174.5	4040.7	3966.8
60°	4101.9	4355.2	4730.0	4946.6	4873.1	4374.9	4042.5	4141.7	3974.2	3911.7
62.5°	4008.8	4143.5	4418.2	4575.6	4554.7	4122.1	3974.2	4018.0	3771.7	3711.3
65°	3886.3	3854.8	4018.8	4130.4	4146.1	3932.7	3906.4	3750.3	3511.9	3426.6
67.5°	3737.6	3527.6	3527.2	3590.6	3616.9	3641.4	3765.1	3459.4	3137.5	3047.4
70°	3485.2	3023.3	2884.2	2959.0	2937.1	3144.0	3512.8	3050.9	2686.1	2580.7
72.5°	3022.4	2399.1	2176.5	2272.7	2217.6	2465.6	3073.6	2510.7	2221.1	2091.6
75°	2449.9	1794.7	1565.0	1653.4	1619.3	1870.3	2557.5	1823.5	1593.0	1543.6
77.5°	1902.3	1300.4	1167.0	1154.7	1180.1	1391.8	1876.0	1231.3	1050.2	1016.5
80°	1222.1	930.8	938.7	922.9	936.0	877.4	1139.0	785.6	711.2	684.1
82.5°	804.4	648.7	773.3	713.8	678.0	590.1	747.1	514.4	436.5	421.7
85°	548.1	477.6	434.8	332.4	391.5	454.5	560.3	276.9	219.6	199.0
87.5°	247.6	166.2	122.0	75.2	119.0	137.3	272.1	32.4	24.9	25.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)