

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: P653994

Luminaire Tested: **GLAN-SA7A-840-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P653994
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-SA7A-840-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 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: 19950.2 lumens
Efficiency: N/A
Efficacy: 92.8 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

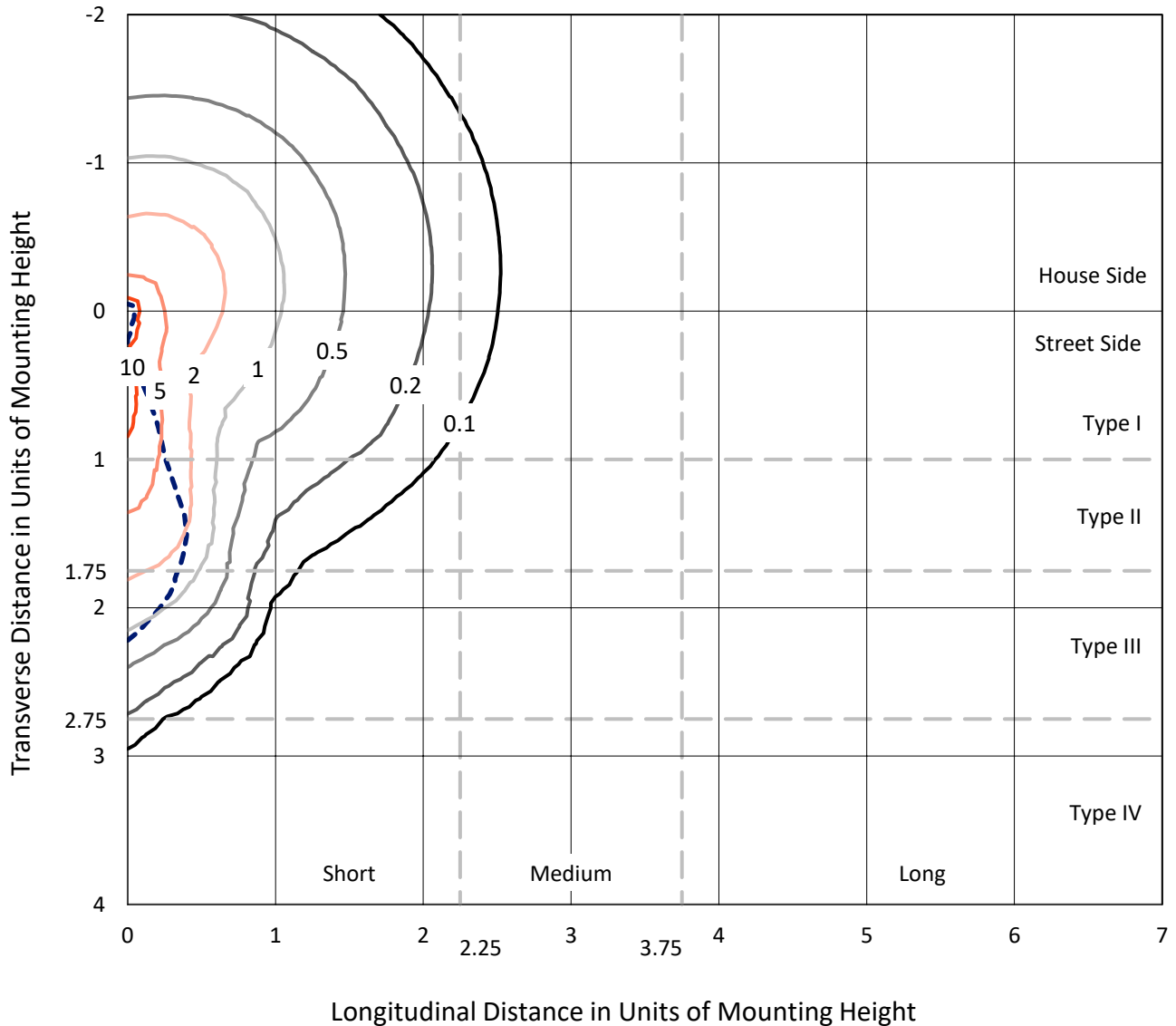
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

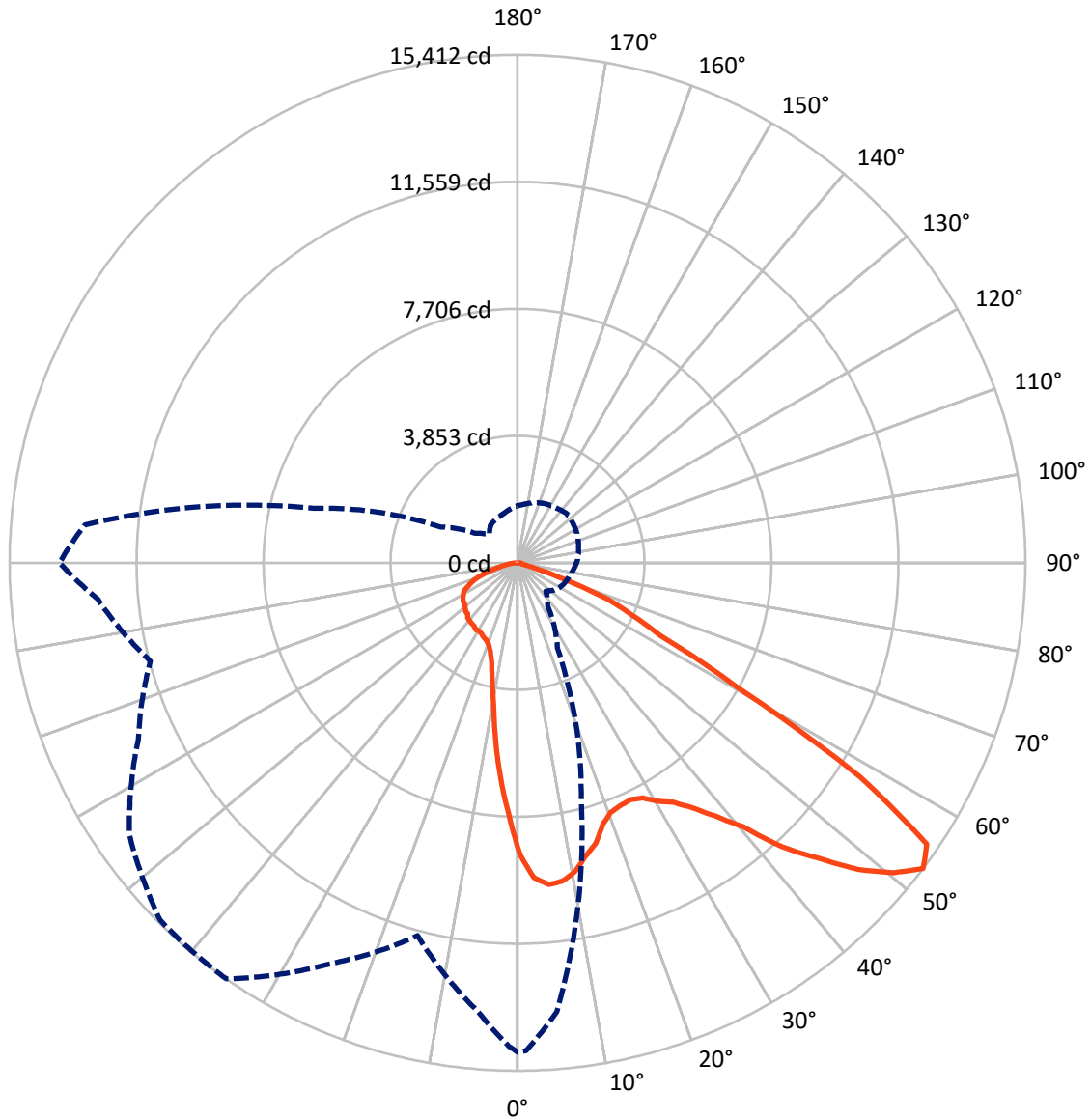
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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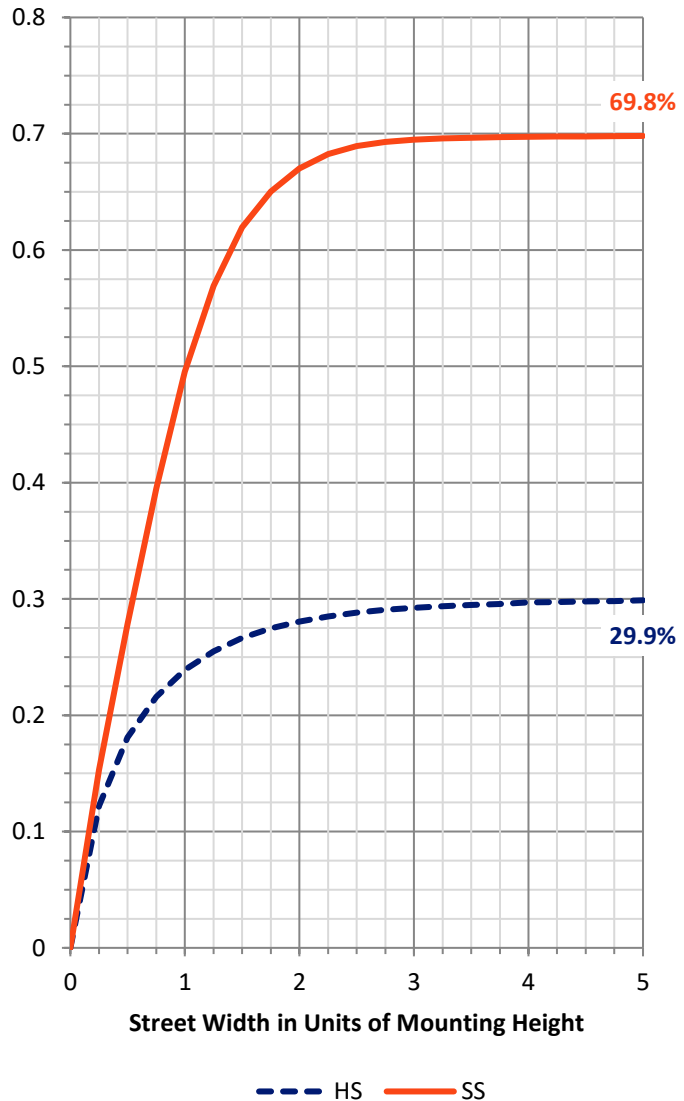
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6014.1	0.0	6014.1
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	13936.1	0.0	13936.1
	% Fixture	69.9	0.0	69.9
Total	Lumens	19950.2	0.0	19950.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	675.5	3.4
10°-20°	1464.4	7.3
20°-30°	2212.5	11.1
30°-40°	3197.2	16.0
40°-50°	4254.9	21.3
50°-60°	4759.2	23.9
60°-70°	2682.2	13.4
70°-80°	597.9	3.0
80°-90°	106.5	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°	19950.2	100.0
0°-180°	19950.2	100.0

Coefficient of Utilization



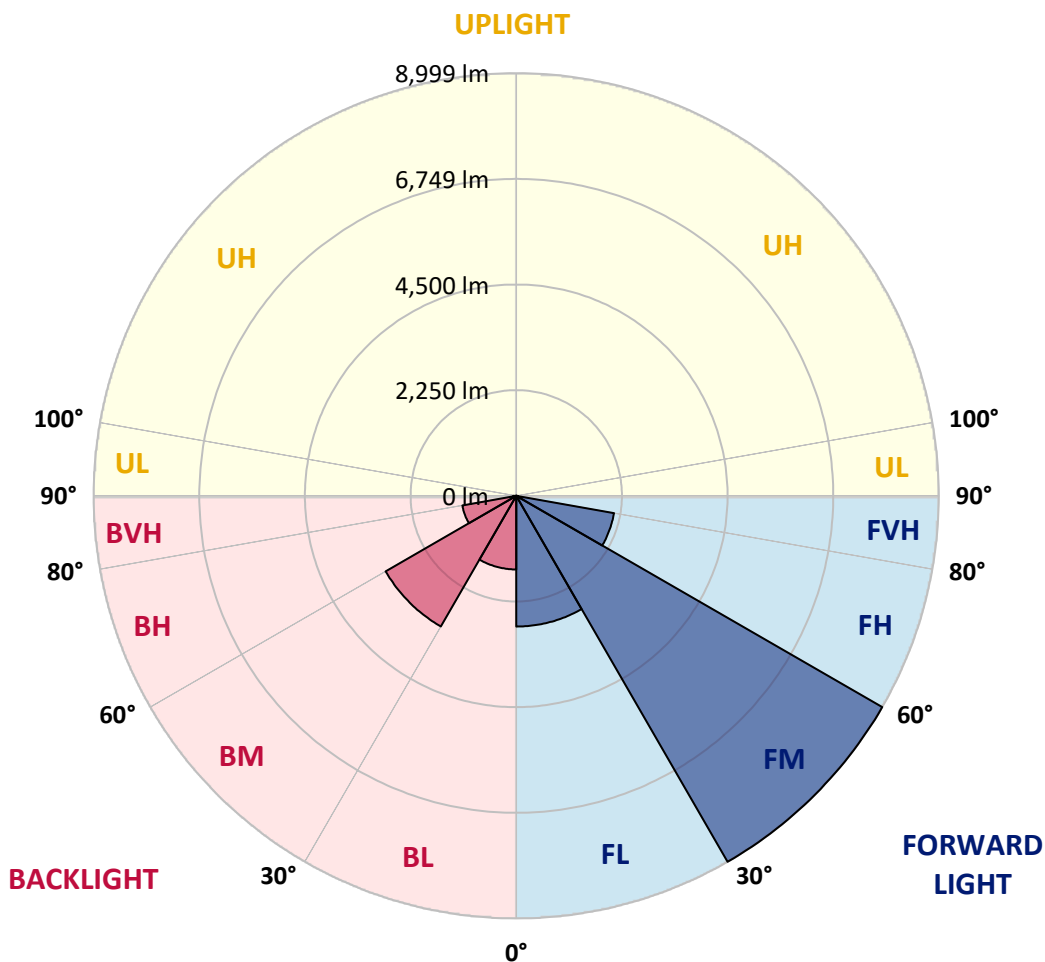
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2784.0	14.0			
FM (30°-60°)	8999.1	45.1			
FH (60°-80°)	2114.4	10.6			G2/5000
FVH (80°-90°)	38.6	0.2			G1/100
BL (0°-30°)	1568.3	7.9	B3/2500		
BM (30°-60°)	3212.2	16.1	B3/5000		
BH (60°-80°)	1165.7	5.8	B3/2500		G3/2500
BVH (80°-90°)	67.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8854.0	8854.0	8854.0	8854.0	8854.0	8854.0	8854.0	8854.0	8854.0	8854.0	8854.0
2.5°	9001.5	9146.0	8990.0	8712.3	8515.7	8336.4	8148.4	8110.9	7865.1	7821.7	7642.4
5°	8489.6	8457.9	8267.0	7902.7	7500.8	7136.4	6867.5	6607.2	6430.9	6225.6	6211.1
7.5°	7868.0	7683.0	7573.0	7020.8	6523.4	5950.9	5705.1	5309.0	5184.6	4999.6	4904.1
10°	7312.8	7176.9	6919.6	6367.3	5673.3	5294.5	5031.4	4817.4	4672.8	4481.9	4241.9
12.5°	7038.1	6983.2	6694.0	5838.1	5323.4	4918.6	4733.5	4525.3	4279.5	3973.1	3854.5
15°	7087.3	6902.2	6682.4	5736.9	5025.6	4635.2	4340.2	4080.0	3764.8	3472.8	3302.2
17.5°	7454.5	7312.8	6873.3	5800.5	4912.8	4349.0	3814.0	3429.4	3146.0	2882.9	2764.4
20°	8177.4	7972.1	7477.7	5881.4	4669.9	3949.9	3336.9	2862.7	2559.1	2420.2	2379.8
22.5°	8978.3	8856.9	8067.5	6063.6	4476.1	3579.8	2830.9	2356.7	2243.9	2206.3	2281.5
25°	9952.8	9637.6	8984.2	6361.5	4325.8	3264.6	2402.9	2139.8	2082.0	2119.5	2206.3
27.5°	10693.1	10609.2	9626.1	6642.0	4120.5	2885.8	2162.9	1989.4	2006.8	2044.4	2125.3
30°	11572.1	11147.0	10247.8	6835.7	3935.5	2625.5	1995.2	1948.9	1966.3	2029.9	2070.4
32.5°	12101.2	11942.2	10638.1	7127.7	3721.4	2400.0	1865.1	1821.7	1847.8	1943.1	2038.6
35°	12775.0	12459.8	11121.0	7202.9	3571.1	2310.4	1772.6	1740.7	1801.4	1867.9	1974.9
37.5°	13561.5	13344.7	11789.0	7150.9	3490.2	2217.8	1694.4	1680.0	1723.4	1815.9	1940.3
40°	14027.0	13960.5	12138.8	7182.7	3362.9	2136.9	1604.8	1622.2	1711.9	1784.1	1905.5
42.5°	14475.3	14041.5	12656.5	7171.1	3281.9	2027.0	1613.5	1593.3	1662.7	1746.5	1862.1
45°	14573.6	14142.8	12777.9	7090.1	3183.6	1920.0	1547.0	1555.7	1639.5	1743.6	1818.8
47.5°	14509.9	14191.9	13003.5	7067.0	3091.1	1844.8	1448.7	1552.7	1601.9	1685.8	1792.8
50°	14466.5	14449.2	13194.3	7176.9	2966.8	1726.2	1330.1	1515.2	1564.3	1648.2	1763.8
52.5°	14848.3	14810.7	13671.4	7466.1	2868.5	1599.1	1208.7	1419.8	1538.4	1619.3	1732.0
55°	15079.6	14914.8	14489.7	7821.7	2703.6	1431.3	1124.8	1301.2	1474.7	1547.0	1662.7
57.5°	13564.4	13451.6	13107.6	7301.2	2426.0	1211.5	1020.7	1179.8	1388.0	1500.8	1619.3
60°	11285.9	11109.4	10227.5	6205.3	1789.9	942.7	957.1	1084.3	1364.9	1408.2	1547.0
62.5°	10641.0	10204.4	9004.4	4993.8	1373.5	809.6	858.8	997.6	1243.4	1315.7	1454.4
65°	8443.4	8119.5	6442.5	3605.8	919.5	702.7	783.6	899.3	1072.8	1214.5	1341.7
67.5°	5285.8	4976.4	3438.1	1706.1	641.9	601.5	699.8	821.2	962.9	1090.1	1231.8
70°	2761.4	2423.2	1587.5	615.9	442.5	491.6	584.1	699.8	838.6	942.7	1052.5
72.5°	1029.4	835.7	517.6	266.0	306.5	375.9	474.2	558.1	656.4	783.6	844.4
75°	159.0	135.9	133.0	161.9	208.2	271.8	338.3	422.2	508.9	589.9	630.3
77.5°	75.2	72.3	81.0	107.0	138.8	193.8	245.8	326.7	396.1	448.2	471.3
80°	49.2	46.3	52.1	72.3	104.1	144.6	196.6	251.5	315.2	358.5	352.8
82.5°	28.9	31.8	31.8	49.2	72.3	104.1	141.7	190.8	234.2	271.8	248.7
85°	17.3	14.5	14.5	28.9	49.2	83.8	118.6	81.0	83.8	83.8	95.5
87.5°	5.8	5.8	5.8	2.9	5.8	5.8	8.7	14.5	17.3	20.3	26.0
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°	8854.0	8854.0	8854.0	8854.0	8854.0	8854.0	8854.0	8854.0	8854.0	8854.0	8854.0
2.5°	7636.7	7726.3	7694.5	7581.7	7668.5	7683.0	7625.1	7824.6	7862.2	7801.5	7818.9
5°	6190.9	6214.0	6266.0	6376.0	6454.0	6546.5	6546.5	6552.3	6474.3	6670.9	6613.0
7.5°	4823.1	4837.6	4898.3	5132.5	5199.1	5375.4	5450.6	5398.5	5242.5	5175.9	5230.9
10°	4163.9	4080.0	4059.8	4088.7	4239.1	4314.2	4377.8	4360.5	4334.5	4282.5	4224.6
12.5°	3724.4	3663.6	3614.4	3545.1	3553.7	3626.1	3675.2	3634.7	3646.3	3657.8	3675.2
15°	3247.3	3203.9	3177.9	3073.8	3062.2	3111.4	3128.7	3151.8	3195.2	3198.1	3177.9
17.5°	2741.2	2703.6	2761.4	2819.3	2778.8	2781.7	2813.5	2833.7	2822.1	2770.2	2744.1
20°	2394.2	2434.7	2492.6	2547.5	2590.9	2616.9	2628.5	2596.7	2559.1	2452.0	2449.2
22.5°	2293.0	2345.0	2394.2	2478.1	2518.5	2585.1	2524.3	2452.0	2400.0	2348.0	2287.3
25°	2217.8	2261.2	2359.5	2391.3	2469.4	2524.3	2481.0	2408.7	2319.1	2243.9	2197.6
27.5°	2162.9	2212.1	2275.7	2362.5	2423.2	2455.0	2411.6	2382.6	2290.1	2200.5	2134.0
30°	2128.2	2180.3	2295.9	2368.2	2420.2	2446.3	2371.1	2336.4	2269.9	2194.7	2136.9
32.5°	2105.1	2151.4	2249.7	2342.2	2376.9	2376.9	2388.4	2348.0	2255.4	2128.2	2079.0
35°	2029.9	2093.5	2174.5	2281.5	2345.0	2382.6	2324.9	2278.6	2217.8	2087.7	1998.0
37.5°	1986.5	2029.9	2134.0	2235.2	2290.1	2330.6	2307.5	2226.5	2145.6	2038.6	1966.3
40°	1940.3	2009.7	2102.2	2197.6	2258.3	2298.8	2281.5	2186.0	2087.7	1986.5	1937.3
42.5°	1908.5	1954.7	2050.1	2157.1	2229.4	2307.5	2255.4	2136.9	2067.5	1928.7	1873.7
45°	1882.4	1957.6	2058.8	2102.2	2177.3	2258.3	2165.8	2093.5	2012.5	1911.3	1865.1
47.5°	1850.6	1920.0	1986.5	2102.2	2136.9	2174.5	2157.1	2041.4	1972.1	1862.1	1830.4
50°	1839.0	1865.1	1986.5	2050.1	2099.3	2136.9	2090.6	2003.9	1937.3	1824.5	1755.2
52.5°	1792.8	1842.0	1920.0	2003.9	2064.6	2110.8	2035.6	1980.7	1891.1	1772.6	1729.2
55°	1735.0	1763.8	1902.7	1989.4	2021.2	2053.0	2024.1	1934.5	1842.0	1720.5	1677.1
57.5°	1659.8	1726.2	1839.0	1960.5	2001.0	2018.3	1972.1	1899.7	1784.1	1677.1	1607.7
60°	1581.7	1651.1	1775.4	1873.7	1914.2	1977.9	1908.5	1865.1	1732.0	1613.5	1538.4
62.5°	1503.6	1581.7	1674.3	1798.6	1833.3	1859.3	1842.0	1781.2	1674.3	1541.2	1448.7
65°	1411.1	1468.9	1584.6	1648.2	1671.3	1732.0	1671.3	1648.2	1552.7	1425.6	1347.5
67.5°	1272.3	1321.5	1422.6	1483.4	1500.8	1526.8	1523.9	1497.8	1390.8	1304.1	1234.7
70°	1113.2	1156.6	1220.2	1292.5	1301.2	1333.0	1304.1	1298.3	1229.0	1110.4	1072.8
72.5°	893.5	934.0	1017.9	1049.7	1052.5	1064.1	1049.7	1029.4	1012.1	887.7	850.2
75°	685.3	708.5	748.9	777.8	777.8	792.3	783.6	763.4	717.1	639.1	601.5
77.5°	477.1	500.2	552.3	569.6	566.7	572.6	546.5	526.3	456.8	416.4	384.6
80°	347.0	361.5	387.4	399.1	401.9	410.6	378.8	361.5	320.9	274.7	260.2
82.5°	251.5	260.2	263.1	277.6	277.6	263.1	254.5	237.1	208.2	179.3	167.7
85°	104.1	107.0	109.9	127.2	130.1	156.2	144.6	135.9	118.6	101.2	92.5
87.5°	26.0	28.9	37.6	31.8	37.6	37.6	40.5	46.3	46.3	37.6	37.6
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8854.0	8854.0	8854.0	8854.0	8854.0	8854.0	8854.0	8854.0	8854.0	8854.0	8854.0
2.5°	7885.4	7908.5	8203.5	8241.0	8385.6	8533.0	8830.9	9044.9	9218.4	9331.1	9362.9
5°	6673.8	6821.3	6957.2	7176.9	7376.4	7659.8	7986.6	8391.3	8900.3	9160.5	9264.6
7.5°	5225.0	5398.5	5595.2	5809.2	6101.2	6610.2	7046.8	7515.3	8165.9	8434.7	8842.4
10°	4265.0	4458.8	4719.0	4883.9	5236.7	5722.4	6231.4	6772.1	7393.7	7781.3	8252.6
12.5°	3770.6	3929.7	4169.7	4516.7	4779.8	5094.9	5473.7	6156.2	7046.8	7414.0	7737.9
15°	3224.1	3400.5	3678.1	4062.7	4377.8	4753.8	5178.8	5922.0	6870.4	7437.1	7711.9
17.5°	2773.0	2900.3	3192.3	3524.8	3886.3	4296.9	4907.0	5910.4	7055.5	7781.3	8229.4
20°	2460.8	2478.1	2637.1	2920.5	3412.1	3947.0	4739.3	5852.5	7648.2	8374.0	8940.8
22.5°	2264.1	2246.7	2249.7	2489.6	2833.7	3602.9	4476.1	6049.2	8321.9	9316.7	9698.3
25°	2165.8	2119.5	2090.6	2142.7	2455.0	3195.2	4276.7	6309.4	9047.7	10094.5	10563.0
27.5°	2113.8	2032.8	1974.9	1983.7	2212.1	2989.9	4152.3	6422.2	9767.8	11178.8	11343.7
30°	2093.5	1992.3	1908.5	1879.6	2029.9	2703.6	3886.3	6616.0	10412.6	11774.5	11916.2
32.5°	2021.2	1896.9	1815.9	1789.9	1850.6	2452.0	3695.4	6754.7	10982.2	12422.2	12373.0
35°	1937.3	1833.3	1732.0	1682.9	1726.2	2290.1	3542.2	6688.2	11653.1	12925.3	12899.3
37.5°	1928.7	1792.8	1708.9	1627.9	1625.1	2090.6	3334.0	6751.9	12081.0	13827.6	13471.9
40°	1853.5	1766.8	1656.9	1590.3	1552.7	1989.4	3131.5	6601.5	12708.5	14191.9	13842.0
42.5°	1856.4	1726.2	1630.9	1552.7	1515.2	1842.0	2992.8	6561.0	12928.3	14784.7	14015.5
45°	1810.2	1682.9	1601.9	1509.4	1489.2	1729.2	2859.7	6373.0	13315.7	14813.5	13798.6
47.5°	1763.8	1651.1	1564.3	1454.4	1408.2	1688.6	2755.7	6216.9	13113.3	14541.7	13497.9
50°	1732.0	1601.9	1520.9	1442.9	1312.8	1619.3	2619.8	6179.3	12830.0	14174.6	12939.8
52.5°	1677.1	1561.5	1477.6	1416.9	1208.7	1555.7	2567.7	6399.1	13177.0	13899.8	12777.9
55°	1625.1	1506.5	1399.5	1281.0	1121.9	1388.0	2423.2	6604.4	13683.0	14533.1	13512.3
57.5°	1570.1	1457.4	1341.7	1200.0	1038.0	1214.5	2272.8	6642.0	12734.5	13431.4	12827.0
60°	1497.8	1353.3	1266.5	1081.4	948.5	1006.3	1801.4	5855.5	9877.6	11216.4	11236.7
62.5°	1416.9	1260.7	1185.6	968.7	855.9	867.5	1468.9	4921.4	8012.5	9284.9	9837.2
65°	1309.9	1159.5	1069.9	896.4	789.4	751.8	1075.6	3605.8	6086.7	7532.6	8160.1
67.5°	1171.1	1029.4	916.6	780.7	705.5	644.8	734.4	2029.9	3594.3	5057.4	5248.3
70°	1023.6	902.1	783.6	670.9	587.0	543.6	537.8	899.3	1717.6	2721.0	3096.9
72.5°	806.8	720.0	624.6	540.8	485.8	422.2	384.6	373.0	581.2	1107.5	1529.6
75°	578.4	506.0	451.1	396.1	355.7	320.9	292.1	266.0	242.9	277.6	381.7
77.5°	364.3	338.3	294.9	280.5	257.3	248.7	237.1	222.6	205.3	193.8	193.8
80°	245.8	228.4	214.0	211.1	202.4	199.5	202.4	188.0	170.6	156.2	161.9
82.5°	164.8	161.9	159.0	156.2	159.0	161.9	167.7	164.8	150.4	141.7	144.6
85°	98.3	104.1	109.9	115.6	127.2	112.8	92.5	78.0	69.4	63.6	60.7
87.5°	37.6	52.1	46.3	43.4	46.3	43.4	40.5	37.6	31.8	28.9	28.9
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: P653994

CATALOG NUMBER: GLAN-SA7A-840-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8854.0	8854.0	8854.0	8854.0	8854.0	8854.0	8854.0	8854.0	8854.0	8854.0
2.5°	9574.0	9631.9	9681.0	9669.5	9568.2	9432.3	9377.4	9096.9	9039.1	9001.5
5°	9704.1	10039.6	10111.8	10068.5	9805.4	9472.9	9149.0	8738.3	8498.4	8489.6
7.5°	9464.1	9877.6	10007.7	10106.0	9756.2	9177.9	8622.7	8006.8	7856.5	7868.0
10°	8854.0	9513.3	9834.2	9935.5	9533.6	9033.3	8264.2	7639.6	7318.6	7312.8
12.5°	8515.7	9033.3	9122.9	9264.6	9146.0	8640.0	8055.9	7356.1	7043.9	7038.1
15°	8215.0	8556.2	8582.2	8781.7	8845.4	8504.1	8110.9	7364.9	7113.3	7087.3
17.5°	8478.1	8241.0	8142.7	8168.7	8356.7	8481.0	8428.9	7856.5	7599.1	7454.5
20°	8654.5	8125.3	7827.5	7856.5	8079.1	8533.0	8903.2	8567.8	8160.1	8177.4
22.5°	9125.9	8142.7	7677.2	7645.4	7998.1	8804.8	9438.1	9467.1	9073.8	8978.3
25°	9831.4	8342.2	7630.9	7622.2	7960.5	9096.9	10062.7	10531.2	10129.2	9952.8
27.5°	10398.1	8654.5	7775.5	7804.4	8079.1	9334.0	10594.7	11216.4	10910.0	10693.1
30°	10895.5	8978.3	7977.9	7844.8	8397.1	9458.4	10823.2	11997.2	11751.4	11572.1
32.5°	11100.8	9438.1	8298.8	8079.1	8660.3	9608.8	11297.4	12754.8	12543.7	12101.2
35°	11447.8	9695.5	8472.3	8455.0	9120.1	9970.1	11520.1	13255.0	13168.3	12775.0
37.5°	11725.4	9955.7	9088.3	8897.4	9750.4	10577.4	11878.6	13946.1	13746.6	13561.5
40°	11939.3	10421.3	9663.7	9915.2	10525.4	11129.7	12208.3	13989.4	14564.9	14027.0
42.5°	11742.7	10837.6	10609.2	11210.7	11789.0	11760.0	12245.9	14324.9	14755.8	14475.3
45°	11693.5	11543.2	12104.2	12650.7	12783.7	12283.5	11976.9	13954.8	14697.9	14573.6
47.5°	11575.0	12237.1	13214.5	14105.2	13902.7	12633.3	11655.9	13888.3	14732.6	14509.9
50°	11534.5	12387.5	14035.7	14903.2	14781.8	12936.9	11505.6	13460.3	14486.8	14466.5
52.5°	11531.6	12696.9	14377.0	15337.0	15412.2	13417.0	11710.9	13677.2	14677.6	14848.3
55°	11661.7	12598.6	14333.6	15097.0	15068.0	13202.9	11734.1	13821.8	14911.9	15079.6
57.5°	10999.6	11285.9	11829.4	12433.8	12277.7	10935.9	10479.1	12777.9	13685.8	13564.4
60°	9498.8	8602.4	7989.4	7960.5	7656.9	7237.6	8576.4	11404.4	11404.4	11285.9
62.5°	8319.1	5647.2	4852.1	4626.5	4843.4	5326.3	8272.8	11092.1	10776.9	10641.0
65°	7275.2	4311.4	3507.5	3443.9	3819.7	4548.5	7480.5	9449.7	8894.5	8443.4
67.5°	4681.5	3157.6	2608.2	2495.4	2949.4	3339.8	4979.3	5812.1	5462.2	5285.8
70°	3018.8	2055.9	1451.6	1361.9	1538.4	2058.8	3180.7	3388.9	2880.0	2761.4
72.5°	1428.4	887.7	508.9	419.2	471.3	786.5	1257.8	1353.3	1124.8	1029.4
75°	454.0	326.7	208.2	179.3	170.6	202.4	289.1	222.6	161.9	159.0
77.5°	202.4	193.8	164.8	138.8	121.4	101.2	83.8	69.4	72.3	75.2
80°	167.7	153.2	135.9	121.4	101.2	78.0	60.7	46.3	46.3	49.2
82.5°	147.5	133.0	118.6	101.2	86.7	63.6	46.3	31.8	28.9	28.9
85°	63.6	75.2	81.0	86.7	69.4	52.1	31.8	20.3	17.3	17.3
87.5°	26.0	23.1	20.3	17.3	14.5	14.5	11.6	8.7	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)