

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: P654324

Luminaire Tested: **GLAN-SA4B-840-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P654324
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-SA4B-840-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 800mA 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: 14098.5 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 164
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

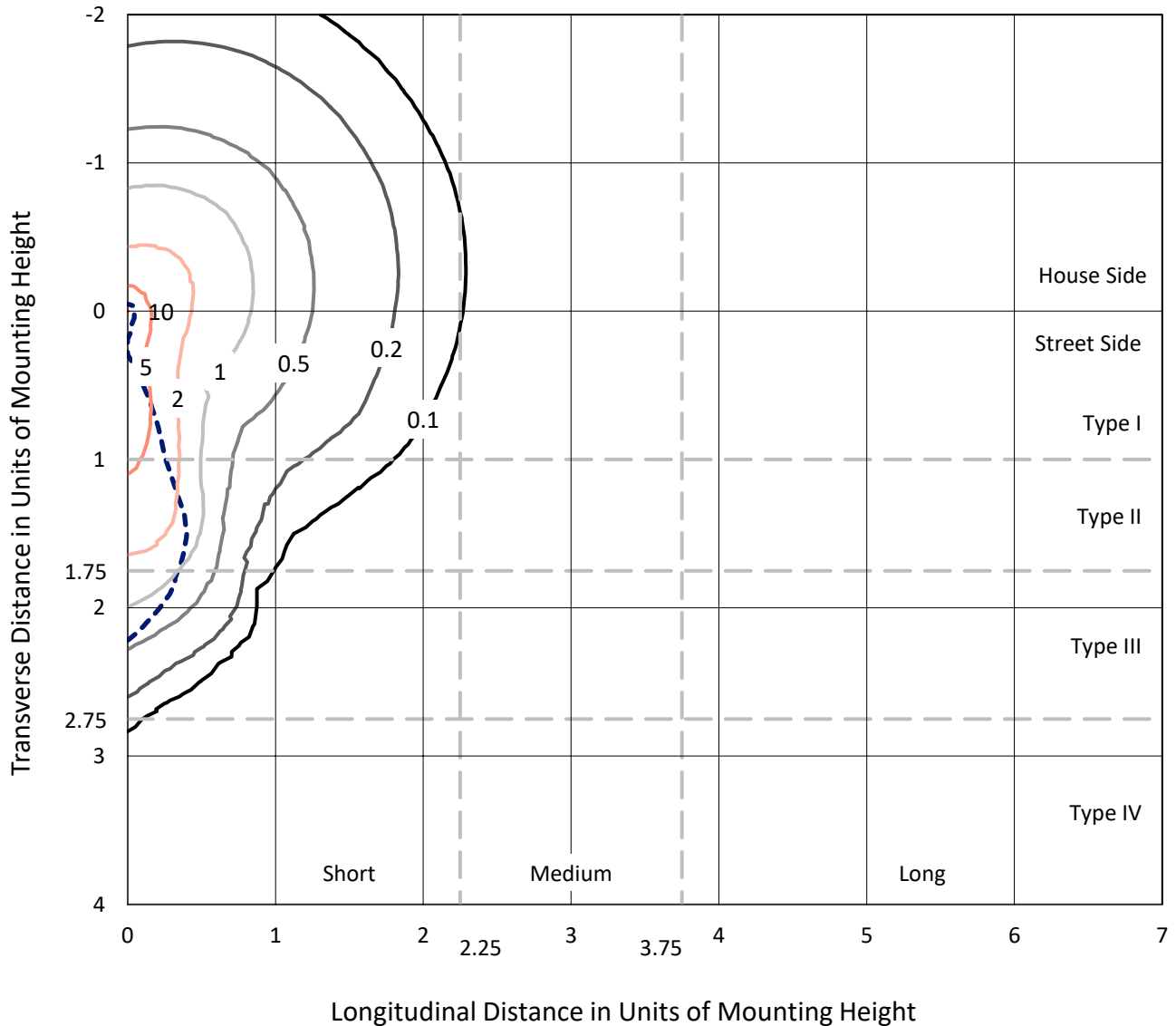




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Iso-Footcandle Lines of Horizontal Illumination

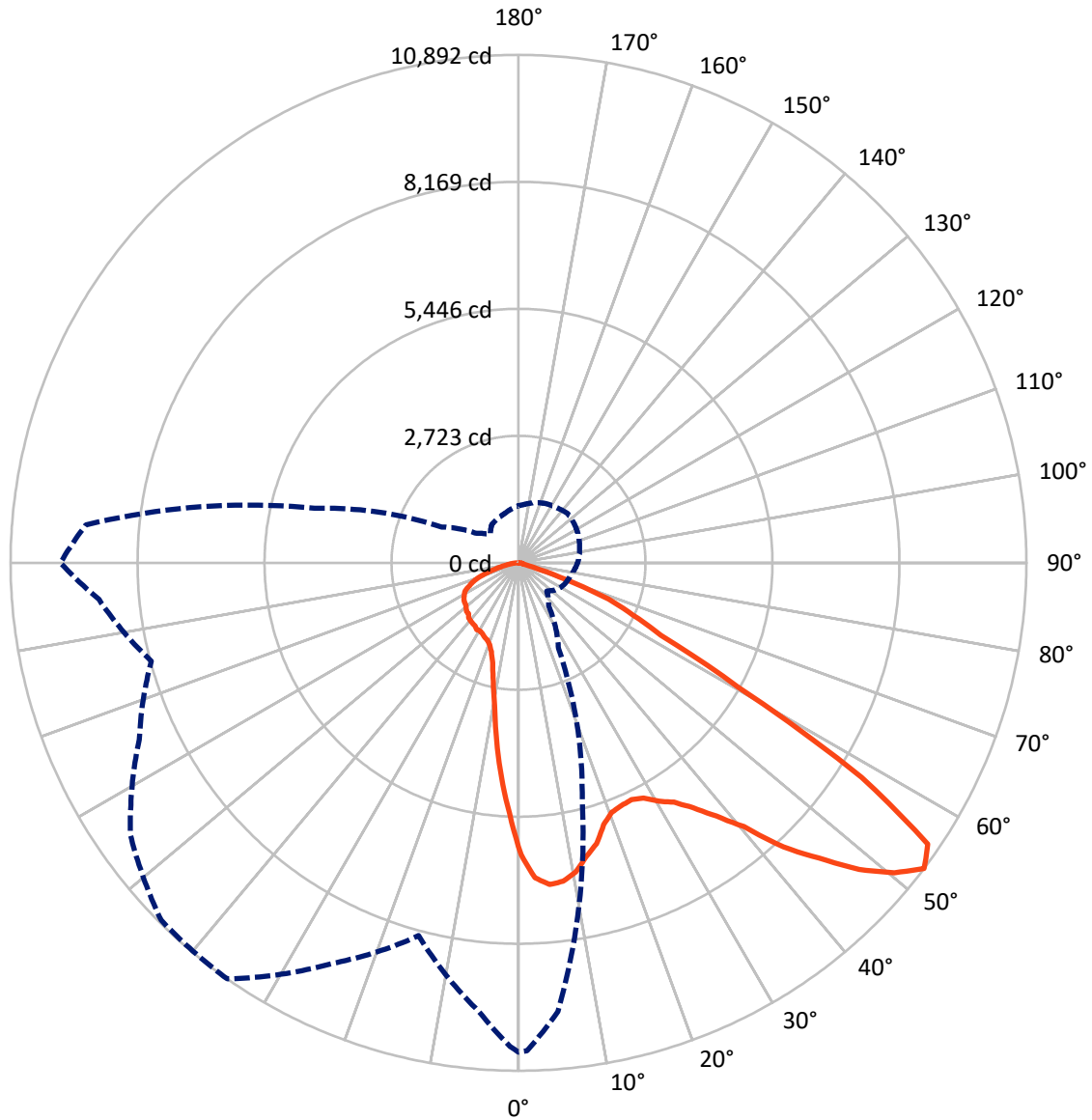
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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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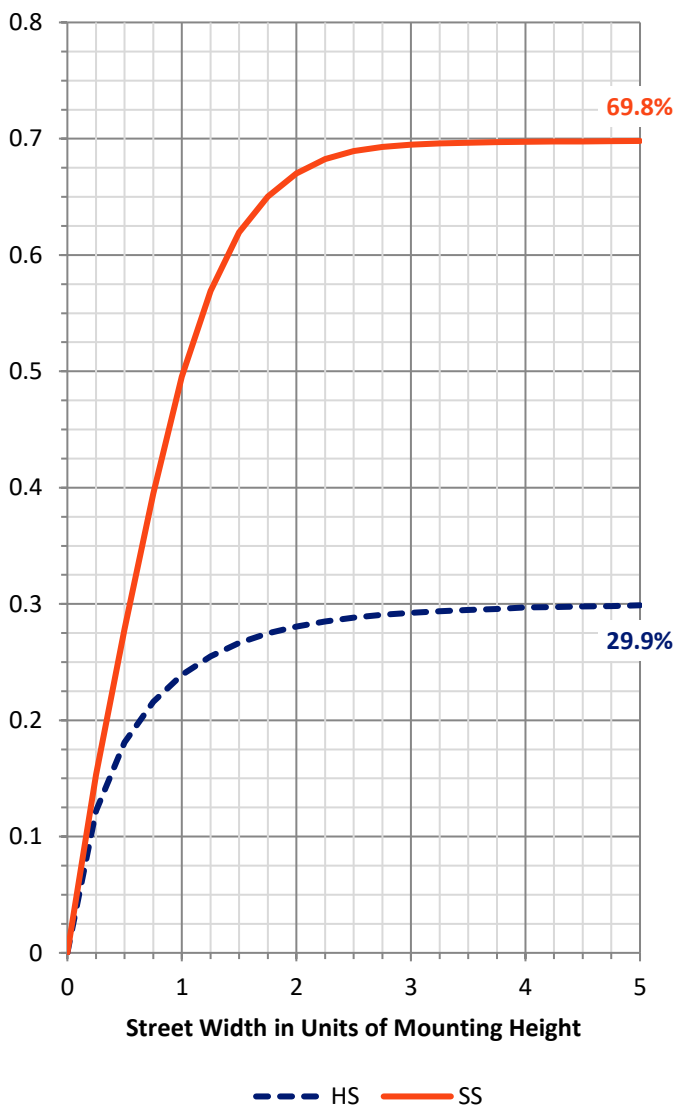
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4250.1	0.0	4250.1
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	9848.4	0.0	9848.4
	% Fixture	69.9	0.0	69.9
Total	Lumens	14098.5	0.0	14098.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.4	3.4
10°-20°	1034.8	7.3
20°-30°	1563.6	11.1
30°-40°	2259.4	16.0
40°-50°	3006.9	21.3
50°-60°	3363.2	23.9
60°-70°	1895.5	13.4
70°-80°	422.5	3.0
80°-90°	75.2	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°	14098.5	100.0
0°-180°	14098.5	100.0

Coefficient of Utilization



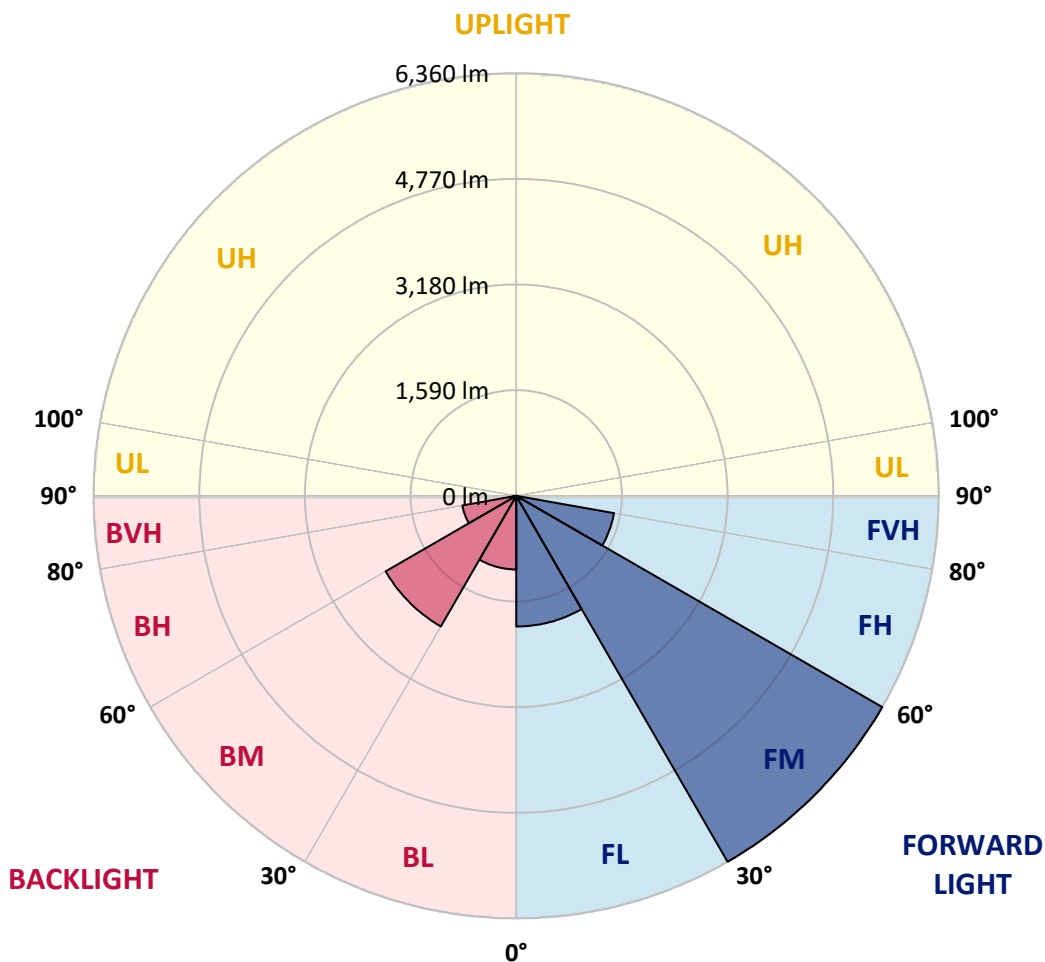
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1967.4	14.0			
FM (30°-60°)	6359.5	45.1			
FH (60°-80°)	1494.2	10.6			G1/1800
FVH (80°-90°)	27.2	0.2			G1/100
BL (0°-30°)	1108.3	7.9	B3/2500		
BM (30°-60°)	2270.0	16.1	B2/2500		
BH (60°-80°)	823.8	5.8	B2/1000		G2/1000
BVH (80°-90°)	48.0	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6257.0	6257.0	6257.0	6257.0	6257.0	6257.0	6257.0	6257.0	6257.0	6257.0	6257.0
2.5°	6361.2	6463.4	6353.1	6156.9	6017.9	5891.2	5758.4	5731.8	5558.2	5527.5	5400.8
5°	5999.5	5977.1	5842.2	5584.7	5300.7	5043.2	4853.2	4669.2	4544.6	4399.5	4389.3
7.5°	5560.2	5429.4	5351.8	4961.5	4610.0	4205.4	4031.7	3751.8	3663.9	3533.1	3465.7
10°	5167.9	5071.8	4889.9	4499.7	4009.2	3741.5	3555.6	3404.4	3302.2	3167.3	2997.7
12.5°	4973.8	4934.9	4730.5	4125.7	3762.0	3475.9	3345.1	3198.0	3024.3	2807.7	2723.9
15°	5008.5	4877.7	4722.4	4054.2	3551.5	3275.6	3067.2	2883.3	2660.6	2454.2	2333.6
17.5°	5268.0	5167.9	4857.3	4099.1	3471.8	3073.4	2695.3	2423.5	2223.3	2037.3	1953.6
20°	5778.8	5633.8	5284.3	4156.4	3300.2	2791.4	2358.2	2023.0	1808.4	1710.3	1681.7
22.5°	6344.8	6259.1	5701.2	4285.1	3163.3	2529.8	2000.5	1665.4	1585.7	1559.1	1612.3
25°	7033.5	6810.8	6349.0	4495.6	3057.0	2307.0	1698.1	1512.1	1471.2	1497.8	1559.1
27.5°	7556.6	7497.3	6802.6	4693.8	2911.9	2039.3	1528.5	1405.9	1418.2	1444.7	1501.9
30°	8177.9	7877.5	7241.9	4830.7	2781.1	1855.4	1409.9	1377.3	1389.5	1434.5	1463.1
32.5°	8551.8	8439.4	7517.8	5037.1	2629.9	1696.0	1318.0	1287.4	1305.7	1373.2	1440.6
35°	9027.9	8805.2	7859.1	5090.2	2523.7	1632.7	1252.7	1230.1	1273.0	1320.0	1395.6
37.5°	9583.7	9430.5	8331.1	5053.4	2466.4	1567.3	1197.4	1187.2	1217.9	1283.3	1371.2
40°	9912.7	9865.7	8578.4	5075.9	2376.5	1510.1	1134.1	1146.4	1209.7	1260.8	1346.6
42.5°	10229.4	9923.0	8944.1	5067.7	2319.3	1432.5	1140.2	1125.9	1175.0	1234.3	1316.0
45°	10299.0	9994.4	9030.0	5010.5	2249.8	1356.9	1093.2	1099.4	1158.6	1232.2	1285.3
47.5°	10254.0	10029.2	9189.4	4994.2	2184.4	1303.7	1023.7	1097.3	1132.1	1191.4	1267.0
50°	10223.4	10211.1	9324.3	5071.8	2096.5	1220.0	940.0	1070.8	1105.5	1164.8	1246.5
52.5°	10493.1	10466.5	9661.4	5276.2	2027.1	1130.1	854.1	1003.3	1087.1	1144.3	1224.0
55°	10656.6	10540.1	10239.7	5527.5	1910.6	1011.5	794.9	919.5	1042.2	1093.2	1175.0
57.5°	9585.8	9506.1	9262.9	5159.7	1714.5	856.2	721.3	833.7	980.9	1060.6	1144.3
60°	7975.5	7850.9	7227.6	4385.2	1264.9	666.2	676.4	766.3	964.5	995.2	1093.2
62.5°	7519.9	7211.3	6363.3	3529.0	970.6	572.1	606.9	705.0	878.7	929.7	1027.9
65°	5966.8	5738.0	4552.8	2548.1	649.8	496.5	553.8	635.5	758.1	858.2	948.1
67.5°	3735.4	3516.7	2429.6	1205.7	453.6	425.0	494.5	580.4	680.5	770.4	870.5
70°	1951.5	1712.4	1121.8	435.2	312.7	347.4	412.8	494.5	592.6	666.2	743.8
72.5°	727.5	590.6	365.8	188.0	216.6	265.7	335.1	394.3	463.9	553.8	596.7
75°	112.4	96.0	94.0	114.5	147.1	192.1	239.1	298.3	359.6	416.9	445.5
77.5°	53.2	51.0	57.2	75.6	98.1	136.9	173.7	230.9	280.0	316.7	333.1
80°	34.7	32.7	36.8	51.0	73.6	102.2	138.9	177.8	222.7	253.4	249.3
82.5°	20.4	22.5	22.5	34.7	51.0	73.6	100.2	134.9	165.5	192.1	175.8
85°	12.3	10.2	10.2	20.4	34.7	59.3	83.8	57.2	59.3	59.3	67.4
87.5°	4.1	4.1	4.1	2.0	4.1	4.1	6.1	10.2	12.3	14.3	18.4
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°	6257.0	6257.0	6257.0	6257.0	6257.0	6257.0	6257.0	6257.0	6257.0	6257.0	6257.0
2.5°	5396.7	5460.1	5437.6	5357.9	5419.2	5429.4	5388.5	5529.6	5556.2	5513.2	5525.5
5°	4375.0	4391.4	4428.1	4505.8	4561.0	4626.3	4626.3	4630.5	4575.3	4714.2	4673.4
7.5°	3408.5	3418.7	3461.6	3627.1	3674.1	3798.7	3851.9	3815.1	3704.8	3657.8	3696.6
10°	2942.6	2883.3	2869.0	2889.4	2995.6	3048.8	3093.8	3081.5	3063.1	3026.3	2985.5
12.5°	2631.9	2589.0	2554.3	2505.3	2511.4	2562.4	2597.2	2568.6	2576.7	2585.0	2597.2
15°	2294.8	2264.1	2245.7	2172.1	2164.0	2198.7	2211.0	2227.4	2258.0	2260.0	2245.7
17.5°	1937.2	1910.6	1951.5	1992.3	1963.7	1965.8	1988.3	2002.6	1994.4	1957.6	1939.3
20°	1692.0	1720.6	1761.5	1800.2	1830.9	1849.3	1857.5	1835.0	1808.4	1732.8	1730.8
22.5°	1620.4	1657.2	1692.0	1751.2	1779.8	1826.8	1783.9	1732.8	1696.0	1659.3	1616.4
25°	1567.3	1598.0	1667.5	1689.9	1745.1	1783.9	1753.2	1702.2	1638.9	1585.7	1553.0
27.5°	1528.5	1563.3	1608.2	1669.5	1712.4	1734.9	1704.2	1683.8	1618.4	1555.1	1508.1
30°	1504.0	1540.7	1622.5	1673.6	1710.3	1728.8	1675.6	1651.1	1604.1	1551.0	1510.1
32.5°	1487.6	1520.4	1589.8	1655.2	1679.7	1679.7	1687.9	1659.3	1593.9	1504.0	1469.2
35°	1434.5	1479.5	1536.7	1612.3	1657.2	1683.8	1642.9	1610.3	1567.3	1475.4	1412.0
37.5°	1403.9	1434.5	1508.1	1579.6	1618.4	1647.0	1630.7	1573.4	1516.2	1440.6	1389.5
40°	1371.2	1420.2	1485.5	1553.0	1596.0	1624.6	1612.3	1544.8	1475.4	1403.9	1369.1
42.5°	1348.7	1381.3	1448.8	1524.4	1575.5	1630.7	1593.9	1510.1	1461.1	1363.0	1324.2
45°	1330.3	1383.4	1454.9	1485.5	1538.7	1596.0	1530.5	1479.5	1422.2	1350.7	1318.0
47.5°	1307.8	1356.9	1403.9	1485.5	1510.1	1536.7	1524.4	1442.7	1393.6	1316.0	1293.5
50°	1299.6	1318.0	1403.9	1448.8	1483.5	1510.1	1477.4	1416.1	1369.1	1289.4	1240.4
52.5°	1267.0	1301.7	1356.9	1416.1	1459.1	1491.7	1438.6	1399.8	1336.4	1252.7	1222.0
55°	1226.1	1246.5	1344.6	1405.9	1428.4	1450.8	1430.4	1367.0	1301.7	1215.8	1185.2
57.5°	1172.9	1220.0	1299.6	1385.5	1414.1	1426.3	1393.6	1342.6	1260.8	1185.2	1136.2
60°	1117.8	1166.8	1254.7	1324.2	1352.7	1397.7	1348.7	1318.0	1224.0	1140.2	1087.1
62.5°	1062.6	1117.8	1183.1	1271.0	1295.6	1313.9	1301.7	1258.7	1183.1	1089.2	1023.7
65°	997.2	1038.0	1119.8	1164.8	1181.1	1224.0	1181.1	1164.8	1097.3	1007.4	952.3
67.5°	899.1	933.8	1005.3	1048.3	1060.6	1078.9	1076.9	1058.5	982.9	921.6	872.5
70°	786.8	817.4	862.4	913.4	919.5	942.0	921.6	917.5	868.5	784.7	758.1
72.5°	631.4	660.0	719.3	741.8	743.8	752.0	741.8	727.5	715.2	627.3	600.8
75°	484.3	500.6	529.2	549.7	549.7	559.9	553.8	539.5	506.8	451.6	425.0
77.5°	337.2	353.6	390.3	402.6	400.5	404.6	386.2	371.9	322.9	294.3	271.8
80°	245.2	255.4	273.8	282.0	284.0	290.1	267.7	255.4	226.8	194.1	183.9
82.5°	177.8	183.9	185.9	196.2	196.2	185.9	179.8	167.5	147.1	126.7	118.5
85°	73.6	75.6	77.6	89.9	91.9	110.3	102.2	96.0	83.8	71.5	65.4
87.5°	18.4	20.4	26.6	22.5	26.6	26.6	28.6	32.7	32.7	26.6	26.6
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°	6257.0	6257.0	6257.0	6257.0	6257.0	6257.0	6257.0	6257.0	6257.0	6257.0	6257.0
2.5°	5572.5	5588.8	5797.3	5823.8	5925.9	6030.2	6240.6	6391.9	6514.5	6594.2	6616.7
5°	4716.2	4820.4	4916.5	5071.8	5212.9	5413.1	5644.0	5930.1	6289.7	6473.6	6547.2
7.5°	3692.5	3815.1	3954.0	4105.3	4311.6	4671.3	4979.9	5310.9	5770.7	5960.7	6248.8
10°	3014.1	3151.0	3334.9	3451.4	3700.7	4043.9	4403.6	4785.7	5225.0	5498.9	5832.0
12.5°	2664.6	2777.1	2946.6	3191.8	3377.8	3600.6	3868.3	4350.5	4979.9	5239.3	5468.3
15°	2278.4	2403.1	2599.3	2871.0	3093.8	3359.4	3659.8	4185.0	4855.2	5255.7	5449.8
17.5°	1959.7	2049.6	2256.0	2491.0	2746.4	3036.5	3467.7	4176.8	4986.0	5498.9	5815.6
20°	1738.9	1751.2	1863.7	2063.9	2411.2	2789.3	3349.2	4136.0	5404.9	5917.8	6318.3
22.5°	1600.0	1587.7	1589.8	1759.4	2002.6	2546.1	3163.3	4274.9	5881.0	6583.9	6853.7
25°	1530.5	1497.8	1477.4	1514.2	1734.9	2258.0	3022.2	4458.8	6394.0	7133.6	7464.7
27.5°	1493.8	1436.5	1395.6	1401.8	1563.3	2112.9	2934.4	4538.5	6902.8	7899.9	8016.4
30°	1479.5	1407.9	1348.7	1328.3	1434.5	1910.6	2746.4	4675.4	7358.4	8320.9	8421.0
32.5°	1428.4	1340.5	1283.3	1264.9	1307.8	1732.8	2611.6	4773.5	7761.0	8778.6	8743.9
35°	1369.1	1295.6	1224.0	1189.3	1220.0	1618.4	2503.2	4726.5	8235.1	9134.2	9115.8
37.5°	1363.0	1267.0	1207.7	1150.5	1148.4	1477.4	2356.1	4771.4	8537.5	9771.7	9520.4
40°	1309.9	1248.5	1170.9	1123.9	1097.3	1405.9	2213.0	4665.2	8981.0	10029.2	9781.9
42.5°	1311.9	1220.0	1152.5	1097.3	1070.8	1301.7	2114.9	4636.6	9136.2	10448.1	9904.5
45°	1279.2	1189.3	1132.1	1066.6	1052.3	1222.0	2020.9	4503.7	9410.0	10468.5	9751.3
47.5°	1246.5	1166.8	1105.5	1027.9	995.2	1193.4	1947.4	4393.4	9267.0	10276.4	9538.8
50°	1224.0	1132.1	1074.9	1019.7	927.7	1144.3	1851.4	4366.8	9066.7	10016.9	9144.4
52.5°	1185.2	1103.5	1044.2	1001.3	854.1	1099.4	1814.5	4522.1	9312.0	9822.8	9030.0
55°	1148.4	1064.6	989.0	905.3	792.9	980.9	1712.4	4667.2	9669.6	10270.3	9549.0
57.5°	1109.6	1029.9	948.1	848.1	733.6	858.2	1606.1	4693.8	8999.3	9491.8	9064.7
60°	1058.5	956.3	895.0	764.2	670.3	711.1	1273.0	4138.0	6980.4	7926.5	7940.8
62.5°	1001.3	891.0	837.8	684.6	604.8	613.0	1038.0	3478.0	5662.4	6561.5	6951.8
65°	925.7	819.4	756.1	633.4	557.8	531.3	760.2	2548.1	4301.5	5323.2	5766.6
67.5°	827.6	727.5	647.7	551.7	498.6	455.7	519.1	1434.5	2540.0	3574.0	3708.8
70°	723.3	637.6	553.8	474.1	414.8	384.2	380.0	635.5	1213.8	1922.9	2188.5
72.5°	570.1	508.8	441.4	382.2	343.3	298.3	271.8	263.6	410.7	782.6	1081.0
75°	408.7	357.6	318.7	280.0	251.4	226.8	206.4	188.0	171.6	196.2	269.7
77.5°	257.5	239.1	208.4	198.2	181.8	175.8	167.5	157.4	145.1	136.9	136.9
80°	173.7	161.5	151.2	149.2	143.1	141.0	143.1	132.8	120.6	110.3	114.5
82.5°	116.5	114.5	112.4	110.3	112.4	114.5	118.5	116.5	106.2	100.2	102.2
85°	69.5	73.6	77.6	81.7	89.9	79.7	65.4	55.2	49.0	45.0	42.9
87.5°	26.6	36.8	32.7	30.6	32.7	30.6	28.6	26.6	22.5	20.4	20.4
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: P654324

CATALOG NUMBER: GLAN-SA4B-840-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6257.0	6257.0	6257.0	6257.0	6257.0	6257.0	6257.0	6257.0	6257.0	6257.0
2.5°	6765.8	6806.7	6841.5	6833.3	6761.7	6665.7	6626.9	6428.7	6387.8	6361.2
5°	6857.8	7094.8	7145.9	7115.3	6929.3	6694.3	6465.4	6175.3	6005.7	5999.5
7.5°	6688.1	6980.4	7072.3	7141.9	6894.6	6485.9	6093.5	5658.2	5552.0	5560.2
10°	6257.0	6723.0	6949.8	7021.3	6737.3	6383.7	5840.2	5398.8	5172.0	5167.9
12.5°	6017.9	6383.7	6447.0	6547.2	6463.4	6105.8	5693.0	5198.5	4977.8	4973.8
15°	5805.4	6046.5	6065.0	6205.9	6250.9	6009.8	5731.8	5204.6	5026.8	5008.5
17.5°	5991.4	5823.8	5754.3	5772.7	5905.5	5993.4	5956.6	5552.0	5370.1	5268.0
20°	6116.0	5742.1	5531.6	5552.0	5709.4	6030.2	6291.8	6054.7	5766.6	5778.8
22.5°	6449.1	5754.3	5425.3	5402.8	5652.2	6222.3	6669.8	6690.2	6412.3	6344.8
25°	6947.7	5895.3	5392.7	5386.5	5625.6	6428.7	7111.2	7442.2	7158.2	7033.5
27.5°	7348.2	6116.0	5494.8	5515.3	5709.4	6596.2	7487.2	7926.5	7709.9	7556.6
30°	7699.7	6344.8	5637.8	5543.9	5934.2	6684.1	7648.6	8478.2	8304.5	8177.9
32.5°	7844.8	6669.8	5864.6	5709.4	6120.1	6790.3	7983.7	9013.6	8864.5	8551.8
35°	8090.0	6851.6	5987.2	5975.1	6445.0	7045.8	8141.0	9367.1	9305.8	9027.9
37.5°	8286.1	7035.6	6422.5	6287.7	6890.5	7474.9	8394.4	9855.5	9714.5	9583.7
40°	8437.3	7364.6	6829.2	7007.0	7438.1	7865.2	8627.4	9886.1	10292.8	9912.7
42.5°	8298.4	7658.8	7497.3	7922.4	8331.1	8310.7	8654.0	10123.2	10427.6	10229.4
45°	8263.7	8157.4	8553.8	8940.1	9034.0	8680.5	8463.9	9861.7	10386.8	10299.0
47.5°	8179.9	8647.8	9338.5	9967.9	9824.9	8927.8	8237.1	9814.6	10411.3	10254.0
50°	8151.3	8754.1	9918.8	10531.9	10446.1	9142.3	8130.9	9512.2	10237.7	10223.4
52.5°	8149.2	8972.7	10160.0	10838.4	10891.5	9481.5	8275.9	9665.4	10372.5	10493.1
55°	8241.2	8903.2	10129.3	10668.8	10648.3	9330.3	8292.3	9767.6	10538.0	10656.6
57.5°	7773.3	7975.5	8359.7	8786.8	8676.4	7728.3	7405.4	9030.0	9671.6	9585.8
60°	6712.7	6079.3	5646.1	5625.6	5411.0	5114.7	6060.8	8059.3	8059.3	7975.5
62.5°	5879.0	3990.8	3428.9	3269.5	3422.8	3764.0	5846.3	7838.6	7615.9	7519.9
65°	5141.3	3046.8	2478.7	2433.8	2699.4	3214.3	5286.4	6678.0	6285.6	5966.8
67.5°	3308.3	2231.4	1843.2	1763.5	2084.3	2360.2	3518.8	4107.3	3860.0	3735.4
70°	2133.4	1452.9	1025.8	962.4	1087.1	1454.9	2247.8	2394.9	2035.3	1951.5
72.5°	1009.5	627.3	359.6	296.3	333.1	555.8	888.9	956.3	794.9	727.5
75°	320.8	230.9	147.1	126.7	120.6	143.1	204.4	157.4	114.5	112.4
77.5°	143.1	136.9	116.5	98.1	85.9	71.5	59.3	49.0	51.0	53.2
80°	118.5	108.3	96.0	85.9	71.5	55.2	42.9	32.7	32.7	34.7
82.5°	104.2	94.0	83.8	71.5	61.3	45.0	32.7	22.5	20.4	20.4
85°	45.0	53.2	57.2	61.3	49.0	36.8	22.5	14.3	12.3	12.3
87.5°	18.4	16.3	14.3	12.3	10.2	10.2	8.2	6.1	4.1	4.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)