

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: P528914

Luminaire Tested: **GLAN-SA4A-735-U-SLR-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528914  
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-SA4A-735-U-SLR-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 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: 12551 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

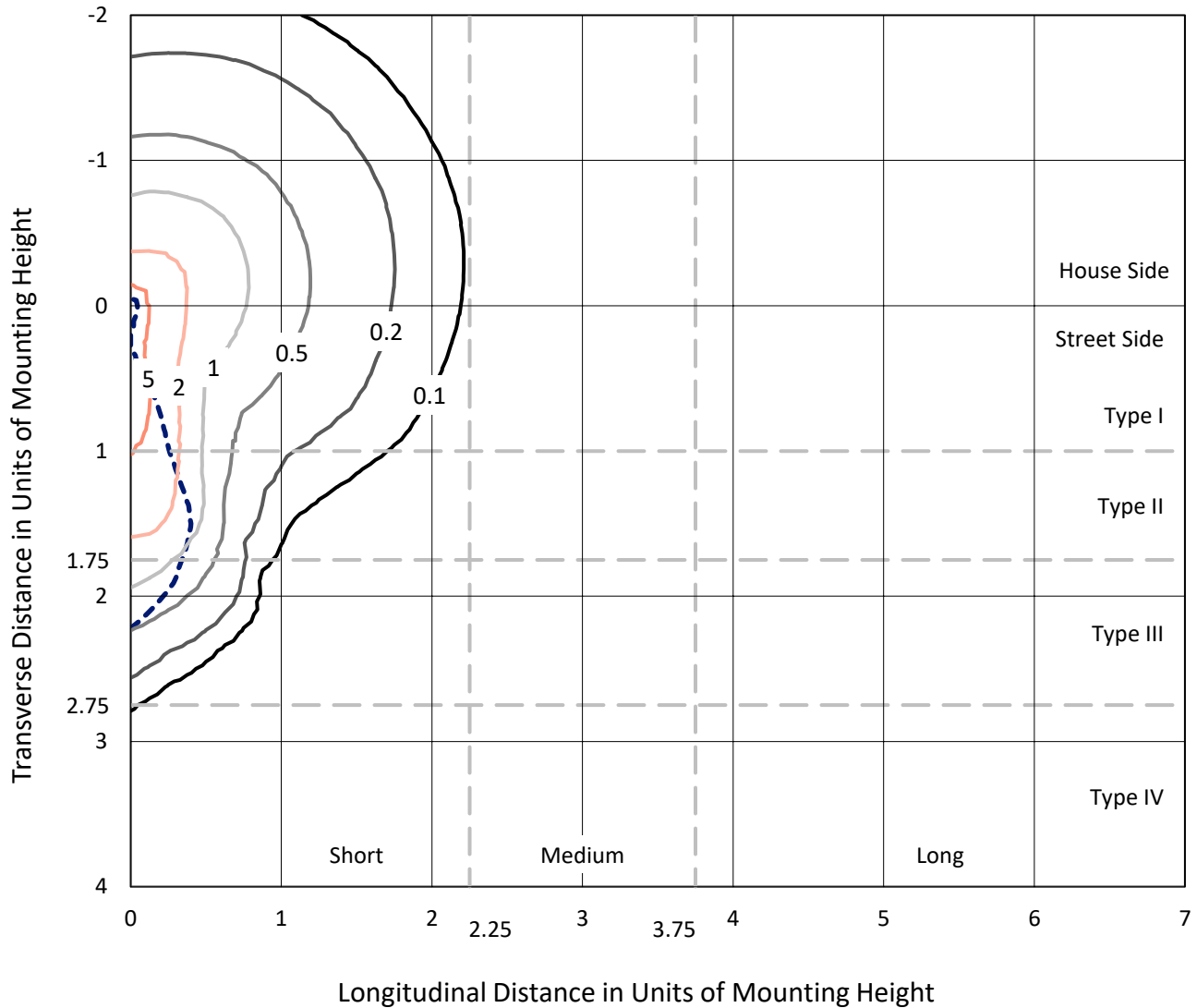
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

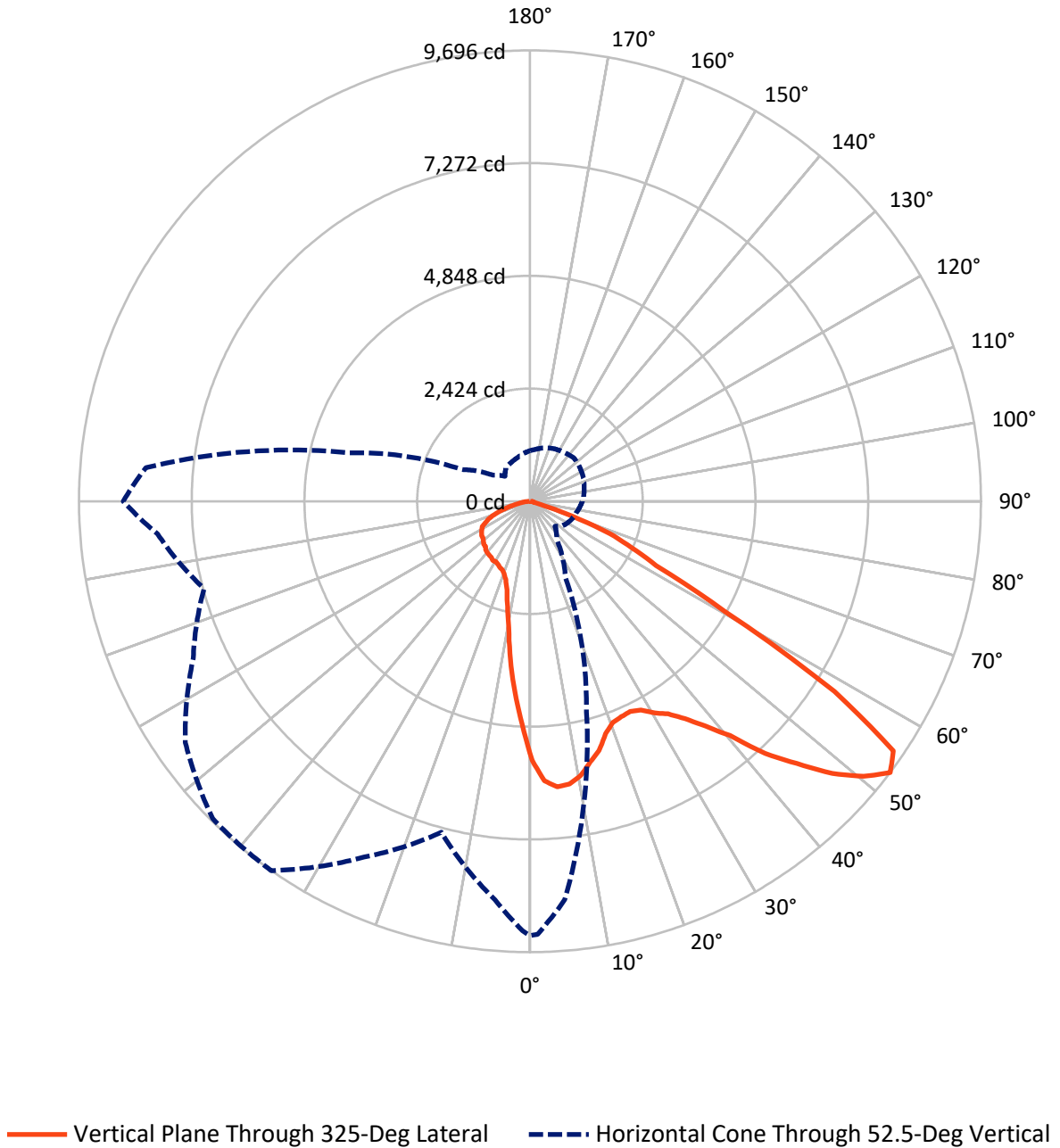
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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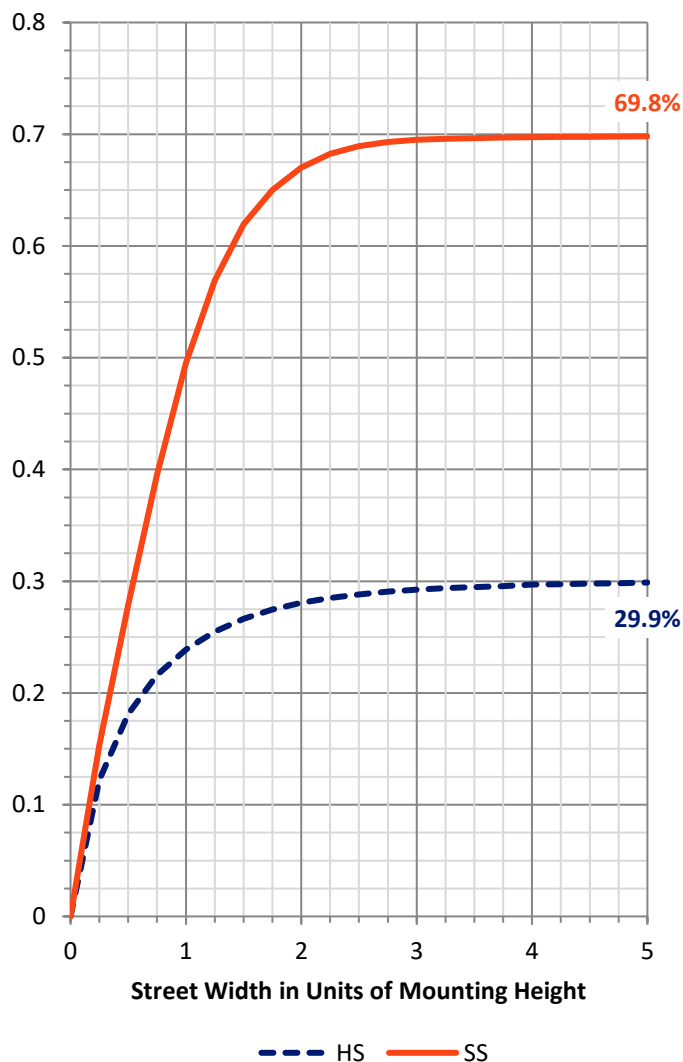
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3783.6	0.0	3783.6
	% Fixture	30.1	0.0	30.1
<b>Street Side</b>	Lumens	8767.4	0.0	8767.4
	% Fixture	69.9	0.0	69.9
<b>Total</b>	Lumens	12551.0	0.0	12551.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	425.0	3.4
10°-20°	921.2	7.3
20°-30°	1391.9	11.1
30°-40°	2011.4	16.0
40°-50°	2676.8	21.3
50°-60°	2994.1	23.9
60°-70°	1687.4	13.4
70°-80°	376.2	3.0
80°-90°	67.0	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°	12551.0	100.0
0°-180°	12551.0	100.0

**Coefficient of Utilization**



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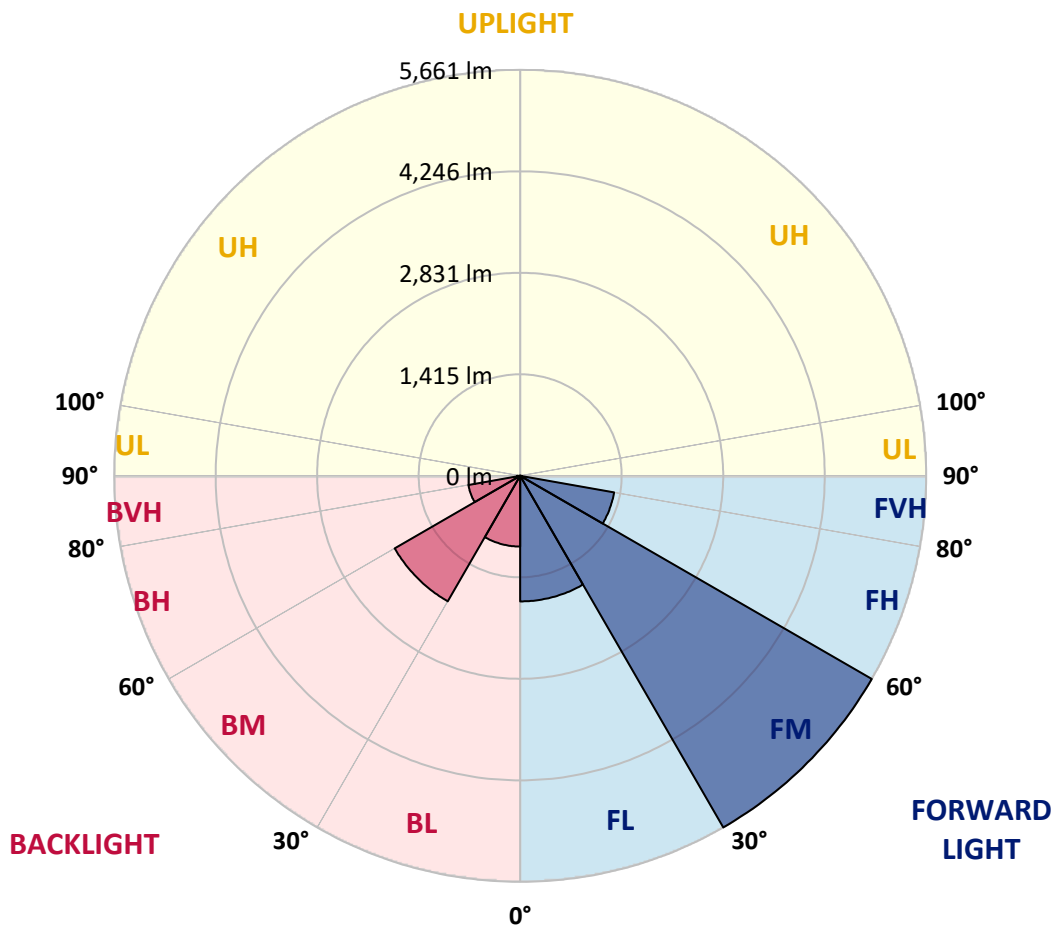
CATALOG NUMBER: GLAN-SA4A-735-U-SLR-GRSWH

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1751.5	14.0			
FM (30°-60°)	5661.5	45.1			
FH (60°-80°)	1330.2	10.6			G1/1800
FVH (80°-90°)	24.3	0.2			G1/100
BL (0°-30°)	986.7	7.9	B2/1000		
BM (30°-60°)	2020.8	16.1	B2/2500		
BH (60°-80°)	733.4	5.8	B2/1000		G2/1000
BVH (80°-90°)	42.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5570.2	5570.2	5570.2	5570.2	5570.2	5570.2	5570.2	5570.2	5570.2	5570.2	5570.2
2.5°	5663.0	5753.9	5655.7	5481.1	5357.4	5244.6	5126.3	5102.7	4948.1	4920.8	4808.0
5°	5341.0	5321.0	5200.9	4971.7	4718.9	4489.6	4320.5	4156.7	4045.8	3916.6	3907.5
7.5°	4949.9	4833.5	4764.3	4416.9	4104.0	3743.8	3589.2	3339.9	3261.7	3145.3	3085.3
10°	4600.6	4515.1	4353.2	4005.7	3569.2	3330.8	3165.3	3030.7	2939.7	2819.7	2668.7
12.5°	4427.8	4393.2	4211.3	3672.8	3349.0	3094.4	2977.9	2847.0	2692.3	2499.5	2424.9
15°	4458.7	4342.3	4204.0	3609.2	3161.7	2916.1	2730.5	2566.8	2368.5	2184.8	2077.5
17.5°	4689.7	4600.6	4324.1	3649.2	3090.7	2736.0	2399.4	2157.5	1979.2	1813.7	1739.1
20°	5144.5	5015.4	4704.3	3700.1	2937.9	2484.9	2099.3	1800.9	1609.9	1522.6	1497.2
22.5°	5648.4	5572.0	5075.4	3814.7	2816.0	2252.1	1780.9	1482.6	1411.7	1388.0	1435.3
25°	6261.5	6063.2	5652.1	4002.1	2721.4	2053.8	1511.7	1346.2	1309.8	1333.4	1388.0
27.5°	6727.2	6674.4	6055.9	4178.6	2592.3	1815.5	1360.7	1251.6	1262.5	1286.1	1337.1
30°	7280.2	7012.8	6447.0	4300.5	2475.9	1651.8	1255.2	1226.1	1237.0	1277.0	1302.5
32.5°	7613.1	7513.1	6692.6	4484.2	2341.2	1509.9	1173.3	1146.1	1162.4	1222.5	1282.5
35°	8037.0	7838.7	6996.4	4531.5	2246.6	1453.5	1115.1	1095.1	1133.3	1175.2	1242.5
37.5°	8531.8	8395.3	7416.6	4498.7	2195.7	1395.3	1066.0	1056.9	1084.2	1142.4	1220.6
40°	8824.7	8782.8	7636.8	4518.7	2115.7	1344.3	1009.6	1020.5	1076.9	1122.4	1198.8
42.5°	9106.6	8833.8	7962.4	4511.5	2064.7	1275.2	1015.1	1002.3	1046.0	1098.8	1171.5
45°	9168.5	8897.4	8038.8	4460.5	2002.9	1207.9	973.2	978.7	1031.5	1096.9	1144.2
47.5°	9128.5	8928.3	8180.7	4446.0	1944.7	1160.6	911.4	976.9	1007.8	1060.6	1127.9
50°	9101.2	9090.2	8300.7	4515.1	1866.4	1086.0	836.8	953.2	984.2	1036.9	1109.7
52.5°	9341.3	9317.6	8600.9	4697.0	1804.6	1006.0	760.4	893.2	967.8	1018.7	1089.7
55°	9486.8	9383.1	9115.7	4920.8	1700.9	900.5	707.6	818.6	927.8	973.2	1046.0
57.5°	8533.6	8462.6	8246.2	4593.3	1526.3	762.2	642.2	742.2	873.2	944.1	1018.7
60°	7100.1	6989.1	6434.3	3903.9	1126.0	593.0	602.1	682.2	858.6	885.9	973.2
62.5°	6694.4	6419.7	5664.8	3141.7	864.1	509.4	540.3	627.6	782.2	827.7	915.0
65°	5311.9	5108.1	4053.0	2268.5	578.5	442.1	493.0	565.8	674.9	764.0	844.1
67.5°	3325.4	3130.7	2163.0	1073.3	403.8	378.4	440.2	516.6	605.8	685.8	775.0
70°	1737.3	1524.4	998.7	387.5	278.3	309.3	367.5	440.2	527.6	593.0	662.2
72.5°	647.6	525.7	325.6	167.4	192.8	236.5	298.3	351.1	412.9	493.0	531.2
75°	100.1	85.5	83.7	101.9	131.0	171.0	212.8	265.6	320.2	371.1	396.6
77.5°	47.3	45.5	50.9	67.3	87.3	121.9	154.6	205.6	249.2	282.0	296.5
80°	30.9	29.1	32.7	45.5	65.5	91.0	123.7	158.3	198.3	225.6	221.9
82.5°	18.2	20.0	20.0	30.9	45.5	65.5	89.1	120.1	147.4	171.0	156.4
85°	10.9	9.1	9.1	18.2	30.9	52.8	74.6	50.9	52.8	52.8	60.0
87.5°	3.6	3.6	3.6	1.8	3.6	3.6	5.5	9.1	10.9	12.7	16.4
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°	5570.2	5570.2	5570.2	5570.2	5570.2	5570.2	5570.2	5570.2	5570.2	5570.2	5570.2
2.5°	4804.4	4860.7	4840.7	4769.8	4824.4	4833.5	4797.1	4922.6	4946.2	4908.0	4919.0
5°	3894.8	3909.3	3942.1	4011.2	4060.3	4118.5	4118.5	4122.2	4073.1	4196.8	4160.4
7.5°	3034.3	3043.4	3081.6	3229.0	3270.8	3381.8	3429.1	3396.3	3298.1	3256.3	3290.8
10°	2619.6	2566.8	2554.1	2572.3	2666.9	2714.2	2754.2	2743.3	2726.9	2694.1	2657.8
12.5°	2343.1	2304.9	2273.9	2230.3	2235.7	2281.2	2312.1	2286.7	2293.9	2301.2	2312.1
15°	2042.9	2015.6	1999.2	1933.7	1926.5	1957.4	1968.3	1982.9	2010.2	2012.0	1999.2
17.5°	1724.5	1700.9	1737.3	1773.7	1748.2	1750.0	1770.0	1782.8	1775.5	1742.7	1726.4
20°	1506.2	1531.7	1568.1	1602.7	1630.0	1646.3	1653.6	1633.6	1609.9	1542.6	1540.8
22.5°	1442.6	1475.3	1506.2	1559.0	1584.5	1626.3	1588.1	1542.6	1509.9	1477.1	1438.9
25°	1395.3	1422.6	1484.4	1504.4	1553.5	1588.1	1560.8	1515.3	1459.0	1411.7	1382.5
27.5°	1360.7	1391.6	1431.7	1486.2	1524.4	1544.5	1517.2	1499.0	1440.8	1384.4	1342.5
30°	1338.9	1371.6	1444.4	1489.9	1522.6	1539.0	1491.7	1469.9	1428.0	1380.7	1344.3
32.5°	1324.3	1353.4	1415.3	1473.5	1495.3	1495.3	1502.6	1477.1	1418.9	1338.9	1308.0
35°	1277.0	1317.1	1368.0	1435.3	1475.3	1499.0	1462.6	1433.5	1395.3	1313.4	1257.0
37.5°	1249.8	1277.0	1342.5	1406.2	1440.8	1466.2	1451.7	1400.7	1349.8	1282.5	1237.0
40°	1220.6	1264.3	1322.5	1382.5	1420.7	1446.2	1435.3	1375.3	1313.4	1249.8	1218.8
42.5°	1200.6	1229.7	1289.8	1357.1	1402.6	1451.7	1418.9	1344.3	1300.7	1213.4	1178.8
45°	1184.3	1231.6	1295.2	1322.5	1369.8	1420.7	1362.5	1317.1	1266.1	1202.5	1173.3
47.5°	1164.3	1207.9	1249.8	1322.5	1344.3	1368.0	1357.1	1284.3	1240.7	1171.5	1151.5
50°	1157.0	1173.3	1249.8	1289.8	1320.7	1344.3	1315.2	1260.7	1218.8	1147.9	1104.2
52.5°	1127.9	1158.8	1207.9	1260.7	1298.9	1328.0	1280.7	1246.1	1189.7	1115.1	1087.8
55°	1091.5	1109.7	1197.0	1251.6	1271.6	1291.6	1273.4	1217.0	1158.8	1082.4	1055.1
57.5°	1044.2	1086.0	1157.0	1233.4	1258.8	1269.8	1240.7	1195.2	1122.4	1055.1	1011.4
60°	995.1	1038.7	1117.0	1178.8	1204.3	1244.3	1200.6	1173.3	1089.7	1015.1	967.8
62.5°	946.0	995.1	1053.3	1131.5	1153.3	1169.7	1158.8	1120.6	1053.3	969.6	911.4
65°	887.7	924.1	996.9	1036.9	1051.5	1089.7	1051.5	1036.9	976.9	896.8	847.7
67.5°	800.4	831.3	895.0	933.2	944.1	960.5	958.7	942.3	875.0	820.4	776.8
70°	700.4	727.7	767.7	813.2	818.6	838.6	820.4	816.8	773.1	698.6	674.9
72.5°	562.1	587.6	640.3	660.3	662.2	669.4	660.3	647.6	636.7	558.5	534.8
75°	431.1	445.7	471.2	489.3	489.3	498.4	493.0	480.3	451.1	402.0	378.4
77.5°	300.2	314.7	347.5	358.4	356.6	360.2	343.8	331.1	287.4	262.0	241.9
80°	218.3	227.4	243.8	251.0	252.9	258.3	238.3	227.4	201.9	172.8	163.7
82.5°	158.3	163.7	165.5	174.6	174.6	165.5	160.1	149.2	131.0	112.8	105.5
85°	65.5	67.3	69.1	80.0	81.9	98.2	91.0	85.5	74.6	63.7	58.2
87.5°	16.4	18.2	23.6	20.0	23.6	23.6	25.5	29.1	29.1	23.6	23.6
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°	5570.2	5570.2	5570.2	5570.2	5570.2	5570.2	5570.2	5570.2	5570.2	5570.2	5570.2
2.5°	4960.8	4975.4	5160.9	5184.6	5275.5	5368.3	5555.7	5690.3	5799.4	5870.4	5890.4
5°	4198.6	4291.4	4376.9	4515.1	4640.6	4818.9	5024.5	5279.1	5599.3	5763.0	5828.5
7.5°	3287.2	3396.3	3520.0	3654.7	3838.4	4158.6	4433.2	4727.9	5137.3	5306.4	5562.9
10°	2683.2	2805.1	2968.8	3072.5	3294.5	3600.1	3920.2	4260.4	4651.5	4895.3	5191.8
12.5°	2372.2	2472.2	2623.2	2841.5	3007.0	3205.3	3443.6	3873.0	4433.2	4664.3	4868.0
15°	2028.3	2139.3	2313.9	2555.9	2754.2	2990.7	3258.1	3725.6	4322.3	4678.8	4851.7
17.5°	1744.6	1824.6	2008.3	2217.5	2444.9	2703.2	3087.1	3718.3	4438.7	4895.3	5177.3
20°	1548.1	1559.0	1659.1	1837.3	2146.6	2483.1	2981.6	3681.9	4811.6	5268.2	5624.8
22.5°	1424.4	1413.5	1415.3	1566.3	1782.8	2266.7	2816.0	3805.6	5235.5	5861.3	6101.4
25°	1362.5	1333.4	1315.2	1348.0	1544.5	2010.2	2690.5	3969.4	5692.1	6350.6	6645.3
27.5°	1329.8	1278.9	1242.5	1247.9	1391.6	1881.0	2612.3	4040.3	6145.1	7032.8	7136.5
30°	1317.1	1253.4	1200.6	1182.4	1277.0	1700.9	2444.9	4162.2	6550.7	7407.5	7496.7
32.5°	1271.6	1193.4	1142.4	1126.0	1164.3	1542.6	2324.9	4249.5	6909.1	7815.0	7784.1
35°	1218.8	1153.3	1089.7	1058.7	1086.0	1440.8	2228.4	4207.7	7331.1	8131.6	8115.2
37.5°	1213.4	1127.9	1075.1	1024.2	1022.4	1315.2	2097.5	4247.7	7600.4	8699.1	8475.4
40°	1166.1	1111.5	1042.4	1000.5	976.9	1251.6	1970.1	4153.1	7995.1	8928.3	8708.2
42.5°	1167.9	1086.0	1026.0	976.9	953.2	1158.8	1882.8	4127.6	8133.4	9301.3	8817.4
45°	1138.8	1058.7	1007.8	949.6	936.9	1087.8	1799.1	4009.4	8377.1	9319.5	8680.9
47.5°	1109.7	1038.7	984.2	915.0	885.9	1062.4	1733.6	3911.2	8249.8	9148.5	8491.8
50°	1089.7	1007.8	956.9	907.8	825.9	1018.7	1648.1	3887.5	8071.5	8917.4	8140.7
52.5°	1055.1	982.3	929.6	891.4	760.4	978.7	1615.4	4025.8	8289.8	8744.6	8038.8
55°	1022.4	947.8	880.5	805.9	705.8	873.2	1524.4	4154.9	8608.2	9143.0	8500.8
57.5°	987.8	916.8	844.1	754.9	653.1	764.0	1429.8	4178.6	8011.5	8449.9	8069.7
60°	942.3	851.4	796.8	680.4	596.7	633.1	1133.3	3683.8	6214.2	7056.4	7069.2
62.5°	891.4	793.1	745.8	609.4	538.5	545.7	924.1	3096.2	5040.8	5841.3	6188.7
65°	824.1	729.5	673.1	563.9	496.6	473.0	676.7	2268.5	3829.3	4738.9	5133.6
67.5°	736.8	647.6	576.7	491.2	443.9	405.7	462.1	1277.0	2261.2	3181.7	3301.7
70°	644.0	567.6	493.0	422.0	369.3	342.0	338.4	565.8	1080.6	1711.8	1948.3
72.5°	507.5	453.0	392.9	340.2	305.6	265.6	241.9	234.7	365.6	696.7	962.3
75°	363.8	318.3	283.8	249.2	223.8	201.9	183.7	167.4	152.8	174.6	240.1
77.5°	229.2	212.8	185.6	176.5	161.9	156.4	149.2	140.1	129.2	121.9	121.9
80°	154.6	143.7	134.6	132.8	127.3	125.5	127.3	118.2	107.3	98.2	101.9
82.5°	103.7	101.9	100.1	98.2	100.1	101.9	105.5	103.7	94.6	89.1	91.0
85°	61.9	65.5	69.1	72.8	80.0	70.9	58.2	49.1	43.7	40.0	38.2
87.5°	23.6	32.7	29.1	27.3	29.1	27.3	25.5	23.6	20.0	18.2	18.2
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: P528914

CATALOG NUMBER: GLAN-SA4A-735-U-SLR-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5570.2	5570.2	5570.2	5570.2	5570.2	5570.2	5570.2	5570.2	5570.2	5570.2
2.5°	6023.2	6059.6	6090.5	6083.2	6019.5	5934.0	5899.5	5723.0	5686.6	5663.0
5°	6105.0	6316.1	6361.5	6334.3	6168.7	5959.5	5755.8	5497.4	5346.5	5341.0
7.5°	5954.0	6214.2	6296.0	6357.9	6137.8	5774.0	5424.7	5037.2	4942.6	4949.9
10°	5570.2	5985.0	6186.9	6250.6	5997.7	5683.0	5199.1	4806.2	4604.2	4600.6
12.5°	5357.4	5683.0	5739.4	5828.5	5753.9	5435.6	5068.1	4627.9	4431.4	4427.8
15°	5168.2	5382.8	5399.2	5524.7	5564.8	5350.1	5102.7	4633.4	4475.1	4458.7
17.5°	5333.7	5184.6	5122.7	5139.1	5257.3	5335.5	5302.8	4942.6	4780.7	4689.7
20°	5444.7	5111.8	4924.4	4942.6	5082.7	5368.3	5601.1	5390.1	5133.6	5144.5
22.5°	5741.2	5122.7	4829.8	4809.8	5031.7	5539.3	5937.7	5955.9	5708.5	5648.4
25°	6185.1	5248.2	4800.7	4795.3	5008.1	5723.0	6330.6	6625.3	6372.5	6261.5
27.5°	6541.6	5444.7	4891.7	4909.9	5082.7	5872.2	6665.3	7056.4	6863.6	6727.2
30°	6854.5	5648.4	5019.0	4935.3	5282.8	5950.4	6809.0	7547.6	7393.0	7280.2
32.5°	6983.7	5937.7	5220.9	5082.7	5448.3	6045.0	7107.4	8024.2	7891.4	7613.1
35°	7202.0	6099.6	5330.1	5319.2	5737.6	6272.4	7247.5	8338.9	8284.4	8037.0
37.5°	7376.6	6263.3	5717.6	5597.5	6134.1	6654.4	7473.0	8773.7	8648.2	8531.8
40°	7511.2	6556.2	6079.6	6237.8	6621.7	7001.9	7680.4	8801.0	9163.0	8824.7
42.5°	7387.5	6818.1	6674.4	7052.8	7416.6	7398.4	7704.1	9012.0	9283.1	9106.6
45°	7356.6	7262.0	7614.9	7958.7	8042.4	7727.7	7534.9	8779.2	9246.7	9168.5
47.5°	7282.0	7698.6	8313.5	8873.8	8746.4	7947.8	7333.0	8737.3	9268.5	9128.5
50°	7256.6	7793.2	8830.1	9375.9	9299.5	8138.8	7238.4	8468.1	9113.9	9101.2
52.5°	7254.7	7987.8	9044.8	9648.7	9696.0	8440.8	7367.5	8604.5	9234.0	9341.3
55°	7336.6	7926.0	9017.5	9497.7	9479.5	8306.2	7382.1	8695.5	9381.3	9486.8
57.5°	6920.0	7100.1	7442.1	7822.3	7724.1	6880.0	6592.6	8038.8	8610.0	8533.6
60°	5975.9	5411.9	5026.3	5008.1	4817.1	4553.3	5395.6	7174.7	7174.7	7100.1
62.5°	5233.7	3552.8	3052.5	2910.6	3047.1	3350.9	5204.6	6978.2	6779.9	6694.4
65°	4577.0	2712.3	2206.6	2166.6	2403.1	2861.5	4706.1	5945.0	5595.7	5311.9
67.5°	2945.2	1986.5	1640.9	1569.9	1855.5	2101.1	3132.6	3656.5	3436.4	3325.4
70°	1899.2	1293.4	913.2	856.8	967.8	1295.2	2001.1	2132.0	1811.9	1737.3
72.5°	898.7	558.5	320.2	263.8	296.5	494.8	791.3	851.4	707.6	647.6
75°	285.6	205.6	131.0	112.8	107.3	127.3	181.9	140.1	101.9	100.1
77.5°	127.3	121.9	103.7	87.3	76.4	63.7	52.8	43.7	45.5	47.3
80°	105.5	96.4	85.5	76.4	63.7	49.1	38.2	29.1	29.1	30.9
82.5°	92.8	83.7	74.6	63.7	54.6	40.0	29.1	20.0	18.2	18.2
85°	40.0	47.3	50.9	54.6	43.7	32.7	20.0	12.7	10.9	10.9
87.5°	16.4	14.6	12.7	10.9	9.1	9.1	7.3	5.5	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)