

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: P653224

Luminaire Tested: **GLAN-SA2D-840-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P653224
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-SA2D-840-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1200mA 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: 9743.8 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

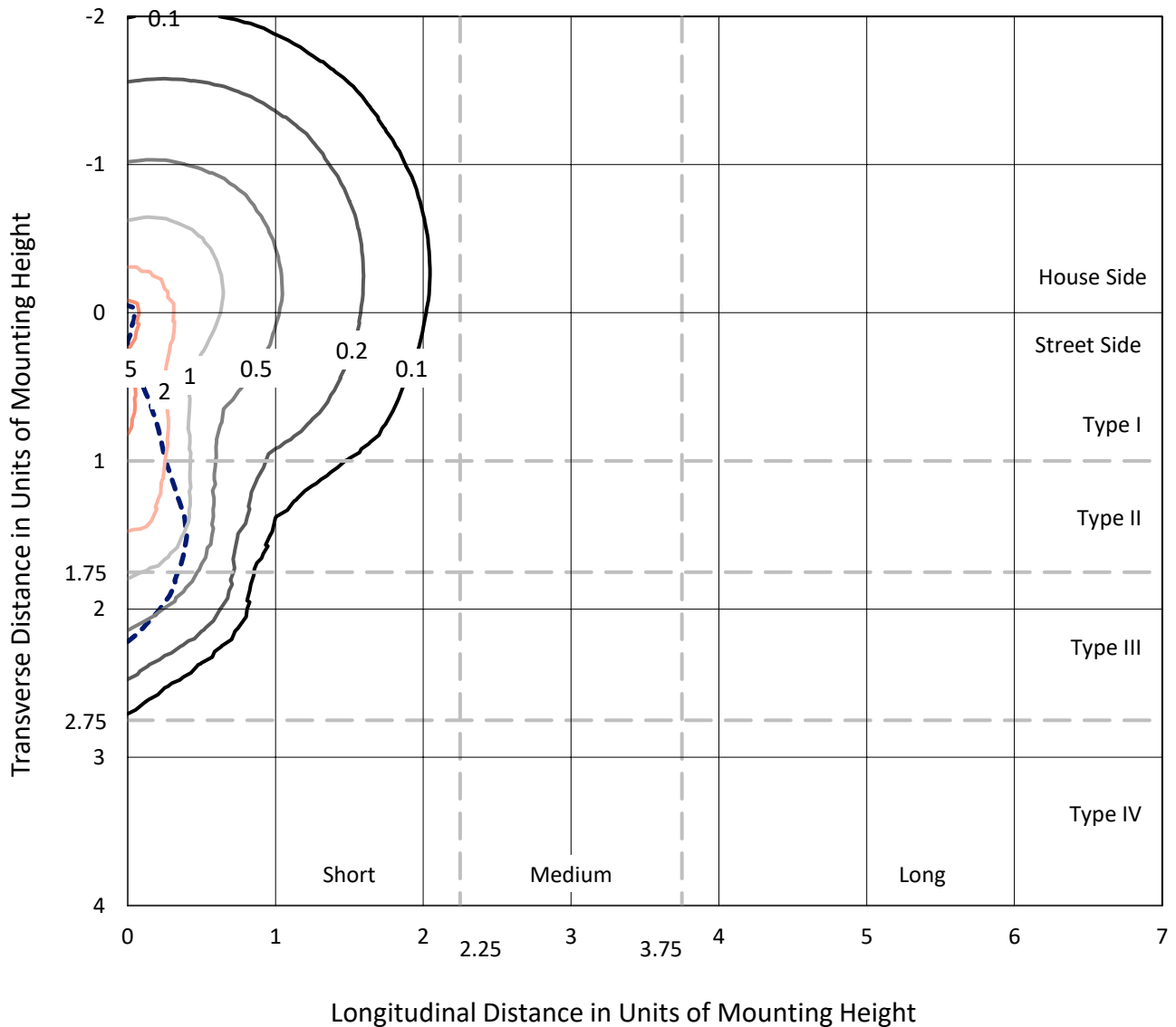
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

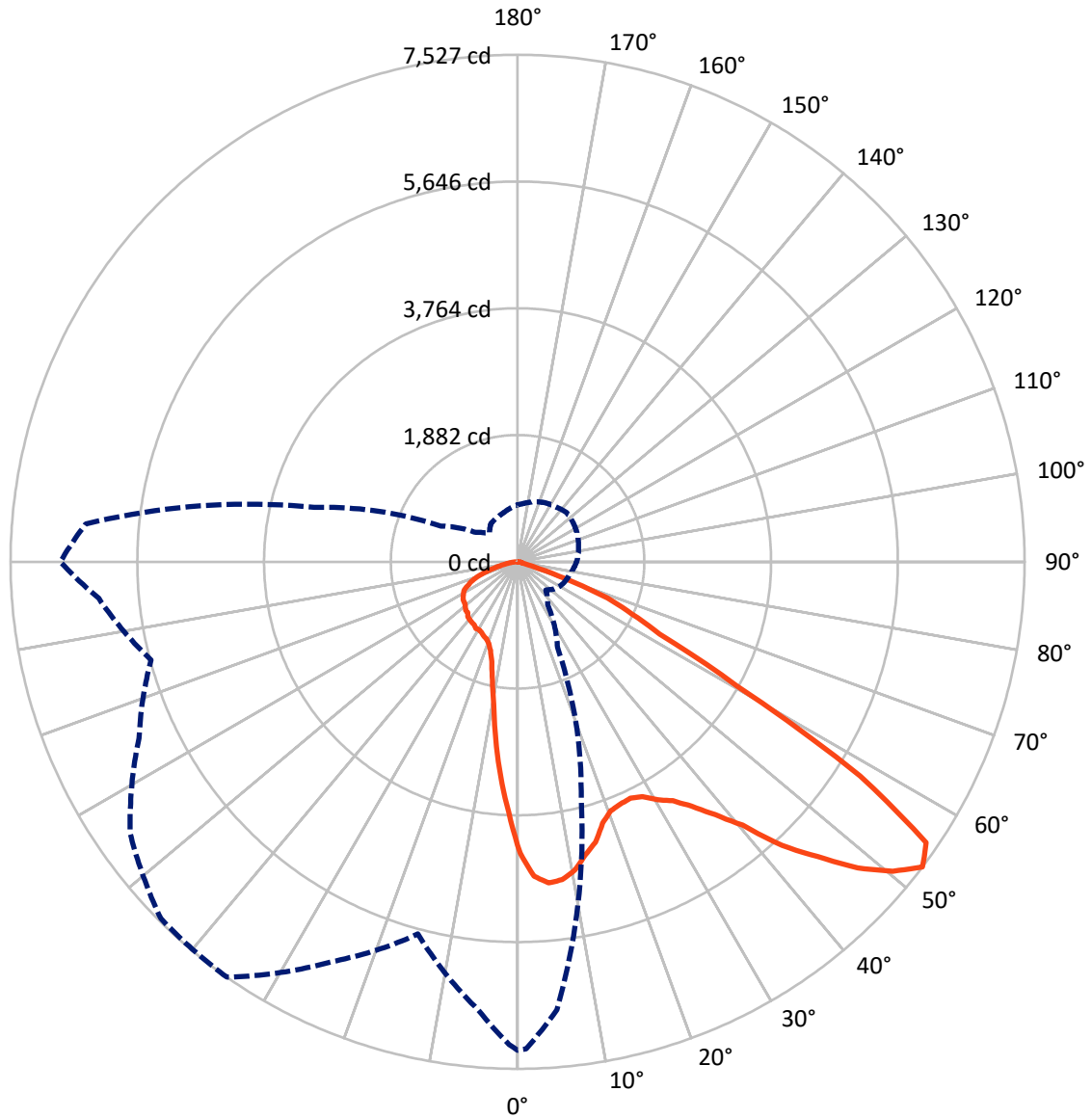
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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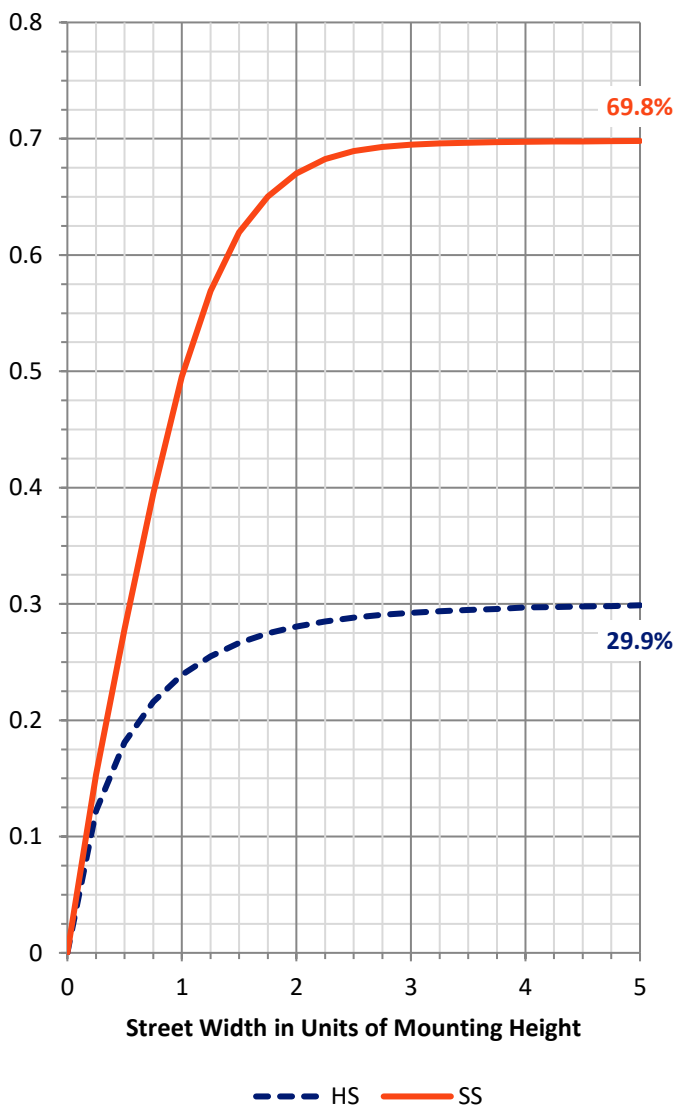
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2937.4	0.0	2937.4
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	6806.5	0.0	6806.5
	% Fixture	69.9	0.0	69.9
Total	Lumens	9743.8	0.0	9743.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.9	3.4
10°-20°	715.2	7.3
20°-30°	1080.6	11.1
30°-40°	1561.5	16.0
40°-50°	2078.1	21.3
50°-60°	2324.4	23.9
60°-70°	1310.0	13.4
70°-80°	292.0	3.0
80°-90°	52.0	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°	9743.8	100.0
0°-180°	9743.8	100.0

Coefficient of Utilization

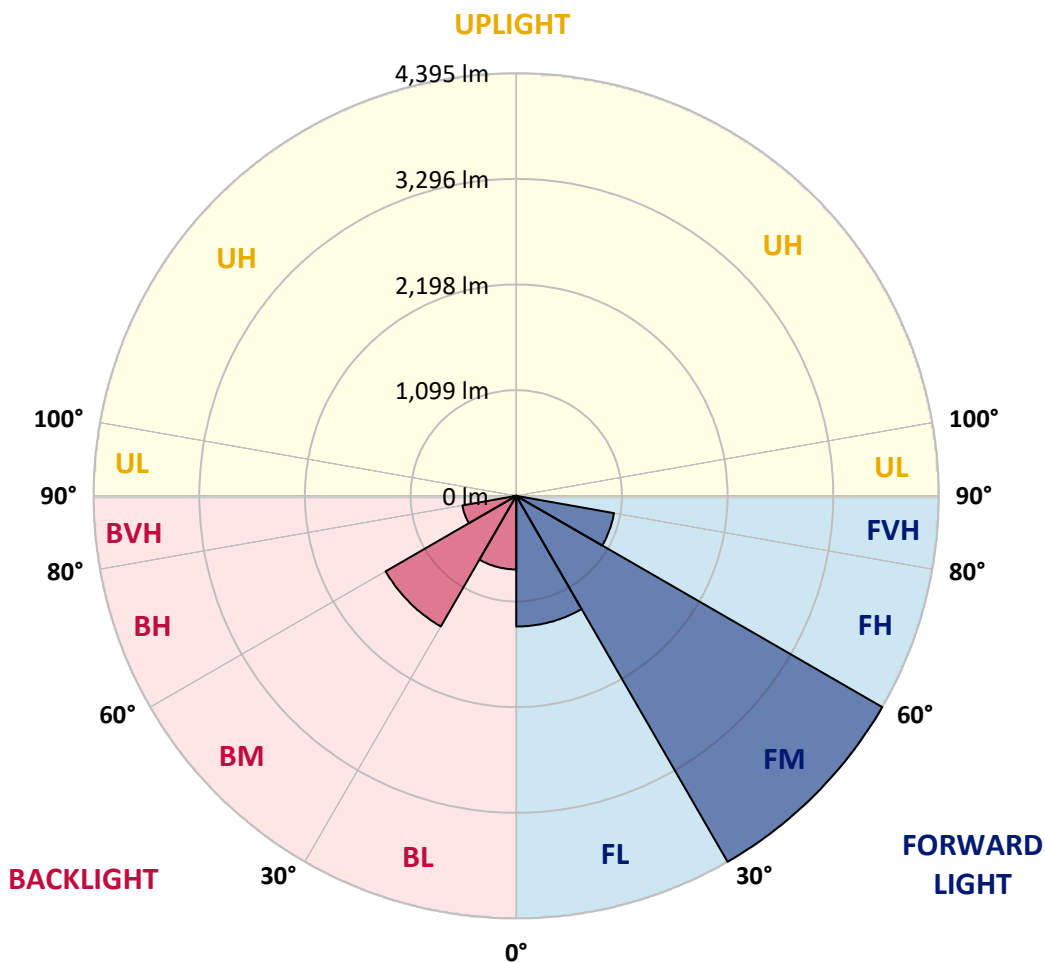


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1359.7	14.0			
FM	(30°-60°)	4395.2	45.1			
FH	(60°-80°)	1032.7	10.6			G1/1800
FVH	(80°-90°)	18.8	0.2			G1/100
BL	(0°-30°)	766.0	7.9	B2/1000		
BM	(30°-60°)	1568.8	16.1	B2/2500		
BH	(60°-80°)	569.4	5.8	B2/1000		G2/1000
BVH	(80°-90°)	33.2	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°	4324.3	4324.3	4324.3	4324.3	4324.3	4324.3	4324.3	4324.3	4324.3	4324.3	4324.3
2.5°	4396.4	4467.0	4390.8	4255.2	4159.2	4071.5	3979.8	3961.4	3841.4	3820.2	3732.6
5°	4146.4	4130.9	4037.6	3859.8	3663.4	3485.4	3354.2	3227.0	3140.9	3040.6	3033.6
7.5°	3842.8	3752.4	3698.7	3429.0	3186.0	2906.4	2786.4	2592.9	2532.2	2441.8	2395.2
10°	3571.6	3505.3	3379.6	3109.8	2770.8	2585.9	2457.3	2352.9	2282.2	2189.0	2071.8
12.5°	3437.5	3410.6	3269.4	2851.4	2600.0	2402.2	2311.9	2210.2	2090.1	1940.4	1882.6
15°	3461.5	3371.1	3263.8	2802.0	2454.5	2263.9	2119.8	1992.7	1838.8	1696.1	1612.8
17.5°	3640.9	3571.6	3356.9	2833.0	2399.5	2124.0	1862.8	1674.9	1536.6	1408.0	1350.1
20°	3993.9	3893.7	3652.1	2872.5	2280.8	1929.2	1629.8	1398.2	1249.9	1182.1	1162.3
22.5°	4385.1	4325.8	3940.3	2961.5	2186.2	1748.4	1382.6	1151.0	1095.9	1077.6	1114.2
25°	4861.1	4707.1	4387.9	3107.0	2112.8	1594.5	1173.6	1045.1	1016.9	1035.2	1077.6
27.5°	5222.6	5181.7	4701.4	3244.0	2012.5	1409.4	1056.4	971.6	980.1	998.4	1038.0
30°	5651.9	5444.3	5005.0	3338.6	1922.1	1282.4	974.5	951.8	960.3	991.5	1011.2
32.5°	5910.4	5832.7	5195.8	3481.2	1817.6	1172.2	910.9	889.7	902.5	949.1	995.7
35°	6239.4	6085.5	5431.6	3518.0	1744.1	1128.4	865.7	850.2	879.9	912.3	964.5
37.5°	6623.5	6517.7	5757.8	3492.5	1704.6	1083.2	827.6	820.6	841.7	886.9	947.6
40°	6851.0	6818.4	5928.7	3508.1	1642.5	1043.7	783.8	792.3	836.0	871.4	930.7
42.5°	7069.8	6858.0	6181.5	3502.4	1602.9	990.0	788.0	778.2	812.1	853.0	909.5
45°	7117.8	6907.4	6240.8	3462.9	1554.9	937.7	755.6	759.8	800.7	851.6	888.3
47.5°	7086.8	6931.4	6351.0	3451.5	1509.7	901.0	707.5	758.4	782.4	823.3	875.6
50°	7065.6	7057.1	6444.2	3505.3	1449.0	843.1	649.7	740.0	764.0	805.0	861.5
52.5°	7252.0	7233.6	6677.2	3646.5	1400.9	781.0	590.3	693.4	751.3	790.9	846.0
55°	7365.0	7284.5	7076.8	3820.2	1320.5	699.0	549.3	635.5	720.2	755.6	812.1
57.5°	6625.0	6569.9	6401.9	3566.0	1184.9	591.7	498.5	576.2	677.9	732.9	790.9
60°	5512.1	5426.0	4995.2	3030.7	874.2	460.4	467.4	529.6	666.6	687.8	755.6
62.5°	5197.1	4983.9	4397.8	2439.0	670.9	395.4	419.4	487.2	607.3	642.6	710.4
65°	4123.8	3965.7	3146.5	1761.1	449.1	343.2	382.7	439.3	523.9	593.2	655.3
67.5°	2581.6	2430.5	1679.2	833.3	313.5	293.8	341.8	401.1	470.3	532.4	601.7
70°	1348.7	1183.5	775.3	300.8	216.1	240.1	285.3	341.8	409.6	460.4	514.1
72.5°	502.7	408.1	252.8	129.9	149.7	183.6	231.6	272.6	320.6	382.7	412.3
75°	77.7	66.4	64.9	79.1	101.7	132.8	165.3	206.2	248.6	288.1	307.9
77.5°	36.8	35.3	39.5	52.2	67.8	94.6	120.0	159.6	193.5	218.9	230.2
80°	24.0	22.6	25.4	35.3	50.9	70.6	96.0	122.9	153.9	175.1	172.3
82.5°	14.1	15.6	15.6	24.0	35.3	50.9	69.2	93.2	114.4	132.8	121.4
85°	8.5	7.1	7.1	14.1	24.0	41.0	57.9	39.5	41.0	41.0	46.6
87.5°	2.9	2.9	2.9	1.4	2.9	2.9	4.2	7.1	8.5	9.9	12.7
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°	4324.3	4324.3	4324.3	4324.3	4324.3	4324.3	4324.3	4324.3	4324.3	4324.3	4324.3
2.5°	3729.8	3773.6	3758.0	3703.0	3745.3	3752.4	3724.1	3821.6	3839.9	3810.3	3818.8
5°	3023.6	3035.0	3060.4	3114.1	3152.2	3197.4	3197.4	3200.2	3162.1	3258.1	3229.9
7.5°	2355.6	2362.7	2392.4	2506.8	2539.2	2625.4	2662.1	2636.7	2560.4	2528.0	2554.8
10°	2033.7	1992.7	1982.8	1997.0	2070.4	2107.1	2138.2	2129.7	2117.0	2091.6	2063.3
12.5°	1819.0	1789.3	1765.3	1731.5	1735.7	1771.0	1795.0	1775.2	1780.9	1786.5	1795.0
15°	1586.0	1564.8	1552.1	1501.3	1495.6	1519.6	1528.1	1539.4	1560.6	1562.0	1552.1
17.5°	1338.9	1320.5	1348.7	1377.0	1357.2	1358.6	1374.1	1384.0	1378.4	1352.9	1340.2
20°	1169.3	1189.1	1217.3	1244.2	1265.4	1278.1	1283.8	1268.2	1249.9	1197.6	1196.2
22.5°	1120.0	1145.4	1169.3	1210.3	1230.0	1262.6	1232.9	1197.6	1172.2	1146.8	1117.1
25°	1083.2	1104.4	1152.4	1168.0	1206.1	1232.9	1211.7	1176.4	1132.7	1095.9	1073.3
27.5°	1056.4	1080.3	1111.5	1153.9	1183.5	1199.0	1177.8	1163.7	1118.5	1074.7	1042.3
30°	1039.4	1064.9	1121.3	1156.6	1182.1	1194.8	1158.1	1141.2	1108.6	1071.9	1043.7
32.5°	1028.1	1050.7	1098.8	1143.9	1160.9	1160.9	1166.6	1146.8	1101.5	1039.4	1015.4
35°	991.5	1022.5	1062.0	1114.2	1145.4	1163.7	1135.4	1112.9	1083.2	1019.6	975.9
37.5°	970.3	991.5	1042.3	1091.7	1118.5	1138.3	1127.0	1087.4	1047.9	995.7	960.3
40°	947.6	981.5	1026.7	1073.3	1103.0	1122.7	1114.2	1067.6	1019.6	970.3	946.2
42.5°	932.1	954.7	1001.3	1053.5	1088.8	1127.0	1101.5	1043.7	1009.8	942.0	915.2
45°	919.4	956.1	1005.5	1026.7	1063.4	1103.0	1057.8	1022.5	983.0	933.5	910.9
47.5°	903.8	937.7	970.3	1026.7	1043.7	1062.0	1053.5	997.1	963.2	909.5	894.0
50°	898.2	910.9	970.3	1001.3	1025.3	1043.7	1021.1	978.7	946.2	891.1	857.2
52.5°	875.6	899.6	937.7	978.7	1008.4	1031.0	994.2	967.4	923.6	865.7	844.5
55°	847.4	861.5	929.3	971.6	987.2	1002.7	988.6	944.8	899.6	840.3	819.1
57.5°	810.6	843.1	898.2	957.5	977.3	985.7	963.2	927.9	871.4	819.1	785.2
60°	772.5	806.4	867.2	915.2	934.9	966.0	932.1	910.9	846.0	788.0	751.3
62.5°	734.4	772.5	817.7	878.4	895.4	908.1	899.6	869.9	817.7	752.8	707.5
65°	689.2	717.5	773.9	805.0	816.3	846.0	816.3	805.0	758.4	696.3	658.1
67.5°	621.4	645.4	694.8	724.5	732.9	745.7	744.3	731.6	679.3	637.0	603.1
70°	543.7	564.9	596.0	631.3	635.5	651.0	637.0	634.1	600.2	542.3	523.9
72.5°	436.4	456.2	497.1	512.7	514.1	519.7	512.7	502.7	494.3	433.5	415.2
75°	334.7	346.0	365.8	379.9	379.9	386.9	382.7	372.8	350.3	312.1	293.8
77.5°	233.0	244.3	269.7	278.2	276.8	279.6	266.9	257.0	223.1	203.4	187.8
80°	169.5	176.5	189.2	194.9	196.3	200.6	185.0	176.5	156.8	134.1	127.1
82.5°	122.9	127.1	128.5	135.6	135.6	128.5	124.3	115.8	101.7	87.5	81.9
85°	50.9	52.2	53.7	62.1	63.6	76.3	70.6	66.4	57.9	49.5	45.2
87.5°	12.7	14.1	18.3	15.6	18.3	18.3	19.8	22.6	22.6	18.3	18.3
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°	4324.3	4324.3	4324.3	4324.3	4324.3	4324.3	4324.3	4324.3	4324.3	4324.3	4324.3
2.5°	3851.3	3862.5	4006.6	4024.9	4095.6	4167.6	4313.1	4417.6	4502.3	4557.4	4572.9
5°	3259.5	3331.5	3397.9	3505.3	3602.7	3741.1	3900.7	4098.4	4347.0	4474.0	4524.9
7.5°	2551.9	2636.7	2732.7	2837.3	2979.9	3228.4	3441.7	3670.5	3988.3	4119.6	4318.7
10°	2083.1	2177.7	2304.8	2385.3	2557.6	2794.9	3043.4	3307.6	3611.2	3800.4	4030.6
12.5°	1841.6	1919.2	2036.5	2205.9	2334.4	2488.4	2673.5	3006.7	3441.7	3621.1	3779.2
15°	1574.7	1660.8	1796.4	1984.3	2138.2	2321.7	2529.4	2892.4	3355.6	3632.4	3766.5
17.5°	1354.3	1416.5	1559.1	1721.5	1898.1	2098.6	2396.6	2886.6	3445.9	3800.4	4019.3
20°	1201.9	1210.3	1288.0	1426.4	1666.4	1927.7	2314.7	2858.5	3735.5	4090.0	4366.7
22.5°	1105.8	1097.3	1098.8	1216.0	1384.0	1759.7	2186.2	2954.4	4064.6	4550.3	4736.8
25°	1057.8	1035.2	1021.1	1046.5	1199.0	1560.6	2088.7	3081.6	4419.0	4930.2	5159.0
27.5°	1032.3	992.8	964.5	968.8	1080.3	1460.3	2028.0	3136.7	4770.7	5459.9	5540.3
30°	1022.5	973.0	932.1	918.0	991.5	1320.5	1898.1	3231.3	5085.6	5750.8	5820.0
32.5°	987.2	926.4	886.9	874.2	903.8	1197.6	1804.9	3299.1	5363.8	6067.1	6043.1
35°	946.2	895.4	846.0	821.9	843.1	1118.5	1730.0	3266.6	5691.5	6312.9	6300.1
37.5°	942.0	875.6	834.7	795.1	793.7	1021.1	1628.3	3297.6	5900.5	6753.5	6579.7
40°	905.3	862.9	809.2	776.7	758.4	971.6	1529.5	3224.2	6206.9	6931.4	6760.5
42.5°	906.7	843.1	796.5	758.4	740.0	899.6	1461.7	3204.5	6314.2	7220.9	6845.2
45°	884.1	821.9	782.4	737.2	727.3	844.5	1396.7	3112.6	6503.5	7235.0	6739.4
47.5°	861.5	806.4	764.0	710.4	687.8	824.8	1345.9	3036.3	6404.6	7102.3	6592.5
50°	846.0	782.4	742.9	704.8	641.2	790.9	1279.5	3018.0	6266.2	6922.9	6319.9
52.5°	819.1	762.6	721.7	692.0	590.3	759.8	1254.1	3125.3	6435.8	6788.8	6240.8
55°	793.7	735.8	683.6	625.6	548.0	677.9	1183.5	3225.7	6682.8	7098.0	6599.5
57.5°	766.8	711.8	655.3	586.1	507.0	593.2	1110.0	3244.0	6219.6	6560.0	6264.9
60°	731.6	660.9	618.6	528.1	463.2	491.5	879.9	2859.8	4824.3	5478.2	5488.1
62.5°	692.0	615.8	579.0	473.1	418.1	423.7	717.5	2403.7	3913.4	4534.8	4804.5
65°	639.7	566.3	522.5	437.8	385.5	367.2	525.4	1761.1	2972.9	3679.0	3985.4
67.5°	572.0	502.7	447.7	381.3	344.6	315.0	358.7	991.5	1755.4	2470.1	2563.3
70°	500.0	440.6	382.7	327.7	286.7	265.5	262.6	439.3	838.9	1328.9	1512.5
72.5°	394.0	351.6	305.0	264.1	237.2	206.2	187.8	182.2	283.8	540.9	747.1
75°	282.5	247.2	220.3	193.5	173.8	156.8	142.6	129.9	118.7	135.6	186.4
77.5°	178.0	165.3	144.1	137.0	125.7	121.4	115.8	108.7	100.2	94.6	94.6
80°	120.0	111.6	104.5	103.1	98.8	97.5	98.8	91.8	83.3	76.3	79.1
82.5°	80.5	79.1	77.7	76.3	77.7	79.1	81.9	80.5	73.4	69.2	70.6
85°	48.0	50.9	53.7	56.5	62.1	55.1	45.2	38.1	33.9	31.0	29.7
87.5°	18.3	25.4	22.6	21.2	22.6	21.2	19.8	18.3	15.6	14.1	14.1
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: P653224

CATALOG NUMBER: GLAN-SA2D-840-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4324.3	4324.3	4324.3	4324.3	4324.3	4324.3	4324.3	4324.3	4324.3	4324.3
2.5°	4676.0	4704.3	4728.3	4722.6	4673.2	4606.8	4580.0	4443.0	4414.7	4396.4
5°	4739.5	4903.4	4938.7	4917.5	4789.0	4626.6	4468.4	4267.9	4150.7	4146.4
7.5°	4622.4	4824.3	4887.9	4935.9	4765.0	4482.5	4211.4	3910.6	3837.1	3842.8
10°	4324.3	4646.4	4803.1	4852.6	4656.3	4412.0	4036.3	3731.2	3574.4	3571.6
12.5°	4159.2	4412.0	4455.7	4524.9	4467.0	4219.9	3934.6	3592.8	3440.3	3437.5
15°	4012.2	4178.9	4191.6	4289.1	4320.1	4153.4	3961.4	3597.0	3474.2	3461.5
17.5°	4140.7	4024.9	3976.9	3989.6	4081.5	4142.2	4116.8	3837.1	3711.4	3640.9
20°	4227.0	3968.5	3823.0	3837.1	3945.9	4167.6	4348.4	4184.6	3985.4	3993.9
22.5°	4457.1	3976.9	3749.6	3734.0	3906.4	4300.4	4609.7	4623.7	4431.7	4385.1
25°	4801.7	4074.4	3727.0	3722.8	3887.9	4443.0	4914.7	5143.5	4947.2	4861.1
27.5°	5078.5	4227.0	3797.6	3811.7	3945.9	4558.8	5174.6	5478.2	5328.5	5222.6
30°	5321.4	4385.1	3896.4	3831.5	4101.2	4619.5	5286.1	5859.5	5739.5	5651.9
32.5°	5421.7	4609.7	4053.2	3945.9	4229.7	4692.9	5517.7	6229.5	6126.4	5910.4
35°	5591.1	4735.3	4138.0	4129.5	4454.3	4869.5	5626.5	6473.8	6431.5	6239.4
37.5°	5726.8	4862.4	4438.8	4345.5	4762.2	5166.1	5801.6	6811.3	6714.0	6623.5
40°	5831.2	5089.8	4719.8	4842.6	5140.7	5435.8	5962.6	6832.5	7113.6	6851.0
42.5°	5735.2	5293.2	5181.7	5475.3	5757.8	5743.7	5980.9	6996.4	7206.8	7069.8
45°	5711.2	5637.8	5911.7	6178.7	6243.7	5999.4	5849.7	6815.6	7178.6	7117.8
47.5°	5653.3	5976.7	6454.1	6889.1	6790.2	6170.2	5692.9	6783.2	7195.5	7086.8
50°	5633.5	6050.2	6855.2	7278.9	7219.6	6318.5	5619.4	6574.1	7075.5	7065.6
52.5°	5632.1	6201.3	7021.8	7490.7	7527.4	6552.9	5719.7	6680.1	7168.7	7252.0
55°	5695.7	6153.3	7000.7	7373.5	7359.3	6448.5	5731.0	6750.6	7283.1	7365.0
57.5°	5372.3	5512.1	5777.6	6072.8	5996.5	5341.2	5118.1	6240.8	6684.3	6625.0
60°	4639.3	4201.5	3902.1	3887.9	3739.7	3534.9	4188.8	5570.0	5570.0	5512.1
62.5°	4063.1	2758.1	2369.8	2259.6	2365.6	2601.4	4040.5	5417.5	5263.6	5197.1
65°	3553.3	2105.7	1713.1	1682.0	1865.6	2221.5	3653.6	4615.3	4344.1	4123.8
67.5°	2286.4	1542.2	1273.9	1218.8	1440.5	1631.2	2431.9	2838.6	2667.7	2581.6
70°	1474.4	1004.2	709.0	665.1	751.3	1005.5	1553.5	1655.2	1406.7	1348.7
72.5°	697.7	433.5	248.6	204.8	230.2	384.2	614.4	660.9	549.3	502.7
75°	221.7	159.6	101.7	87.5	83.3	98.8	141.2	108.7	79.1	77.7
77.5°	98.8	94.6	80.5	67.8	59.3	49.5	41.0	33.9	35.3	36.8
80°	81.9	74.8	66.4	59.3	49.5	38.1	29.7	22.6	22.6	24.0
82.5°	72.0	64.9	57.9	49.5	42.4	31.0	22.6	15.6	14.1	14.1
85°	31.0	36.8	39.5	42.4	33.9	25.4	15.6	9.9	8.5	8.5
87.5°	12.7	11.3	9.9	8.5	7.1	7.1	5.6	4.2	2.9	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)