

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: P649592

Luminaire Tested: **GLAN-SA8D-835-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P649592
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8D-835-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42161.4 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

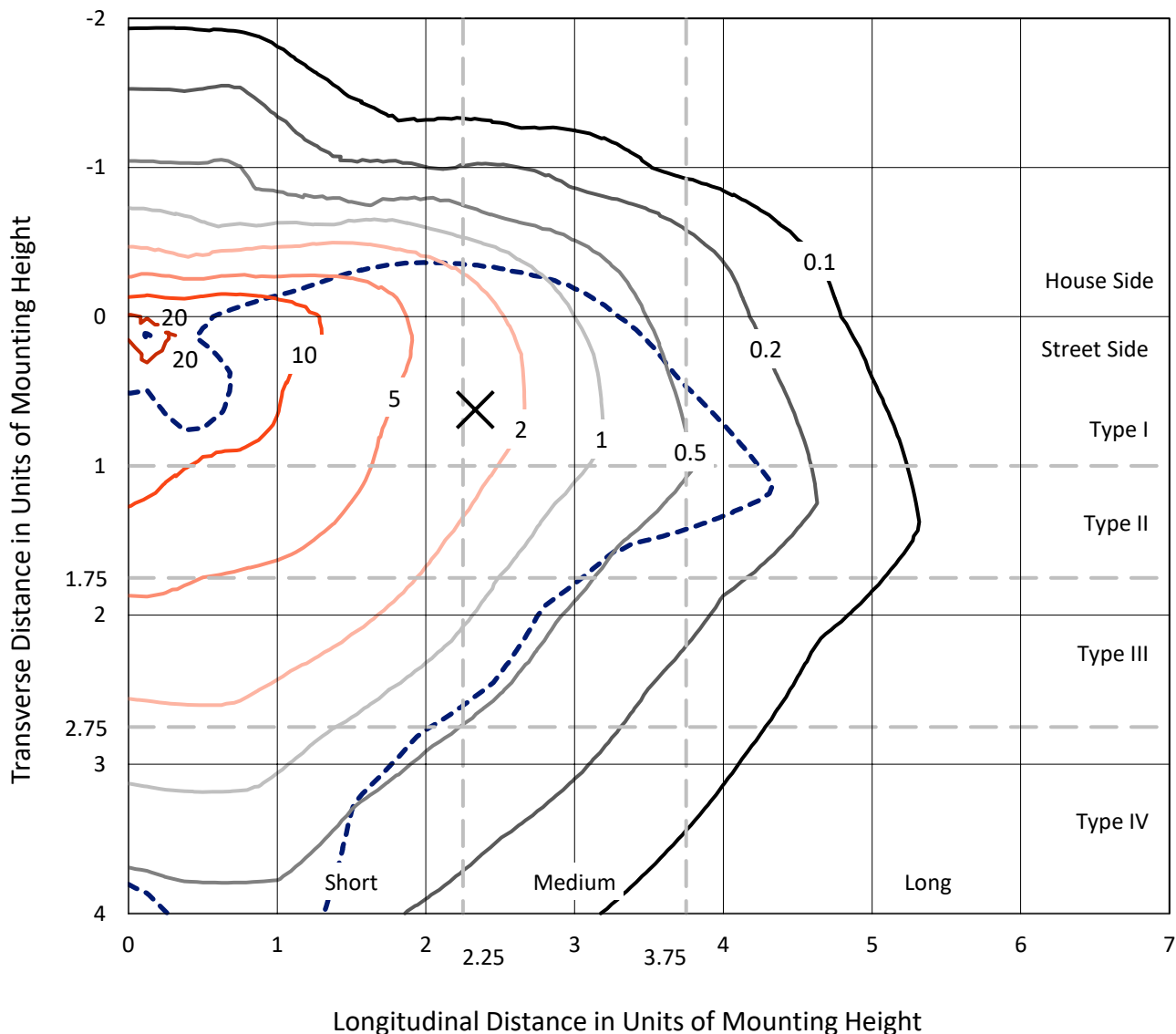
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P649592
 CATALOG NUMBER: GLAN-SA8D-835-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

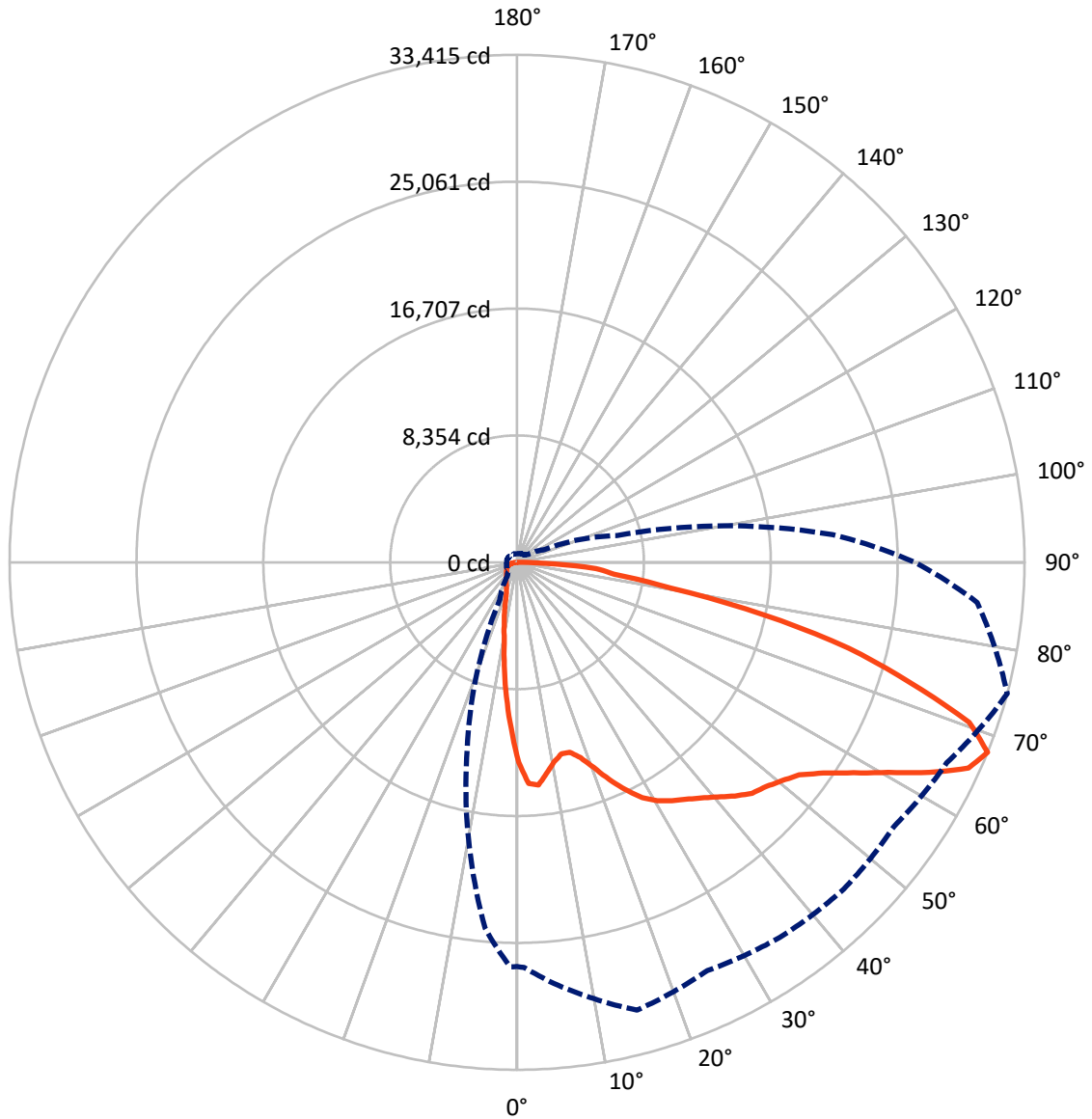
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26 fc
 Type III - Medium - N/A

REPORT NUMBER: P649592
CATALOG NUMBER: GLAN-SA8D-835-U-SLL

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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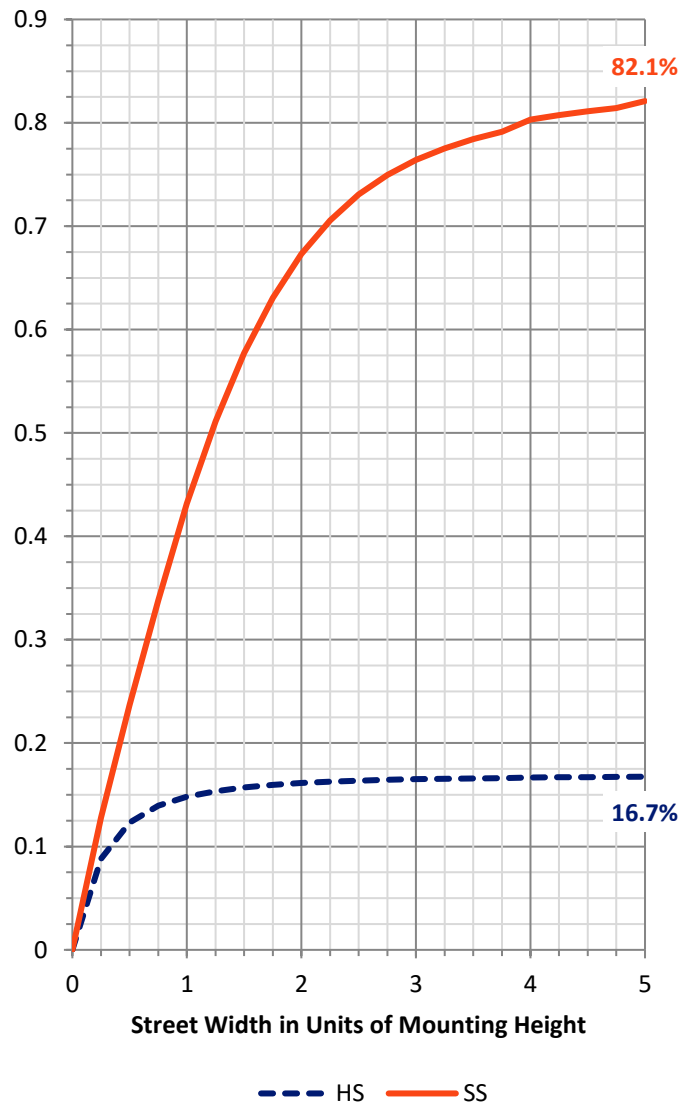
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7126.2	0.0	7126.2
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	35035.2	0.0	35035.2
	% Fixture	83.1	0.0	83.1
Total	Lumens	42161.4	0.0	42161.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	999.1	2.4
10°-20°	2083.6	4.9
20°-30°	2998.3	7.1
30°-40°	4318.4	10.2
40°-50°	6066.2	14.4
50°-60°	8460.3	20.1
60°-70°	10058.7	23.9
70°-80°	5924.0	14.1
80°-90°	1252.7	3.0
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°	42161.4	100.0
0°-180°	42161.4	100.0

Coefficient of Utilization



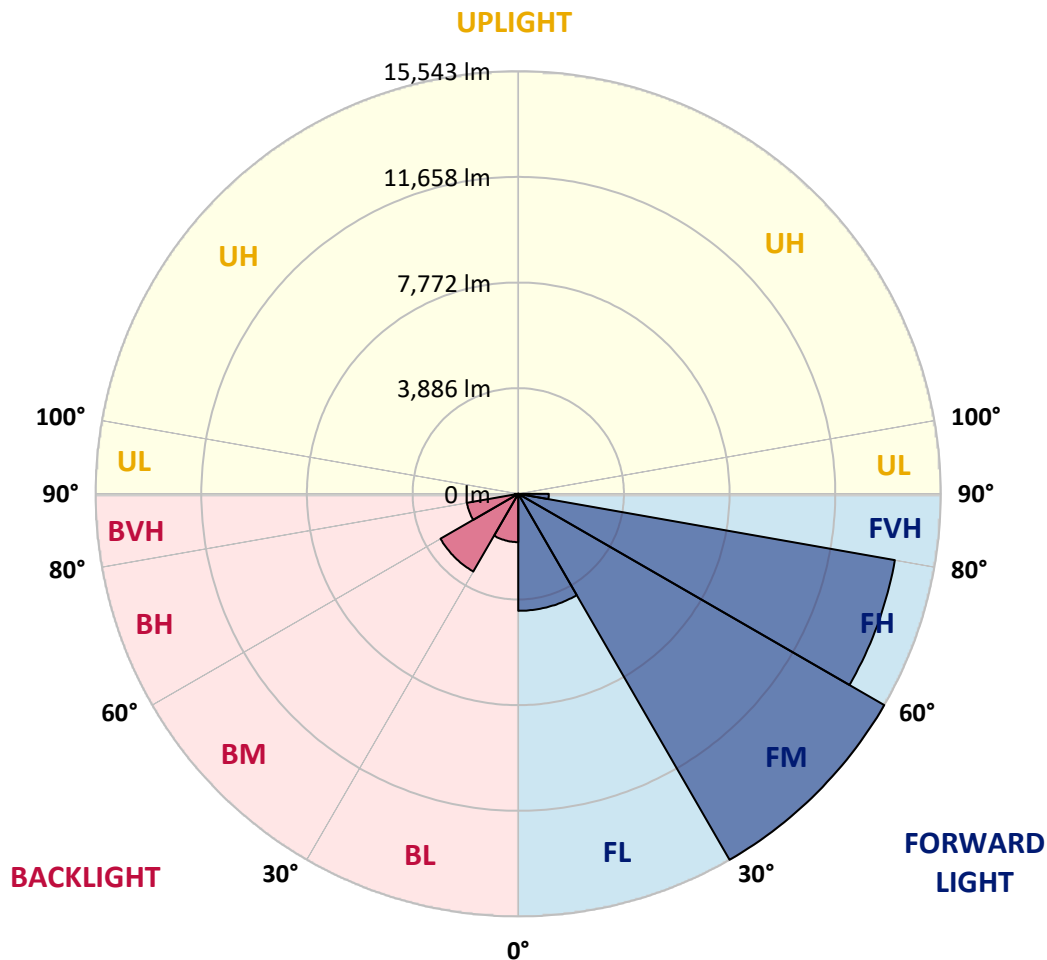
REPORT NUMBER: P649592
 CATALOG NUMBER: GLAN-SA8D-835-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4303.5	10.2			
FM (30°-60°)	15543.4	36.9			
FH (60°-80°)	14065.2	33.4			G5
FVH (80°-90°)	1123.1	2.7			G5
BL (0°-30°)	1777.5	4.2	B3/2500		
BM (30°-60°)	3301.6	7.8	B3/5000		
BH (60°-80°)	1917.5	4.5	B3/2500		G3/2500
BVH (80°-90°)	129.6	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





REPORT NUMBER: P649592

CATALOG NUMBER: GLAN-SA8D-835-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13172.3	13172.3	13172.3	13172.3	13172.3	13172.3	13172.3	13172.3	13172.3	13172.3	13172.3
2.5°	14202.3	14221.2	14342.9	14697.1	14940.4	15029.6	15091.9	14975.6	14862.0	14586.3	14169.9
5°	14159.1	14269.9	14586.3	15381.1	16008.4	16278.7	16359.8	16011.1	15435.2	14726.8	13875.2
7.5°	13331.7	13480.4	13967.1	15300.0	16405.8	17038.5	16954.6	16324.7	15286.5	14023.8	12834.2
10°	12350.3	12515.2	13101.9	14713.3	16138.1	17008.7	17008.7	16240.9	14862.0	13361.5	11990.7
12.5°	11571.6	11744.7	12415.2	14110.4	15581.2	16405.8	16543.7	15884.0	14556.5	12942.4	11436.5
15°	11314.8	11482.5	12204.3	13745.4	14991.8	15494.6	15540.6	15324.3	14407.8	12972.1	11412.1
17.5°	11633.8	11850.2	12580.1	13853.5	14451.0	14480.8	14516.0	14686.3	14424.0	13515.6	11904.2
20°	12555.8	12788.3	13550.8	14202.3	13977.9	13669.7	13688.6	14126.7	14615.9	14413.2	13080.3
22.5°	13886.0	14088.8	14870.1	14816.1	13777.8	13142.5	13010.0	13621.1	14899.9	15532.5	14332.1
25°	15321.7	15559.5	16457.2	15727.2	13834.6	12828.8	12745.0	13323.6	15194.6	16578.9	15778.5
27.5°	16965.5	17198.0	17906.3	16646.4	14132.1	12804.6	12704.5	13296.6	15459.6	17546.7	17160.1
30°	18187.5	18401.1	18882.4	17419.6	14497.0	12966.7	12842.4	13510.2	15686.6	18209.1	18506.5
32.5°	19147.3	19369.0	19631.3	17900.9	14978.2	13261.4	13031.6	13899.5	15984.0	18714.7	19504.2
35°	20147.7	20409.9	20391.0	18328.1	15427.1	13602.1	13377.7	14461.9	16451.8	19155.4	20769.5
37.5°	21415.7	21521.1	21385.9	18712.1	15965.1	14215.8	14091.5	15297.3	17116.8	19688.1	22248.4
40°	22702.6	22913.5	22218.6	19177.1	16619.4	15370.3	15356.7	16532.9	17906.3	20312.6	23681.4
42.5°	23805.7	23984.2	22997.3	19582.6	17411.6	16778.9	16881.6	18190.2	18941.9	21037.2	24833.1
45°	24635.8	24795.3	23716.5	19974.6	18455.2	18406.5	19012.1	19966.5	20247.7	21688.8	25509.0
47.5°	25341.4	25495.5	24216.7	20569.4	19744.8	20350.4	21404.9	21818.5	21364.3	22061.9	26266.0
50°	25936.2	25982.1	24560.0	21277.8	21345.4	22732.4	23754.3	24022.0	22467.4	22597.1	26923.1
52.5°	26555.4	26495.9	25152.2	22170.0	23075.7	24992.7	25736.1	26014.6	23524.5	23256.9	27880.1
55°	27942.3	27999.1	26479.7	23294.7	24825.0	27212.3	28191.1	27923.4	24695.2	24470.8	29096.7
57.5°	29618.5	29569.9	28347.9	25054.8	26606.7	29277.9	30007.9	29578.1	26257.9	26139.0	30329.7
60°	30270.2	30335.1	29910.6	26947.3	28364.1	31086.7	31832.9	31165.0	28131.5	28077.5	31259.7
62.5°	29615.9	29980.8	30267.5	28631.7	29861.9	32416.9	33157.7	32395.2	30086.3	30478.4	31911.3
65°	28312.7	28391.1	29367.1	30059.3	30583.8	32635.8	33022.5	32617.0	31719.3	32665.6	31881.6
67.5°	26620.2	26687.9	27831.5	30527.0	29653.7	30148.5	30418.8	30299.9	31213.7	33414.5	30413.4
70°	25008.9	24954.8	26163.3	29334.7	25814.6	25062.9	25287.3	24914.2	26933.9	31584.1	27534.0
72.5°	21872.6	22067.3	23365.0	26020.0	20439.7	19217.6	19706.9	18741.7	20715.4	27050.1	22348.5
75°	17133.1	17179.0	19344.6	21837.5	15419.0	13491.2	14153.7	13750.8	15867.8	22564.7	15432.5
77.5°	11863.6	11760.9	14088.8	16678.8	10995.7	9876.4	9887.3	9695.3	11079.6	16614.0	10484.8
80°	7535.1	7378.3	8819.3	10303.7	7556.7	8083.9	7819.0	7810.9	7213.4	10249.5	6340.1
82.5°	4071.7	4244.7	5572.2	6459.0	5420.9	6248.2	5726.3	5558.8	4950.4	6415.7	4055.5
85°	1854.7	2016.9	2971.3	4393.4	4117.6	4163.6	2782.1	3282.3	4096.0	5209.9	2165.6
87.5°	181.1	232.6	613.7	2073.7	1405.9	1108.5	413.7	797.6	1030.1	1852.0	173.0
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: P649592
 CATALOG NUMBER: GLAN-SA8D-835-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13172.3	13172.3	13172.3	13172.3	13172.3	13172.3	13172.3	13172.3	13172.3	13172.3	13172.3
2.5°	13999.6	13858.9	13380.4	12985.7	12566.6	12247.6	11831.2	11552.7	11360.8	11071.5	11036.3
5°	13356.1	13012.7	12180.0	11331.0	10598.4	10046.8	9487.1	8973.4	8670.6	8576.0	8454.4
7.5°	12271.9	11693.3	10622.6	9649.4	8808.5	7986.6	7353.9	6905.1	6605.1	6429.3	6218.4
10°	11379.7	10709.2	9406.0	8213.7	7521.6	7010.6	6453.6	5972.4	5602.0	5285.6	5112.6
12.5°	10779.5	10022.5	8557.1	7589.1	7053.8	6510.4	5858.8	5318.1	4772.0	4412.4	4258.3
15°	10598.4	9798.1	8294.8	7278.2	6510.4	5799.4	5069.4	4363.7	3823.0	3482.3	3368.8
17.5°	11041.7	10073.8	8292.1	6864.6	5872.3	5023.4	4088.0	3425.5	2871.3	2617.2	2536.1
20°	11869.0	10603.8	8316.5	6456.3	5180.2	3985.2	2974.0	2430.6	2165.6	2057.5	2016.9
22.5°	13023.6	11412.1	8389.5	6053.5	4423.2	3060.5	2227.8	1952.0	1857.4	1838.5	1830.3
25°	14445.6	12412.5	8635.5	5691.2	3785.1	2335.9	1862.8	1738.4	1684.4	1665.4	1662.8
27.5°	15754.2	13704.8	8932.9	5380.3	3168.7	2014.2	1684.4	1578.9	1524.9	1522.2	1527.6
30°	16935.7	14786.3	9181.6	5031.5	2701.0	1789.9	1568.1	1462.6	1411.3	1408.6	1424.8
32.5°	17957.7	15675.8	9365.5	4688.1	2441.4	1652.0	1462.6	1349.1	1305.9	1297.7	1305.9
35°	19050.0	16562.6	9281.7	4420.5	2292.7	1538.4	1384.3	1273.4	1222.0	1197.8	1197.8
37.5°	20296.4	17476.5	9138.4	4198.8	2225.1	1443.8	1316.7	1208.6	1157.2	1132.8	1130.1
40°	21656.3	18390.3	8941.0	4001.4	2157.6	1387.0	1270.7	1157.2	1094.9	1070.7	1065.3
42.5°	22856.7	19171.7	8778.8	3871.6	2046.7	1397.8	1230.2	1119.3	1040.9	1008.4	1005.8
45°	23900.4	19958.4	8749.0	3795.9	1954.8	1381.6	1219.4	1089.5	997.6	962.5	957.1
47.5°	24716.9	20777.6	8919.4	3752.7	1854.7	1295.1	1289.7	1070.7	959.8	922.0	916.5
50°	25711.8	21940.2	9308.7	3663.4	1762.8	1214.0	1362.7	1067.9	930.0	881.4	867.9
52.5°	27036.6	23454.2	9835.9	3503.9	1630.3	1138.2	1300.5	1067.9	894.9	846.3	830.1
55°	29040.0	25384.6	10352.3	3279.5	1443.8	1038.2	1173.4	1035.5	843.5	800.3	789.5
57.5°	30367.5	26796.0	10682.2	2968.6	1211.2	965.2	1011.2	984.2	792.2	746.2	746.2
60°	30435.1	27174.5	10525.3	2576.6	1065.3	897.6	878.7	992.2	746.2	697.6	692.2
62.5°	29656.4	26247.1	9708.8	2225.1	986.8	824.6	794.9	870.5	700.2	651.6	643.5
65°	28439.8	23881.4	8292.1	2057.5	943.6	759.7	716.4	713.8	651.6	605.7	594.8
67.5°	26203.9	20869.5	6813.2	1960.2	922.0	686.7	646.2	632.7	594.8	556.9	551.5
70°	22908.1	17479.1	5464.1	1919.6	911.1	611.1	578.6	562.4	529.9	500.2	497.4
72.5°	17822.5	14178.0	4509.7	1892.6	905.7	540.7	505.6	484.0	465.0	438.0	438.0
75°	12801.8	10430.7	3441.8	1706.0	838.1	465.0	427.2	413.7	386.6	365.0	370.4
77.5°	8070.5	7024.1	2265.7	1254.5	648.9	373.1	340.7	332.5	310.9	281.2	300.1
80°	5450.5	4939.6	1322.1	789.5	408.3	273.0	262.2	259.6	235.2	202.8	205.5
82.5°	3709.4	3639.1	686.7	448.8	235.2	159.5	154.1	159.5	132.5	108.1	108.1
85°	1449.2	1979.1	324.5	175.7	75.7	24.4	35.2	37.8	21.6	10.8	13.5
87.5°	27.0	202.8	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P649592
 CATALOG NUMBER: GLAN-SA8D-835-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	13172.3	13172.3	13172.3	13172.3	13172.3	13172.3	13172.3	13172.3	13172.3	13172.3	13172.3
2.5°	10982.3	10957.9	10998.5	10825.4	10860.6	10925.5	10957.9	10976.9	11244.5	11182.3	11352.6
5°	8567.9	8543.5	8700.4	8722.0	8803.1	8786.9	8865.3	8884.2	8981.6	9016.7	9254.6
7.5°	6231.9	6337.4	6515.8	6607.7	6745.6	6788.9	6748.4	6848.4	6645.6	6791.6	6834.9
10°	5007.2	4880.1	4804.4	5015.3	5042.3	5242.4	5161.3	5096.4	5215.3	5220.7	5334.3
12.5°	4169.0	3896.0	3714.9	3774.3	3839.2	3925.7	3939.2	4069.0	4155.5	4236.7	4304.2
15°	3268.7	3174.1	3009.1	2928.0	3020.0	3055.1	3139.0	3247.1	3339.0	3363.4	3455.3
17.5°	2509.0	2525.3	2498.2	2449.5	2506.3	2533.3	2538.7	2541.5	2565.7	2549.5	2684.8
20°	2019.7	2076.4	2144.0	2154.8	2173.8	2187.2	2163.0	2071.0	2073.7	2130.5	2173.8
22.5°	1827.7	1838.5	1914.2	1938.6	1998.0	1973.7	1903.4	1860.1	1854.7	1868.2	1889.8
25°	1676.2	1692.5	1746.6	1784.4	1830.3	1787.1	1735.8	1695.2	1689.8	1703.3	1724.9
27.5°	1541.1	1565.5	1614.1	1652.0	1695.2	1654.6	1606.0	1570.9	1568.1	1565.5	1578.9
30°	1433.0	1460.0	1495.1	1538.4	1568.1	1533.0	1487.0	1468.1	1465.4	1460.0	1465.4
32.5°	1324.8	1368.1	1403.2	1424.8	1454.6	1427.6	1392.4	1381.6	1362.7	1346.4	1338.3
35°	1203.2	1249.1	1303.1	1330.2	1359.9	1332.9	1308.5	1262.6	1230.2	1227.4	1232.8
37.5°	1132.8	1151.8	1195.0	1241.0	1270.7	1257.2	1211.2	1165.3	1157.2	1157.2	1162.6
40°	1070.7	1078.7	1097.7	1157.2	1211.2	1170.7	1113.9	1100.4	1100.4	1097.7	1100.4
42.5°	1008.4	1016.6	1016.6	1062.5	1149.1	1084.1	1040.9	1040.9	1040.9	1043.6	1051.7
45°	951.7	954.4	951.7	984.2	1065.3	1011.2	981.4	989.6	995.0	1000.4	1005.8
47.5°	903.0	905.7	903.0	930.0	970.6	949.0	932.8	943.6	954.4	962.5	967.9
50°	859.7	857.1	862.5	878.7	897.6	903.0	892.2	908.4	913.8	924.6	938.2
52.5°	821.9	819.2	824.6	832.7	859.7	859.7	859.7	873.3	884.1	894.9	913.8
55°	778.6	781.4	789.5	800.3	835.5	830.1	832.7	843.5	854.3	870.5	881.4
57.5°	738.1	743.5	754.3	770.6	805.7	803.0	805.7	811.1	824.6	832.7	843.5
60°	692.2	703.0	716.4	727.3	762.4	759.7	773.2	784.1	792.2	792.2	797.6
62.5°	646.2	662.4	675.9	684.0	721.8	724.6	743.5	751.6	757.0	751.6	759.7
65°	600.2	624.5	629.9	640.7	678.6	681.3	703.0	721.8	716.4	711.0	724.6
67.5°	554.3	584.0	581.3	594.8	632.7	638.1	657.0	689.4	678.6	673.2	684.0
70°	502.8	524.5	527.2	535.3	586.7	578.6	608.3	638.1	629.9	632.7	632.7
72.5°	446.1	465.0	465.0	481.2	535.3	521.8	546.1	578.6	578.6	575.9	575.9
75°	378.5	389.3	400.1	424.5	481.2	465.0	481.2	511.0	516.4	511.0	511.0
77.5°	305.5	321.7	327.1	359.6	400.1	397.5	413.7	427.2	438.0	432.6	432.6
80°	216.3	232.6	254.2	289.3	313.6	321.7	329.9	340.7	346.1	346.1	351.5
82.5°	121.7	146.0	164.9	200.1	210.9	251.4	248.8	256.8	248.8	219.0	243.4
85°	27.0	51.4	73.0	91.9	105.5	146.0	154.1	173.0	143.3	132.5	132.5
87.5°	0.0	0.0	0.0	0.0	0.0	21.6	43.2	59.5	51.4	43.2	43.2
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: P649592

CATALOG NUMBER: GLAN-SA8D-835-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13172.3	13172.3	13172.3	13172.3	13172.3	13172.3	13172.3	13172.3	13172.3	13172.3
2.5°	11495.9	11731.1	12015.1	12504.4	12847.8	13218.2	13591.3	13988.8	14094.2	14202.3
5°	9319.5	9781.9	10033.3	10690.3	11379.7	12255.7	12972.1	13756.2	14083.4	14159.1
7.5°	7059.2	7372.9	8032.6	8697.6	9552.1	10471.3	11569.0	12791.0	13172.3	13331.7
10°	5596.6	6023.8	6602.3	7316.1	8065.0	9054.5	10292.8	11720.3	12261.1	12350.3
12.5°	4763.9	5239.7	5869.7	6623.9	7332.3	8078.5	9327.6	10801.1	11379.7	11571.6
15°	3809.5	4385.3	5112.6	5907.5	6678.1	7494.6	8759.9	10422.6	11090.4	11314.8
17.5°	2992.9	3458.0	4244.7	5107.2	6021.0	7053.8	8640.9	10603.8	11425.7	11633.8
20°	2290.0	2622.6	3284.9	4196.1	5266.7	6618.5	8670.6	11287.8	12271.9	12555.8
22.5°	1979.1	2149.4	2552.3	3420.1	4617.8	6240.0	8792.3	12225.9	13412.9	13886.0
25°	1792.5	1881.8	2108.9	2676.6	3998.7	5872.3	9070.7	13488.6	15008.0	15321.7
27.5°	1633.0	1697.9	1838.5	2246.7	3436.4	5531.7	9395.2	14889.1	16497.7	16965.5
30°	1481.6	1568.1	1700.6	1995.3	3076.8	5220.7	9803.5	16024.6	17752.3	18187.5
32.5°	1365.3	1451.8	1573.5	1819.5	2771.3	4893.6	10046.8	17022.3	18776.9	19147.3
35°	1270.7	1343.7	1470.8	1679.0	2538.7	4644.9	9998.1	17814.4	19769.2	20147.7
37.5°	1203.2	1265.3	1392.4	1546.5	2363.0	4385.3	9973.8	18860.7	20977.7	21415.7
40°	1140.9	1205.8	1322.1	1460.0	2187.2	4079.8	9987.3	19898.9	22264.6	22702.6
42.5°	1092.3	1165.3	1259.9	1435.6	2006.1	3833.8	9987.3	20802.0	23384.0	23805.7
45°	1051.7	1130.1	1222.0	1433.0	1862.8	3647.2	9919.7	21577.9	24276.1	24635.8
47.5°	1016.6	1103.1	1235.6	1384.3	1827.7	3512.1	9860.2	22199.8	25003.5	25341.4
50°	992.2	1094.9	1314.0	1327.5	1838.5	3471.5	10146.8	22983.8	25644.2	25936.2
52.5°	973.3	1097.7	1311.3	1243.7	1819.5	3498.5	10744.3	24208.6	26533.7	26555.4
55°	935.5	1094.9	1243.7	1149.1	1741.2	3544.5	11512.2	25987.5	27926.1	27942.3
57.5°	897.6	1065.3	1154.5	1067.9	1581.7	3544.5	12436.9	27671.9	29605.1	29618.5
60°	859.7	1108.5	1013.9	997.6	1373.5	3479.6	13412.9	28412.7	30132.3	30270.2
62.5°	821.9	1116.6	905.7	935.5	1222.0	3322.8	14140.1	27593.5	29418.5	29615.9
65°	778.6	900.3	835.5	870.5	1143.6	3060.5	13910.3	26093.0	28077.5	28312.7
67.5°	727.3	762.4	759.7	803.0	1116.6	2673.9	12699.1	24195.0	26633.7	26620.2
70°	665.1	684.0	692.2	738.1	1065.3	2373.8	10582.1	21732.0	24706.0	25008.9
72.5°	600.2	616.5	624.5	665.1	1013.9	2203.5	8213.7	18338.9	21399.5	21872.6
75°	529.9	540.7	551.5	586.7	959.8	1952.0	5850.7	13999.6	16389.6	17133.1
77.5°	456.9	456.9	470.4	505.6	808.4	1611.4	3925.7	9819.7	11104.0	11863.6
80°	370.4	373.1	367.7	405.5	594.8	1103.1	2230.5	6559.1	7389.1	7535.1
82.5°	283.9	275.8	278.5	297.4	443.4	751.6	1189.6	4074.4	4152.8	4071.7
85°	178.4	178.4	173.0	194.7	283.9	392.0	648.9	2495.5	1949.4	1854.7
87.5°	73.0	59.5	67.6	78.4	135.1	159.5	254.2	513.7	197.4	181.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)