

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: P649427

Luminaire Tested: **GLAN-SA5D-835-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P649427
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-SA5D-835-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 26147.5 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

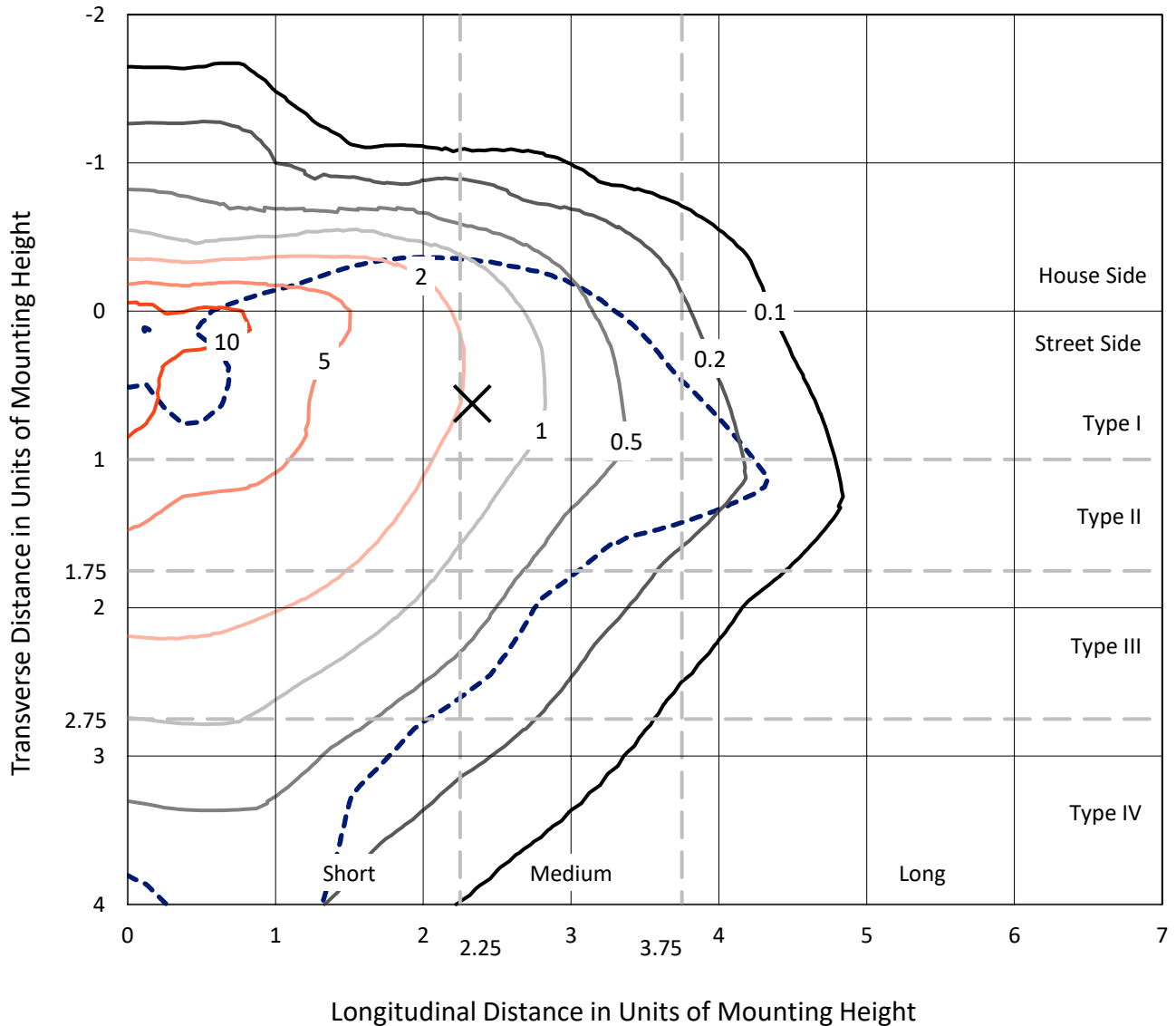
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P649427
 CATALOG NUMBER: GLAN-SA5D-835-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

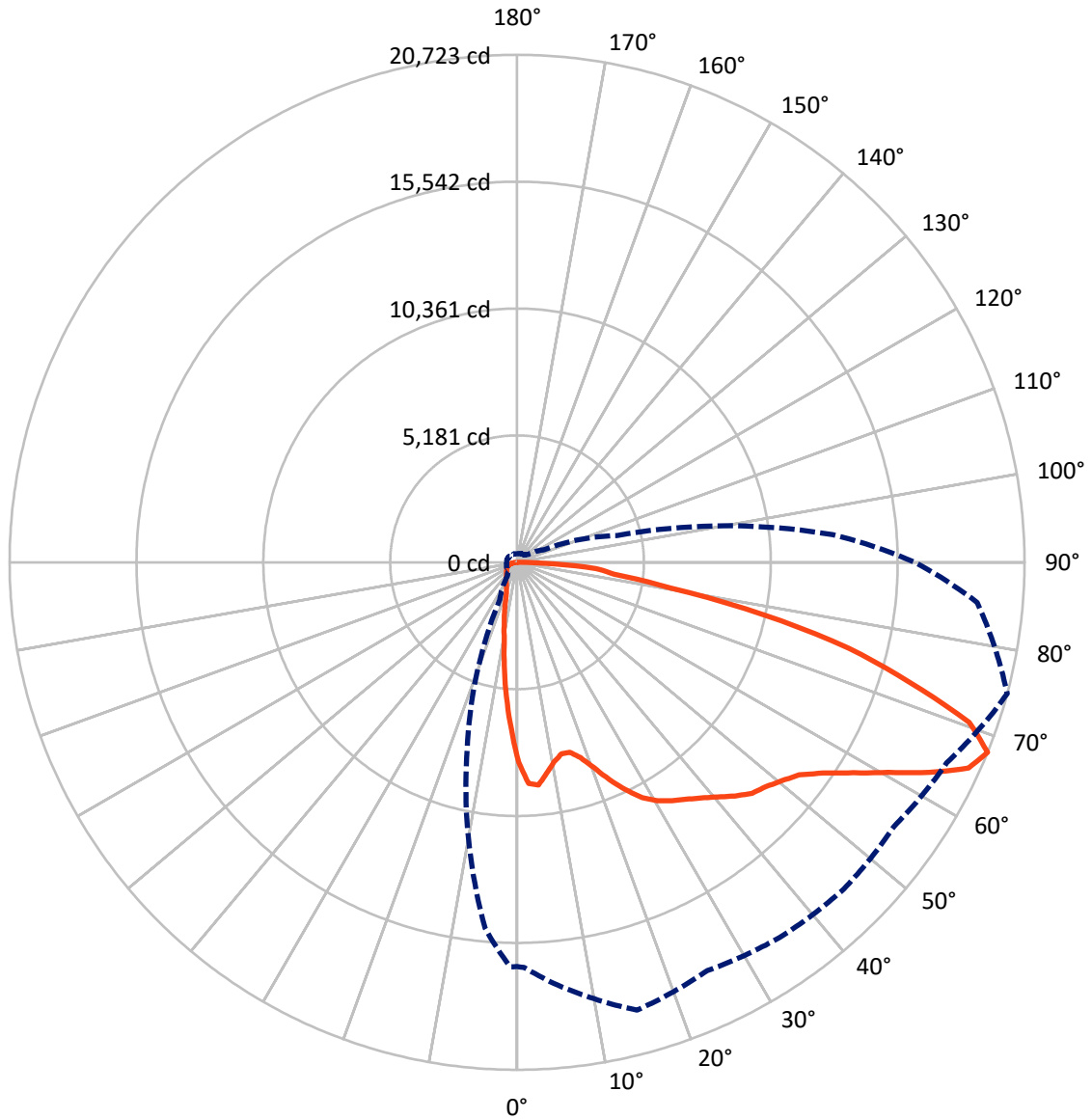
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 fc
 Type III - Medium - N/A

REPORT NUMBER: P649427
CATALOG NUMBER: GLAN-SA5D-835-U-SLL

Luminous Intensity Polar Plot



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

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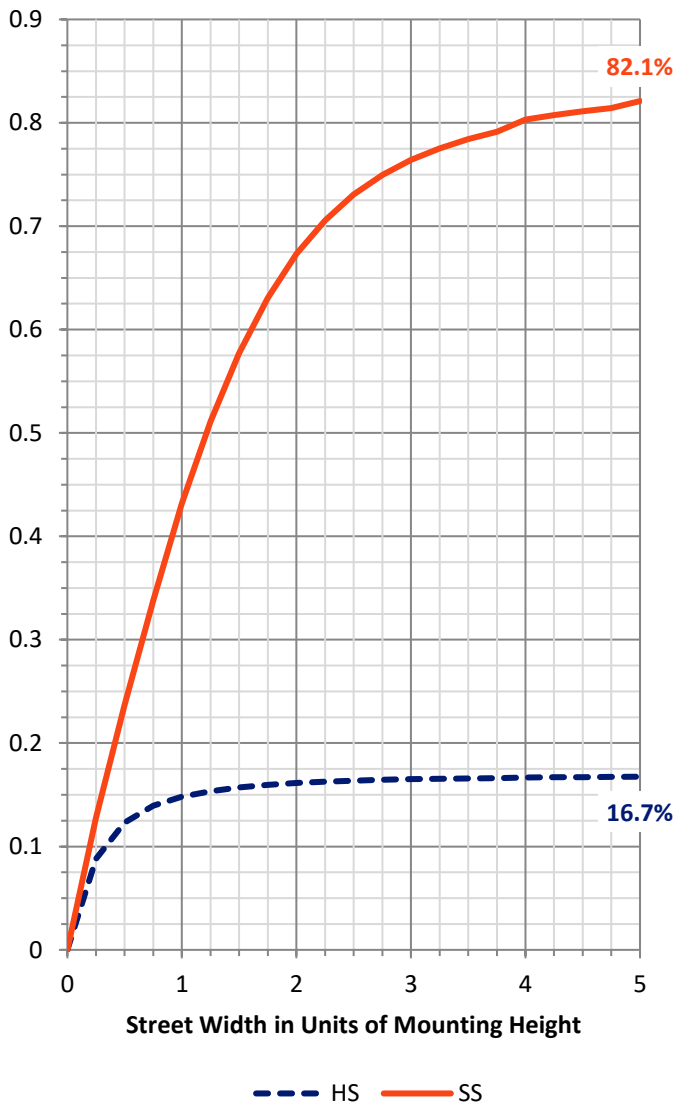
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4419.5	0.0	4419.5
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	21728.0	0.0	21728.0
	% Fixture	83.1	0.0	83.1
Total	Lumens	26147.5	0.0	26147.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	619.6	2.4
10°-20°	1292.2	4.9
20°-30°	1859.5	7.1
30°-40°	2678.2	10.2
40°-50°	3762.1	14.4
50°-60°	5246.9	20.1
60°-70°	6238.2	23.9
70°-80°	3673.9	14.1
80°-90°	776.9	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°	26147.5	100.0
0°-180°	26147.5	100.0

Coefficient of Utilization

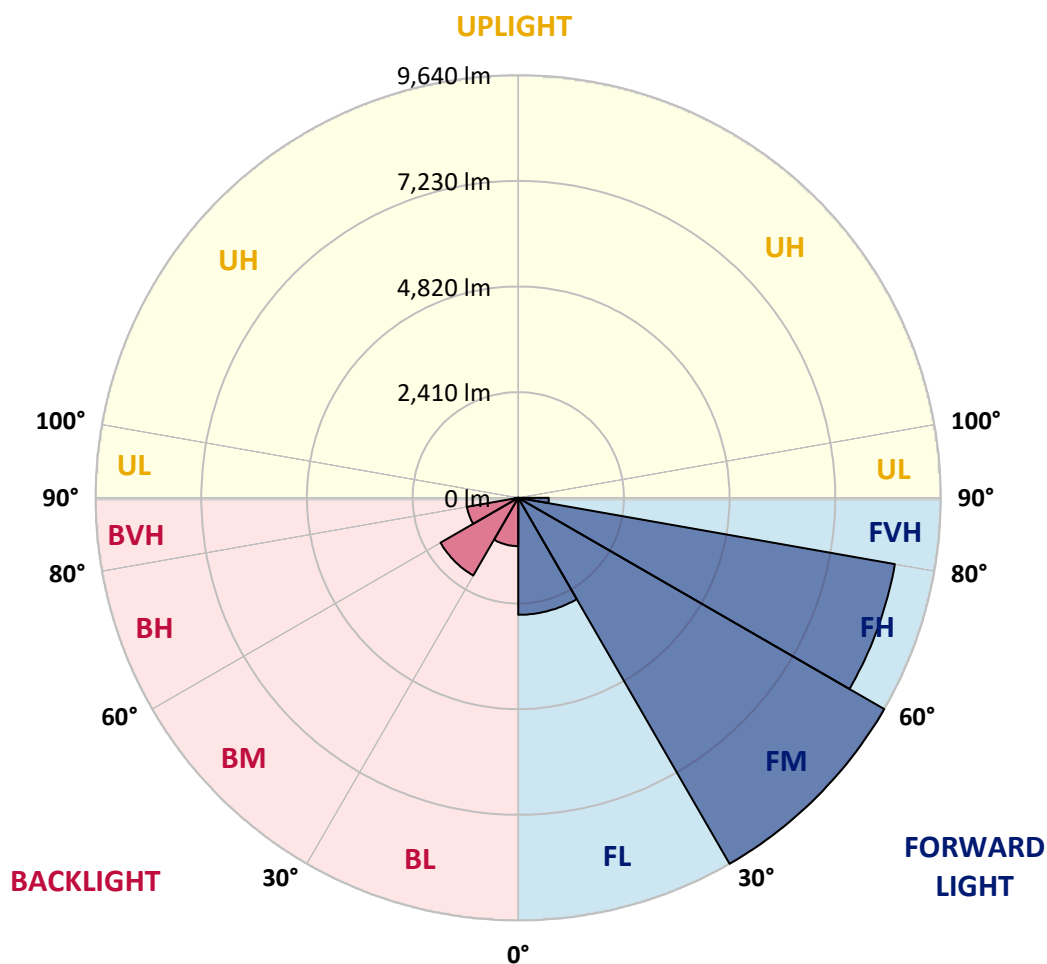


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 CATALOG NUMBER: GLAN-SA5D-835-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2668.9	10.2			
FM (30°-60°)	9639.6	36.9			
FH (60°-80°)	8722.9	33.4			G4/12000
FVH (80°-90°)	696.5	2.7			G4/750
BL (0°-30°)	1102.4	4.2	B3/2500		
BM (30°-60°)	2047.6	7.8	B2/2500		
BH (60°-80°)	1189.2	4.5	B3/2500		G3/2500
BVH (80°-90°)	80.4	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-G4
 Type III Medium





REPORT NUMBER: P649427

CATALOG NUMBER: GLAN-SA5D-835-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8169.1	8169.1	8169.1	8169.1	8169.1	8169.1	8169.1	8169.1	8169.1	8169.1	8169.1
2.5°	8808.0	8819.7	8895.1	9114.7	9265.7	9321.0	9359.6	9287.5	9217.1	9046.0	8787.8
5°	8781.1	8849.9	9046.0	9539.0	9928.0	10095.7	10146.0	9929.7	9572.6	9133.2	8605.0
7.5°	8268.0	8360.2	8662.1	9488.7	10174.5	10566.8	10514.8	10124.2	9480.3	8697.3	7959.5
10°	7659.4	7761.6	8125.5	9124.8	10008.5	10548.4	10548.4	10072.2	9217.1	8286.5	7436.4
12.5°	7176.4	7283.8	7699.6	8751.0	9663.1	10174.5	10260.0	9850.8	9027.6	8026.6	7092.6
15°	7017.2	7121.2	7568.8	8524.6	9297.6	9609.4	9637.9	9503.8	8935.4	8045.0	7077.5
17.5°	7215.0	7349.2	7801.9	8591.6	8962.2	8980.6	9002.5	9108.1	8945.5	8382.0	7382.7
20°	7786.8	7931.0	8403.9	8808.0	8668.7	8477.6	8489.4	8761.0	9064.5	8938.7	8112.1
22.5°	8611.7	8737.5	9222.1	9188.6	8544.7	8150.6	8068.5	8447.5	9240.6	9632.9	8888.5
25°	9502.1	9649.7	10206.3	9753.6	8579.9	7956.1	7904.2	8263.0	9423.3	10281.8	9785.5
27.5°	10521.6	10665.8	11105.1	10323.7	8764.4	7941.0	7879.0	8246.2	9587.6	10882.1	10642.3
30°	11279.4	11411.9	11710.4	10803.3	8990.7	8041.6	7964.5	8378.7	9728.5	11292.9	11477.3
32.5°	11874.7	12012.2	12174.9	11101.7	9289.2	8224.4	8081.9	8620.1	9912.9	11606.4	12096.0
35°	12495.1	12657.7	12646.0	11366.7	9567.5	8435.7	8296.5	8968.9	10203.0	11879.8	12880.7
37.5°	13281.5	13346.9	13263.1	11604.8	9901.2	8816.3	8739.2	9487.0	10615.4	12210.0	13797.9
40°	14079.6	14210.4	13779.5	11893.1	10306.9	9532.3	9523.9	10253.3	11105.1	12597.4	14686.6
42.5°	14763.7	14874.4	14262.4	12144.6	10798.2	10405.9	10469.6	11281.2	11747.3	13046.7	15400.9
45°	15278.5	15377.4	14708.4	12387.8	11445.4	11415.3	11790.9	12382.8	12557.1	13450.8	15820.0
47.5°	15716.1	15811.7	15018.6	12756.6	12245.3	12620.9	13274.7	13531.3	13249.6	13682.2	16289.6
50°	16085.0	16113.5	15231.5	13196.0	13237.9	14098.1	14731.9	14897.9	13933.7	14014.2	16697.0
52.5°	16469.0	16432.1	15598.8	13749.3	14311.0	15499.8	15960.9	16133.6	14589.3	14423.3	17290.6
55°	17329.1	17364.4	16422.0	14446.8	15395.9	16876.5	17483.5	17317.5	15315.4	15176.2	18045.1
57.5°	18368.7	18338.6	17580.7	15538.4	16500.9	18157.5	18610.2	18343.6	16284.5	16210.8	18809.7
60°	18772.8	18813.1	18549.8	16712.1	17590.7	19279.2	19742.0	19327.8	17446.5	17413.0	19386.5
62.5°	18367.1	18593.4	18771.2	17756.7	18519.7	20104.2	20563.6	20090.8	18658.8	18901.9	19790.6
65°	17558.9	17607.5	18212.8	18642.1	18967.3	20240.0	20479.8	20228.3	19671.5	20258.4	19772.2
67.5°	16509.2	16551.1	17260.4	18932.2	18390.6	18697.4	18865.1	18791.3	19358.0	20722.9	18861.7
70°	15509.9	15476.4	16225.9	18192.7	16009.5	15543.4	15682.6	15451.2	16703.7	19587.8	17076.0
72.5°	13564.8	13685.6	14490.4	16137.0	12676.2	11918.3	12221.8	11623.2	12847.2	16775.9	13860.0
75°	10625.5	10654.0	11997.1	13543.1	9562.5	8367.0	8777.7	8527.9	9840.8	13994.1	9570.8
77.5°	7357.5	7293.8	8737.5	10343.8	6819.3	6125.2	6131.8	6012.8	6871.3	10303.6	6502.4
80°	4673.1	4575.9	5469.6	6390.1	4686.5	5013.5	4849.1	4844.1	4473.6	6356.6	3932.0
82.5°	2525.2	2632.5	3455.8	4005.7	3361.9	3875.0	3551.4	3447.4	3070.1	3978.9	2515.2
85°	1150.2	1250.8	1842.7	2724.7	2553.7	2582.2	1725.3	2035.6	2540.3	3231.0	1343.1
87.5°	112.4	144.2	380.6	1286.1	871.9	687.5	256.5	494.6	638.8	1148.6	107.3
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: P649427
 CATALOG NUMBER: GLAN-SA5D-835-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8169.1	8169.1	8169.1	8169.1	8169.1	8169.1	8169.1	8169.1	8169.1	8169.1	8169.1
2.5°	8682.2	8595.0	8298.2	8053.4	7793.5	7595.6	7337.4	7164.8	7045.7	6866.3	6844.4
5°	8283.1	8070.1	7553.8	7027.3	6572.8	6230.8	5883.7	5565.1	5377.3	5318.6	5243.2
7.5°	7610.8	7251.9	6587.9	5984.3	5462.8	4953.1	4560.7	4282.4	4096.3	3987.3	3856.5
10°	7057.4	6641.6	5833.4	5094.0	4664.7	4347.8	4002.4	3703.9	3474.2	3278.0	3170.8
12.5°	6685.2	6215.7	5306.9	4706.6	4374.6	4037.6	3633.5	3298.2	2959.4	2736.4	2640.9
15°	6572.8	6076.5	5144.2	4513.8	4037.6	3596.6	3143.9	2706.3	2370.9	2159.7	2089.2
17.5°	6847.8	6247.6	5142.6	4257.2	3641.9	3115.4	2535.3	2124.4	1780.7	1623.1	1572.8
20°	7360.9	6576.2	5157.7	4004.0	3212.6	2471.5	1844.4	1507.4	1343.1	1276.0	1250.8
22.5°	8076.9	7077.5	5203.0	3754.3	2743.2	1898.1	1381.6	1210.6	1151.9	1140.2	1135.2
25°	8958.9	7697.9	5355.5	3529.5	2347.4	1448.7	1155.2	1078.1	1044.6	1032.9	1031.2
27.5°	9770.4	8499.4	5540.0	3336.8	1965.2	1249.2	1044.6	979.2	945.7	944.0	947.4
30°	10503.2	9170.1	5694.2	3120.4	1675.1	1110.0	972.5	907.1	875.2	873.6	883.6
32.5°	11136.9	9721.7	5808.2	2907.4	1514.1	1024.5	907.1	836.7	809.9	804.8	809.9
35°	11814.4	10271.7	5756.2	2741.4	1421.8	954.1	858.5	789.7	757.9	742.8	742.8
37.5°	12587.4	10838.4	5667.4	2603.9	1380.0	895.4	816.6	749.5	717.6	702.6	700.9
40°	13430.7	11405.2	5545.0	2481.6	1338.1	860.2	788.1	717.6	679.1	664.0	660.6
42.5°	14175.2	11889.8	5444.4	2401.1	1269.3	866.9	763.0	694.2	645.6	625.5	623.7
45°	14822.4	12377.7	5426.0	2354.2	1212.3	856.8	756.2	675.7	618.7	597.0	593.6
47.5°	15328.8	12885.8	5531.6	2327.3	1150.2	803.1	799.8	664.0	595.2	571.7	568.4
50°	15945.9	13606.8	5773.1	2272.0	1093.2	752.9	845.1	662.3	576.8	546.6	538.2
52.5°	16767.5	14545.8	6100.0	2173.1	1011.1	705.9	806.5	662.3	555.0	524.8	514.7
55°	18009.9	15742.9	6420.3	2033.9	895.4	643.9	727.7	642.2	523.1	496.3	489.6
57.5°	18833.2	16618.2	6624.8	1841.1	751.2	598.6	627.1	610.3	491.3	462.8	462.8
60°	18875.1	16853.0	6527.6	1597.9	660.6	556.7	545.0	615.4	462.8	432.6	429.2
62.5°	18392.2	16277.9	6021.2	1380.0	612.0	511.4	493.0	539.9	434.3	404.1	399.1
65°	17637.7	14810.7	5142.6	1276.0	585.2	471.1	444.4	442.6	404.1	375.6	368.9
67.5°	16251.0	12942.8	4225.4	1215.6	571.7	425.9	400.7	392.4	368.9	345.4	342.1
70°	14207.1	10840.2	3388.7	1190.5	565.1	379.0	358.8	348.7	328.6	310.2	308.5
72.5°	11053.1	8792.9	2796.8	1173.7	561.7	335.4	313.5	300.1	288.4	271.6	271.6
75°	7939.4	6468.9	2134.5	1058.0	519.8	288.4	264.9	256.5	239.8	226.4	229.7
77.5°	5005.1	4356.2	1405.1	778.0	402.4	231.4	211.3	206.2	192.9	174.4	186.1
80°	3380.3	3063.4	820.0	489.6	253.2	169.4	162.6	161.0	145.9	125.7	127.4
82.5°	2300.5	2256.9	425.9	278.4	145.9	98.9	95.6	98.9	82.1	67.1	67.1
85°	898.7	1227.4	201.2	109.0	47.0	15.1	21.8	23.5	13.4	6.7	8.4
87.5°	16.8	125.7	5.0	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: P649427
 CATALOG NUMBER: GLAN-SA5D-835-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8169.1	8169.1	8169.1	8169.1	8169.1	8169.1	8169.1	8169.1	8169.1	8169.1	8169.1
2.5°	6810.9	6795.8	6821.0	6713.7	6735.4	6775.7	6795.8	6807.6	6973.6	6935.0	7040.7
5°	5313.6	5298.5	5395.7	5409.2	5459.5	5449.4	5498.1	5509.8	5570.2	5592.0	5739.5
7.5°	3864.9	3930.3	4041.0	4098.0	4183.5	4210.3	4185.1	4247.2	4121.4	4212.0	4238.8
10°	3105.3	3026.5	2979.5	3110.4	3127.1	3251.2	3200.9	3160.7	3234.4	3237.8	3308.3
12.5°	2585.5	2416.2	2303.8	2340.7	2380.9	2434.7	2443.0	2523.5	2577.2	2627.4	2669.4
15°	2027.2	1968.5	1866.2	1815.9	1872.9	1894.7	1946.7	2013.8	2070.8	2085.8	2142.9
17.5°	1556.1	1566.1	1549.3	1519.1	1554.3	1571.1	1574.5	1576.1	1591.2	1581.2	1665.0
20°	1252.6	1287.7	1329.7	1336.3	1348.1	1356.5	1341.4	1284.4	1286.1	1321.3	1348.1
22.5°	1133.5	1140.2	1187.1	1202.2	1239.1	1224.0	1180.5	1153.6	1150.2	1158.6	1172.1
25°	1039.6	1049.6	1083.2	1106.6	1135.2	1108.3	1076.5	1051.3	1048.0	1056.3	1069.7
27.5°	955.7	970.8	1001.0	1024.5	1051.3	1026.2	996.0	974.2	972.5	970.8	979.2
30°	888.7	905.5	927.2	954.1	972.5	950.7	922.2	910.5	908.8	905.5	908.8
32.5°	821.6	848.5	870.2	883.6	902.1	885.3	863.5	856.8	845.1	835.0	830.0
35°	746.1	774.6	808.2	825.0	843.4	826.6	811.6	783.1	763.0	761.2	764.6
37.5°	702.6	714.3	741.1	769.6	788.1	779.7	751.2	722.7	717.6	717.6	721.0
40°	664.0	669.0	680.7	717.6	751.2	726.0	690.8	682.5	682.5	680.7	682.5
42.5°	625.5	630.5	630.5	659.0	712.6	672.4	645.6	645.6	645.6	647.2	652.2
45°	590.2	591.9	590.2	610.3	660.6	627.1	608.6	613.7	617.0	620.4	623.7
47.5°	560.0	561.7	560.0	576.8	602.0	588.5	578.5	585.2	591.9	597.0	600.2
50°	533.2	531.5	534.9	545.0	556.7	560.0	553.3	563.4	566.7	573.5	581.8
52.5°	509.7	508.1	511.4	516.5	533.2	533.2	533.2	541.6	548.3	555.0	566.7
55°	482.9	484.6	489.6	496.3	518.1	514.7	516.5	523.1	529.9	539.9	546.6
57.5°	457.7	461.1	467.8	477.9	499.6	498.0	499.6	503.0	511.4	516.5	523.1
60°	429.2	436.0	444.4	451.0	472.9	471.1	479.6	486.2	491.3	491.3	494.6
62.5°	400.7	410.8	419.2	424.2	447.7	449.4	461.1	466.1	469.5	466.1	471.1
65°	372.2	387.4	390.7	397.4	420.9	422.5	436.0	447.7	444.4	441.0	449.4
67.5°	343.7	362.2	360.5	368.9	392.4	395.7	407.5	427.6	420.9	417.5	424.2
70°	311.9	325.3	327.0	332.0	363.9	358.8	377.2	395.7	390.7	392.4	392.4
72.5°	276.6	288.4	288.4	298.5	332.0	323.6	338.7	358.8	358.8	357.1	357.1
75°	234.7	241.5	248.1	263.2	298.5	288.4	298.5	316.9	320.2	316.9	316.9
77.5°	189.5	199.5	202.9	223.0	248.1	246.5	256.5	264.9	271.6	268.3	268.3
80°	134.1	144.2	157.6	179.4	194.5	199.5	204.6	211.3	214.6	214.6	218.0
82.5°	75.5	90.5	102.3	124.1	130.8	156.0	154.3	159.3	154.3	135.9	150.9
85°	16.8	31.9	45.3	57.0	65.4	90.5	95.6	107.3	88.9	82.1	82.1
87.5°	0.0	0.0	0.0	0.0	0.0	13.4	26.9	36.9	31.9	26.9	26.9
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: P649427
 CATALOG NUMBER: GLAN-SA5D-835-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8169.1	8169.1	8169.1	8169.1	8169.1	8169.1	8169.1	8169.1	8169.1	8169.1
2.5°	7129.5	7275.4	7451.4	7754.9	7967.9	8197.6	8429.0	8675.5	8740.9	8808.0
5°	5779.7	6066.4	6222.4	6629.8	7057.4	7600.7	8045.0	8531.3	8734.1	8781.1
7.5°	4378.0	4572.5	4981.6	5394.1	5923.9	6494.0	7174.8	7932.7	8169.1	8268.0
10°	3470.9	3735.8	4094.6	4537.3	5001.7	5615.4	6383.3	7268.7	7604.0	7659.4
12.5°	2954.4	3249.5	3640.2	4108.0	4547.4	5010.1	5784.8	6698.6	7057.4	7176.4
15°	2362.5	2719.7	3170.8	3663.7	4141.5	4648.0	5432.7	6463.8	6878.0	7017.2
17.5°	1856.2	2144.6	2632.5	3167.4	3734.1	4374.6	5358.9	6576.2	7085.9	7215.0
20°	1420.2	1626.4	2037.2	2602.3	3266.3	4104.6	5377.3	7000.4	7610.8	7786.8
22.5°	1227.4	1333.0	1582.8	2121.1	2863.9	3869.9	5452.7	7582.3	8318.4	8611.7
25°	1111.7	1167.0	1307.8	1660.0	2479.9	3641.9	5625.5	8365.3	9307.6	9502.1
27.5°	1012.7	1053.0	1140.2	1393.3	2131.2	3430.6	5826.7	9233.8	10231.5	10521.6
30°	918.9	972.5	1054.7	1237.5	1908.2	3237.8	6079.8	9938.1	11009.5	11279.4
32.5°	846.7	900.4	975.9	1128.5	1718.7	3034.9	6230.8	10556.8	11645.0	11874.7
35°	788.1	833.3	912.1	1041.2	1574.5	2880.7	6200.6	11048.1	12260.4	12495.1
37.5°	746.1	784.7	863.5	959.1	1465.5	2719.7	6185.5	11697.0	13009.9	13281.5
40°	707.6	747.8	820.0	905.5	1356.5	2530.2	6193.9	12340.9	13808.0	14079.6
42.5°	677.4	722.7	781.4	890.3	1244.1	2377.7	6193.9	12900.9	14502.2	14763.7
45°	652.2	700.9	757.9	888.7	1155.2	2261.9	6152.0	13382.1	15055.5	15278.5
47.5°	630.5	684.1	766.2	858.5	1133.5	2178.1	6115.1	13767.7	15506.5	15716.1
50°	615.4	679.1	814.9	823.2	1140.2	2152.9	6292.8	14254.0	15903.9	16085.0
52.5°	603.6	680.7	813.2	771.3	1128.5	2169.7	6663.4	15013.6	16455.6	16469.0
55°	580.1	679.1	771.3	712.6	1079.8	2198.2	7139.6	16116.9	17319.1	17329.1
57.5°	556.7	660.6	716.0	662.3	980.9	2198.2	7713.0	17161.5	18360.3	18368.7
60°	533.2	687.5	628.7	618.7	851.7	2157.9	8318.4	17620.9	18687.3	18772.8
62.5°	509.7	692.5	561.7	580.1	757.9	2060.7	8769.4	17112.9	18244.7	18367.1
65°	482.9	558.4	518.1	539.9	709.2	1898.1	8626.9	16182.3	17413.0	17558.9
67.5°	451.0	472.9	471.1	498.0	692.5	1658.3	7875.6	15005.2	16517.6	16509.2
70°	412.5	424.2	429.2	457.7	660.6	1472.2	6562.8	13477.7	15322.1	15509.9
72.5°	372.2	382.3	387.4	412.5	628.7	1366.6	5094.0	11373.4	13271.5	13564.8
75°	328.6	335.4	342.1	363.9	595.2	1210.6	3628.5	8682.2	10164.4	10625.5
77.5°	283.4	283.4	291.7	313.5	501.4	999.3	2434.7	6089.9	6886.4	7357.5
80°	229.7	231.4	228.0	251.5	368.9	684.1	1383.3	4067.8	4582.5	4673.1
82.5°	176.1	171.0	172.7	184.5	275.0	466.1	737.7	2526.8	2575.4	2525.2
85°	110.6	110.6	107.3	120.7	176.1	243.1	402.4	1547.6	1209.0	1150.2
87.5°	45.3	36.9	41.9	48.6	83.9	98.9	157.6	318.6	122.4	112.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)