

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: P649646

Luminaire Tested: **GLAN-SA9D-835-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P649646
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9D-835-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39435 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

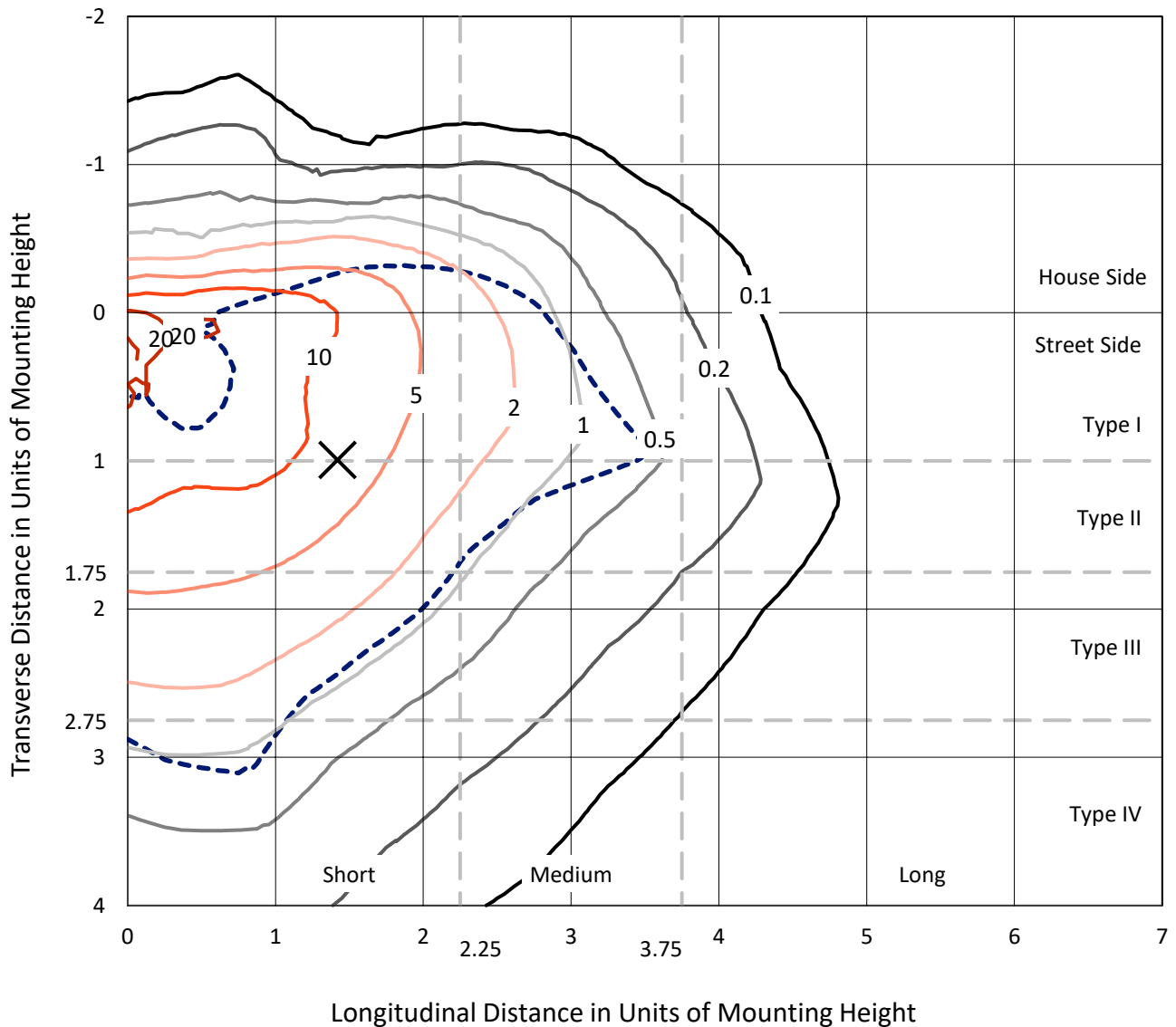
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

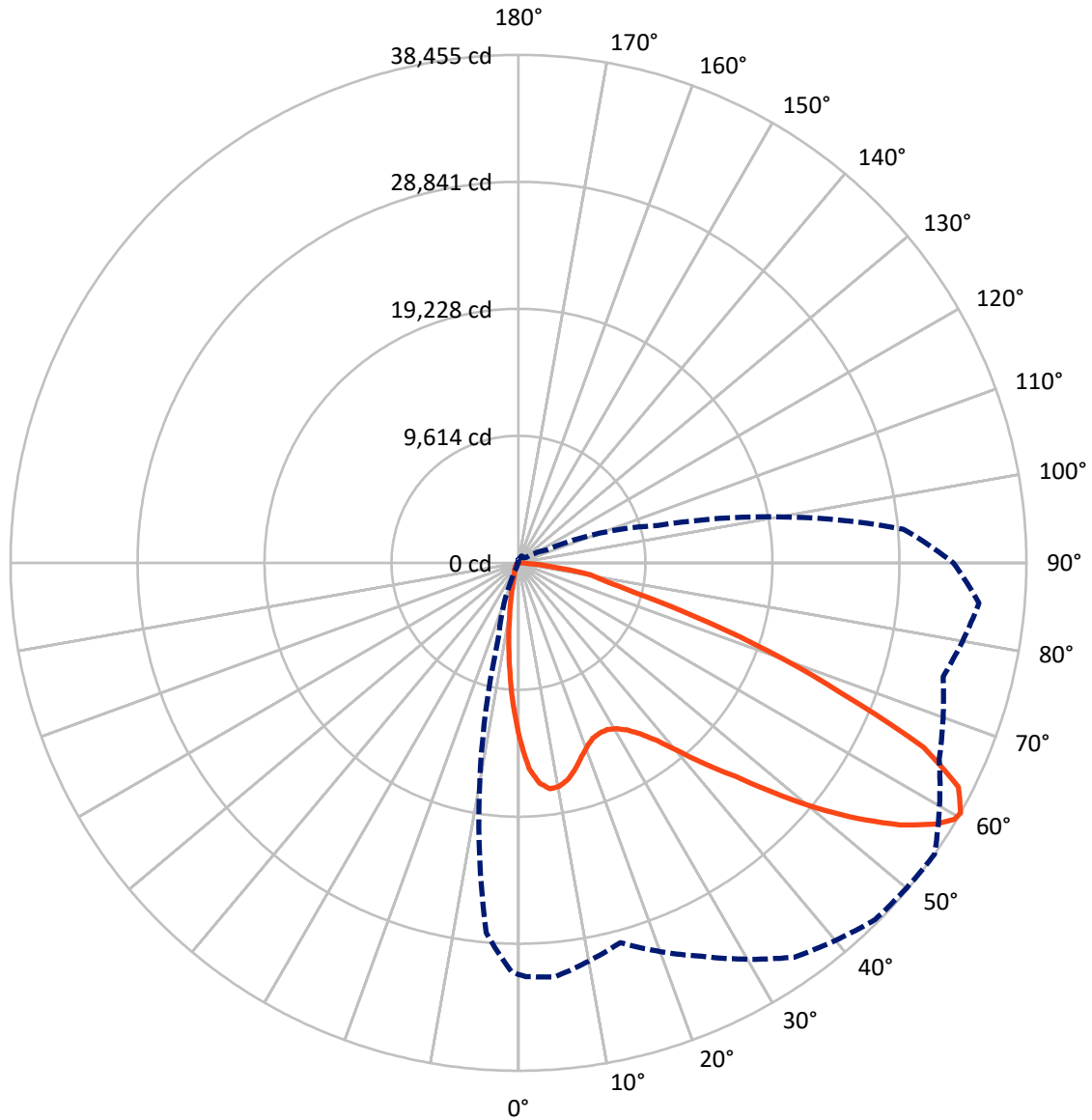
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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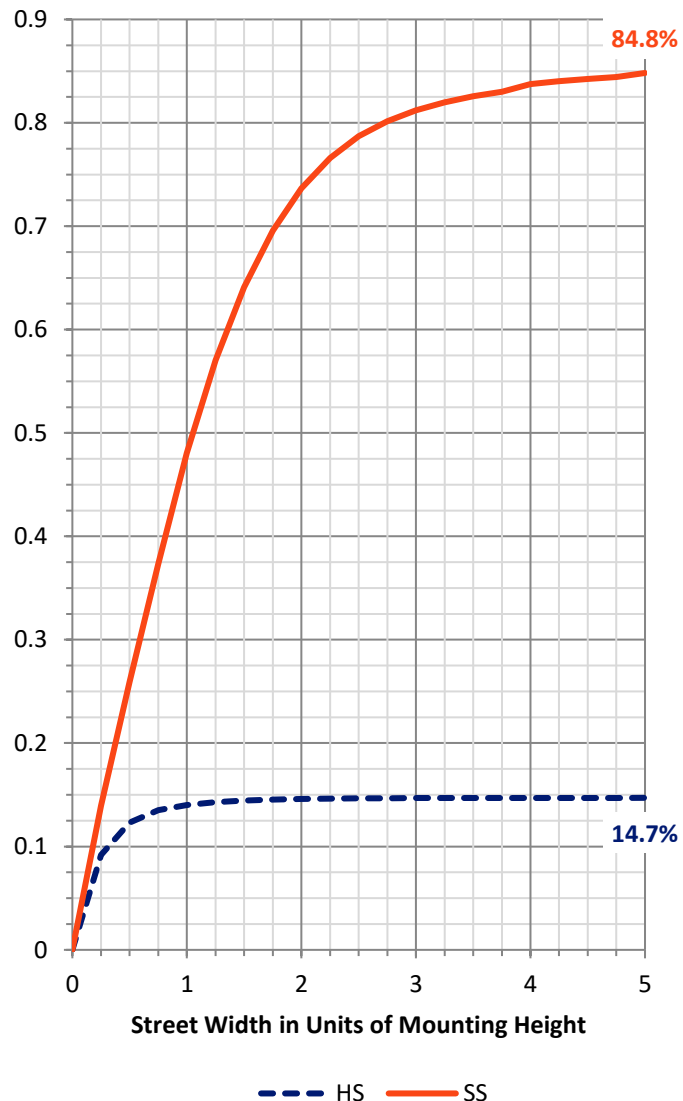
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5852.5	0.0	5852.5
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	33582.5	0.0	33582.5
	% Fixture	85.2	0.0	85.2
Total	Lumens	39435.0	0.0	39435.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	988.8	2.5
10°-20°	1947.1	4.9
20°-30°	2882.1	7.3
30°-40°	4296.1	10.9
40°-50°	6291.7	16.0
50°-60°	9083.2	23.0
60°-70°	9555.1	24.2
70°-80°	3930.6	10.0
80°-90°	460.4	1.2
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°	39435.0	100.0
0°-180°	39435.0	100.0

Coefficient of Utilization



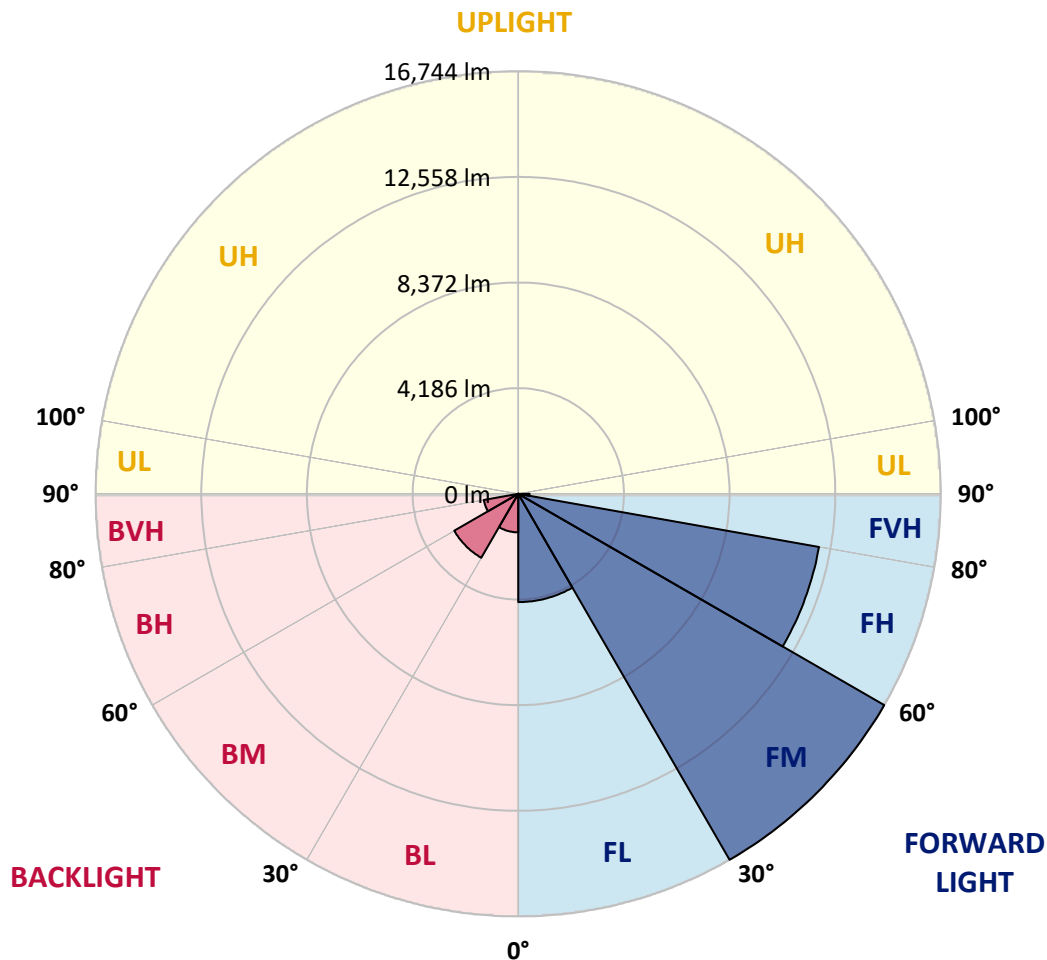
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4291.1	10.9			
FM (30°-60°)	16744.2	42.5			
FH (60°-80°)	12100.4	30.7			G5
FVH (80°-90°)	446.8	1.1			G3/500
BL (0°-30°)	1526.9	3.9	B3/2500		
BM (30°-60°)	2926.8	7.4	B3/5000		
BH (60°-80°)	1385.2	3.5	B3/2500		G3/2500
BVH (80°-90°)	13.5	0.0			G1/100
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13352.6	13352.6	13352.6	13352.6	13352.6	13352.6	13352.6	13352.6	13352.6	13352.6	13352.6
2.5°	14588.0	14563.7	14779.2	15131.3	15486.5	15671.6	15635.2	15620.0	15325.6	15110.1	14657.8
5°	14557.6	14682.1	15067.6	16020.6	16743.1	17092.2	17195.4	16761.3	16187.6	15356.0	14330.0
7.5°	13686.4	13841.2	14469.6	15960.0	17243.9	18002.7	17975.5	17280.3	16096.5	14809.6	13346.5
10°	12605.9	12788.0	13525.6	15334.7	17001.1	18002.7	18057.4	17177.1	15705.0	14053.8	12514.8
12.5°	11844.0	12059.5	12876.0	14751.9	16375.8	17362.3	17426.1	16788.6	15410.5	13762.4	12062.6
15°	11586.0	11789.4	12618.0	14457.5	15711.1	16242.2	16227.0	16160.3	15295.2	13832.2	12086.9
17.5°	12029.2	12196.1	13131.0	14591.0	15088.8	15034.1	15113.1	15434.9	15319.5	14418.0	12851.8
20°	13173.5	13343.5	14348.2	15000.8	14612.3	14266.3	14302.7	14839.9	15544.1	15519.8	14047.6
22.5°	14748.8	15037.2	15947.8	15796.1	14548.5	13789.6	13713.8	14411.9	15926.6	16788.6	15662.5
25°	16743.1	17034.5	17744.7	17064.9	14861.2	13677.4	13607.5	14281.4	16391.0	18027.1	17480.7
27.5°	18418.6	18640.2	19347.5	18300.2	15322.5	13725.9	13610.6	14299.6	16767.4	19080.3	19013.5
30°	19760.3	19924.1	20340.0	18877.0	15720.1	13938.4	13804.8	14566.7	16934.3	19593.3	20255.0
32.5°	20840.9	21117.0	21247.6	19493.1	16290.8	14339.1	14111.5	15079.7	17341.0	20227.7	21557.2
35°	22076.2	22395.0	22228.0	20082.0	17043.6	14964.4	14685.1	15911.4	17957.2	20813.5	23068.8
37.5°	23642.5	24009.8	23357.1	20701.2	17838.9	15905.3	15774.8	17080.0	18892.1	21651.3	24689.7
40°	25263.3	25475.8	24452.9	21454.0	18816.3	17274.3	17398.7	18816.3	20115.3	22656.0	26413.8
42.5°	26529.1	26729.4	25579.0	22085.4	19814.9	18898.2	19417.2	20910.6	21517.7	23685.0	27700.7
45°	27497.4	27667.4	26359.1	22774.3	21162.6	21250.6	22231.0	23068.8	22923.1	24313.3	28693.3
47.5°	28250.2	28395.9	26960.2	23515.0	23181.1	24128.1	25627.6	25982.8	24380.1	24993.2	29591.8
50°	28559.8	28602.3	27148.3	24459.0	25472.8	27794.9	29358.1	29142.6	26049.5	25749.0	30548.0
52.5°	28963.5	28954.4	27685.6	25357.5	27627.9	31073.0	32633.2	32144.6	27937.5	26881.3	31622.5
55°	30022.8	30034.9	28836.0	26632.3	29464.3	33719.9	35389.3	35034.2	29928.8	28793.5	32876.1
57.5°	31309.8	31355.4	30472.1	28122.7	31218.8	35638.2	37447.4	37310.7	32621.1	30921.3	34059.9
59°	31476.8	31567.8	31246.1	29172.9	32259.9	36227.1	38151.5	38285.1	34062.9	32323.6	34700.4
60°	31173.3	31325.0	31470.7	29767.9	32870.0	36439.6	38194.0	38455.1	35146.5	33276.7	34991.7
62.5°	29849.8	30089.6	30821.2	31598.2	33631.9	35777.9	36837.3	37383.6	36488.2	35780.9	35019.0
65°	28116.6	28241.1	29297.4	31923.0	32153.7	32687.9	33015.7	33716.8	34876.4	36746.2	33765.5
67.5°	25275.5	25642.8	26935.8	30038.0	27791.8	27160.5	27078.5	26380.4	29391.5	34445.3	30675.4
70°	20880.3	21044.2	22637.8	24626.0	20974.4	20003.1	20391.6	20130.5	22783.5	29652.5	24689.7
72.5°	15790.0	16160.3	17717.4	19629.7	14272.3	13012.6	14084.1	13987.0	17113.4	23830.7	16961.7
75°	11233.9	11473.7	13458.8	15362.0	9995.5	8468.7	8854.2	9215.4	11947.2	18816.3	10022.8
77.5°	7719.0	7925.4	9415.7	10159.3	7291.0	6984.4	6389.4	6738.5	7828.2	11164.1	5454.5
80°	4656.3	4647.2	5627.6	5809.7	5078.1	5897.7	4947.6	5554.8	4732.1	4777.6	2112.6
82.5°	3023.2	2992.9	3442.1	3751.7	2825.9	2971.6	1994.2	2874.5	3083.9	1332.5	667.7
85°	1353.8	1411.4	1654.2	2182.5	1238.4	658.7	406.8	883.3	1314.3	670.8	0.0
87.5°	139.6	109.3	291.4	531.2	170.0	18.2	60.7	30.4	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13352.6	13352.6	13352.6	13352.6	13352.6	13352.6	13352.6	13352.6	13352.6	13352.6	13352.6
2.5°	14448.4	14272.3	13747.2	13255.5	12833.5	12317.5	11983.7	11458.5	11139.8	11042.6	11057.8
5°	13868.6	13361.7	12363.0	11564.8	10675.4	10168.5	9397.5	8656.8	8256.2	8107.5	8040.7
7.5°	12654.5	12111.1	10906.1	9652.5	8699.4	7810.0	7236.3	6583.7	6137.5	5770.2	5706.5
10°	11752.9	11039.7	9546.3	8198.6	7445.8	6778.0	6204.3	5551.7	5026.5	4607.7	4492.4
12.5°	11212.6	10414.4	8747.9	7618.7	6905.4	6219.4	5472.8	4716.9	4179.7	3727.5	3518.0
15°	11115.5	10189.7	8523.3	7202.9	6322.6	5494.0	4501.5	3685.0	3132.5	2704.5	2574.0
17.5°	11701.3	10593.4	8489.9	6768.9	5560.8	4386.1	3354.1	2677.2	2055.0	1815.2	1721.0
20°	12745.5	11306.8	8486.9	6265.0	4777.6	3378.3	2355.4	1745.3	1493.4	1378.1	1323.4
22.5°	14169.1	12278.1	8647.8	5830.9	3964.2	2492.1	1681.6	1390.2	1244.5	1150.4	1129.2
25°	15908.4	13716.8	9042.4	5536.5	3341.9	1954.8	1387.2	1189.8	1068.5	1026.0	1007.7
27.5°	17453.4	15094.9	9476.4	5232.9	2895.8	1730.2	1287.0	1089.7	992.5	959.2	931.8
30°	18785.9	16345.4	9685.9	4832.3	2537.5	1584.5	1305.2	1165.6	1038.1	938.0	892.4
32.5°	19896.8	17304.6	9822.4	4468.0	2234.1	1296.1	1032.0	901.5	843.8	807.4	777.0
35°	21287.0	18342.7	9740.5	4261.6	2079.3	1180.8	940.9	777.0	680.0	607.1	576.8
37.5°	22744.0	19380.8	9597.9	4091.6	2009.4	1095.7	895.4	737.6	631.3	555.5	516.0
40°	24252.6	20343.0	9430.9	3933.9	1945.7	1041.2	868.1	704.2	598.0	516.0	473.5
42.5°	25633.7	21281.0	9364.1	3830.7	1842.5	1050.2	846.9	689.0	564.5	479.6	443.2
45°	26750.7	22170.3	9455.2	3776.0	1730.2	1035.0	852.9	670.8	537.3	455.3	418.9
47.5°	27943.6	23427.0	9749.6	3721.4	1620.9	962.2	898.5	667.7	525.1	440.1	400.7
50°	29330.8	25035.7	10423.5	3587.8	1487.3	883.3	956.1	664.8	510.0	421.9	382.5
52.5°	31179.3	26863.0	11118.5	3354.1	1293.0	807.4	913.7	655.6	479.6	400.7	361.2
55°	32839.6	28787.5	11707.4	3077.9	1047.2	698.1	822.6	616.1	428.0	364.3	327.8
57.5°	33525.6	29874.1	11689.2	2695.4	837.7	613.2	676.9	564.5	373.3	321.7	291.4
59°	33273.7	29737.5	11297.7	2413.1	764.9	567.6	561.6	558.5	349.1	291.4	267.1
60°	32918.6	29239.7	10875.7	2273.5	719.4	537.3	516.0	552.4	327.8	273.2	248.9
62.5°	31558.7	27175.7	9476.4	2036.7	658.7	455.3	412.8	467.5	291.4	236.8	215.5
65°	29588.8	24003.7	8022.5	1969.9	640.5	376.4	343.0	333.9	248.9	200.4	182.1
67.5°	25746.0	20312.7	6498.7	1924.5	646.5	315.7	300.5	252.0	206.4	166.9	154.8
70°	20613.2	15838.5	5321.0	1872.9	652.6	258.0	252.0	200.4	166.9	139.6	127.5
72.5°	12523.9	9388.4	4188.8	1627.0	634.4	206.4	224.6	151.7	121.4	100.1	94.1
75°	7743.2	6425.8	2598.3	1265.7	418.9	151.7	157.9	94.1	82.0	63.7	63.7
77.5°	4486.3	4058.3	928.8	455.3	185.2	91.1	69.8	48.5	45.5	27.3	27.3
80°	1860.6	1490.4	321.7	154.8	100.1	42.5	15.2	3.1	0.0	0.0	0.0
82.5°	543.3	482.6	88.0	69.8	30.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	13352.6	13352.6	13352.6	13352.6	13352.6	13352.6	13352.6	13352.6	13352.6	13352.6	13352.6
2.5°	10799.8	10699.7	10654.1	10808.9	10666.3	10848.4	10708.8	10769.5	10948.6	11027.5	11230.9
5°	8083.2	7980.0	7931.4	8165.1	8153.0	8268.3	8256.2	8362.4	8453.5	8250.2	8459.6
7.5°	5630.6	5560.8	5676.1	5858.2	6052.5	5988.8	5988.8	5846.1	5894.7	5864.4	5855.2
10°	4282.9	4043.1	3982.4	3976.3	4049.2	4064.4	3982.4	3785.1	3857.9	3879.2	4006.7
12.5°	3369.2	3184.1	2901.8	2774.3	2741.0	2768.2	2498.1	2325.1	2407.0	2358.5	2482.9
15°	2416.2	2264.4	2097.4	1954.8	1915.3	1860.6	1566.2	1359.8	1335.6	1344.6	1365.9
17.5°	1724.1	1620.9	1620.9	1469.1	1387.2	1223.3	1074.5	983.4	974.4	983.4	998.6
20°	1271.8	1217.2	1211.1	1171.7	1080.6	971.3	868.1	849.9	843.8	859.0	865.1
22.5°	1095.7	1038.1	989.6	986.5	901.5	810.4	761.9	737.6	740.6	746.7	761.9
25°	980.4	919.7	868.1	837.7	777.0	713.3	667.7	655.6	655.6	664.8	667.7
27.5°	898.5	822.6	777.0	734.5	680.0	625.3	585.8	576.8	570.7	576.8	591.9
30°	840.8	764.9	707.2	643.5	601.0	549.4	516.0	503.9	500.8	503.9	516.0
32.5°	719.4	673.8	628.4	570.7	519.1	485.7	449.2	428.0	428.0	434.1	446.2
35°	543.3	519.1	516.0	500.8	458.4	421.9	379.4	358.1	358.1	370.3	376.4
37.5°	479.6	434.1	428.0	421.9	403.7	355.2	315.7	297.5	294.4	303.6	315.7
40°	437.1	385.5	358.1	352.1	355.2	300.5	258.0	239.8	239.8	242.8	254.9
42.5°	403.7	343.0	294.4	288.4	300.5	252.0	209.5	191.2	191.2	191.2	206.4
45°	376.4	306.5	248.9	218.5	236.8	206.4	170.0	151.7	145.7	151.7	157.9
47.5°	358.1	279.2	218.5	176.0	176.0	163.9	136.6	115.3	109.3	112.3	121.4
50°	343.0	254.9	185.2	142.7	127.5	130.5	103.2	88.0	82.0	82.0	91.1
52.5°	318.7	230.7	160.9	121.4	97.2	88.0	75.9	63.7	60.7	63.7	69.8
55°	288.4	209.5	139.6	100.1	75.9	60.7	54.7	45.5	42.5	45.5	54.7
57.5°	254.9	176.0	112.3	78.9	51.6	39.5	36.4	30.4	24.3	27.3	33.4
59°	233.7	157.9	97.2	63.7	39.5	27.3	27.3	21.2	15.2	18.2	27.3
60°	224.6	145.7	82.0	54.7	33.4	21.2	21.2	15.2	9.1	12.1	21.2
62.5°	191.2	121.4	63.7	33.4	15.2	3.1	9.1	3.1	0.0	3.1	9.1
65°	160.9	97.2	42.5	15.2	0.0	0.0	0.0	0.0	0.0	0.0	3.1
67.5°	133.6	72.8	21.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	106.3	48.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	72.8	27.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	45.5	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	18.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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: P649646
 CATALOG NUMBER: GLAN-SA9D-835-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13352.6	13352.6	13352.6	13352.6	13352.6	13352.6	13352.6	13352.6	13352.6	13352.6
2.5°	11243.0	11677.0	11944.2	12448.1	12964.1	13361.7	13859.5	14305.7	14490.8	14588.0
5°	8672.0	9276.1	9789.1	10557.0	11270.3	12138.5	13018.7	14056.8	14454.4	14557.6
7.5°	6085.9	6702.1	7239.4	8128.7	9145.6	10308.1	11625.4	12942.8	13522.6	13686.4
10°	4395.2	5053.9	5709.6	6598.9	7549.0	8808.7	10180.6	11810.6	12478.4	12605.9
12.5°	2774.3	3481.5	4547.0	5645.8	6650.5	7664.3	9100.0	10872.7	11610.2	11844.0
15°	1608.8	2136.9	2941.3	4374.0	5651.9	6993.5	8559.8	10520.6	11346.2	11586.0
17.5°	1077.6	1259.7	1812.1	2907.9	4595.6	6374.2	8423.1	10808.9	11722.6	12029.2
20°	907.6	989.6	1183.8	1772.6	3539.2	5821.8	8459.6	11592.1	12791.0	13173.5
22.5°	798.3	874.2	998.6	1274.9	2470.8	5135.9	8632.6	12712.2	14260.2	14748.8
25°	704.2	780.1	889.3	1056.3	1660.4	4343.6	9012.0	14351.2	16205.8	16743.1
27.5°	625.3	695.1	789.2	931.8	1277.9	3460.3	9348.9	15947.8	17981.5	18418.6
30°	552.4	610.1	701.2	810.4	1062.4	2668.1	9518.9	17344.1	19274.6	19760.3
32.5°	479.6	534.2	622.3	710.3	874.2	2033.7	9400.5	18370.0	20531.2	20840.9
35°	409.7	467.5	540.3	622.3	755.8	1642.1	8808.7	19523.5	21833.4	22076.2
37.5°	352.1	400.7	476.5	540.3	682.9	1314.3	8092.3	20561.6	23293.4	23642.5
40°	297.5	346.0	421.9	479.6	628.4	1035.0	7445.8	21715.0	24832.4	25263.3
42.5°	242.8	300.5	367.3	461.3	540.3	789.2	6662.6	22649.9	25988.8	26529.1
45°	194.3	258.0	330.8	458.4	470.5	601.0	5906.8	23378.4	27011.8	27497.4
47.5°	154.8	218.5	318.7	428.0	385.5	476.5	5475.8	24140.3	27861.6	28250.2
50°	124.4	182.1	333.9	376.4	321.7	403.7	5463.7	24990.1	28301.8	28559.8
52.5°	100.1	148.8	282.3	288.4	273.2	355.2	5791.5	25946.3	28751.0	28963.5
55°	85.0	124.4	185.2	212.5	245.9	321.7	6037.3	27418.5	29822.5	30022.8
57.5°	66.8	106.3	142.7	170.0	218.5	294.4	6070.8	28553.7	31179.3	31309.8
59°	57.7	91.1	127.5	151.7	200.4	276.2	5934.1	28623.5	31267.3	31476.8
60°	48.5	82.0	112.3	142.7	185.2	261.1	5785.4	28116.6	30939.5	31173.3
62.5°	36.4	63.7	82.0	115.3	151.7	224.6	5081.2	26347.0	29685.9	29849.8
65°	24.3	45.5	60.7	85.0	118.4	194.3	4140.3	24052.3	27749.4	28116.6
67.5°	15.2	33.4	48.5	63.7	97.2	163.9	2950.3	20625.3	25038.8	25275.5
70°	9.1	21.2	36.4	51.6	75.9	130.5	1751.4	16303.0	20831.7	20880.3
72.5°	6.1	15.2	24.3	36.4	60.7	118.4	849.9	10626.8	15210.2	15790.0
75°	3.1	9.1	15.2	27.3	48.5	97.2	406.8	7099.7	11066.9	11233.9
77.5°	0.0	3.1	9.1	18.2	36.4	75.9	236.8	4662.3	7545.9	7719.0
80°	0.0	0.0	6.1	15.2	27.3	48.5	142.7	2750.1	4571.2	4656.3
82.5°	0.0	0.0	3.1	12.1	18.2	36.4	72.8	1208.1	2992.9	3023.2
85°	0.0	0.0	3.1	12.1	15.2	24.3	27.3	163.9	1329.5	1353.8
87.5°	0.0	0.0	3.1	15.2	15.2	15.2	15.2	9.1	112.3	139.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)