

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: P324304

Luminaire Tested: **GAN-SA0D-827-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324304
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 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: 41854 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

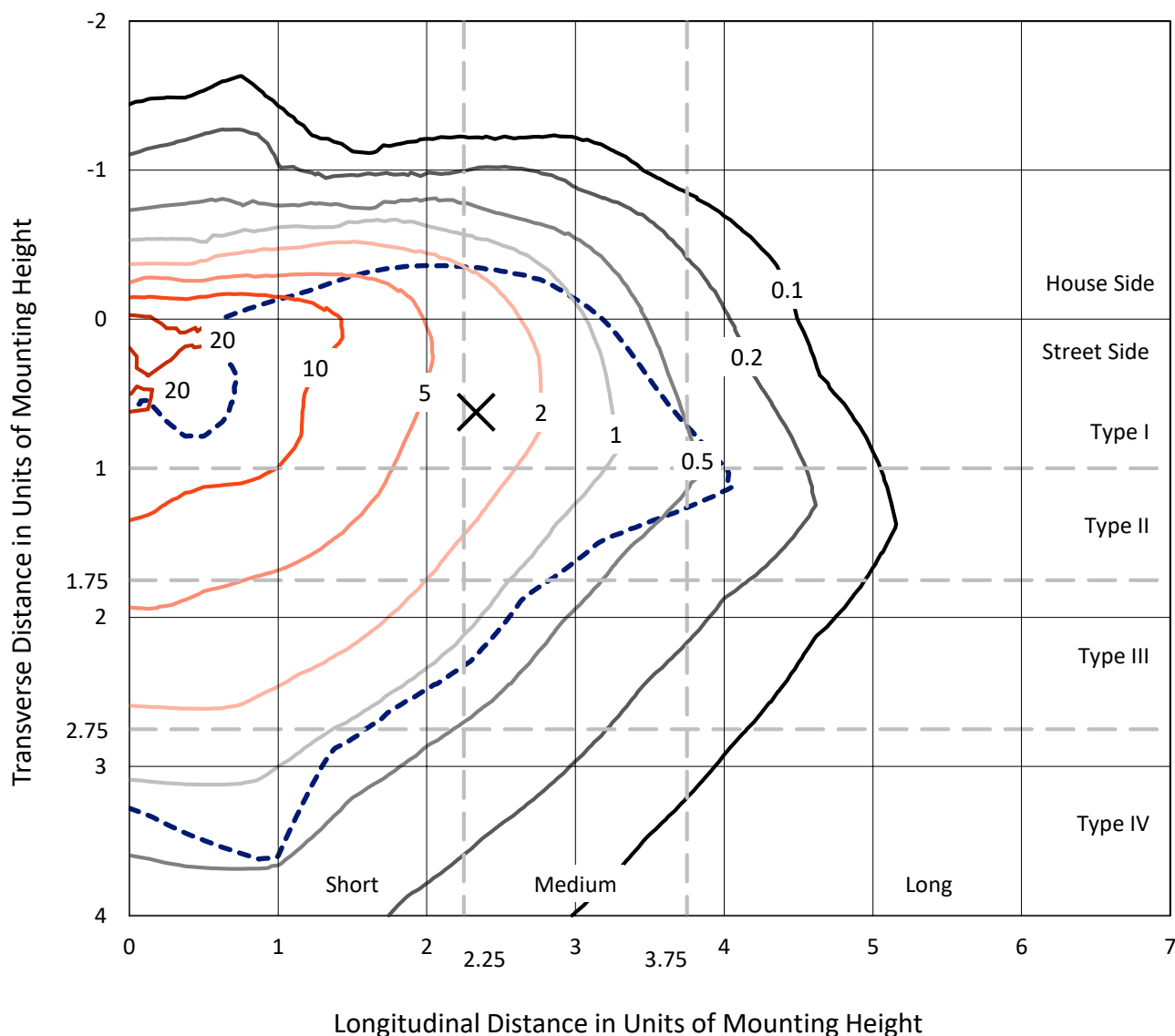
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324304
 CATALOG NUMBER: GAN-SA0D-827-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

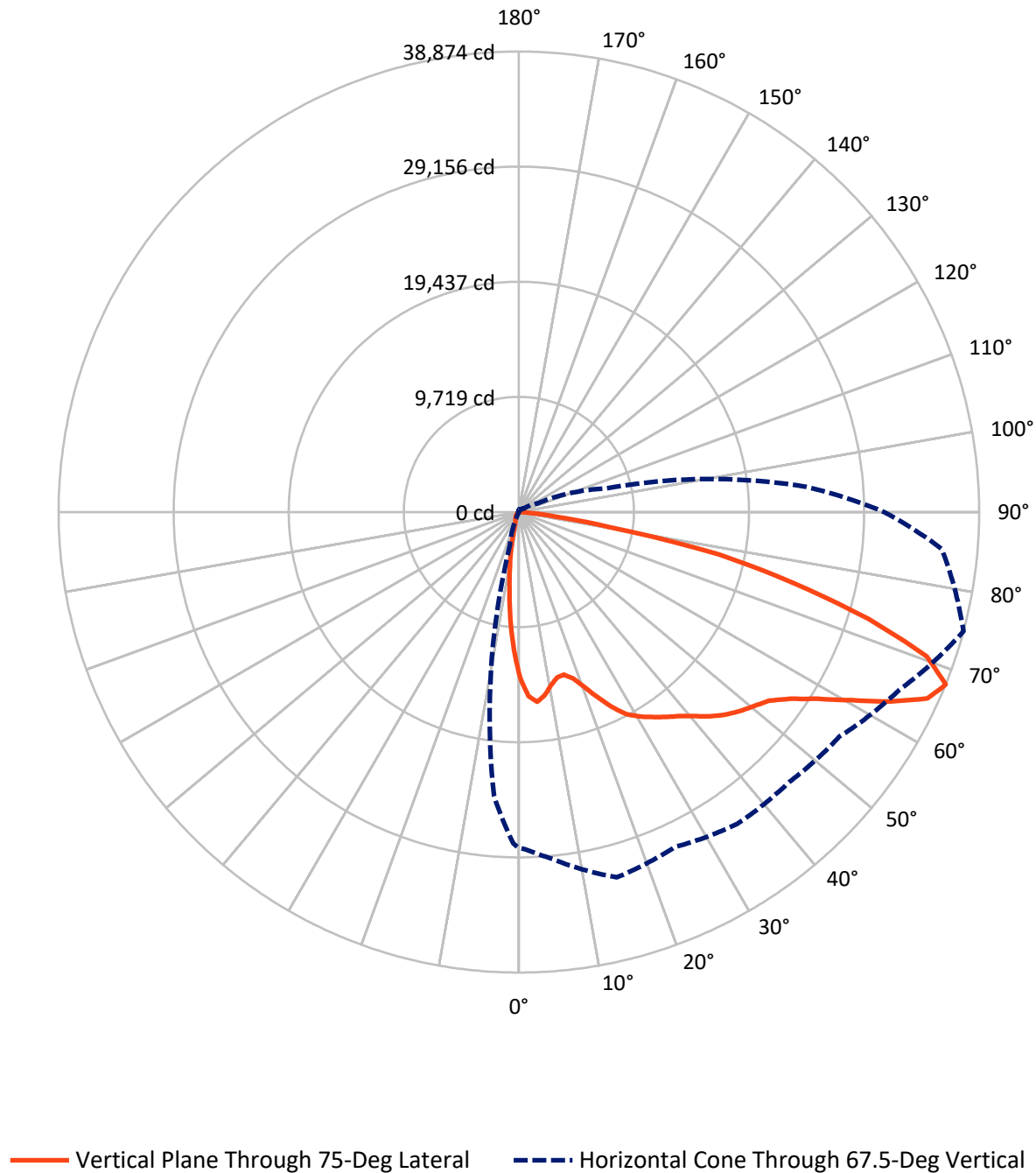
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 29.1 fc
 Type III - Medium - N/A

REPORT NUMBER: P324304
CATALOG NUMBER: GAN-SA0D-827-U-SLL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P324304

CATALOG NUMBER: GAN-SA0D-827-U-SLL-HSS

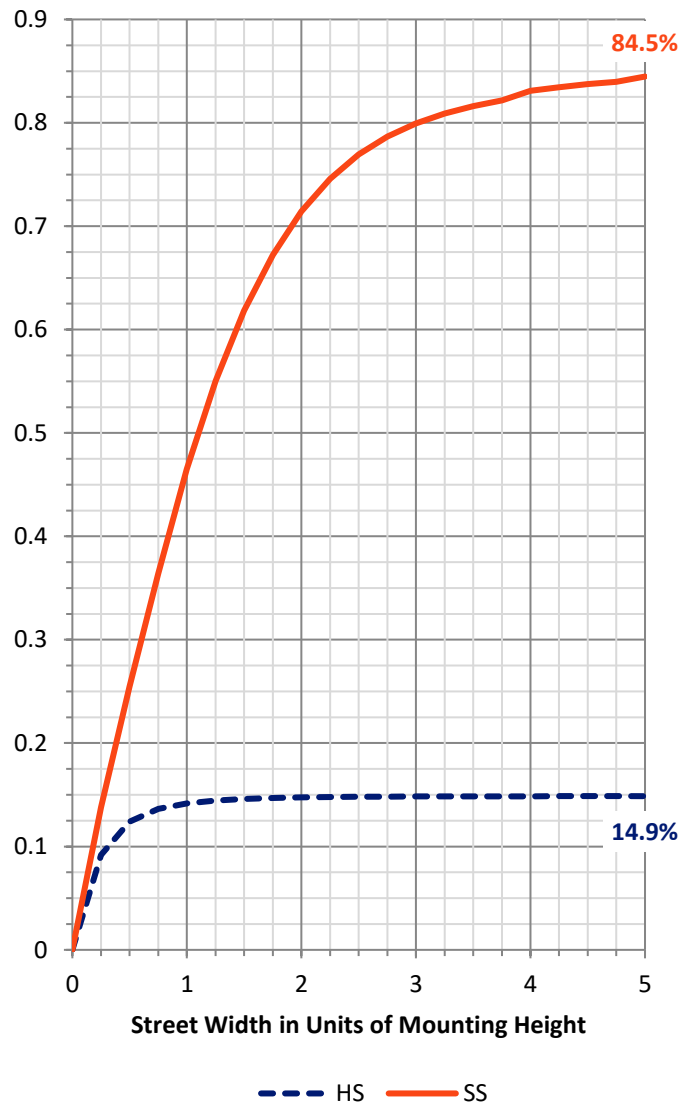
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6280.6	0.0	6280.6
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	35573.4	0.0	35573.4
	% Fixture	85.0	0.0	85.0
Total	Lumens	41854.0	0.0	41854.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1065.1	2.5
10°-20°	2097.2	5.0
20°-30°	2966.9	7.1
30°-40°	4362.2	10.4
40°-50°	6270.0	15.0
50°-60°	8826.4	21.1
60°-70°	10308.5	24.6
70°-80°	5259.0	12.6
80°-90°	698.6	1.7
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°	41854.0	100.0
0°-180°	41854.0	100.0

Coefficient of Utilization



REPORT NUMBER: P324304

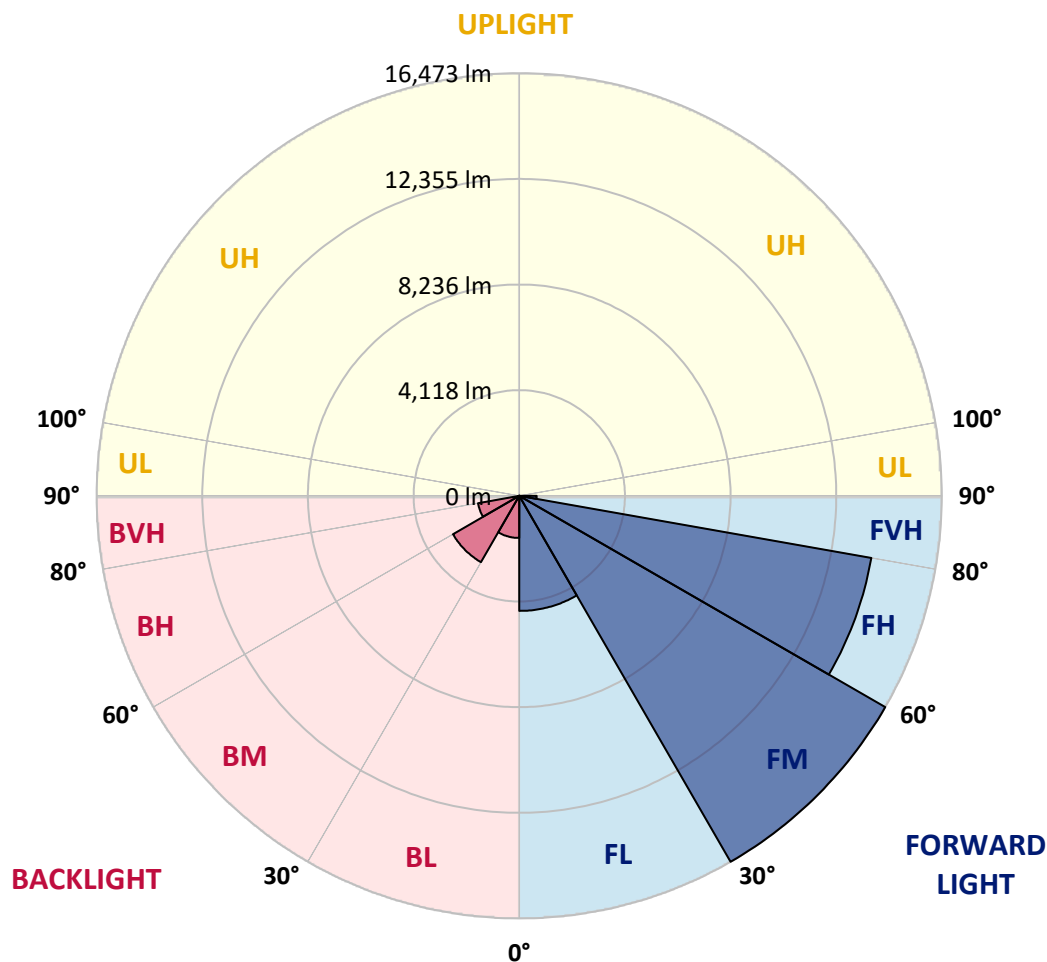
CATALOG NUMBER: GAN-SA0D-827-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4486.8	10.7			
FM	(30°-60°)	16473.0	39.4			
FH	(60°-80°)	13936.2	33.3			G5
FVH	(80°-90°)	677.4	1.6			G4/750
BL	(0°-30°)	1642.5	3.9	B3/2500		
BM	(30°-60°)	2985.6	7.1	B3/5000		
BH	(60°-80°)	1631.4	3.9	B3/2500		G3/2500
BVH	(80°-90°)	21.2	0.1			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 Medium





REPORT NUMBER: P324304

CATALOG NUMBER: GAN-SA0D-827-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14041.3	14041.3	14041.3	14041.3	14041.3	14041.3	14041.3	14041.3	14041.3	14041.3	14041.3
2.5°	15221.0	15244.8	15367.7	15653.2	15964.5	15988.3	16198.5	15982.3	15909.0	15560.0	15199.2
5°	15336.0	15427.2	15849.5	16688.2	17415.8	17649.8	17816.3	17392.0	16945.9	16093.4	15183.3
7.5°	14410.1	14562.7	15226.9	16801.2	18101.8	18676.8	18785.8	18121.6	17029.2	15625.5	14257.4
10°	13224.4	13398.9	14199.9	16135.0	17921.4	18906.8	19057.5	18187.1	16616.8	14868.1	13256.2
12.5°	12264.8	12469.0	13287.9	15385.6	17300.8	18391.3	18688.7	17967.0	16259.9	14330.8	12572.1
15°	11822.7	12056.6	12917.1	14901.8	16612.8	17471.3	17717.2	17405.9	16061.6	14245.5	12413.5
17.5°	12076.5	12330.3	13218.5	14943.4	15966.5	16333.3	16531.5	16658.4	16061.6	14759.0	12877.5
20°	13117.4	13391.0	14330.8	15365.7	15431.2	15294.4	15506.5	15952.6	16248.0	15734.5	13991.7
22.5°	14556.8	14878.0	15938.7	16089.4	15169.4	14652.0	14679.7	15379.6	16587.1	16971.7	15538.2
25°	16311.5	16704.0	17782.6	17168.0	15278.5	14269.3	14259.4	14907.7	16918.2	18210.9	17261.2
27.5°	18054.2	18486.5	19434.2	18484.5	15728.6	14199.9	14180.1	14765.0	17241.3	19313.2	19142.7
30°	19515.5	19935.8	20752.7	19438.1	16214.3	14362.5	14267.3	14917.6	17433.7	20029.0	20514.7
32.5°	20705.1	21042.1	21702.4	20094.4	16733.8	14677.7	14471.5	15326.1	17760.8	20633.7	21775.7
35°	22013.6	22368.5	22632.2	20718.9	17316.7	15131.8	14836.4	15974.4	18264.4	21248.3	23157.6
37.5°	23506.6	23859.5	23827.8	21290.0	18056.2	15883.2	15694.9	17001.4	19047.6	21857.0	24700.2
40°	24967.8	25328.7	25070.9	21914.5	18924.6	17122.4	16983.6	18544.0	20096.4	22636.2	26508.4
42.5°	26335.9	26726.5	26175.3	22505.3	19959.6	18684.7	18922.6	20530.6	21408.9	23595.8	28066.7
45°	27438.2	27836.8	27101.2	23080.3	21050.1	20580.2	21295.9	22731.4	22987.1	24406.7	29119.5
47.5°	28239.2	28615.9	27743.6	23655.3	22445.9	22897.9	24145.0	25039.2	24412.7	25110.6	29867.0
50°	28750.8	29044.2	27931.9	24375.0	24277.8	25602.3	27113.1	27549.3	25754.9	25745.0	30775.1
52.5°	29075.9	29208.8	28070.7	25126.4	26189.1	28546.5	30019.7	30156.5	27136.9	26442.9	31998.4
55°	30196.1	30303.2	29054.1	26036.5	27769.3	31126.0	32648.7	32521.8	28701.2	27809.0	33441.8
57.5°	32107.4	32220.4	31086.4	27345.0	29048.2	32720.1	34554.1	34782.1	30535.2	29728.2	34988.3
60°	33067.0	33277.2	32872.7	29002.6	30287.3	33739.2	35852.7	36580.3	32827.1	32258.1	36487.2
62.5°	32196.7	32502.0	33088.9	30840.5	31518.6	34300.3	36257.2	37224.7	35174.6	35206.4	37411.1
65°	30459.8	30703.7	31699.0	31847.7	32232.3	34230.9	35257.9	36324.6	36612.1	37914.7	37361.5
67.5°	28362.2	28453.4	29298.0	31927.0	31197.4	32145.1	32256.1	33045.2	35476.0	38874.3	35860.6
70°	25342.5	25392.1	26129.7	29272.2	26809.7	27017.9	26853.3	27013.9	30499.5	36536.7	32071.7
72.5°	20395.8	20520.7	21569.5	24309.6	19531.3	18930.6	20223.3	20151.9	23488.7	30868.3	23819.9
75°	15016.8	15232.9	16817.0	19580.9	13708.2	12399.6	13343.4	13595.2	16698.1	23877.3	14895.8
77.5°	10514.1	10674.7	12209.3	14394.2	9921.3	8866.5	8525.5	8824.9	11021.7	17273.1	7504.4
80°	6057.1	6116.6	7096.0	8311.4	6685.6	7649.2	6929.4	7135.6	6604.3	7684.8	3227.8
82.5°	3963.4	3973.3	4355.9	4946.8	4163.6	4837.7	3580.7	4578.0	4062.5	3087.0	1050.8
85°	2141.3	2153.2	2525.9	3511.3	2357.4	1332.4	783.2	1607.9	2512.0	707.8	287.5
87.5°	235.9	216.1	761.3	1276.8	654.3	120.9	41.6	180.4	402.5	45.6	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: P324304

CATALOG NUMBER: GAN-SA0D-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14041.3	14041.3	14041.3	14041.3	14041.3	14041.3	14041.3	14041.3	14041.3	14041.3	14041.3
2.5°	15014.8	14850.2	14439.8	14005.6	13656.7	13329.5	13000.4	12597.9	12286.6	12223.2	12120.1
5°	14693.6	14172.2	13311.7	12447.2	11751.3	10873.0	10315.9	9881.6	9457.4	9431.6	9346.3
7.5°	13571.4	12885.4	11674.0	10478.4	9499.0	8662.3	7817.7	7252.6	6808.5	6651.9	6558.7
10°	12492.8	11721.6	10208.8	8844.7	7970.4	7230.8	6636.0	6045.2	5509.9	5141.1	4974.5
12.5°	11739.4	10886.9	9219.4	8043.7	7417.2	6715.3	5989.7	5252.1	4635.5	4191.4	3919.7
15°	11448.0	10537.9	8888.3	7726.5	6953.2	6065.0	5137.1	4294.5	3610.5	3208.0	2964.1
17.5°	11794.9	10736.2	8862.6	7339.9	6259.3	5155.0	4129.9	3134.6	2490.2	2184.9	2028.3
20°	12675.2	11366.7	8852.6	6866.0	5434.5	4076.4	2797.6	2062.0	1671.4	1500.9	1427.5
22.5°	13920.4	12171.6	8931.9	6398.1	4576.0	2912.5	1931.1	1514.8	1314.5	1223.3	1181.7
25°	15522.4	13301.8	9156.0	5973.8	3769.1	2173.0	1504.8	1268.9	1128.1	1056.8	1027.0
27.5°	17229.4	14602.4	9504.9	5605.0	3112.8	1732.9	1288.7	1086.5	985.4	935.8	908.1
30°	18637.1	16109.2	9857.9	5194.6	2637.0	1510.8	1179.7	991.3	874.4	842.6	816.9
32.5°	19868.4	17249.3	10107.7	4823.8	2325.7	1342.3	1066.7	886.3	806.9	745.5	717.7
35°	21143.2	18199.0	10099.7	4564.1	2111.5	1215.4	971.5	793.1	697.9	626.5	604.7
37.5°	22523.2	19271.6	9927.3	4342.1	2018.4	1114.3	918.0	743.5	648.3	577.0	549.2
40°	24139.1	20397.8	9750.8	4133.9	1992.6	1033.0	880.3	703.8	602.7	533.3	505.6
42.5°	25713.3	21412.9	9596.1	3979.2	1881.6	1031.0	846.6	674.1	567.0	499.6	467.9
45°	26972.3	22358.6	9566.4	3886.0	1764.6	1066.7	828.8	654.3	539.3	471.9	442.1
47.5°	28019.2	23385.6	9756.7	3820.6	1653.6	973.5	872.4	640.4	513.5	448.1	414.4
50°	29264.3	24646.6	10204.8	3713.5	1536.6	876.3	999.3	644.4	491.7	424.3	388.6
52.5°	31001.1	26391.4	10863.1	3533.1	1376.0	787.1	983.4	648.3	467.9	398.5	362.8
55°	32948.1	28570.3	11570.9	3233.7	1151.9	670.1	842.6	620.6	422.3	370.8	337.1
57.5°	34994.2	30547.1	11991.2	2876.9	916.0	578.9	674.1	565.1	372.7	333.1	311.3
60°	35315.4	31298.5	11798.9	2438.7	727.6	503.6	499.6	575.0	333.1	293.4	277.6
62.5°	34516.4	30354.7	10869.0	2048.1	608.7	442.1	410.4	501.6	301.4	261.7	245.9
65°	32979.8	27803.0	9362.2	1845.9	565.1	378.7	341.0	352.9	263.7	228.0	214.1
67.5°	30842.5	24396.8	7686.8	1730.9	559.1	325.2	291.5	267.7	228.0	198.3	186.4
70°	26472.7	20324.4	6132.4	1667.4	543.3	273.6	245.9	218.1	190.3	168.5	158.6
72.5°	19483.7	14402.1	4770.3	1598.0	547.2	218.1	214.1	180.4	152.7	130.9	126.9
75°	11257.6	8228.1	3128.7	1294.7	521.4	168.5	178.4	126.9	107.1	91.2	91.2
77.5°	5999.6	5018.1	1191.6	539.3	190.3	107.1	101.1	75.3	67.4	55.5	53.5
80°	2615.1	2208.7	358.9	150.7	105.1	57.5	37.7	33.7	29.7	23.8	21.8
82.5°	925.9	799.0	117.0	73.4	45.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	210.2	150.7	0.0	17.8	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: P324304

CATALOG NUMBER: GAN-SA0D-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	14041.3	14041.3	14041.3	14041.3	14041.3	14041.3	14041.3	14041.3	14041.3	14041.3	14041.3
2.5°	11909.9	11866.3	11608.6	11618.5	11664.1	11729.5	11574.9	11646.2	11838.5	12022.9	12092.3
5°	9209.5	9219.4	9062.8	9160.0	9247.2	9306.7	9056.9	9060.8	9213.5	9421.7	9530.7
7.5°	6489.3	6473.4	6481.4	6713.3	6877.9	6758.9	6852.1	6528.9	6548.8	6697.5	6586.4
10°	4823.8	4605.8	4482.8	4657.3	4837.7	4772.3	4611.7	4506.6	4580.0	4744.5	4732.6
12.5°	3790.9	3477.6	3293.2	3168.3	3317.0	3194.1	3190.1	3098.9	2999.8	3017.6	3281.3
15°	2851.1	2623.1	2405.0	2204.7	2200.8	2159.1	1947.0	1709.1	1689.2	1701.1	1837.9
17.5°	1960.9	1883.5	1794.3	1621.8	1576.2	1401.8	1195.6	1100.4	1052.8	1074.6	1120.2
20°	1378.0	1348.2	1358.1	1264.9	1199.5	1033.0	912.0	874.4	866.4	888.2	910.0
22.5°	1142.0	1088.5	1082.5	1040.9	975.5	854.5	789.1	767.3	757.4	777.2	793.1
25°	999.3	945.7	923.9	898.2	828.8	745.5	705.8	686.0	676.1	688.0	697.9
27.5°	880.3	830.7	810.9	793.1	725.7	666.2	634.5	616.6	608.7	612.6	622.6
30°	791.1	747.5	721.7	699.9	642.4	600.8	573.0	555.1	547.2	547.2	557.1
32.5°	697.9	674.1	650.3	622.6	569.0	541.3	513.5	493.7	485.8	487.7	495.7
35°	580.9	573.0	578.9	553.2	507.6	483.8	456.0	434.2	428.3	430.2	438.2
37.5°	515.5	479.8	501.6	487.7	462.0	430.2	394.6	374.7	364.8	370.8	374.7
40°	473.9	430.2	414.4	428.3	424.3	372.7	341.0	321.2	313.3	315.2	319.2
42.5°	438.2	386.6	350.9	349.0	372.7	325.2	291.5	273.6	263.7	263.7	267.7
45°	404.5	349.0	305.3	271.6	313.3	275.6	243.9	228.0	216.1	216.1	218.1
47.5°	378.7	317.2	265.7	222.1	235.9	226.0	200.3	184.4	172.5	172.5	174.5
50°	354.9	285.5	230.0	186.4	176.5	186.4	162.6	144.7	136.8	134.8	138.8
52.5°	329.1	253.8	196.3	158.6	138.8	140.8	126.9	115.0	105.1	105.1	109.0
55°	303.3	228.0	170.5	134.8	115.0	105.1	101.1	93.2	85.3	85.3	89.2
57.5°	277.6	200.3	144.7	111.0	91.2	83.3	83.3	77.3	71.4	71.4	75.3
60°	253.8	172.5	119.0	91.2	71.4	69.4	71.4	65.4	61.5	61.5	65.4
62.5°	226.0	146.7	97.2	75.3	57.5	55.5	61.5	57.5	53.5	53.5	57.5
65°	192.3	124.9	77.3	57.5	43.6	43.6	51.5	47.6	43.6	43.6	47.6
67.5°	162.6	105.1	59.5	41.6	31.7	33.7	43.6	39.7	37.7	37.7	41.6
70°	134.8	81.3	41.6	25.8	17.8	25.8	33.7	33.7	33.7	33.7	37.7
72.5°	101.1	55.5	23.8	9.9	7.9	17.8	27.8	31.7	29.7	29.7	35.7
75°	65.4	31.7	7.9	0.0	0.0	9.9	21.8	25.8	25.8	23.8	29.7
77.5°	37.7	9.9	0.0	0.0	0.0	0.0	13.9	11.9	9.9	7.9	13.9
80°	9.9	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: P324304

CATALOG NUMBER: GAN-SA0D-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14041.3	14041.3	14041.3	14041.3	14041.3	14041.3	14041.3	14041.3	14041.3	14041.3
2.5°	12371.9	12605.8	12935.0	13283.9	13821.2	14247.5	14665.8	15024.7	15163.5	15221.0
5°	9792.4	10135.4	10617.2	11235.8	12205.3	13077.7	13962.0	14852.2	15238.8	15336.0
7.5°	7026.6	7464.8	8077.4	8852.6	9988.7	11118.8	12354.0	13660.6	14259.4	14410.1
10°	5200.6	5735.9	6437.7	7254.6	8339.1	9501.0	10847.2	12340.2	13024.2	13224.4
12.5°	3689.8	4413.4	5353.2	6346.5	7286.3	8323.3	9685.4	11331.0	12048.7	12264.8
15°	2167.1	2866.9	3979.2	5309.6	6513.1	7563.9	8947.8	10813.5	11604.6	11822.7
17.5°	1243.1	1592.1	2432.7	3915.8	5549.5	7004.8	8715.8	10942.4	11874.2	12076.5
20°	949.7	1060.7	1401.8	2522.0	4423.3	6455.6	8715.8	11672.0	12820.0	13117.4
22.5°	830.7	912.0	1050.8	1504.8	3255.6	5866.7	8817.0	12726.8	14227.7	14556.8
25°	737.6	810.9	929.9	1132.1	2220.6	5166.8	9056.9	14021.5	15885.2	16311.5
27.5°	660.2	729.6	836.7	991.3	1518.7	4322.2	9380.0	15540.2	17713.2	18054.2
30°	590.8	656.3	753.4	862.5	1171.8	3364.6	9655.6	16971.7	19148.7	19515.5
32.5°	525.4	584.9	672.1	753.4	959.6	2488.3	9685.4	18105.8	20340.3	20705.1
35°	463.9	517.5	596.8	660.2	795.1	1964.8	9223.4	19089.2	21531.8	22013.6
37.5°	404.5	456.0	525.4	573.0	699.9	1602.0	8517.6	20185.6	23060.5	23506.6
40°	349.0	394.6	465.9	497.7	662.2	1231.2	7750.3	21335.6	24559.4	24967.8
42.5°	297.4	341.0	410.4	471.9	580.9	920.0	6921.5	22414.1	25907.6	26335.9
45°	247.8	293.4	362.8	499.6	481.8	688.0	6035.3	23129.9	26972.3	27438.2
47.5°	200.3	251.8	347.0	475.8	384.6	505.6	5333.4	23808.0	27779.3	28239.2
50°	160.6	212.1	390.6	424.3	315.2	386.6	5040.0	24414.7	28308.6	28750.8
52.5°	130.9	178.4	368.8	325.2	263.7	319.2	5198.6	25398.1	28798.3	29075.9
55°	109.0	140.8	222.1	226.0	224.0	271.6	5394.9	26809.7	30065.3	30196.1
57.5°	95.2	113.0	154.6	174.5	188.4	241.9	5398.8	28836.0	32026.1	32107.4
60°	81.3	99.1	128.9	140.8	162.6	216.1	5202.5	29543.8	32797.4	33067.0
62.5°	71.4	87.2	107.1	117.0	136.8	194.3	4742.6	28518.8	31738.7	32196.7
65°	63.4	79.3	89.2	99.1	120.9	174.5	3985.2	26468.7	29982.0	30459.8
67.5°	55.5	69.4	79.3	89.2	109.0	154.6	2934.4	24087.5	27965.6	28362.2
70°	49.6	61.5	71.4	79.3	95.2	130.9	1780.4	20439.4	25178.0	25342.5
72.5°	47.6	55.5	65.4	71.4	83.3	115.0	902.1	15020.7	20128.1	20395.8
75°	41.6	49.6	59.5	63.4	73.4	99.1	366.8	9865.8	14586.5	15016.8
77.5°	33.7	45.6	53.5	57.5	63.4	81.3	186.4	6304.9	10236.5	10514.1
80°	11.9	33.7	45.6	47.6	53.5	59.5	122.9	3451.8	5938.1	6057.1
82.5°	0.0	21.8	35.7	33.7	37.7	45.6	79.3	1641.7	3919.7	3963.4
85°	0.0	9.9	27.8	21.8	15.9	31.7	27.8	358.9	2056.0	2141.3
87.5°	0.0	0.0	2.0	9.9	7.9	11.9	4.0	2.0	186.4	235.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)