

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: P323463

Luminaire Tested: **GAN-SA9D-727-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49559 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

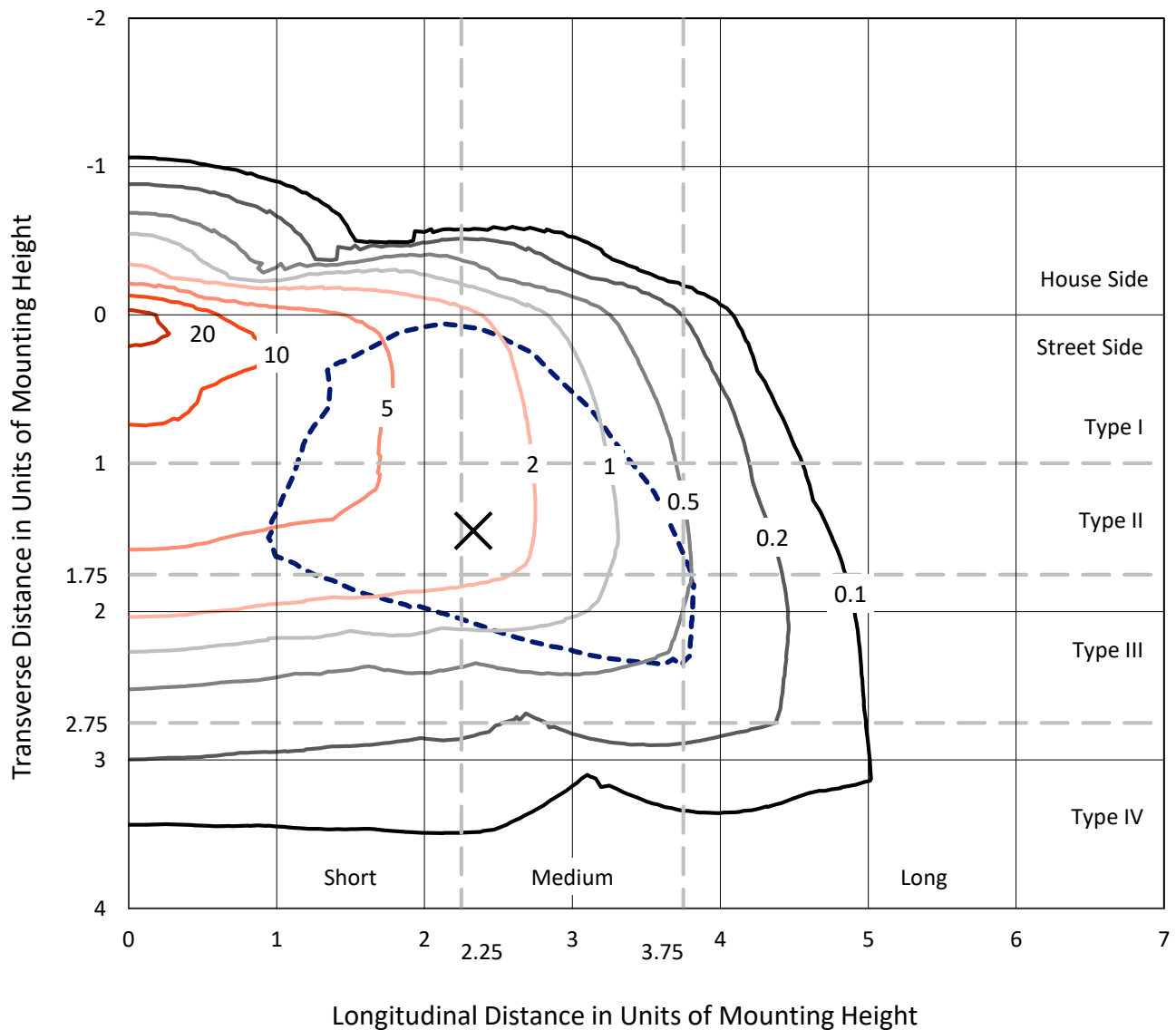
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323463
CATALOG NUMBER: GAN-SA9D-727-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

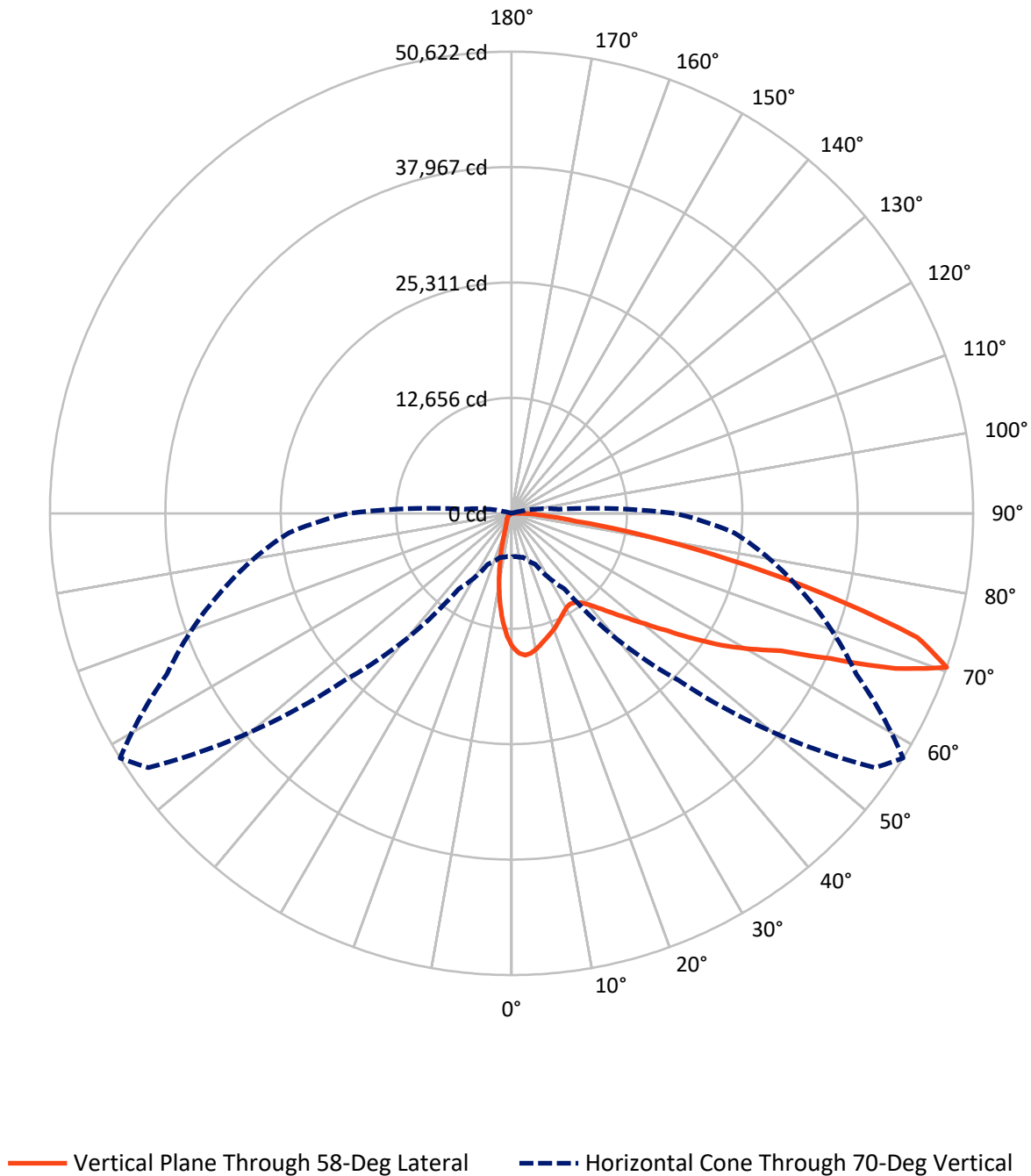
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.8 fc
Type III - Medium - N/A

REPORT NUMBER: P323463
CATALOG NUMBER: GAN-SA9D-727-U-SL3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P323463

CATALOG NUMBER: GAN-SA9D-727-U-SL3-HSS

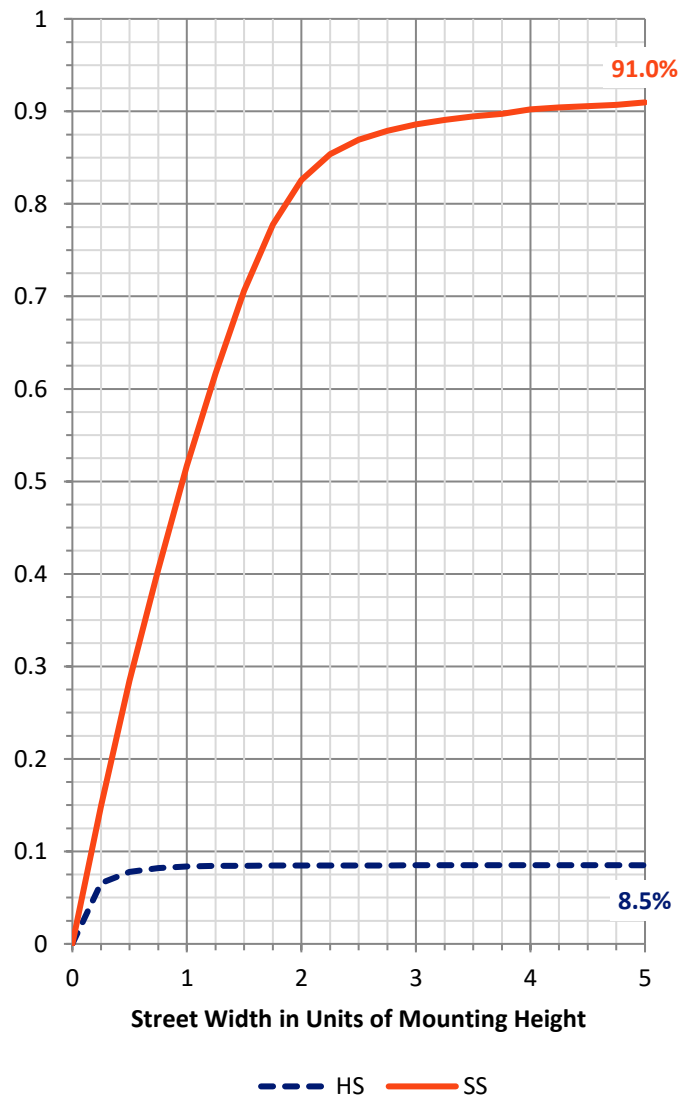
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4241.2	0.0	4241.2
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	45317.9	0.0	45317.9
	% Fixture	91.4	0.0	91.4
Total	Lumens	49559.0	0.0	49559.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1197.1	2.4
10°-20°	2512.5	5.1
20°-30°	3303.1	6.7
30°-40°	4374.6	8.8
40°-50°	6538.6	13.2
50°-60°	10474.6	21.1
60°-70°	13203.1	26.6
70°-80°	7121.7	14.4
80°-90°	833.6	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°	49559.0	100.0
0°-180°	49559.0	100.0

Coefficient of Utilization



REPORT NUMBER: P323463

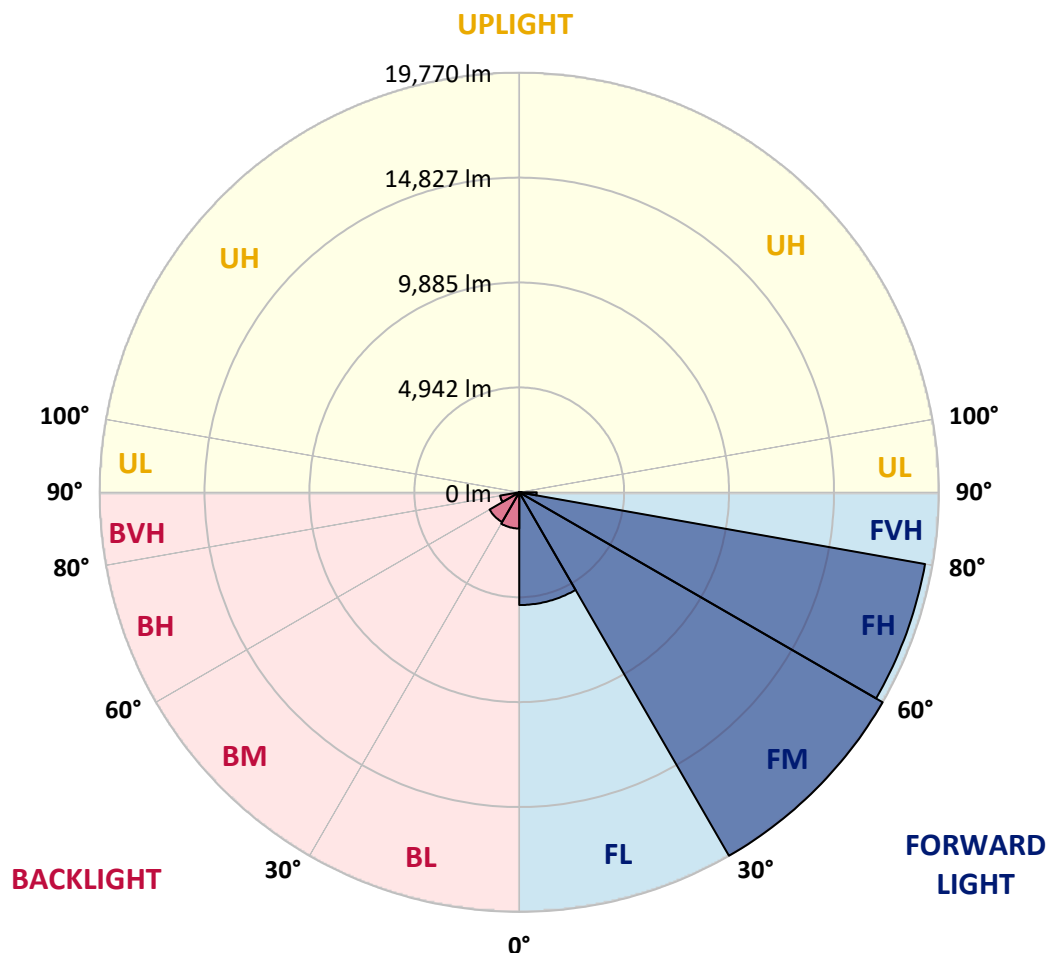
CATALOG NUMBER: GAN-SA9D-727-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5308.8	10.7			
FM	(30°-60°)	19769.8	39.9			
FH	(60°-80°)	19412.8	39.2			G5
FVH	(80°-90°)	826.4	1.7			G5
BL	(0°-30°)	1703.9	3.4	B3/2500		
BM	(30°-60°)	1617.9	3.3	B2/2500		
BH	(60°-80°)	912.1	1.8	B2/1000		G2/1000
BVH	(80°-90°)	7.2	0.0			G0/10
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: P323463

CATALOG NUMBER: GAN-SA9D-727-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	14639.5	14639.5	14639.5	14639.5	14639.5	14639.5	14639.5	14639.5	14639.5	14639.5	14639.5
2.5°	15853.3	15814.1	15799.7	15775.0	15680.2	15587.4	15404.0	15352.5	15237.1	14963.0	14672.5
5°	15865.6	15863.6	15906.8	15896.5	15863.6	15820.3	15688.4	15620.4	15424.6	15033.1	14501.4
7.5°	15101.1	15140.3	15237.1	15315.4	15406.1	15523.6	15540.0	15474.1	15313.4	14890.9	14186.1
10°	14074.9	14136.7	14272.7	14427.2	14664.2	14899.1	15109.3	15101.1	15045.5	14629.2	13807.0
12.5°	13046.5	13118.7	13275.3	13504.0	13839.9	14223.2	14598.3	14649.8	14742.5	14394.3	13456.6
15°	12146.0	12207.8	12362.4	12642.6	13058.9	13574.1	14124.3	14219.1	14458.1	14210.9	13164.0
17.5°	11381.5	11420.6	11534.0	11845.1	12327.3	12951.7	13666.8	13852.3	14208.8	14066.6	12910.5
20°	10847.7	10853.9	10928.1	11146.5	11628.8	12327.3	13192.9	13458.7	13945.0	13943.0	12648.8
22.5°	10584.0	10563.4	10577.8	10703.5	11057.9	11731.8	12718.9	13034.2	13708.0	13837.9	12383.0
25°	10534.5	10518.0	10476.8	10493.3	10707.6	11210.4	12240.8	12605.5	13499.9	13774.0	12152.2
27.5°	10689.1	10705.5	10635.5	10561.3	10577.8	10872.5	11816.3	12238.7	13330.9	13774.0	11989.4
30°	11000.2	11008.5	10957.0	10860.1	10730.3	10777.7	11521.6	11944.0	13246.4	13868.8	11886.3
32.5°	11344.4	11389.7	11383.5	11305.2	11119.8	10928.1	11451.5	11836.9	13240.3	14079.0	11876.0
35°	11770.9	11822.5	11909.0	11892.5	11698.8	11383.5	11690.6	11993.5	13361.8	14425.2	11987.3
37.5°	12224.3	12302.6	12488.1	12576.7	12451.0	12094.5	12226.4	12442.7	13687.4	14985.7	12269.6
40°	12663.2	12751.9	13089.8	13438.1	13343.3	12976.5	13038.3	13211.4	14266.5	15791.4	12805.4
42.5°	13093.9	13225.8	13722.5	14295.4	14408.7	14116.1	14149.0	14287.1	15125.8	16900.1	13681.3
45°	13609.1	13757.5	14493.2	15200.0	15502.9	15375.2	15515.3	15606.0	16248.9	18365.3	14862.1
47.5°	14365.4	14536.5	15439.1	16244.8	16776.5	16858.9	17141.2	17201.0	17668.8	20071.6	16401.4
50°	15840.9	15888.3	16704.4	17435.9	18202.5	18697.1	19018.6	19063.9	19387.4	21936.6	18324.1
52.5°	17697.6	17728.5	18190.1	18680.6	19552.3	20562.1	21314.2	21378.1	21446.1	23754.1	20222.0
55°	19542.0	19537.9	19842.9	20131.4	21128.8	22596.0	24228.1	24267.3	23778.9	25479.0	21672.8
57.5°	20693.9	20805.2	21268.9	21639.8	23032.9	24914.3	27179.1	27323.3	26229.1	26756.6	23107.1
60°	20327.1	20380.7	21409.0	22781.5	25404.8	28209.5	30165.1	30202.2	28071.4	28032.2	24920.5
62.5°	17318.5	17347.3	18962.9	21792.3	26606.2	32483.4	33767.3	33163.5	30189.8	29802.4	27090.5
65°	11869.9	12057.4	13407.2	16904.2	24399.2	35164.5	39343.6	38344.2	33419.0	32353.6	29052.3
67.5°	6990.0	6950.9	7618.6	10194.5	17920.2	33384.0	46397.6	45404.3	37822.8	34062.0	28477.4
70°	4774.7	4747.9	5003.5	6171.9	10116.2	25897.3	48617.0	50622.1	41711.4	32912.1	24508.4
72.5°	3408.5	3422.9	3800.0	4795.3	6351.2	15088.7	41808.3	46554.2	40493.5	28691.7	18629.1
75°	2314.2	2353.4	2893.3	3934.0	5568.1	7676.3	29668.5	35389.1	32973.9	20852.6	10707.6
77.5°	1244.7	1288.0	1924.7	3169.4	5034.4	5333.2	19084.5	24355.9	20712.5	9374.3	3103.5
80°	519.3	544.0	900.5	2303.9	4350.2	4684.1	11229.0	14769.3	8826.1	1848.5	692.4
82.5°	224.6	237.0	375.1	1374.5	3251.8	3954.6	5945.2	7105.4	2674.8	406.0	348.3
85°	43.3	45.3	154.6	727.4	2075.2	2231.8	3853.6	3777.3	1201.4	175.2	253.5
87.5°	0.0	0.0	37.1	228.7	610.0	1215.8	2351.3	2322.5	408.0	84.5	94.8
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: P323463

CATALOG NUMBER: GAN-SA9D-727-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14639.5	14639.5	14639.5	14639.5	14639.5	14639.5	14639.5	14639.5	14639.5	14639.5	14639.5
2.5°	14524.1	14381.9	14083.1	13714.2	13431.9	13120.7	12873.4	12560.2	12424.2	12430.4	12356.2
5°	14198.5	13905.9	13244.4	12409.8	11766.8	11103.3	10532.4	9963.7	9627.8	9518.6	9415.5
7.5°	13732.8	13269.1	12214.0	10928.1	9840.0	8776.7	7851.4	7037.4	6522.2	6270.8	6178.1
10°	13207.3	12556.1	11029.1	9335.2	7781.4	6343.0	5143.6	4100.9	3684.6	3402.3	3330.2
12.5°	12745.7	11863.7	9870.9	7701.0	5856.6	4121.5	2977.8	2328.6	2046.3	1935.0	1916.5
15°	12310.9	11216.6	8756.1	6221.4	4055.5	2536.8	1893.8	1673.3	1607.4	1588.8	1588.8
17.5°	11900.8	10600.4	7666.0	4764.4	2683.1	1778.4	1568.2	1518.8	1498.2	1496.1	1498.2
20°	11472.1	9984.3	6594.4	3490.9	1873.2	1506.4	1448.7	1421.9	1415.7	1415.7	1415.7
22.5°	11062.1	9368.1	5551.6	2493.5	1502.3	1374.5	1345.7	1327.1	1320.9	1318.9	1314.8
25°	10668.4	8782.9	4533.6	1761.9	1318.9	1259.1	1234.4	1209.7	1191.1	1180.8	1174.6
27.5°	10344.9	8261.5	3585.7	1413.7	1191.1	1139.6	1108.7	1071.6	1026.2	1005.6	997.4
30°	10087.3	7785.5	2763.5	1193.2	1071.6	1020.1	972.7	908.8	842.8	807.8	805.7
32.5°	9885.4	7317.7	2097.8	1055.1	964.4	900.5	832.5	752.2	675.9	636.8	634.7
35°	9786.5	6905.5	1603.3	954.1	869.6	789.3	704.8	616.2	542.0	504.9	500.8
37.5°	9852.4	6557.3	1250.9	869.6	789.3	696.5	597.6	504.9	438.9	406.0	403.9
40°	10093.5	6334.7	1015.9	797.5	721.3	607.9	500.8	414.2	358.6	331.8	329.7
42.5°	10606.6	6252.3	867.6	737.7	655.3	525.5	416.3	342.1	290.6	272.0	267.9
45°	11463.9	6373.9	766.6	680.0	587.3	447.2	344.1	280.3	234.9	220.5	218.4
47.5°	12605.5	6693.3	694.5	624.4	525.5	377.1	286.4	226.7	191.6	177.2	175.2
50°	14076.9	7200.2	634.7	568.8	467.8	319.4	237.0	179.3	148.4	138.1	138.1
52.5°	15678.1	7804.0	581.1	517.2	410.1	265.8	191.6	138.1	117.5	105.1	105.1
55°	17001.1	8331.6	523.4	478.1	340.0	220.5	146.3	105.1	86.6	80.4	80.4
57.5°	18322.0	8894.2	457.5	410.1	272.0	179.3	111.3	78.3	63.9	59.8	59.8
60°	20034.5	9582.4	393.6	333.8	214.3	136.0	82.4	55.6	47.4	45.3	45.3
62.5°	21918.0	9986.3	335.9	267.9	166.9	101.0	59.8	37.1	35.0	35.0	33.0
65°	23070.0	9415.5	282.3	214.3	129.8	76.2	39.2	26.8	30.9	28.9	24.7
67.5°	21600.7	7371.3	230.8	166.9	101.0	57.7	24.7	18.5	33.0	26.8	20.6
70°	17885.2	5160.1	179.3	117.5	80.4	49.5	16.5	12.4	35.0	26.8	16.5
72.5°	13384.5	3453.8	142.2	78.3	59.8	43.3	14.4	6.2	30.9	22.7	14.4
75°	7313.6	1391.0	113.3	49.5	37.1	30.9	10.3	4.1	20.6	16.5	10.3
77.5°	1924.7	366.8	82.4	33.0	20.6	12.4	6.2	2.1	10.3	8.2	4.1
80°	490.5	142.2	53.6	22.7	14.4	6.2	0.0	0.0	2.1	0.0	0.0
82.5°	261.7	59.8	33.0	16.5	8.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	197.8	39.2	18.5	10.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	76.2	12.4	6.2	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

(END OF REPORT)