

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: P321861

Luminaire Tested: **GAN-SA7D-727-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321861
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32651 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 448
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

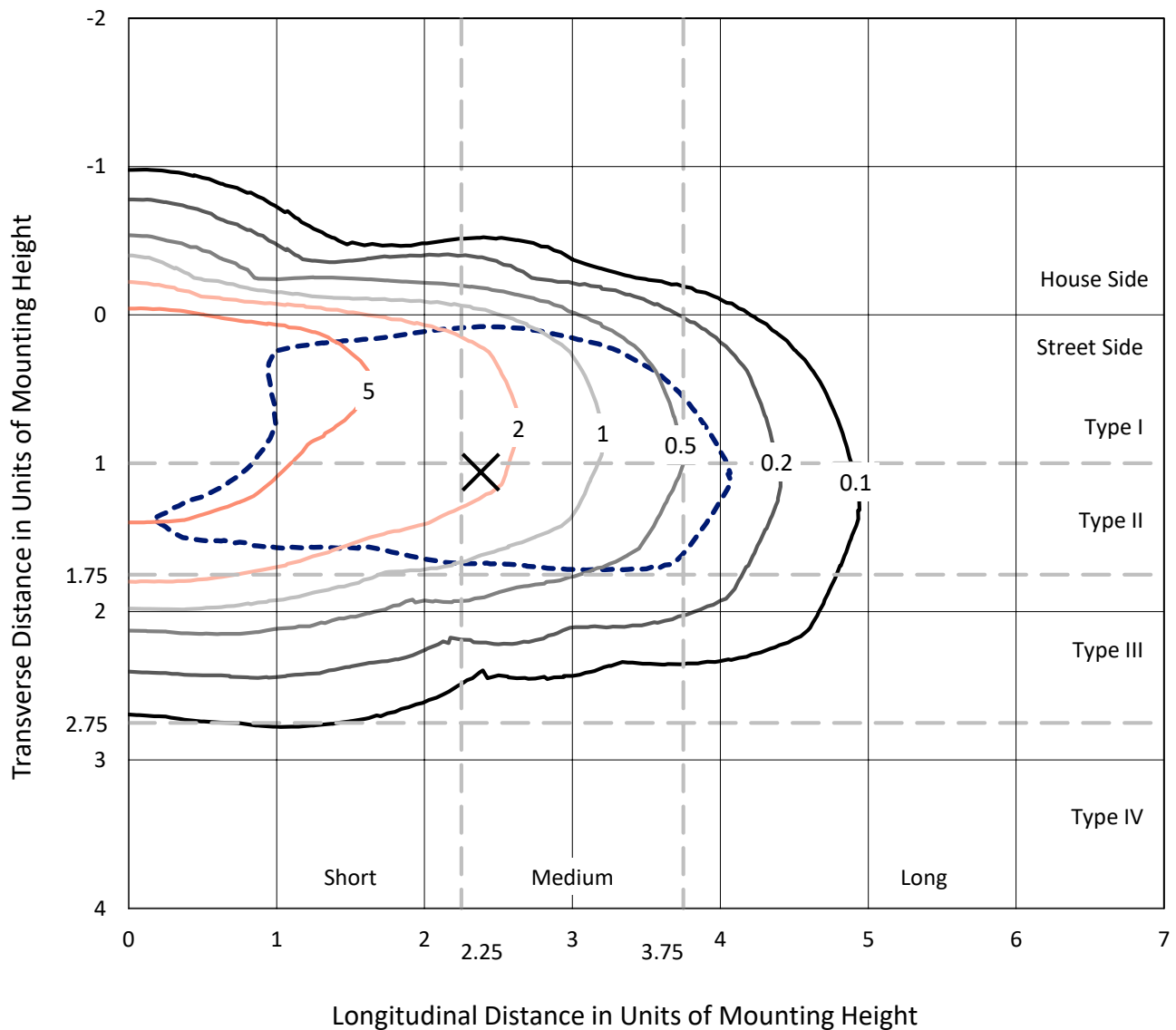


REPORT NUMBER: P321861

CATALOG NUMBER: GAN-SA7D-727-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

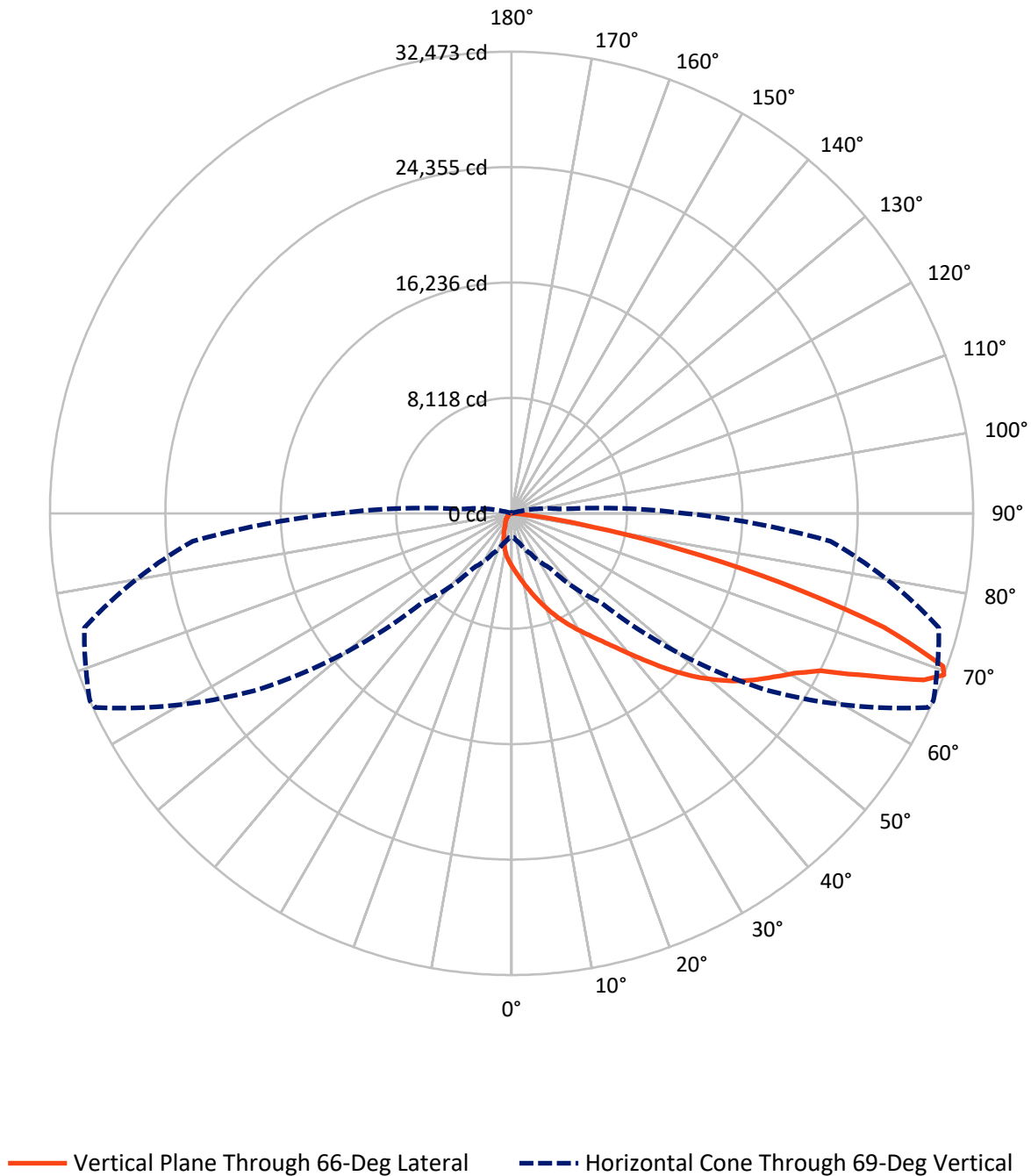
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Medium - N/A

REPORT NUMBER: P321861
CATALOG NUMBER: GAN-SA7D-727-U-T2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P321861

CATALOG NUMBER: GAN-SA7D-727-U-T2-HSS

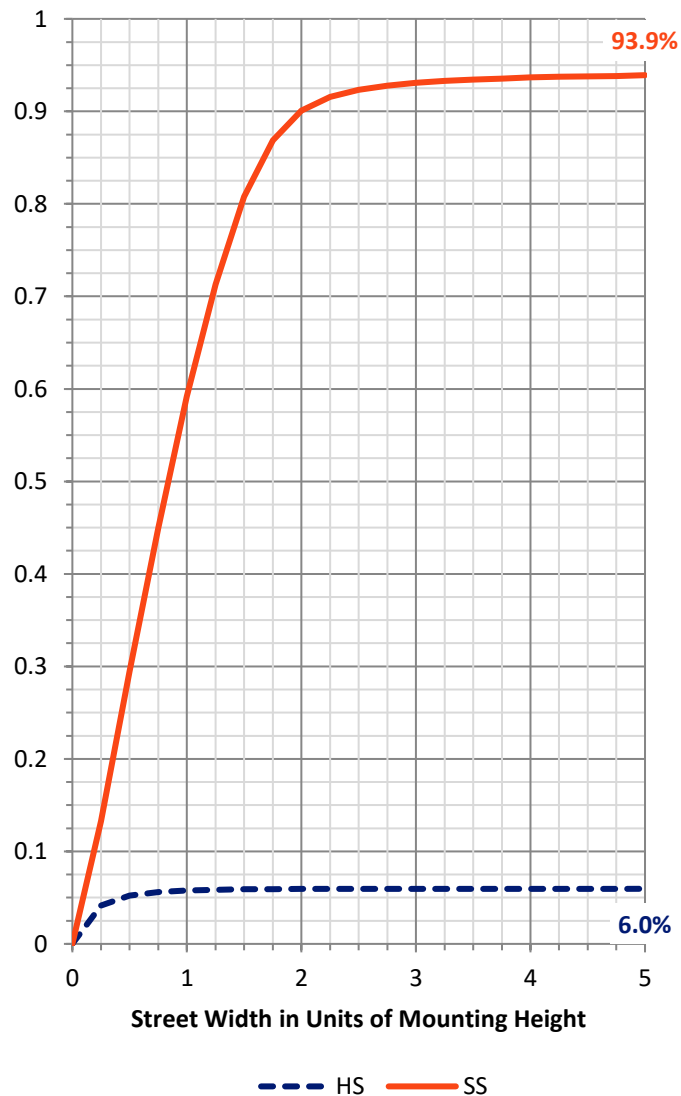
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1958.6	0.0	1958.6
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	30692.4	0.0	30692.4
	% Fixture	94.0	0.0	94.0
Total	Lumens	32651.0	0.0	32651.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.2	1.1
10°-20°	1069.0	3.3
20°-30°	1861.5	5.7
30°-40°	3266.0	10.0
40°-50°	5466.8	16.7
50°-60°	8035.6	24.6
60°-70°	8250.6	25.3
70°-80°	4073.1	12.5
80°-90°	269.3	0.8
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°	32651.0	100.0
0°-180°	32651.0	100.0

Coefficient of Utilization



REPORT NUMBER: P321861

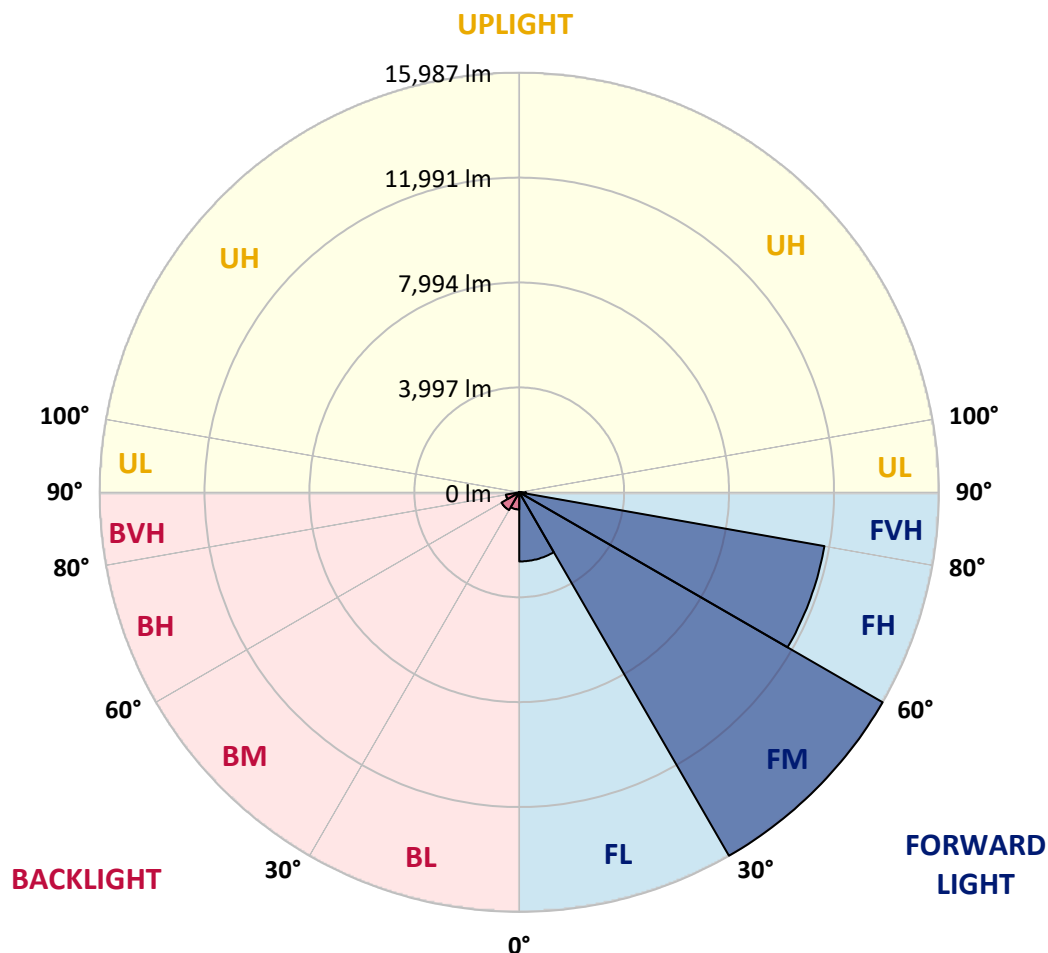
CATALOG NUMBER: GAN-SA7D-727-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2634.6	8.1			
FM	(30°-60°)	15987.5	49.0			
FH	(60°-80°)	11807.5	36.2			G4/12000
FVH	(80°-90°)	262.8	0.8			G3/500
BL	(0°-30°)	655.0	2.0	B2/1000		
BM	(30°-60°)	780.9	2.4	B1/1000		
BH	(60°-80°)	516.2	1.6	B2/1000		G2/1000
BVH	(80°-90°)	6.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium





REPORT NUMBER: P321861

CATALOG NUMBER: GAN-SA7D-727-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3715.8	3715.8	3715.8	3715.8	3715.8	3715.8	3715.8	3715.8	3715.8	3715.8	3715.8
2.5°	4373.3	4354.7	4347.0	4312.9	4253.9	4209.0	4122.1	4021.3	4002.7	3905.0	3785.6
5°	4940.9	4925.4	4914.6	4866.5	4806.0	4692.8	4534.6	4347.0	4311.3	4125.2	3886.4
7.5°	5336.4	5364.3	5364.3	5333.3	5257.3	5172.0	4978.2	4722.3	4677.3	4392.0	4021.3
10°	5567.5	5601.6	5628.0	5654.3	5643.5	5609.4	5426.4	5137.9	5083.6	4705.2	4177.9
12.5°	5589.2	5623.3	5697.7	5807.9	5914.9	5992.4	5877.6	5598.5	5536.5	5068.1	4364.0
15°	5468.2	5503.9	5618.7	5832.7	6091.7	6318.1	6355.3	6108.7	6045.1	5500.8	4596.7
17.5°	5257.3	5280.6	5445.0	5741.2	6147.5	6563.1	6788.0	6656.2	6597.2	5995.5	4855.6
20°	5100.7	5117.7	5262.0	5579.9	6113.4	6716.6	7197.4	7237.7	7175.7	6525.9	5136.3
22.5°	5369.0	5400.0	5404.6	5555.1	6020.3	6792.6	7557.2	7810.0	7763.5	7088.8	5412.4
25°	6102.5	6138.2	6020.3	5927.3	6099.4	6826.8	7865.8	8396.2	8359.0	7695.2	5690.0
27.5°	7071.8	7109.0	6957.0	6679.4	6513.5	6955.5	8140.3	8991.7	8990.2	8337.3	5989.3
30°	8024.0	8061.2	7906.1	7628.5	7247.0	7319.9	8377.6	9615.1	9624.5	8999.5	6307.2
32.5°	9022.7	9069.3	8909.5	8552.8	8154.3	7949.6	8711.0	10241.7	10294.4	9767.1	6665.5
35°	10157.9	10164.1	9939.3	9565.5	9106.5	8791.7	9246.0	10944.2	11069.8	10717.8	7119.9
37.5°	11271.4	11316.4	11131.9	10542.5	10120.7	9764.0	10041.6	11822.0	12000.3	11879.4	7713.8
40°	12096.5	12191.1	12164.7	11528.9	11128.8	10874.4	11029.5	12865.7	13092.1	13231.7	8462.9
42.5°	12614.5	12685.8	12806.8	12423.7	12060.8	12102.7	12195.7	14081.5	14360.7	14773.2	9323.6
45°	13208.4	13242.5	13343.3	13174.3	12929.3	13351.1	13433.3	15450.9	15744.0	16431.0	10278.9
47.5°	13934.2	14014.9	14042.8	13887.7	13776.0	14455.3	14625.9	16696.2	17107.2	18206.7	11290.0
50°	14858.5	14880.2	14928.3	14827.5	14715.8	15404.4	15696.0	18003.6	18377.3	19988.6	12287.2
52.5°	15762.6	15840.2	16007.7	15944.1	15899.1	16212.4	16649.7	19182.2	19599.4	21474.3	13282.9
55°	16023.2	16089.9	16668.3	17063.8	17429.8	17208.0	17561.6	20238.3	20689.6	22801.9	14241.3
57.5°	14982.6	15117.5	16119.3	17149.1	18667.3	18755.7	18814.7	21322.4	21727.1	23819.2	15238.5
60°	12352.4	12378.7	14022.6	15789.0	18462.6	20106.5	20644.6	22487.0	22826.7	24766.8	16432.6
62.5°	7856.5	8124.8	9928.4	12422.1	16297.7	19911.1	22857.7	24248.8	24372.8	25903.5	18144.7
65°	3742.2	3915.8	5215.4	7675.1	11804.9	17409.6	24385.3	27435.7	27491.6	28156.9	20432.2
67.5°	2071.9	2155.7	2774.4	4131.4	6901.2	12312.0	23768.0	31210.5	31263.2	30458.3	22439.0
69°	1620.6	1692.0	2178.9	3114.1	4678.9	8849.0	21508.5	32316.2	32472.8	31117.4	22510.3
70°	1375.6	1445.4	1876.5	2630.2	3762.3	6837.6	19145.0	32041.7	32207.6	31055.4	21978.4
72.5°	842.1	882.4	1250.0	1851.7	2521.6	3439.7	11806.5	27097.7	27378.4	28487.2	18889.1
75°	567.6	589.3	781.6	1277.9	1803.6	1771.0	6133.5	19100.0	19707.9	22159.8	13951.3
77.5°	406.3	426.5	524.2	826.6	1263.9	1169.3	2777.5	11870.1	12000.3	13290.6	7608.4
80°	231.1	249.7	370.6	491.6	857.6	780.1	1104.2	5669.8	5735.0	5699.3	2540.3
82.5°	121.0	136.5	203.2	324.1	550.5	510.2	459.0	1898.2	1907.5	1586.5	556.7
85°	23.3	27.9	100.8	221.8	283.8	221.8	187.7	445.1	454.4	401.7	138.0
87.5°	0.0	1.6	40.3	49.6	55.8	57.4	60.5	86.8	93.0	125.6	37.2
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: P321861

CATALOG NUMBER: GAN-SA7D-727-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3715.8	3715.8	3715.8	3715.8	3715.8	3715.8	3715.8	3715.8	3715.8	3715.8	3715.8
2.5°	3732.8	3677.0	3570.0	3445.9	3349.8	3255.2	3180.8	3103.2	3075.3	3061.3	3059.8
5°	3770.1	3652.2	3425.8	3193.2	3002.4	2822.5	2693.8	2571.3	2513.9	2487.5	2476.7
7.5°	3832.1	3642.9	3278.5	2923.3	2648.8	2423.9	2245.6	2112.2	2045.5	2017.6	2006.8
10°	3905.0	3630.5	3106.3	2638.0	2287.5	2054.8	1878.1	1746.2	1673.3	1642.3	1626.8
12.5°	3990.3	3608.8	2907.8	2349.5	1978.9	1746.2	1532.2	1369.4	1285.6	1250.0	1232.9
15°	4095.7	3587.1	2700.0	2078.1	1707.5	1423.7	1189.5	1079.4	1062.3	1056.1	1057.7
17.5°	4199.6	3553.0	2473.6	1809.8	1422.1	1111.9	992.5	986.3	989.4	989.4	989.4
20°	4292.7	3475.4	2227.0	1580.3	1150.7	938.3	913.4	902.6	894.8	888.6	880.9
22.5°	4365.6	3371.5	1989.7	1352.3	939.8	859.2	820.4	786.3	758.4	739.7	730.4
25°	4415.2	3233.5	1772.6	1133.7	845.2	781.6	711.8	654.5	611.0	584.7	573.8
27.5°	4452.4	3084.6	1578.7	949.1	780.1	691.7	600.2	531.9	487.0	463.7	454.4
30°	4478.8	2915.6	1408.2	834.3	707.2	597.1	499.4	432.7	400.1	387.7	381.5
32.5°	4503.6	2727.9	1246.9	780.1	638.9	510.2	418.7	367.5	347.4	331.9	327.2
35°	4565.6	2554.2	1093.3	722.7	569.2	435.8	359.8	322.6	302.4	293.1	290.0
37.5°	4713.0	2425.5	946.0	663.8	499.4	376.9	314.8	288.5	269.8	260.5	257.4
40°	4950.2	2360.4	821.9	600.2	431.1	331.9	285.4	260.5	240.4	226.4	223.3
42.5°	5299.2	2369.7	735.1	536.6	376.9	296.2	257.4	228.0	206.3	193.9	190.8
45°	5722.6	2437.9	674.6	474.6	331.9	268.3	226.4	195.4	175.2	164.4	161.3
47.5°	6181.6	2548.0	625.0	418.7	296.2	241.9	195.4	162.8	145.8	136.5	134.9
50°	6665.5	2655.0	573.8	364.4	265.2	215.6	164.4	134.9	121.0	113.2	110.1
52.5°	7155.5	2779.1	527.3	314.8	238.8	184.5	136.5	110.1	99.3	93.0	89.9
55°	7682.8	2872.1	482.3	276.0	212.5	156.6	113.2	91.5	82.2	74.4	72.9
57.5°	8303.1	3016.4	435.8	238.8	181.4	130.3	93.0	72.9	65.1	57.4	55.8
60°	9140.6	3185.4	386.2	210.9	148.9	107.0	76.0	58.9	49.6	43.4	41.9
62.5°	10244.8	3373.1	324.1	184.5	121.0	86.8	60.5	46.5	35.7	27.9	27.9
65°	11645.2	3678.6	265.2	155.1	99.3	71.3	46.5	34.1	20.2	12.4	12.4
67.5°	12462.5	3731.3	214.0	127.2	80.6	60.5	38.8	23.3	6.2	1.6	0.0
69°	12200.4	3425.8	181.4	108.6	69.8	57.4	35.7	17.1	3.1	0.0	0.0
70°	11707.2	3132.7	159.7	96.2	63.6	54.3	34.1	12.4	3.1	0.0	0.0
72.5°	9674.1	2230.1	121.0	71.3	46.5	48.1	31.0	7.8	3.1	0.0	0.0
75°	7047.0	1355.4	86.8	49.6	29.5	35.7	21.7	3.1	1.6	0.0	0.0
77.5°	3920.5	638.9	54.3	27.9	18.6	21.7	10.9	0.0	0.0	0.0	0.0
80°	1273.2	173.7	24.8	15.5	10.9	12.4	4.7	0.0	0.0	0.0	0.0
82.5°	235.7	49.6	14.0	7.8	3.1	3.1	0.0	0.0	0.0	0.0	0.0
85°	51.2	20.2	7.8	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.1	6.2	1.6	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)