

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: P322501

Luminaire Tested: **GAN-SA7D-727-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322501
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32593 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

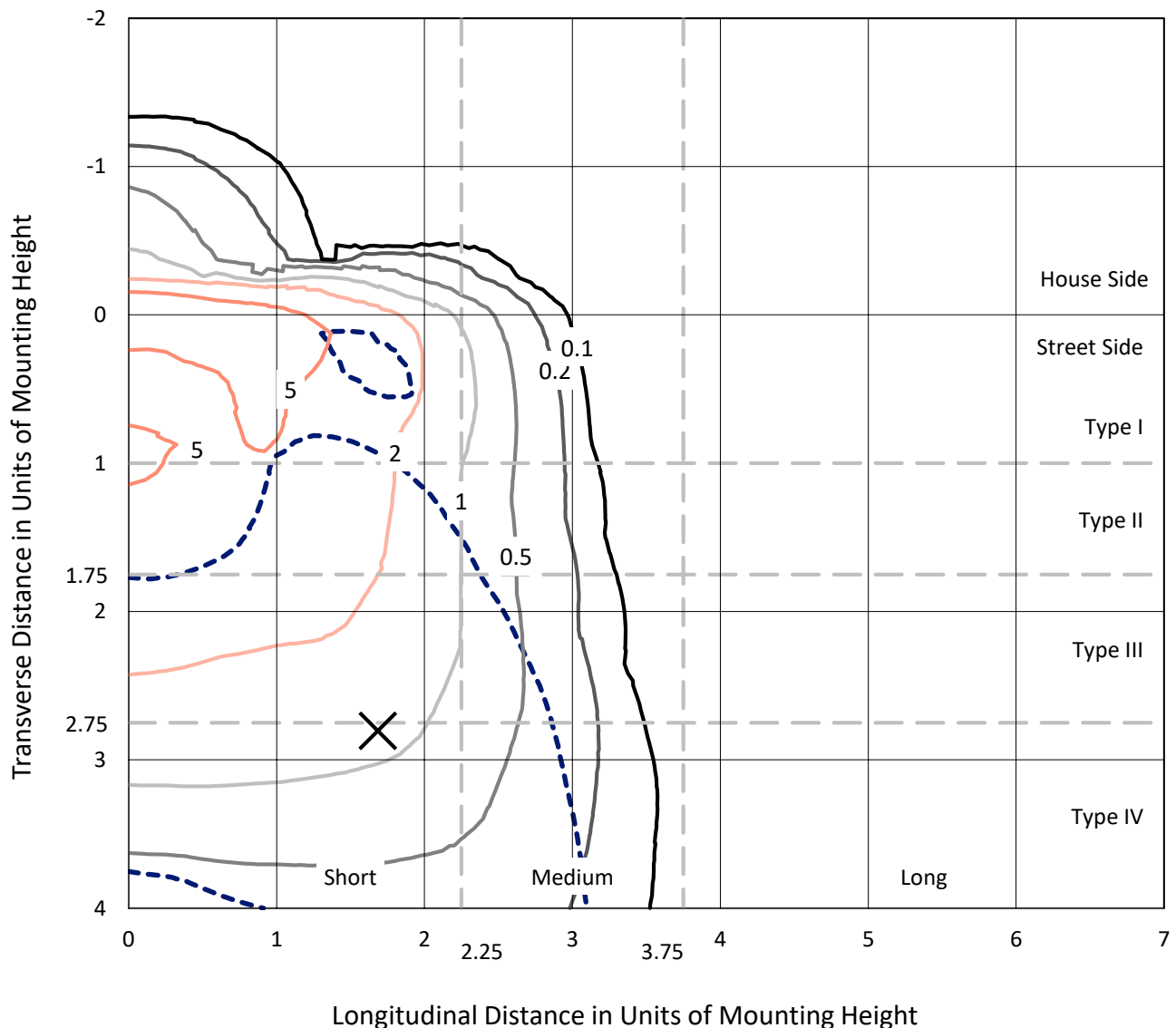
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322501
 CATALOG NUMBER: GAN-SA7D-727-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

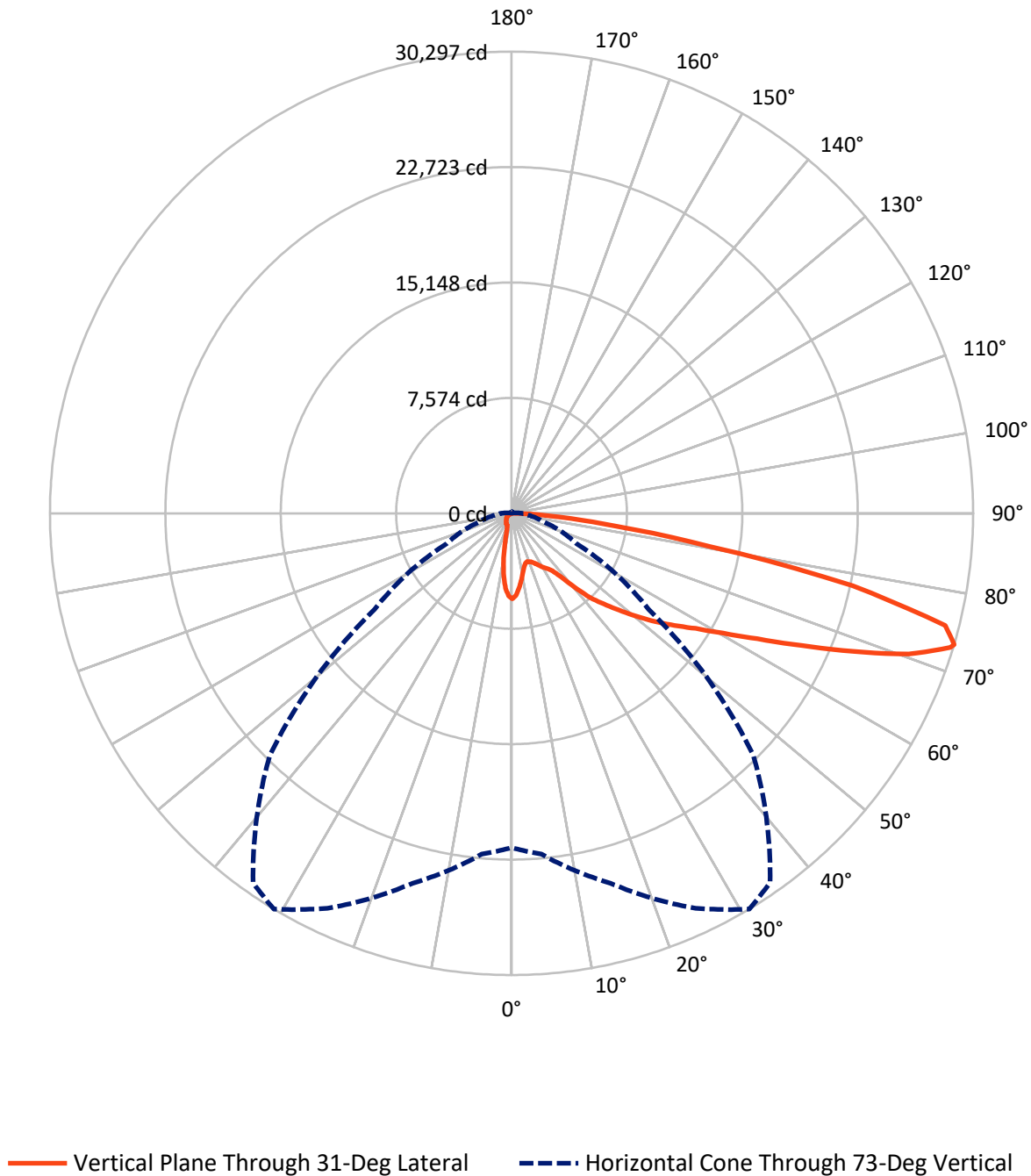
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type IV - Short - N/A

REPORT NUMBER: P322501
CATALOG NUMBER: GAN-SA7D-727-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P322501

CATALOG NUMBER: GAN-SA7D-727-U-T4FT-HSS

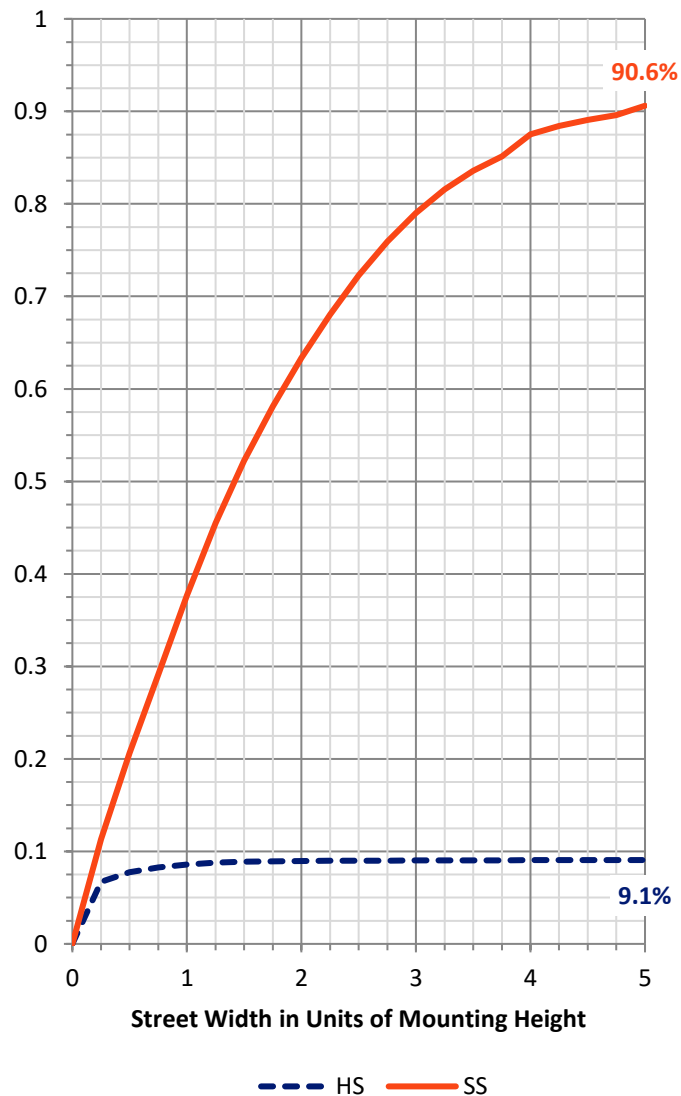
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2971.0	0.0	2971.0
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	29622.0	0.0	29622.0
	% Fixture	90.9	0.0	90.9
Total	Lumens	32593.0	0.0	32593.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.0	1.4
10°-20°	1009.5	3.1
20°-30°	1512.6	4.6
30°-40°	2406.6	7.4
40°-50°	4297.4	13.2
50°-60°	6668.4	20.5
60°-70°	8864.7	27.2
70°-80°	6668.1	20.5
80°-90°	700.7	2.1
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°	32593.0	100.0
0°-180°	32593.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322501

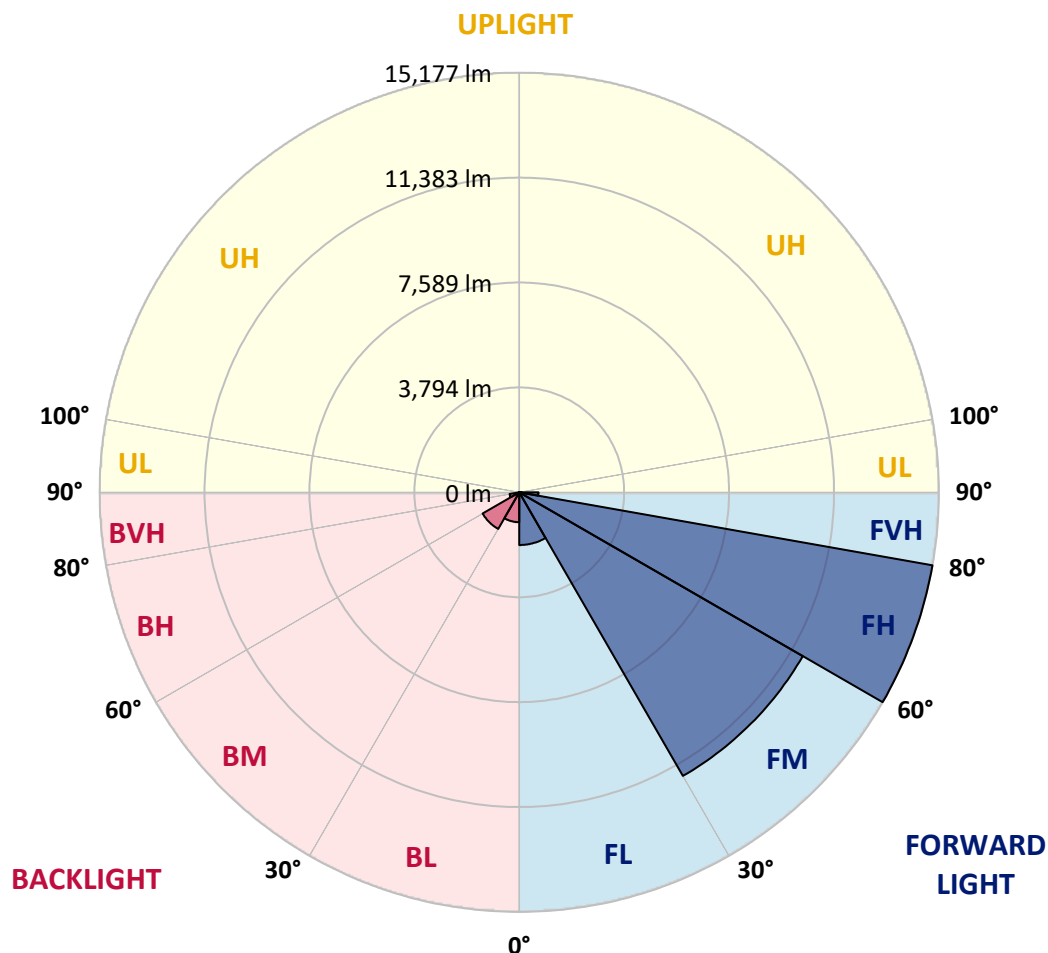
CATALOG NUMBER: GAN-SA7D-727-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1906.7	5.9			
FM	(30°-60°)	11843.2	36.3			
FH	(60°-80°)	15177.3	46.6			G5
FVH	(80°-90°)	694.8	2.1			G4/750
BL	(0°-30°)	1080.4	3.3	B3/2500		
BM	(30°-60°)	1529.2	4.7	B2/2500		
BH	(60°-80°)	355.5	1.1	B1/500		G1/500
BVH	(80°-90°)	5.9	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 IV Short





REPORT NUMBER: P322501

CATALOG NUMBER: GAN-SA7D-727-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	5607.7	5607.7	5607.7	5607.7	5607.7	5607.7	5607.7	5607.7	5607.7	5607.7	5607.7
2.5°	5314.2	5336.6	5360.5	5365.3	5405.1	5406.7	5464.2	5507.2	5550.3	5591.7	5606.1
5°	4768.8	4805.5	4848.5	4891.6	4976.1	5009.6	5150.0	5293.5	5430.7	5561.4	5625.2
7.5°	4186.6	4228.1	4288.7	4395.6	4489.7	4555.1	4776.7	5031.9	5287.1	5527.9	5666.7
10°	3655.5	3693.8	3757.6	3870.8	4016.0	4105.3	4403.5	4757.6	5132.4	5497.6	5728.9
12.5°	3317.4	3338.1	3373.2	3494.4	3625.2	3725.7	4076.6	4515.2	5004.8	5496.0	5829.4
15°	3255.2	3261.6	3232.9	3287.1	3389.2	3486.5	3842.1	4319.0	4907.5	5521.6	5960.2
17.5°	3354.1	3350.9	3255.2	3248.8	3330.2	3409.9	3727.3	4183.4	4838.9	5580.6	6129.2
20°	3504.0	3492.8	3327.0	3296.7	3382.8	3457.8	3719.3	4132.4	4813.4	5679.5	6335.0
22.5°	3703.4	3684.2	3424.3	3392.4	3484.9	3563.0	3818.2	4181.8	4835.8	5811.8	6574.2
25°	3950.6	3921.9	3591.7	3556.6	3650.7	3728.9	3995.2	4323.8	4902.7	5972.9	6877.2
27.5°	4229.7	4188.2	3859.7	3768.8	3875.6	3957.0	4231.3	4540.7	5008.0	6143.6	7248.9
30°	4492.9	4438.6	4142.0	3992.1	4122.8	4213.7	4486.5	4799.1	5177.1	6406.7	7757.6
32.5°	4757.6	4697.0	4394.0	4215.3	4333.4	4432.2	4749.6	5154.7	5494.5	6808.7	8433.9
35°	5366.9	5303.1	4931.5	4636.4	4634.8	4690.6	5118.1	5641.2	5913.9	7368.5	9240.9
37.5°	6392.4	6355.7	6001.6	5441.8	5291.9	5229.7	5620.5	6221.7	6516.8	8138.8	10151.6
40°	7515.2	7483.3	7086.2	6579.0	6350.9	6197.8	6341.3	7030.3	7368.5	9079.8	11081.4
42.5°	8783.2	8631.6	7923.5	7772.0	7567.8	7451.4	7322.2	8027.2	8414.7	10103.7	12003.3
45°	9934.7	9679.5	8760.8	8531.2	8484.9	8513.6	8585.4	9366.9	9591.8	11320.6	12921.9
47.5°	10620.5	10419.5	9714.6	9494.5	9481.7	9671.5	10213.8	10880.5	10764.0	12381.3	13730.6
50°	11272.8	11091.0	10505.7	10559.9	10618.9	10877.3	12062.3	12437.1	11834.2	13343.0	14472.2
52.5°	11800.7	11523.2	11217.0	11521.6	11811.9	12228.2	13969.8	13834.2	12593.4	14108.5	15107.0
55°	12105.3	11979.3	12127.7	12433.9	12979.4	13655.6	15770.4	14996.9	13148.4	14807.1	15529.6
57.5°	13221.8	12974.6	13269.6	13534.4	14245.7	15191.5	17312.7	15862.9	13548.7	15239.3	15626.9
60°	14572.7	14373.3	14547.1	14987.3	15947.5	17059.1	18754.5	16569.5	13757.7	15516.8	15374.9
62.5°	16722.6	16459.4	16351.0	16843.8	18116.5	19330.3	19848.6	17059.1	13711.4	15394.0	14510.5
65°	19603.0	19330.3	18845.4	19292.0	20910.8	21767.3	21071.9	17162.8	13392.4	14400.4	12325.4
67.5°	22553.6	22355.8	21941.1	22693.9	24154.9	24430.8	22365.4	16910.8	12365.3	11676.3	8708.2
70°	24502.6	24418.0	24687.6	26352.6	27655.7	27575.9	23552.0	15556.7	9638.0	7180.3	4307.8
72.5°	23097.4	23502.5	25493.0	28512.1	30103.9	29453.1	22942.7	11945.9	5508.8	2762.4	1245.6
73°	21933.2	22451.5	25130.9	28593.5	30296.9	29583.9	22430.8	10965.0	4695.4	2180.2	944.2
75°	15258.5	15894.8	20805.6	26630.2	29394.1	28186.8	18697.1	6711.4	2175.5	966.5	381.2
77.5°	7408.3	7878.8	11456.2	19241.0	22859.8	22022.5	11639.6	2500.8	982.5	604.5	175.4
80°	2765.6	3075.0	4972.9	9792.7	13210.6	13556.7	5119.7	945.8	653.9	486.4	89.3
82.5°	724.1	807.0	1834.1	4366.9	6770.4	7086.2	1614.0	476.9	478.5	400.3	54.2
85°	231.3	264.8	572.6	1960.1	3189.8	2800.7	421.1	231.3	347.7	298.2	30.3
87.5°	28.7	36.7	181.8	460.9	703.4	390.8	65.4	68.6	148.3	165.9	17.5
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: P322501

CATALOG NUMBER: GAN-SA7D-727-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5607.7	5607.7	5607.7	5607.7	5607.7	5607.7	5607.7	5607.7	5607.7	5607.7	5607.7
2.5°	5620.5	5612.5	5614.1	5572.6	5545.5	5491.3	5435.4	5409.9	5382.8	5371.6	5382.8
5°	5649.2	5634.8	5593.3	5465.7	5330.2	5154.7	4990.5	4866.1	4709.8	4666.7	4711.4
7.5°	5693.8	5665.1	5543.9	5283.9	4982.5	4647.6	4271.2	3996.8	3772.0	3626.8	3679.5
10°	5759.2	5705.0	5461.0	5019.2	4480.1	3886.8	3352.5	2936.2	2641.2	2520.0	2515.2
12.5°	5869.3	5767.2	5358.9	4674.7	3866.1	3075.0	2374.8	1923.5	1684.2	1529.5	1526.3
15°	5990.5	5840.5	5229.7	4261.6	3151.5	2202.6	1529.5	1186.6	1031.9	982.5	976.1
17.5°	6138.8	5925.1	5062.2	3752.8	2403.5	1459.3	998.4	899.5	893.1	888.4	888.4
20°	6325.4	6025.6	4846.9	3170.7	1705.0	974.5	848.5	854.9	858.1	851.7	853.3
22.5°	6542.3	6127.6	4590.1	2545.5	1153.1	815.0	811.8	819.8	823.0	819.8	821.4
25°	6794.3	6245.7	4277.5	1890.0	832.5	773.5	781.5	792.7	800.6	800.6	800.6
27.5°	7106.9	6389.2	3901.1	1319.0	719.3	730.5	752.8	773.5	784.7	787.9	787.9
30°	7513.6	6567.8	3449.8	904.3	653.9	673.1	714.5	754.4	775.1	778.3	779.9
32.5°	8027.2	6768.8	2926.7	668.3	598.1	612.4	657.1	724.1	764.0	770.3	770.3
35°	8615.7	7001.6	2363.7	582.1	558.2	563.0	598.1	674.6	744.8	762.4	764.0
37.5°	9260.0	7231.3	1797.5	543.9	524.7	524.7	550.2	615.6	698.6	752.8	759.2
40°	9861.3	7370.1	1260.0	513.6	494.4	494.4	516.7	564.6	642.7	724.1	741.6
42.5°	10416.3	7417.9	877.2	484.9	465.7	470.5	489.6	527.9	586.9	668.3	684.2
45°	10987.3	7409.9	639.6	451.4	437.0	451.4	465.7	494.4	537.5	583.7	586.9
47.5°	11417.9	7343.0	507.2	419.5	409.9	429.0	441.8	460.9	484.9	481.7	481.7
50°	11821.4	7180.3	408.3	376.4	382.8	405.1	411.5	417.9	419.5	389.2	386.0
52.5°	12127.7	6926.7	327.0	330.1	355.7	378.0	371.6	362.0	346.1	309.4	303.0
55°	12229.7	6438.6	256.8	272.7	315.8	344.5	320.6	299.8	269.5	239.2	232.9
57.5°	12044.7	5808.7	208.9	212.1	266.3	290.3	263.2	239.2	205.7	180.2	175.4
60°	11652.4	5108.5	172.2	159.5	205.7	226.5	208.9	185.0	154.7	135.6	134.0
62.5°	10874.1	4362.1	141.9	124.4	156.3	173.8	162.7	145.1	119.6	106.9	105.3
65°	9237.7	3489.7	114.8	100.5	121.2	135.6	126.0	113.2	94.1	84.5	82.9
67.5°	6448.2	2358.9	94.1	82.9	95.7	106.9	98.9	92.5	75.0	73.4	75.0
70°	3110.1	1137.2	78.2	67.0	75.0	82.9	79.7	75.0	71.8	82.9	95.7
72.5°	891.6	381.2	62.2	55.8	60.6	65.4	68.6	67.0	78.2	100.5	116.4
73°	685.8	307.8	59.0	52.6	57.4	63.8	67.0	65.4	79.7	102.1	116.4
75°	293.5	148.3	44.7	43.1	47.8	55.8	59.0	59.0	79.7	103.7	111.6
77.5°	132.4	79.7	28.7	33.5	41.5	44.7	49.4	49.4	63.8	79.7	79.7
80°	75.0	43.1	22.3	25.5	30.3	30.3	30.3	27.1	28.7	31.9	35.1
82.5°	47.8	28.7	17.5	20.7	19.1	15.9	12.8	12.8	11.2	12.8	15.9
85°	27.1	15.9	15.9	12.8	8.0	6.4	8.0	6.4	1.6	0.0	1.6
87.5°	15.9	9.6	4.8	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)