

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: P322812

Luminaire Tested: **GAN-SA8C-727-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322812
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34359 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

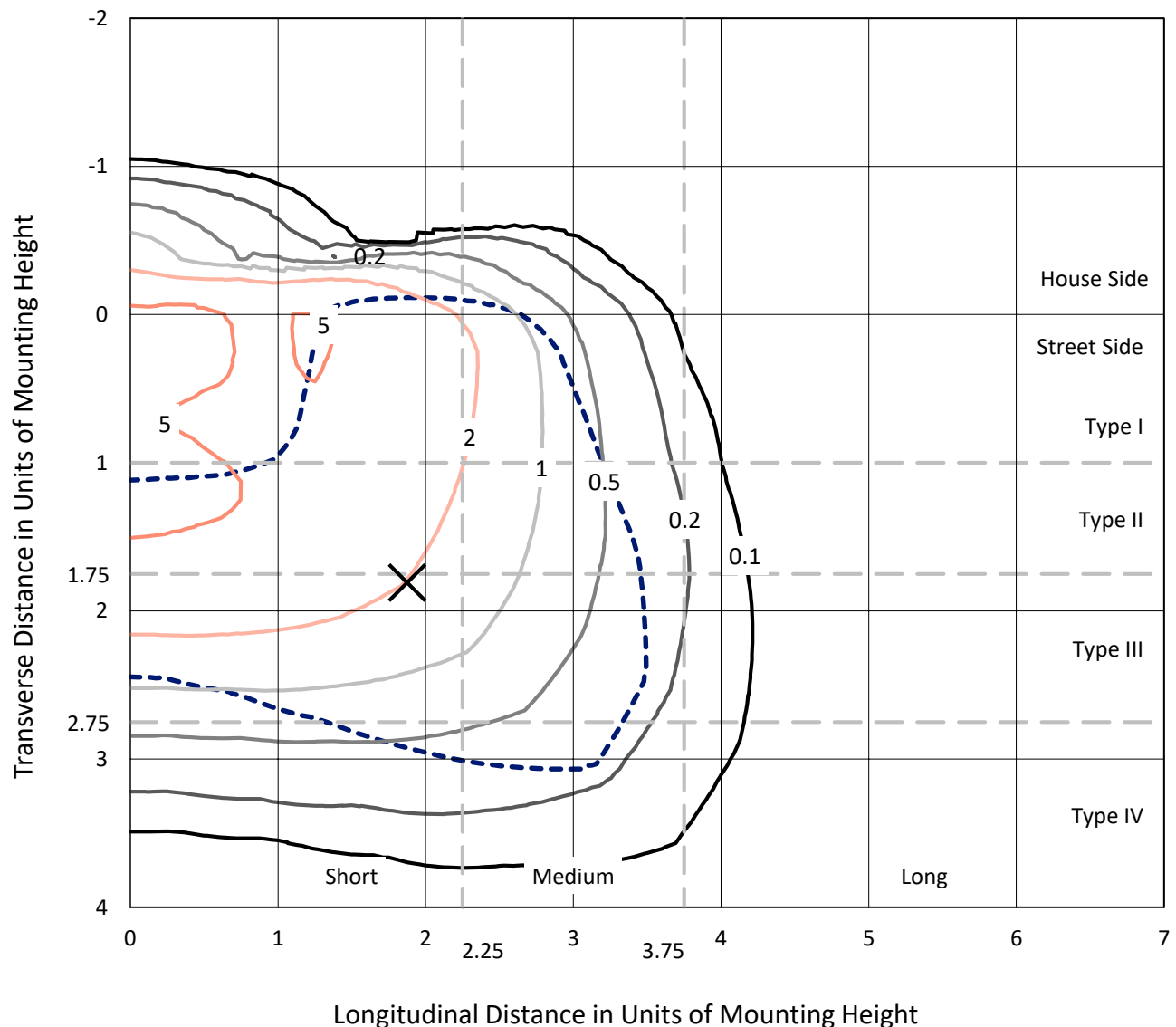
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322812
 CATALOG NUMBER: GAN-SA8C-727-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

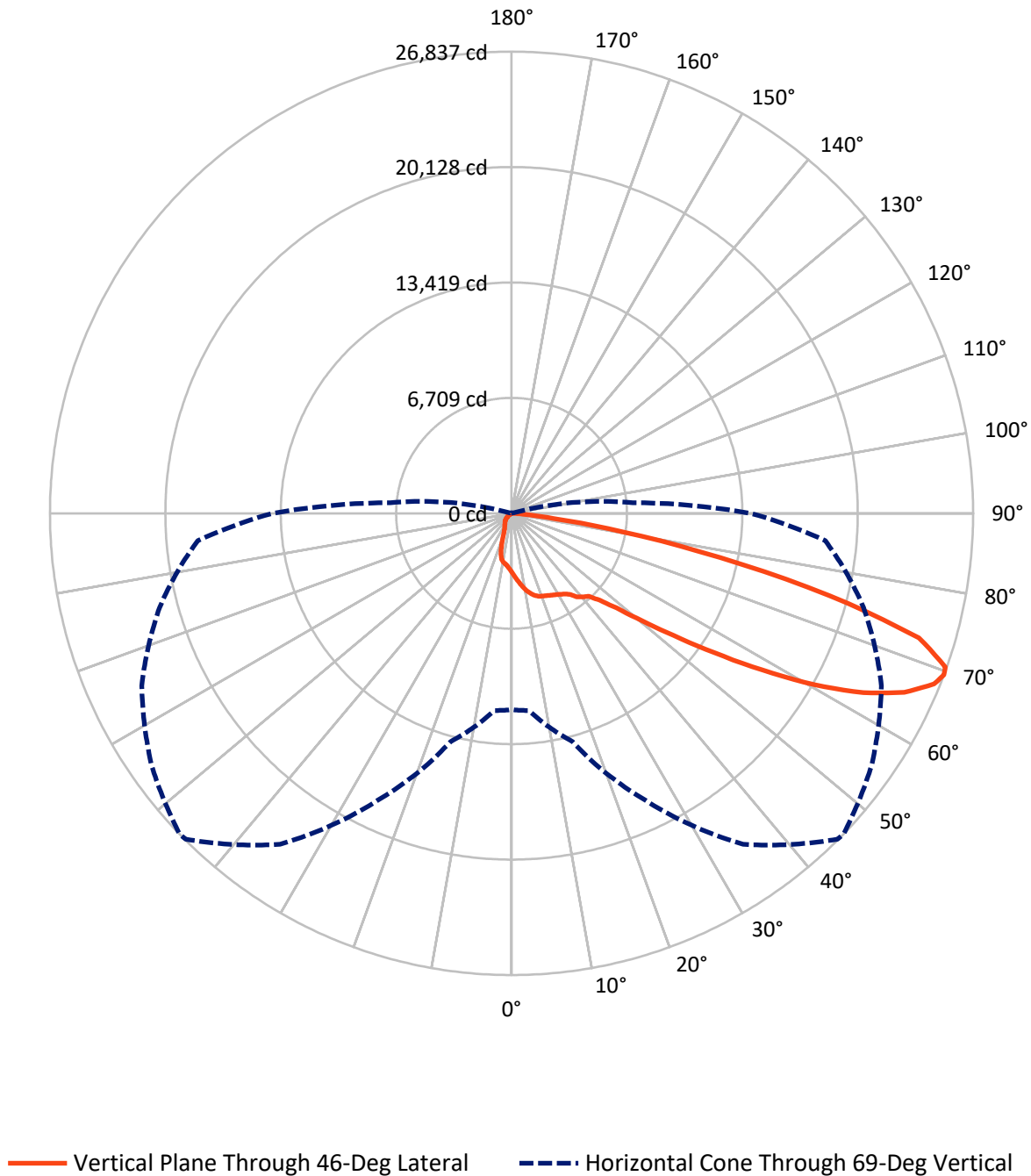
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - N/A

REPORT NUMBER: P322812
CATALOG NUMBER: GAN-SA8C-727-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P322812

CATALOG NUMBER: GAN-SA8C-727-U-T4W-HSS

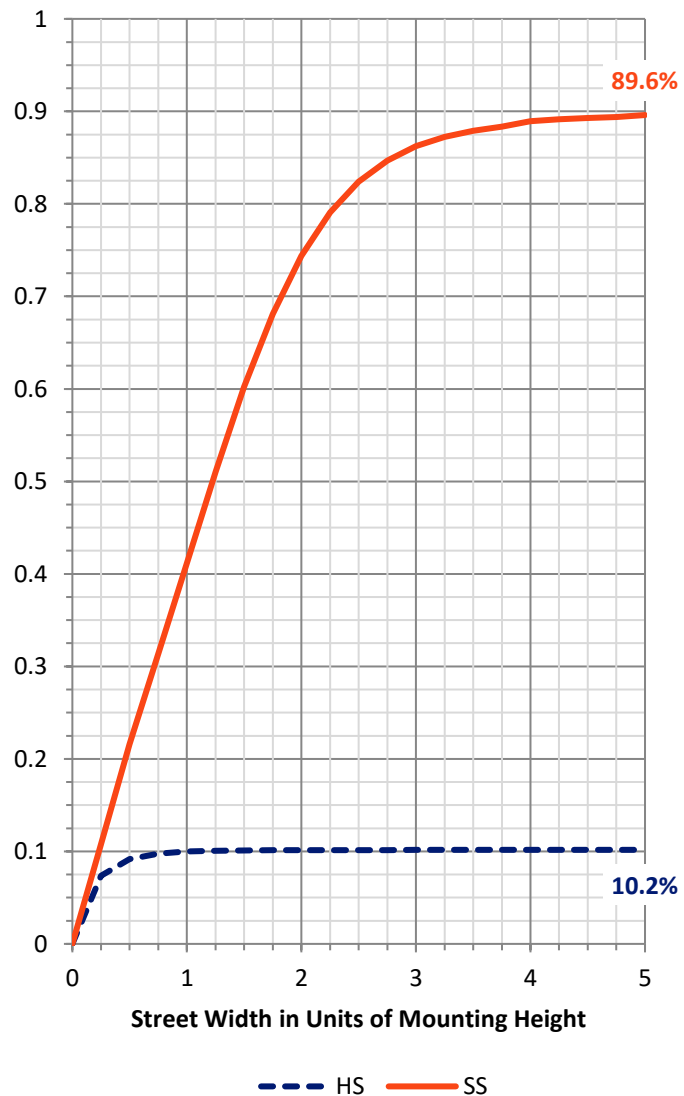
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3526.2	0.0	3526.2
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	30832.8	0.0	30832.8
	% Fixture	89.7	0.0	89.7
Total	Lumens	34359.0	0.0	34359.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.7	1.0
10°-20°	1039.6	3.0
20°-30°	1634.9	4.8
30°-40°	2344.4	6.8
40°-50°	4052.0	11.8
50°-60°	8005.2	23.3
60°-70°	11187.9	32.6
70°-80°	5405.0	15.7
80°-90°	347.4	1.0
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°	34359.0	100.0
0°-180°	34359.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322812

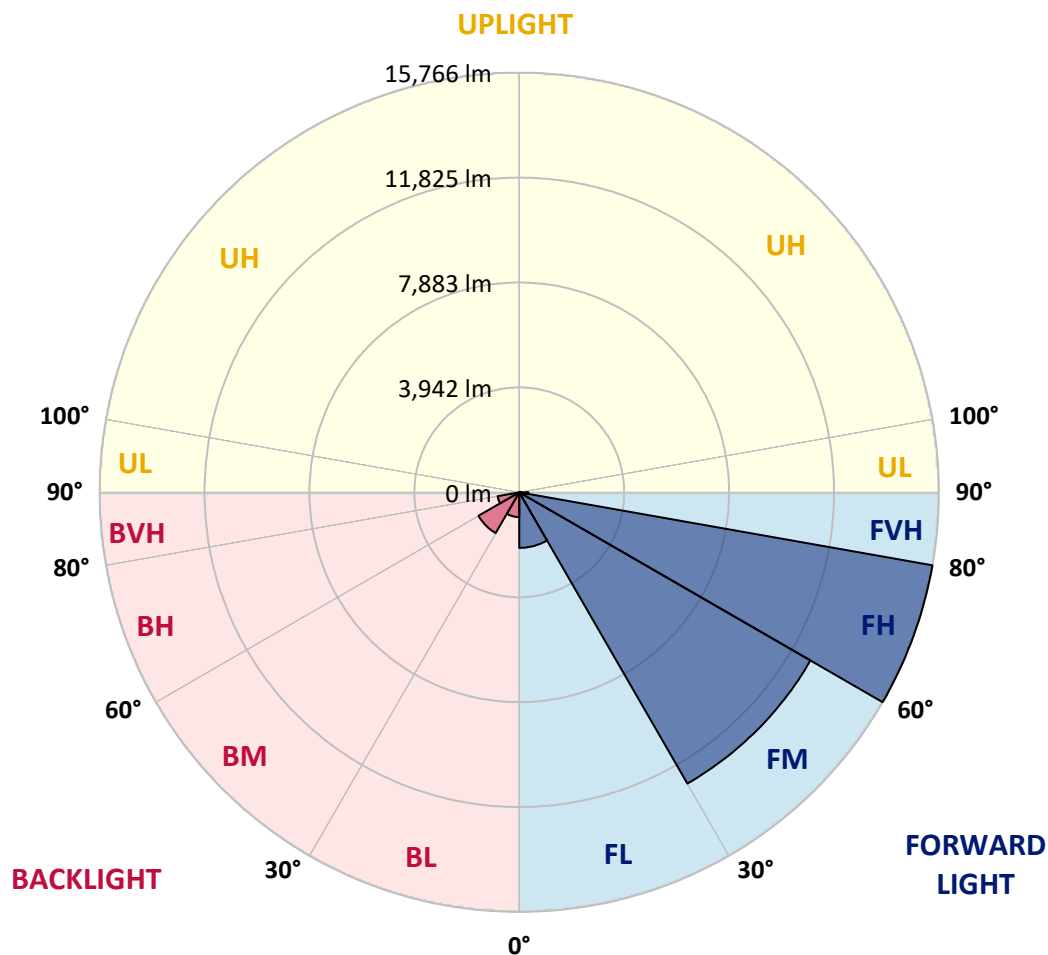
CATALOG NUMBER: GAN-SA8C-727-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2087.7	6.1			
FM	(30°-60°)	12634.6	36.8			
FH	(60°-80°)	15766.1	45.9			G5
FVH	(80°-90°)	344.5	1.0			G3/500
BL	(0°-30°)	929.4	2.7	B2/1000		
BM	(30°-60°)	1767.0	5.1	B2/2500		
BH	(60°-80°)	826.8	2.4	B2/1000		G2/1000
BVH	(80°-90°)	2.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





REPORT NUMBER: P322812

CATALOG NUMBER: GAN-SA8C-727-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3442.6	3442.6	3442.6	3442.6	3442.6	3442.6	3442.6	3442.6	3442.6	3442.6	3442.6
2.5°	3824.4	3819.6	3797.1	3787.4	3732.6	3700.4	3687.5	3647.2	3589.2	3531.2	3466.8
5°	4259.4	4257.8	4215.9	4175.6	4072.5	3975.9	3958.2	3864.7	3734.2	3611.8	3489.4
7.5°	4704.0	4683.1	4641.2	4563.9	4414.1	4259.4	4244.9	4112.8	3927.5	3750.3	3574.7
10°	5081.0	5068.1	5013.3	4895.7	4720.1	4544.5	4526.8	4364.1	4154.7	3937.2	3713.3
12.5°	5374.2	5364.5	5292.0	5145.4	4958.6	4776.5	4752.4	4607.4	4383.4	4140.2	3876.0
15°	5553.0	5548.2	5459.6	5303.3	5119.7	4961.8	4940.8	4813.6	4605.8	4351.2	4053.2
17.5°	5594.9	5596.5	5504.7	5346.8	5195.4	5082.6	5066.5	4969.8	4795.9	4542.9	4230.4
20°	5501.5	5520.8	5438.6	5301.7	5208.3	5148.7	5135.8	5077.8	4931.2	4692.8	4372.2
22.5°	5369.4	5379.0	5322.6	5230.8	5192.2	5203.4	5197.0	5164.8	5040.7	4821.6	4512.3
25°	5288.8	5288.8	5255.0	5177.7	5203.4	5272.7	5274.3	5267.9	5169.6	4979.5	4683.1
27.5°	5285.6	5275.9	5237.3	5179.3	5250.2	5356.5	5362.9	5406.4	5345.2	5171.2	4895.7
30°	5414.5	5403.2	5321.0	5245.3	5335.5	5449.9	5466.0	5561.1	5530.5	5379.0	5132.6
32.5°	5715.7	5675.4	5493.4	5369.4	5437.0	5574.0	5594.9	5746.3	5794.7	5635.2	5361.3
35°	6128.1	6000.9	5738.3	5604.6	5611.0	5754.4	5773.7	5996.0	6139.4	5870.4	5538.5
37.5°	6696.8	6634.0	6207.1	5849.4	5878.4	6095.9	6152.3	6393.9	6353.7	5999.3	5739.9
40°	7943.7	7845.4	7391.1	6535.7	6134.6	6373.0	6390.7	6519.6	6522.8	6290.8	6158.7
42.5°	9641.7	9601.4	9122.9	7781.0	6638.8	6558.3	6590.5	6808.0	7051.2	6906.2	6899.8
45°	11521.7	11500.7	10993.3	9433.8	7658.6	7165.6	7205.9	7497.5	7963.0	7995.2	8199.8
47.5°	13034.4	13024.7	12733.1	11278.4	9219.6	8195.0	8207.9	8517.2	9335.6	9739.9	10067.0
50°	14413.4	14460.1	14229.7	13274.4	11346.1	9807.6	9777.0	9983.2	11297.7	11959.8	12365.8
52.5°	16330.4	16396.5	15750.5	15136.7	13577.3	11808.4	11784.2	12000.1	13656.2	14152.4	14224.9
55°	18023.5	17910.8	17400.1	17222.9	16298.2	14279.6	14273.2	14463.3	15937.3	16148.4	16282.1
57.5°	18771.0	18727.5	18974.0	19380.0	19148.0	17200.3	17185.8	17040.8	17978.4	18001.0	18411.8
60°	19243.0	19296.2	20051.7	21303.5	21881.8	20343.3	20249.9	19365.5	19927.7	19877.8	20317.6
62.5°	18888.6	18993.3	20353.0	22439.2	23927.7	23086.8	22954.7	21495.2	21593.4	21421.1	21830.3
65°	17007.0	17169.7	19397.7	22224.9	24942.7	25231.0	25097.3	23375.2	22916.1	22632.5	22405.4
67.5°	13809.2	13905.9	16232.1	20361.1	24485.1	26510.1	26482.7	25023.2	23914.9	22427.9	20665.5
69°	11412.1	11507.2	13746.4	18398.9	23478.3	26784.0	26837.2	25551.6	23724.8	21184.3	18310.3
70°	9665.8	9767.3	11853.5	16717.0	22310.3	26656.7	26751.8	25501.7	23180.3	19744.1	16243.4
72.5°	5069.7	5156.7	7297.7	11516.8	18187.9	24477.1	24765.4	23346.2	19649.0	14339.2	9604.6
75°	1593.2	1643.2	2849.8	6020.2	12452.8	19032.0	19098.1	18313.5	13952.6	7887.3	4000.0
77.5°	607.3	592.8	948.9	2218.3	6295.7	11984.0	12388.4	11444.3	7321.9	2788.6	923.1
80°	327.0	328.6	493.0	918.3	2693.5	6158.7	6500.3	5546.6	2601.7	869.9	212.6
82.5°	141.8	148.2	277.1	486.5	1237.2	2271.5	2442.2	2033.0	994.0	584.8	78.9
85°	30.6	33.8	133.7	264.2	504.2	637.9	668.6	658.9	633.1	454.3	30.6
87.5°	0.0	0.0	59.6	95.0	127.3	145.0	127.3	165.9	349.6	306.1	16.1
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: P322812

CATALOG NUMBER: GAN-SA8C-727-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3442.6	3442.6	3442.6	3442.6	3442.6	3442.6	3442.6	3442.6	3442.6	3442.6	3442.6
2.5°	3445.9	3416.9	3366.9	3312.2	3273.5	3233.2	3201.0	3186.5	3170.4	3159.1	3173.6
5°	3439.4	3383.0	3286.4	3192.9	3125.3	3070.5	3025.4	3007.7	2990.0	2977.1	2975.5
7.5°	3495.8	3416.9	3268.7	3131.7	3027.0	2952.9	2891.7	2865.9	2845.0	2835.3	2827.3
10°	3603.7	3502.2	3304.1	3125.3	2990.0	2864.3	2732.2	2630.7	2564.7	2534.1	2522.8
12.5°	3743.9	3616.6	3371.8	3159.1	2962.6	2720.9	2440.6	2199.0	2042.7	1991.2	1960.6
15°	3908.2	3750.3	3460.4	3202.6	2862.7	2421.3	1946.1	1630.3	1485.3	1456.3	1424.1
17.5°	4066.1	3892.1	3566.7	3210.7	2643.6	1934.8	1425.7	1211.4	1155.1	1174.4	1179.2
20°	4204.6	4032.3	3671.4	3139.8	2245.7	1451.5	1103.5	1050.4	1071.3	1108.3	1114.8
22.5°	4344.8	4167.6	3768.1	2952.9	1736.6	1101.9	994.0	1006.9	1027.8	1064.9	1071.3
25°	4515.5	4331.9	3858.3	2609.8	1303.3	937.6	944.0	963.4	984.3	1018.1	1021.4
27.5°	4712.1	4539.7	3917.9	2163.5	966.6	861.9	882.8	911.8	932.8	965.0	971.4
30°	4973.1	4813.6	3937.2	1701.2	810.3	794.2	803.9	839.3	869.9	898.9	903.8
32.5°	5217.9	5084.2	3872.8	1283.9	750.7	731.4	731.4	752.3	787.8	815.2	821.6
35°	5443.5	5356.5	3666.6	939.2	705.6	673.4	657.3	657.3	679.8	702.4	708.8
37.5°	5741.5	5738.3	3333.1	749.1	662.1	625.1	591.2	565.5	557.4	562.2	565.5
40°	6252.2	6257.0	2898.1	671.8	625.1	575.1	523.6	476.8	433.4	418.9	417.2
42.5°	7049.6	6977.1	2442.2	634.7	592.8	523.6	446.2	383.4	315.8	294.8	293.2
45°	8315.8	7885.7	1958.9	600.9	559.0	465.6	368.9	283.5	228.8	212.6	212.6
47.5°	10160.4	9079.4	1517.5	563.8	513.9	399.5	278.7	204.6	167.5	159.5	161.1
50°	12067.8	10249.0	1163.1	517.1	459.1	330.2	206.2	148.2	127.3	127.3	128.9
52.5°	13759.3	11106.0	907.0	467.2	391.5	259.4	156.3	116.0	106.3	104.7	106.3
55°	15342.9	11658.6	694.3	409.2	310.9	193.3	119.2	95.0	88.6	85.4	83.8
57.5°	16870.1	11932.5	520.3	330.2	225.5	140.2	95.0	80.5	74.1	69.3	67.7
60°	17886.6	11710.1	357.6	243.3	156.3	101.5	78.9	69.3	61.2	56.4	54.8
62.5°	18460.1	11102.8	230.4	175.6	111.2	75.7	62.8	58.0	46.7	41.9	41.9
65°	18228.1	10100.8	161.1	125.7	80.5	56.4	46.7	46.7	33.8	27.4	25.8
67.5°	16153.2	8533.3	122.4	93.4	58.0	41.9	35.4	40.3	20.9	12.9	12.9
69°	13897.8	7072.2	104.7	77.3	48.3	33.8	30.6	37.1	14.5	9.7	8.1
70°	12079.1	6100.7	95.0	67.7	40.3	29.0	27.4	35.4	14.5	8.1	6.4
72.5°	7226.8	3402.4	72.5	48.3	25.8	22.6	22.6	40.3	14.5	8.1	6.4
75°	2920.7	1198.6	53.2	33.8	19.3	19.3	27.4	51.6	12.9	6.4	4.8
77.5°	662.1	262.6	30.6	20.9	12.9	19.3	32.2	40.3	8.1	3.2	0.0
80°	161.1	64.4	19.3	12.9	8.1	14.5	24.2	22.6	1.6	0.0	0.0
82.5°	53.2	22.6	8.1	6.4	1.6	4.8	11.3	6.4	0.0	0.0	0.0
85°	22.6	12.9	3.2	1.6	0.0	0.0	1.6	0.0	0.0	0.0	0.0
87.5°	14.5	4.8	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

(END OF REPORT)