

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: P323001

Luminaire Tested: **GAN-SA7B-827-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323001
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-SA7B-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA 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: 21537 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

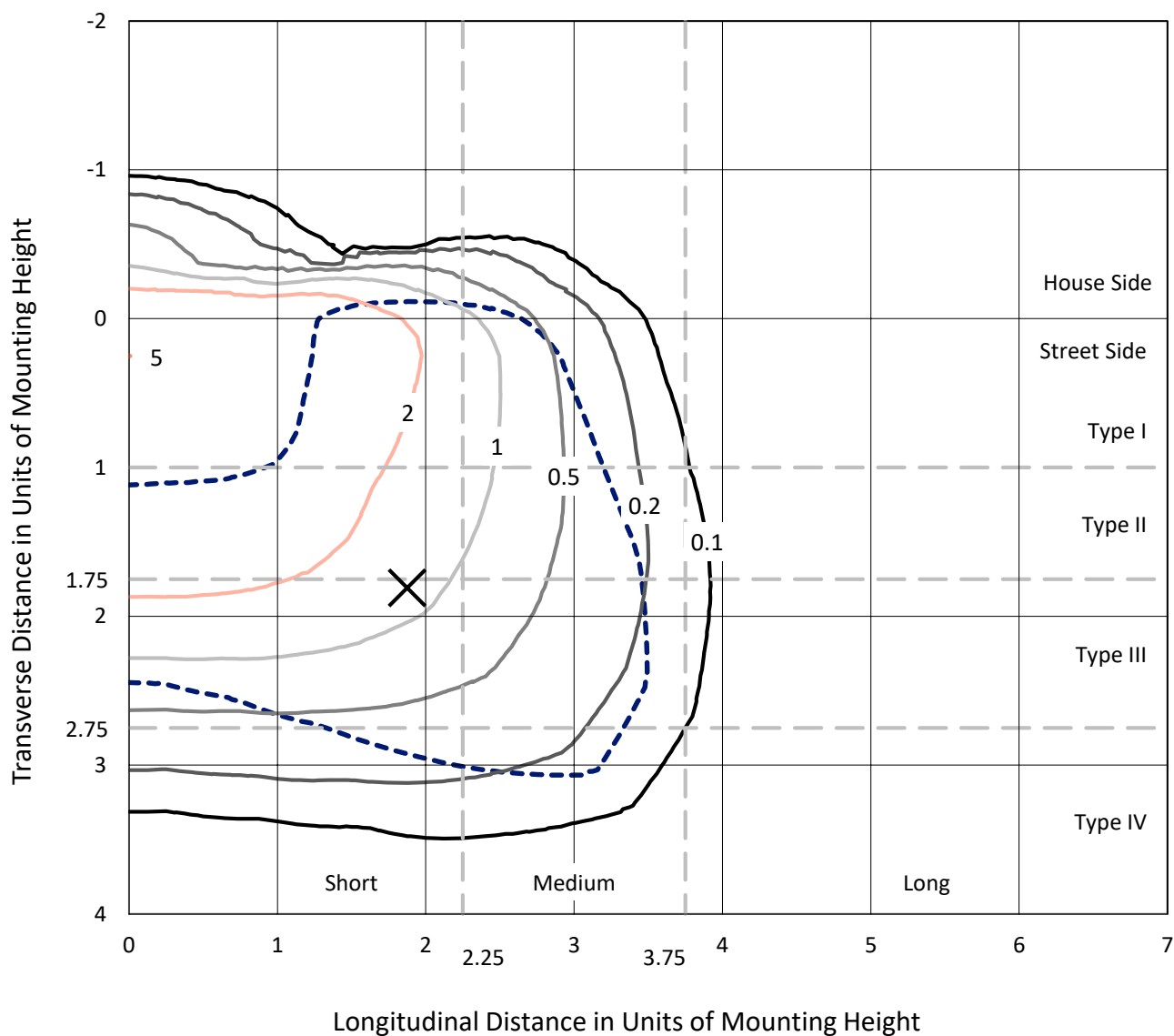
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323001
 CATALOG NUMBER: GAN-SA7B-827-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

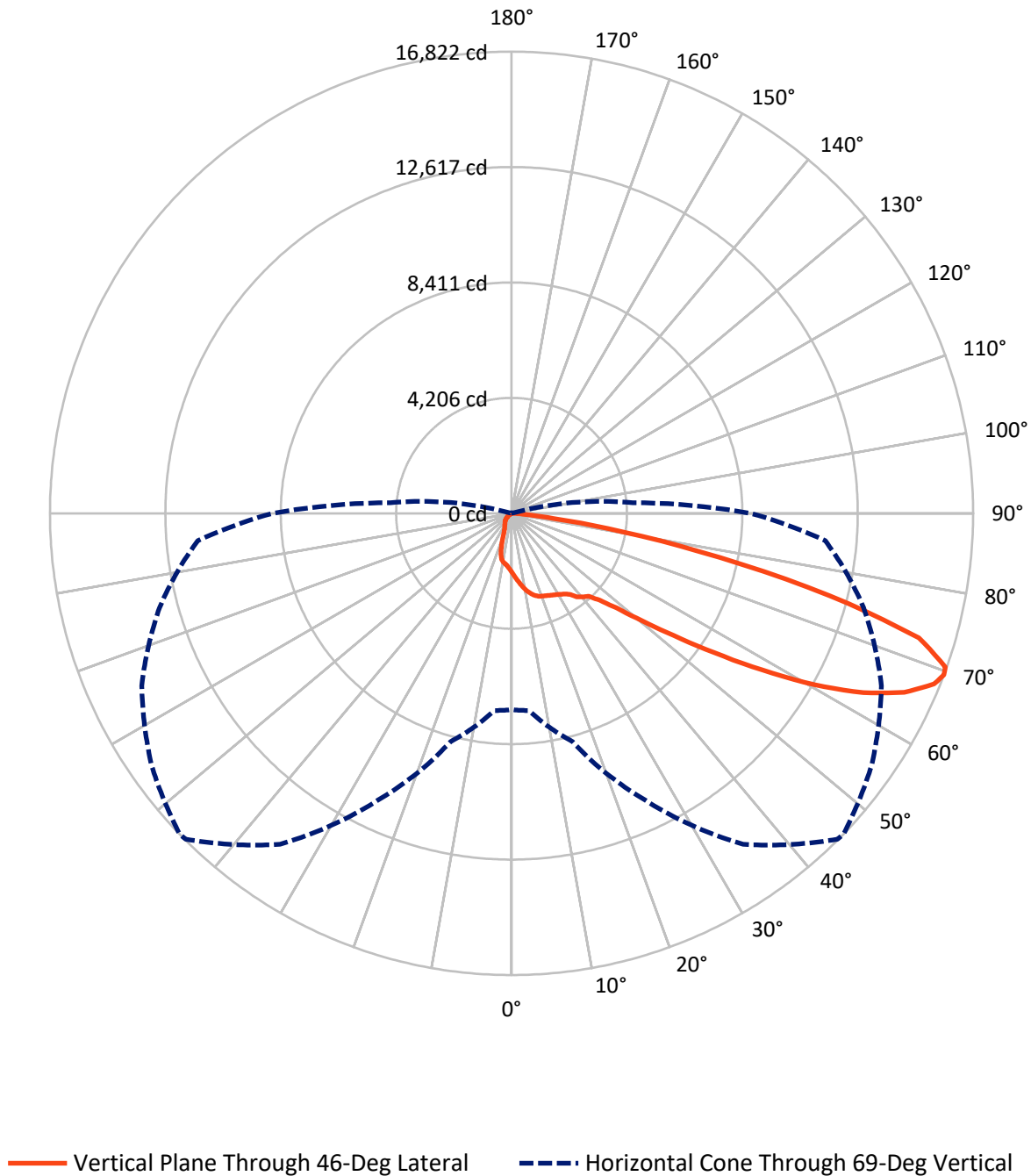
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - N/A

REPORT NUMBER: P323001
CATALOG NUMBER: GAN-SA7B-827-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P323001

CATALOG NUMBER: GAN-SA7B-827-U-T4W-HSS

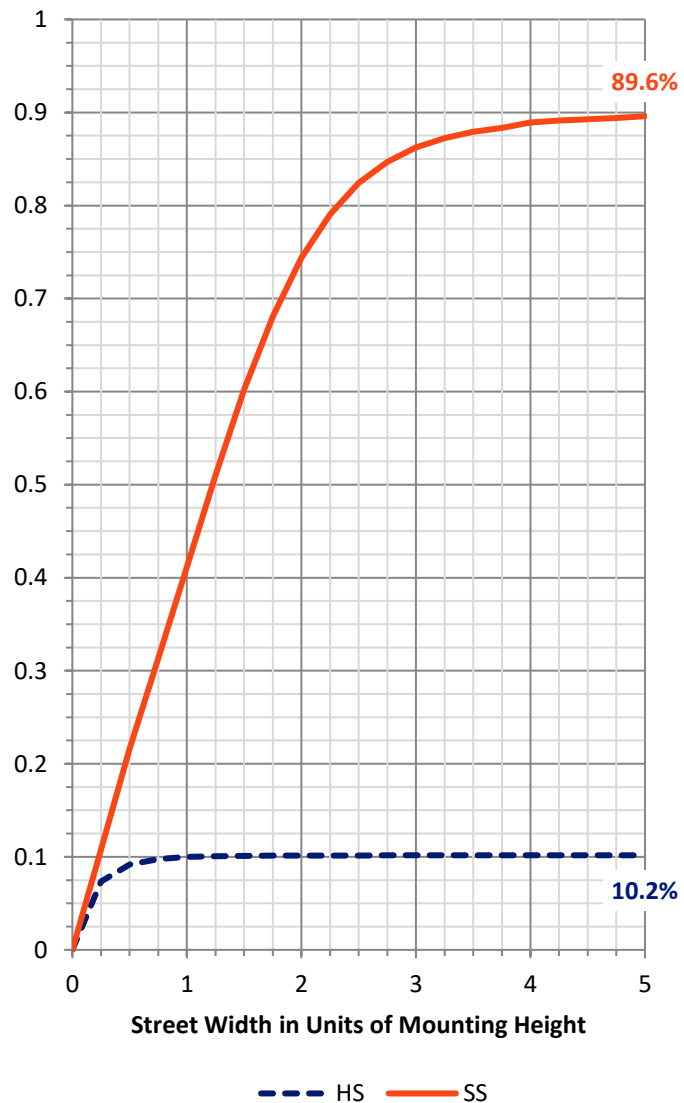
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2210.3	0.0	2210.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	19326.7	0.0	19326.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	21537.0	0.0	21537.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.8	1.0
10°-20°	651.6	3.0
20°-30°	1024.8	4.8
30°-40°	1469.5	6.8
40°-50°	2539.9	11.8
50°-60°	5017.8	23.3
60°-70°	7012.8	32.6
70°-80°	3388.0	15.7
80°-90°	217.8	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°	21537.0	100.0
0°-180°	21537.0	100.0

Coefficient of Utilization



REPORT NUMBER: P323001

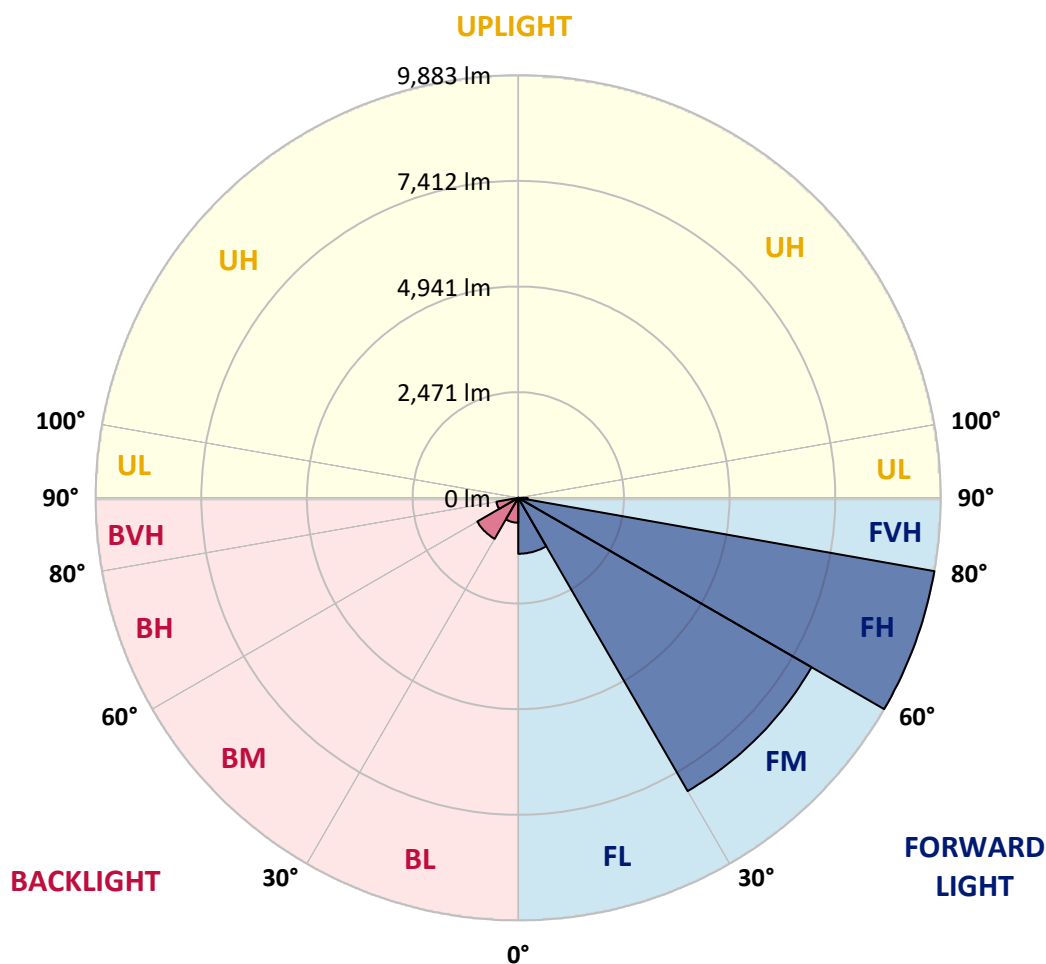
CATALOG NUMBER: GAN-SA7B-827-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1308.6	6.1			
FM	(30°-60°)	7919.6	36.8			
FH	(60°-80°)	9882.5	45.9			G4/12000
FVH	(80°-90°)	215.9	1.0			G2/225
BL	(0°-30°)	582.5	2.7	B2/1000		
BM	(30°-60°)	1107.6	5.1	B2/2500		
BH	(60°-80°)	518.3	2.4	B2/1000		G2/1000
BVH	(80°-90°)	1.8	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 IV Short





REPORT NUMBER: P323001

CATALOG NUMBER: GAN-SA7B-827-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2157.9	2157.9	2157.9	2157.9	2157.9	2157.9	2157.9	2157.9	2157.9	2157.9	2157.9
2.5°	2397.2	2394.2	2380.1	2374.0	2339.7	2319.5	2311.4	2286.2	2249.8	2213.5	2173.1
5°	2669.9	2668.9	2642.6	2617.4	2552.8	2492.2	2481.1	2422.5	2340.7	2264.0	2187.2
7.5°	2948.6	2935.5	2909.2	2860.7	2766.8	2669.9	2660.8	2578.0	2461.9	2350.8	2240.7
10°	3184.9	3176.8	3142.5	3068.8	2958.7	2848.6	2837.5	2735.5	2604.3	2467.9	2327.6
12.5°	3368.7	3362.6	3317.2	3225.3	3108.1	2994.0	2978.9	2888.0	2747.6	2595.2	2429.6
15°	3480.8	3477.7	3422.2	3324.2	3209.1	3110.2	3097.0	3017.3	2887.0	2727.4	2540.6
17.5°	3507.0	3508.0	3450.5	3351.5	3256.6	3185.9	3175.8	3115.2	3006.2	2847.6	2651.7
20°	3448.4	3460.6	3409.1	3323.2	3264.7	3227.3	3219.2	3182.9	3091.0	2941.5	2740.6
22.5°	3365.6	3371.7	3336.4	3278.8	3254.6	3261.6	3257.6	3237.4	3159.6	3022.3	2828.4
25°	3315.1	3315.1	3293.9	3245.5	3261.6	3305.1	3306.1	3302.0	3240.4	3121.3	2935.5
27.5°	3313.1	3307.1	3282.8	3246.5	3290.9	3357.6	3361.6	3388.9	3350.5	3241.4	3068.8
30°	3393.9	3386.8	3335.3	3287.9	3344.4	3416.1	3426.2	3485.8	3466.6	3371.7	3217.2
32.5°	3582.7	3557.5	3443.4	3365.6	3408.1	3493.9	3507.0	3601.9	3632.2	3532.3	3360.6
35°	3841.3	3761.5	3596.9	3513.1	3517.1	3607.0	3619.1	3758.4	3848.3	3679.7	3471.7
37.5°	4197.7	4158.3	3890.7	3666.6	3684.7	3821.1	3856.4	4007.9	3982.6	3760.5	3597.9
40°	4979.3	4917.7	4632.9	4096.7	3845.3	3994.7	4005.8	4086.6	4088.7	3943.2	3860.4
42.5°	6043.6	6018.4	5718.5	4877.3	4161.4	4110.9	4131.1	4267.4	4419.9	4329.0	4324.9
45°	7222.0	7208.9	6890.8	5913.3	4800.6	4491.6	4516.8	4699.6	4991.4	5011.6	5139.8
47.5°	8170.2	8164.2	7981.4	7069.6	5779.0	5136.8	5144.9	5338.8	5851.7	6105.2	6310.2
50°	9034.6	9063.9	8919.5	8320.7	7112.0	6147.6	6128.4	6257.7	7081.7	7496.7	7751.2
52.5°	10236.3	10277.7	9872.7	9488.0	8510.5	7401.8	7386.6	7521.9	8560.0	8871.0	8916.5
55°	11297.6	11226.9	10906.8	10795.7	10216.1	8950.8	8946.8	9065.9	9989.9	10122.2	10206.0
57.5°	11766.1	11738.8	11893.3	12147.8	12002.4	10781.6	10772.5	10681.6	11269.3	11283.4	11540.9
60°	12062.0	12095.3	12568.9	13353.5	13716.0	12751.7	12693.1	12138.7	12491.1	12459.8	12735.5
62.5°	11839.8	11905.5	12757.7	14065.4	14998.5	14471.3	14388.5	13473.7	13535.3	13427.2	13683.7
65°	10660.4	10762.4	12158.9	13931.1	15634.6	15815.4	15731.6	14652.1	14364.3	14186.6	14044.2
67.5°	8655.9	8716.5	10174.7	12762.8	15347.8	16617.1	16600.0	15685.1	14990.4	14058.3	12953.6
69°	7153.4	7212.9	8616.6	11532.8	14716.7	16788.8	16822.1	16016.3	14871.2	13278.8	11477.3
70°	6058.8	6122.4	7430.1	10478.6	13984.6	16709.0	16768.6	15985.0	14529.9	12376.0	10181.7
72.5°	3177.8	3232.3	4574.4	7219.0	11400.6	15342.8	15523.5	14633.9	12316.4	8988.2	6020.4
75°	998.7	1030.0	1786.3	3773.6	7805.7	11929.7	11971.1	11479.3	8745.8	4943.9	2507.3
77.5°	380.7	371.6	594.8	1390.5	3946.3	7511.8	7765.3	7173.6	4589.5	1748.0	578.6
80°	205.0	206.0	309.0	575.6	1688.4	3860.4	4074.5	3476.7	1630.8	545.3	133.3
82.5°	88.9	92.9	173.7	305.0	775.5	1423.8	1530.8	1274.4	623.0	366.6	49.5
85°	19.2	21.2	83.8	165.6	316.1	399.9	419.1	413.0	396.8	284.8	19.2
87.5°	0.0	0.0	37.4	59.6	79.8	90.9	79.8	104.0	219.1	191.9	10.1
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: P323001

CATALOG NUMBER: GAN-SA7B-827-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2157.9	2157.9	2157.9	2157.9	2157.9	2157.9	2157.9	2157.9	2157.9	2157.9	2157.9
2.5°	2159.9	2141.8	2110.5	2076.1	2051.9	2026.7	2006.5	1997.4	1987.3	1980.2	1989.3
5°	2155.9	2120.6	2060.0	2001.4	1959.0	1924.7	1896.4	1885.3	1874.2	1866.1	1865.1
7.5°	2191.3	2141.8	2048.9	1963.0	1897.4	1850.9	1812.6	1796.4	1783.3	1777.2	1772.2
10°	2258.9	2195.3	2071.1	1959.0	1874.2	1795.4	1712.6	1649.0	1607.6	1588.4	1581.3
12.5°	2346.8	2267.0	2113.5	1980.2	1857.0	1705.5	1529.8	1378.4	1280.4	1248.1	1228.9
15°	2449.8	2350.8	2169.0	2007.5	1794.4	1517.7	1219.8	1021.9	931.0	912.9	892.7
17.5°	2548.7	2439.7	2235.7	2012.5	1657.1	1212.8	893.7	759.4	724.0	736.1	739.2
20°	2635.6	2527.5	2301.3	1968.1	1407.7	909.8	691.7	658.4	671.5	694.7	698.8
22.5°	2723.4	2612.3	2361.9	1850.9	1088.6	690.7	623.0	631.1	644.2	667.5	671.5
25°	2830.4	2715.3	2418.5	1635.9	816.9	587.7	591.7	603.9	617.0	638.2	640.2
27.5°	2953.6	2845.6	2455.8	1356.2	605.9	540.2	553.4	571.5	584.7	604.9	608.9
30°	3117.2	3017.3	2467.9	1066.3	507.9	497.8	503.9	526.1	545.3	563.5	566.5
32.5°	3270.7	3186.9	2427.5	804.8	470.6	458.4	458.4	471.6	493.8	511.0	515.0
35°	3412.1	3357.6	2298.3	588.7	442.3	422.1	412.0	412.0	426.1	440.3	444.3
37.5°	3598.9	3596.9	2089.3	469.6	415.0	391.8	370.6	354.4	349.4	352.4	354.4
40°	3919.0	3922.0	1816.6	421.1	391.8	360.5	328.2	298.9	271.6	262.5	261.5
42.5°	4418.9	4373.4	1530.8	397.9	371.6	328.2	279.7	240.3	197.9	184.8	183.8
45°	5212.5	4942.9	1227.9	376.7	350.4	291.8	231.2	177.7	143.4	133.3	133.3
47.5°	6368.8	5691.2	951.2	353.4	322.1	250.4	174.7	128.2	105.0	100.0	101.0
50°	7564.4	6424.3	729.1	324.1	287.8	207.0	129.3	92.9	79.8	79.8	80.8
52.5°	8624.6	6961.5	568.5	292.8	245.4	162.6	97.9	72.7	66.6	65.6	66.6
55°	9617.3	7307.9	435.2	256.5	194.9	121.2	74.7	59.6	55.5	53.5	52.5
57.5°	10574.5	7479.5	326.2	207.0	141.4	87.9	59.6	50.5	46.5	43.4	42.4
60°	11211.7	7340.2	224.2	152.5	97.9	63.6	49.5	43.4	38.4	35.3	34.3
62.5°	11571.2	6959.5	144.4	110.1	69.7	47.5	39.4	36.4	29.3	26.3	26.3
65°	11425.8	6331.4	101.0	78.8	50.5	35.3	29.3	29.3	21.2	17.2	16.2
67.5°	10125.2	5348.9	76.7	58.6	36.4	26.3	22.2	25.2	13.1	8.1	8.1
69°	8711.5	4433.0	65.6	48.5	30.3	21.2	19.2	23.2	9.1	6.1	5.0
70°	7571.4	3824.1	59.6	42.4	25.2	18.2	17.2	22.2	9.1	5.0	4.0
72.5°	4529.9	2132.7	45.4	30.3	16.2	14.1	14.1	25.2	9.1	5.0	4.0
75°	1830.8	751.3	33.3	21.2	12.1	12.1	17.2	32.3	8.1	4.0	3.0
77.5°	415.0	164.6	19.2	13.1	8.1	12.1	20.2	25.2	5.0	2.0	0.0
80°	101.0	40.4	12.1	8.1	5.0	9.1	15.1	14.1	1.0	0.0	0.0
82.5°	33.3	14.1	5.0	4.0	1.0	3.0	7.1	4.0	0.0	0.0	0.0
85°	14.1	8.1	2.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0
87.5°	9.1	3.0	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

(END OF REPORT)