

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: P322996

Luminaire Tested: **GAN-SA2B-827-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322996
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-SA2B-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 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: 6230 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

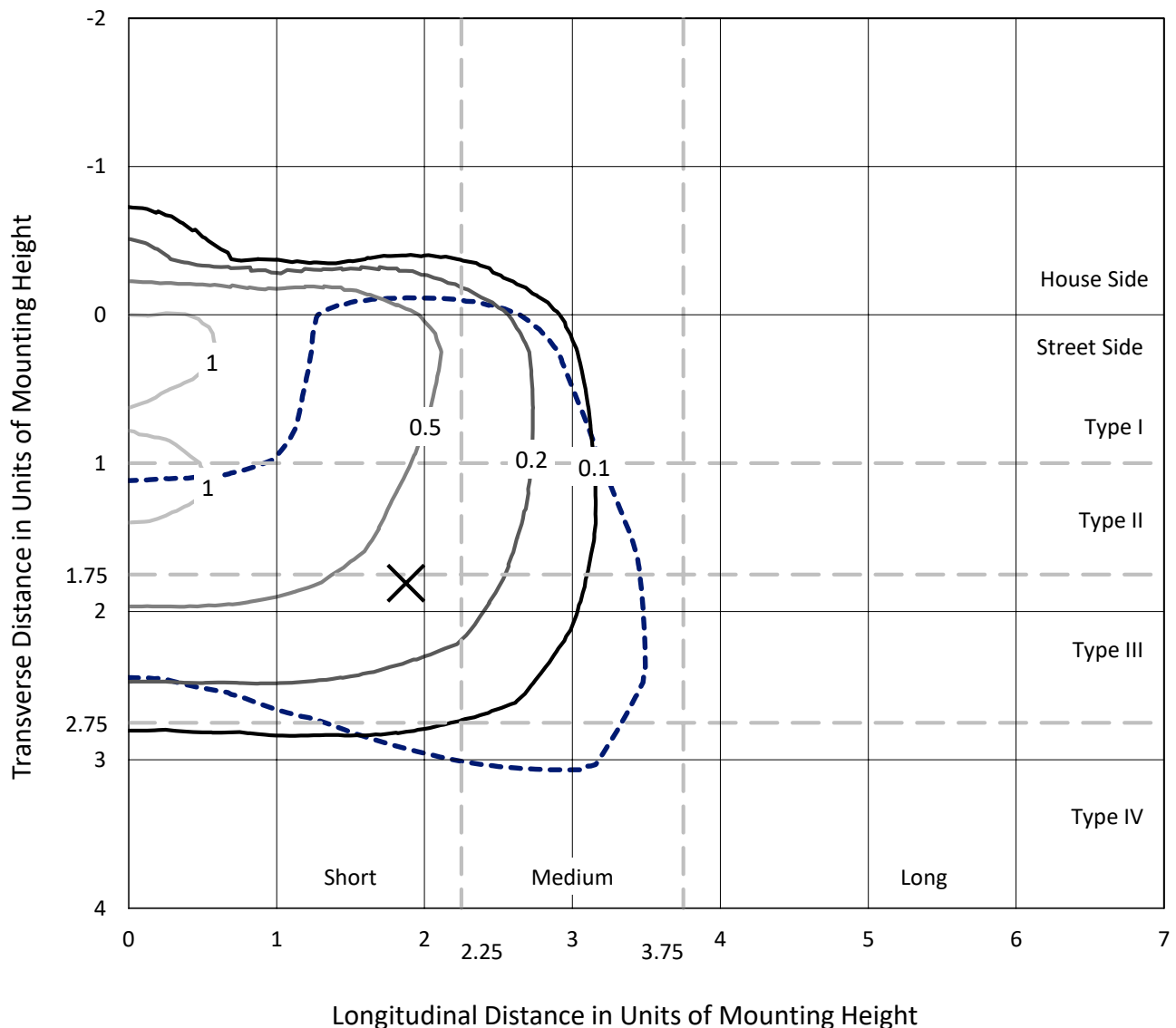
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322996
CATALOG NUMBER: GAN-SA2B-827-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

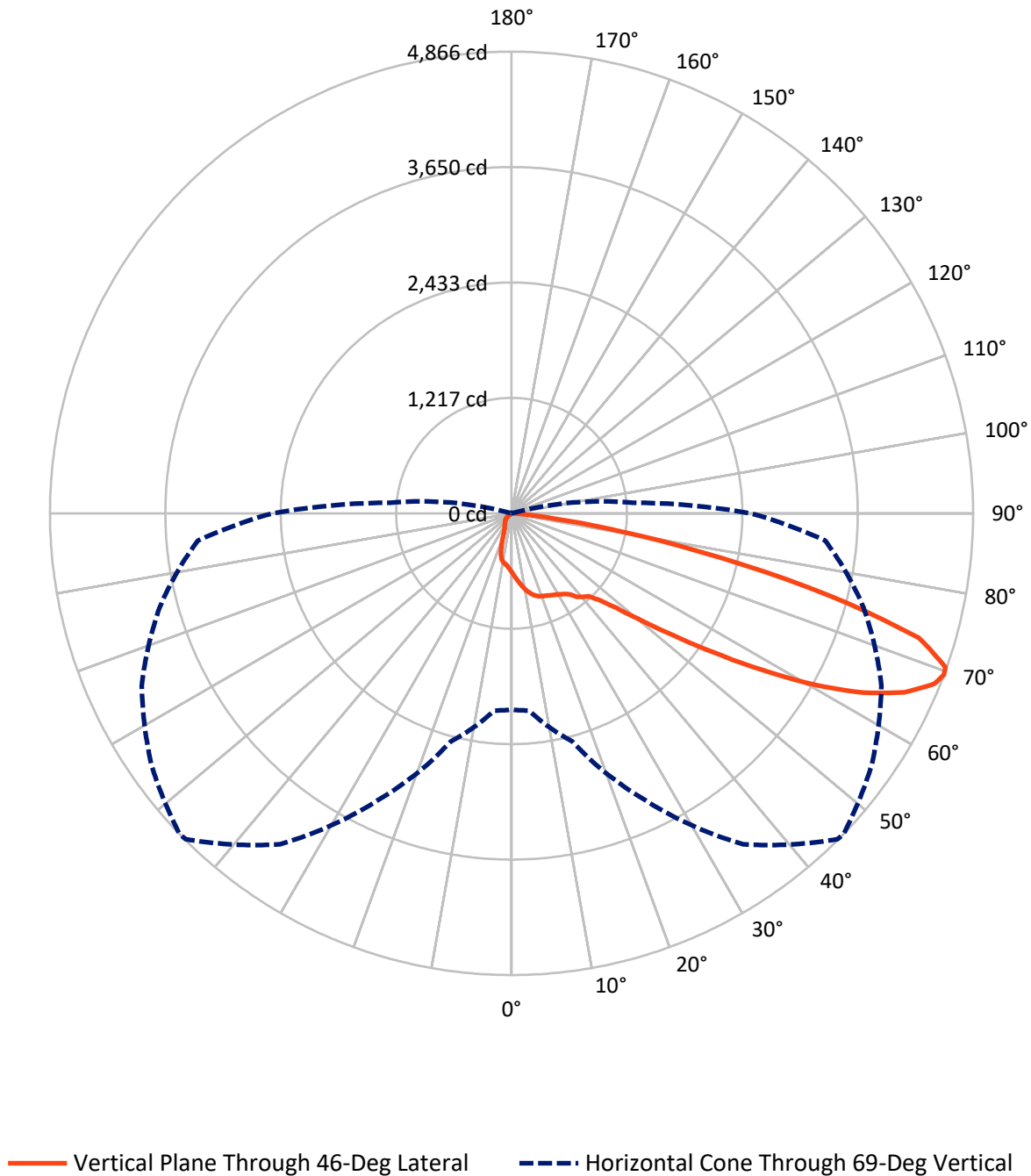
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type IV - Short - N/A

REPORT NUMBER: P322996
CATALOG NUMBER: GAN-SA2B-827-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P322996

CATALOG NUMBER: GAN-SA2B-827-U-T4W-HSS

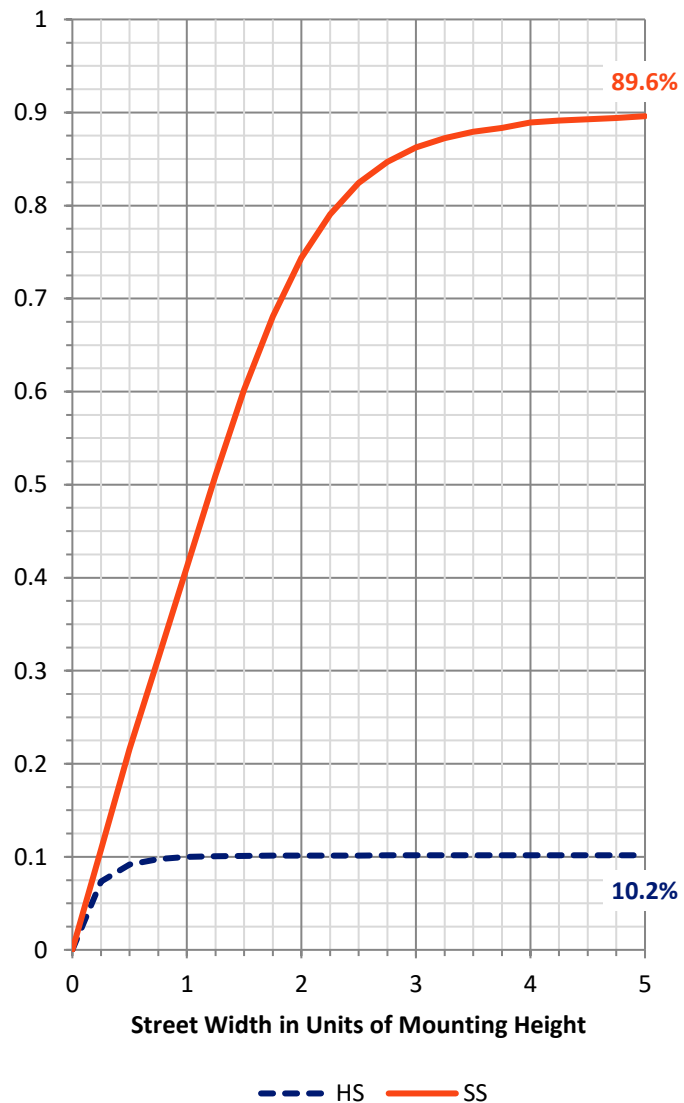
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	639.4	0.0	639.4
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	5590.6	0.0	5590.6
	% Fixture	89.7	0.0	89.7
Total	Lumens	6230.0	0.0	6230.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.1	1.0
10°-20°	188.5	3.0
20°-30°	296.4	4.8
30°-40°	425.1	6.8
40°-50°	734.7	11.8
50°-60°	1451.5	23.3
60°-70°	2028.6	32.6
70°-80°	980.0	15.7
80°-90°	63.0	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°	6230.0	100.0
0°-180°	6230.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322996

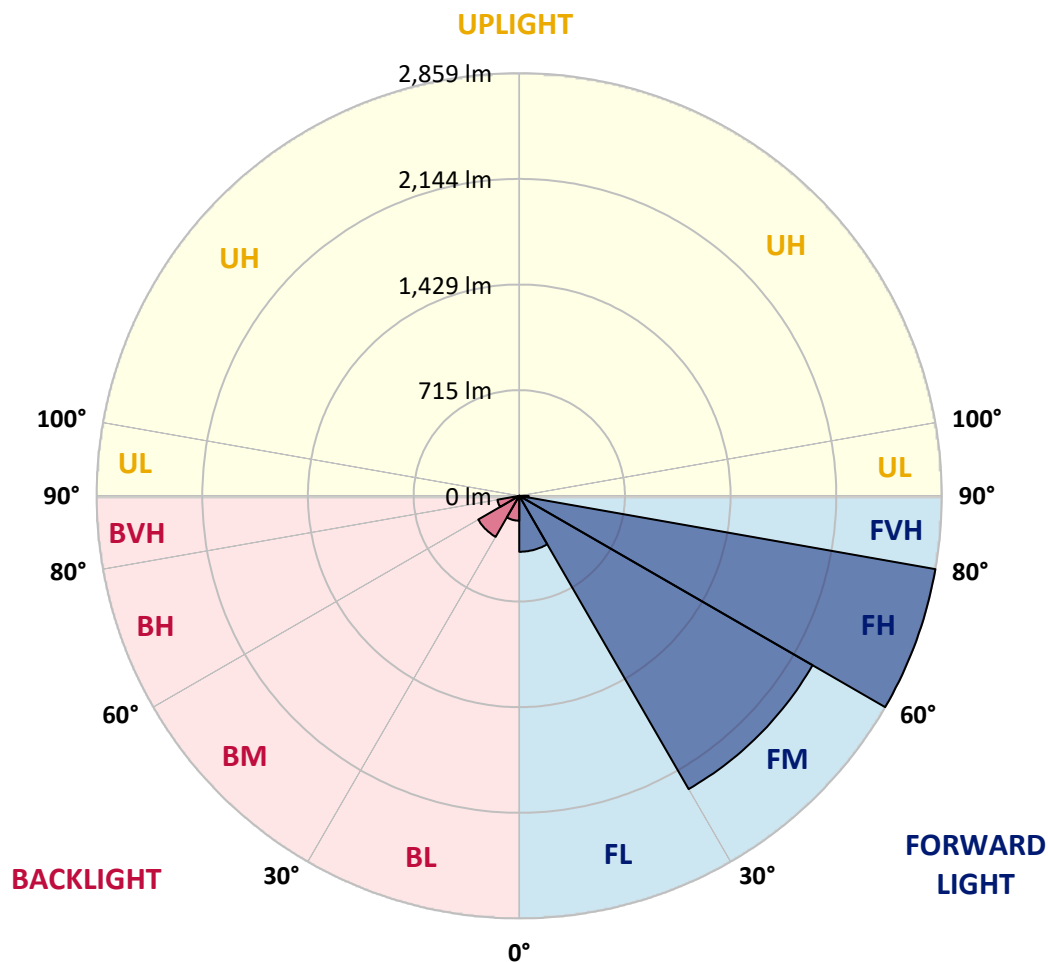
CATALOG NUMBER: GAN-SA2B-827-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	378.5	6.1			
FM	(30°-60°)	2290.9	36.8			
FH	(60°-80°)	2858.7	45.9			G2/5000
FVH	(80°-90°)	62.5	1.0			G1/100
BL	(0°-30°)	168.5	2.7	B1/500		
BM	(30°-60°)	320.4	5.1	B1/1000		
BH	(60°-80°)	149.9	2.4	B1/500		G1/500
BVH	(80°-90°)	0.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P322996

CATALOG NUMBER: GAN-SA2B-827-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	624.2	624.2	624.2	624.2	624.2	624.2	624.2	624.2	624.2	624.2	624.2
2.5°	693.5	692.6	688.5	686.7	676.8	671.0	668.6	661.3	650.8	640.3	628.6
5°	772.3	772.0	764.4	757.1	738.4	720.9	717.7	700.8	677.1	654.9	632.7
7.5°	852.9	849.1	841.5	827.5	800.4	772.3	769.7	745.7	712.1	680.0	648.2
10°	921.3	919.0	909.0	887.7	855.9	824.0	820.8	791.3	753.3	713.9	673.3
12.5°	974.5	972.7	959.6	933.0	899.1	866.1	861.7	835.4	794.8	750.7	702.8
15°	1006.9	1006.0	989.9	961.6	928.3	899.7	895.9	872.8	835.1	789.0	734.9
17.5°	1014.5	1014.8	998.1	969.5	942.0	921.6	918.7	901.1	869.6	823.7	767.1
20°	997.5	1001.0	986.1	961.3	944.4	933.6	931.2	920.7	894.1	850.9	792.8
22.5°	973.6	975.3	965.1	948.5	941.4	943.5	942.3	936.5	914.0	874.3	818.2
25°	959.0	959.0	952.8	938.8	943.5	956.1	956.3	955.2	937.4	902.9	849.1
27.5°	958.4	956.6	949.6	939.1	952.0	971.2	972.4	980.3	969.2	937.6	887.7
30°	981.8	979.7	964.8	951.1	967.4	988.2	991.1	1008.3	1002.8	975.3	930.6
32.5°	1036.4	1029.1	996.1	973.6	985.8	1010.7	1014.5	1041.9	1050.7	1021.8	972.1
35°	1111.2	1088.1	1040.5	1016.2	1017.4	1043.4	1046.9	1087.2	1113.2	1064.4	1004.2
37.5°	1214.3	1202.9	1125.5	1060.6	1065.9	1105.3	1115.5	1159.4	1152.1	1087.8	1040.8
40°	1440.4	1422.5	1340.2	1185.1	1112.3	1155.6	1158.8	1182.1	1182.7	1140.7	1116.7
42.5°	1748.2	1740.9	1654.2	1410.9	1203.8	1189.1	1195.0	1234.4	1278.5	1252.2	1251.1
45°	2089.1	2085.3	1993.3	1710.6	1388.7	1299.3	1306.6	1359.4	1443.9	1449.7	1486.8
47.5°	2363.4	2361.6	2308.8	2045.0	1671.7	1485.9	1488.3	1544.3	1692.7	1766.1	1825.3
50°	2613.4	2621.9	2580.1	2406.9	2057.3	1778.3	1772.8	1810.2	2048.5	2168.6	2242.2
52.5°	2961.0	2973.0	2855.9	2744.6	2461.8	2141.1	2136.7	2175.9	2476.2	2566.1	2579.3
55°	3268.0	3247.6	3155.0	3122.9	2955.2	2589.2	2588.0	2622.5	2889.8	2928.0	2952.3
57.5°	3403.6	3395.7	3440.4	3514.0	3471.9	3118.8	3116.1	3089.9	3259.9	3264.0	3338.4
60°	3489.2	3498.8	3635.8	3862.8	3967.6	3688.7	3671.7	3511.4	3613.3	3604.3	3684.0
62.5°	3424.9	3443.9	3690.4	4068.7	4338.6	4186.1	4162.2	3897.5	3915.3	3884.1	3958.3
65°	3083.7	3113.2	3517.2	4029.8	4522.6	4574.9	4550.7	4238.4	4155.2	4103.7	4062.6
67.5°	2503.9	2521.4	2943.2	3691.9	4439.7	4806.8	4801.9	4537.2	4336.3	4066.6	3747.1
69°	2069.3	2086.5	2492.5	3336.1	4257.1	4856.5	4866.1	4633.0	4301.8	3841.1	3320.0
70°	1752.6	1771.0	2149.3	3031.1	4045.3	4833.4	4850.7	4624.0	4203.1	3580.0	2945.3
72.5°	919.2	935.0	1323.2	2088.2	3297.8	4438.2	4490.5	4233.1	3562.8	2600.0	1741.5
75°	288.9	297.9	516.7	1091.6	2258.0	3450.9	3462.9	3320.6	2529.9	1430.1	725.3
77.5°	110.1	107.5	172.0	402.2	1141.5	2172.9	2246.3	2075.1	1327.6	505.6	167.4
80°	59.3	59.6	89.4	166.5	488.4	1116.7	1178.6	1005.7	471.7	157.7	38.6
82.5°	25.7	26.9	50.2	88.2	224.3	411.9	442.8	368.6	180.2	106.0	14.3
85°	5.5	6.1	24.2	47.9	91.4	115.7	121.2	119.5	114.8	82.4	5.5
87.5°	0.0	0.0	10.8	17.2	23.1	26.3	23.1	30.1	63.4	55.5	2.9
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: P322996

CATALOG NUMBER: GAN-SA2B-827-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	624.2	624.2	624.2	624.2	624.2	624.2	624.2	624.2	624.2	624.2	624.2
2.5°	624.8	619.5	610.5	600.6	593.6	586.2	580.4	577.8	574.9	572.8	575.4
5°	623.6	613.4	595.9	578.9	566.7	556.7	548.6	545.4	542.1	539.8	539.5
7.5°	633.9	619.5	592.7	567.8	548.9	535.4	524.3	519.7	515.9	514.1	512.6
10°	653.4	635.0	599.1	566.7	542.1	519.4	495.4	477.0	465.0	459.5	457.4
12.5°	678.8	655.8	611.4	572.8	537.2	493.4	442.5	398.7	370.4	361.0	355.5
15°	708.6	680.0	627.4	580.7	519.1	439.0	352.9	295.6	269.3	264.1	258.2
17.5°	737.3	705.7	646.7	582.2	479.3	350.8	258.5	219.7	209.4	212.9	213.8
20°	762.4	731.1	665.7	569.3	407.2	263.2	200.1	190.5	194.2	201.0	202.1
22.5°	787.8	755.7	683.2	535.4	314.9	199.8	180.2	182.6	186.4	193.1	194.2
25°	818.8	785.5	699.6	473.2	236.3	170.0	171.2	174.7	178.5	184.6	185.2
27.5°	854.4	823.1	710.4	392.3	175.3	156.3	160.1	165.3	169.1	175.0	176.1
30°	901.7	872.8	713.9	308.5	146.9	144.0	145.8	152.2	157.7	163.0	163.9
32.5°	946.1	921.9	702.2	232.8	136.1	132.6	132.6	136.4	142.8	147.8	149.0
35°	987.0	971.2	664.8	170.3	127.9	122.1	119.2	119.2	123.3	127.4	128.5
37.5°	1041.1	1040.5	604.4	135.8	120.1	113.3	107.2	102.5	101.1	101.9	102.5
40°	1133.6	1134.5	525.5	121.8	113.3	104.3	94.9	86.5	78.6	75.9	75.7
42.5°	1278.2	1265.1	442.8	115.1	107.5	94.9	80.9	69.5	57.3	53.5	53.2
45°	1507.8	1429.8	355.2	109.0	101.4	84.4	66.9	51.4	41.5	38.6	38.6
47.5°	1842.3	1646.3	275.2	102.2	93.2	72.4	50.5	37.1	30.4	28.9	29.2
50°	2188.1	1858.4	210.9	93.8	83.2	59.9	37.4	26.9	23.1	23.1	23.4
52.5°	2494.8	2013.8	164.5	84.7	71.0	47.0	28.3	21.0	19.3	19.0	19.3
55°	2782.0	2113.9	125.9	74.2	56.4	35.1	21.6	17.2	16.1	15.5	15.2
57.5°	3058.9	2163.6	94.3	59.9	40.9	25.4	17.2	14.6	13.4	12.6	12.3
60°	3243.2	2123.3	64.8	44.1	28.3	18.4	14.3	12.6	11.1	10.2	9.9
62.5°	3347.2	2013.2	41.8	31.8	20.2	13.7	11.4	10.5	8.5	7.6	7.6
65°	3305.1	1831.5	29.2	22.8	14.6	10.2	8.5	8.5	6.1	5.0	4.7
67.5°	2928.9	1547.3	22.2	16.9	10.5	7.6	6.4	7.3	3.8	2.3	2.3
69°	2520.0	1282.3	19.0	14.0	8.8	6.1	5.5	6.7	2.6	1.8	1.5
70°	2190.2	1106.2	17.2	12.3	7.3	5.3	5.0	6.4	2.6	1.5	1.2
72.5°	1310.4	616.9	13.1	8.8	4.7	4.1	4.1	7.3	2.6	1.5	1.2
75°	529.6	217.3	9.6	6.1	3.5	3.5	5.0	9.3	2.3	1.2	0.9
77.5°	120.1	47.6	5.5	3.8	2.3	3.5	5.8	7.3	1.5	0.6	0.0
80°	29.2	11.7	3.5	2.3	1.5	2.6	4.4	4.1	0.3	0.0	0.0
82.5°	9.6	4.1	1.5	1.2	0.3	0.9	2.0	1.2	0.0	0.0	0.0
85°	4.1	2.3	0.6	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0
87.5°	2.6	0.9	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)