

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: P321085

Luminaire Tested: **GAN-SA1C-827-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321085
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5585 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 59
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

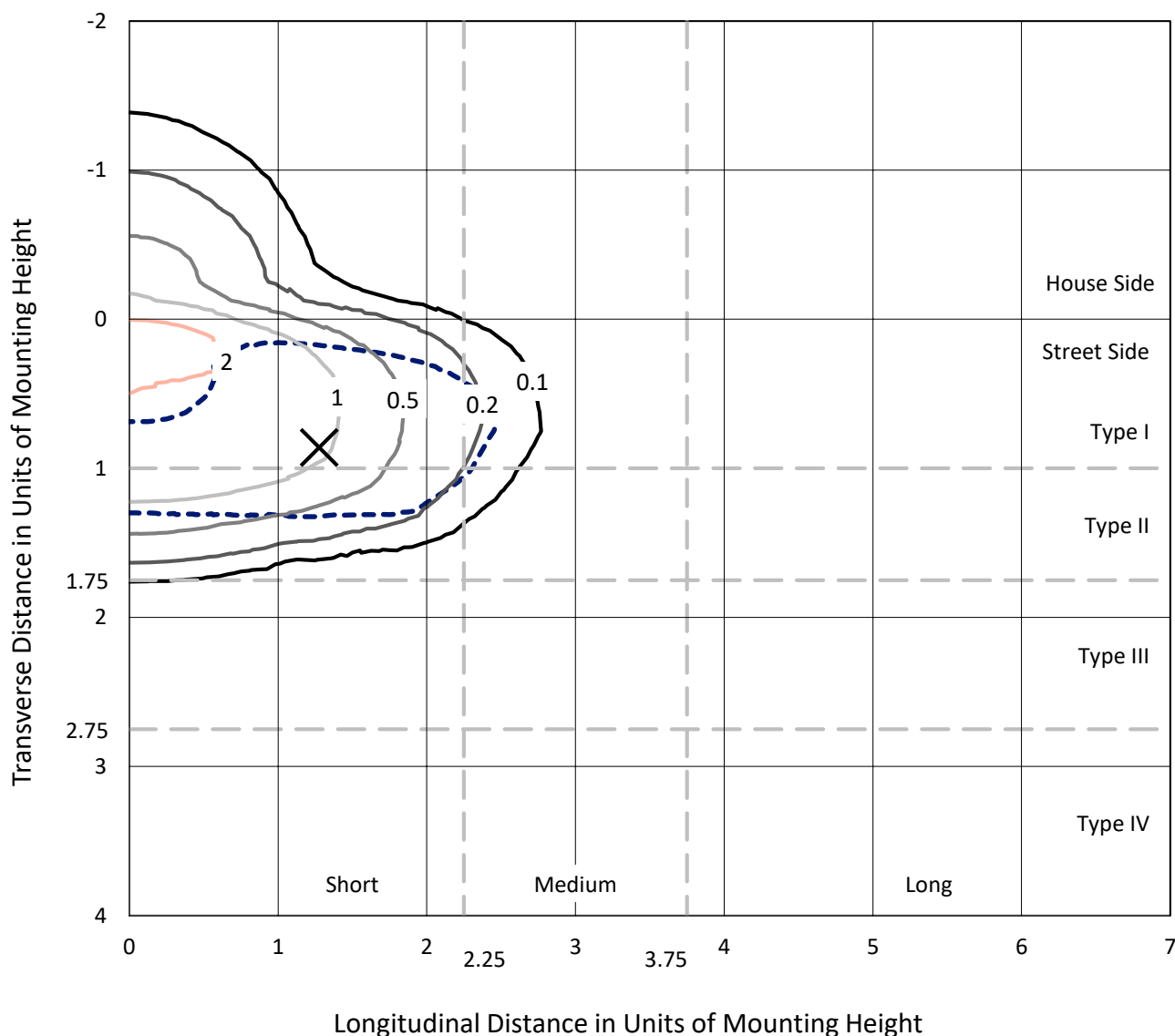


REPORT NUMBER: P321085
 CATALOG NUMBER: GAN-SA1C-827-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

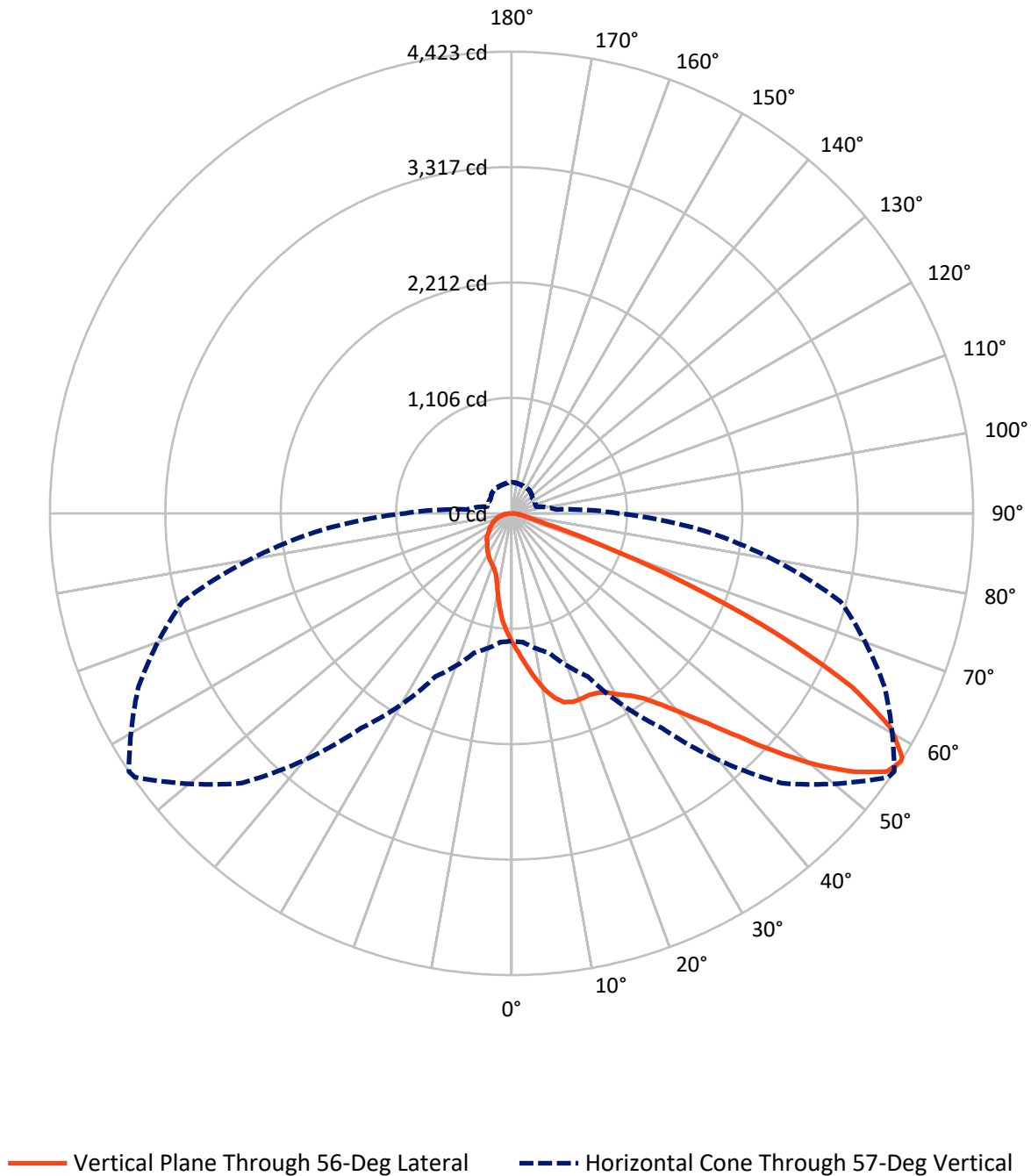
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Short - N/A

REPORT NUMBER: P321085
CATALOG NUMBER: GAN-SA1C-827-U-AFL

Luminous Intensity Polar Plot



REPORT NUMBER: P321085

CATALOG NUMBER: GAN-SA1C-827-U-AFL

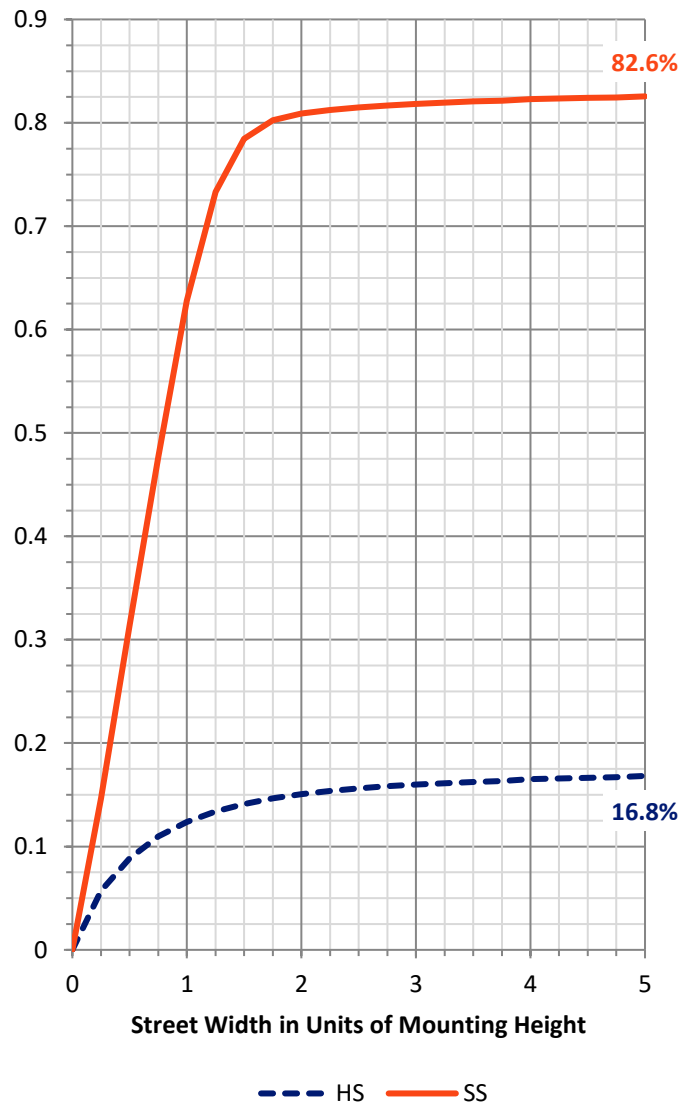
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	962.7	0.0	962.7
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	4622.3	0.0	4622.3
	% Fixture	82.8	0.0	82.8
Total	Lumens	5585.0	0.0	5585.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.3	2.1
10°-20°	334.6	6.0
20°-30°	544.9	9.8
30°-40°	814.6	14.6
40°-50°	1235.6	22.1
50°-60°	1384.9	24.8
60°-70°	818.0	14.6
70°-80°	268.0	4.8
80°-90°	66.2	1.2
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°	5585.0	100.0
0°-180°	5585.0	100.0

Coefficient of Utilization



REPORT NUMBER: P321085

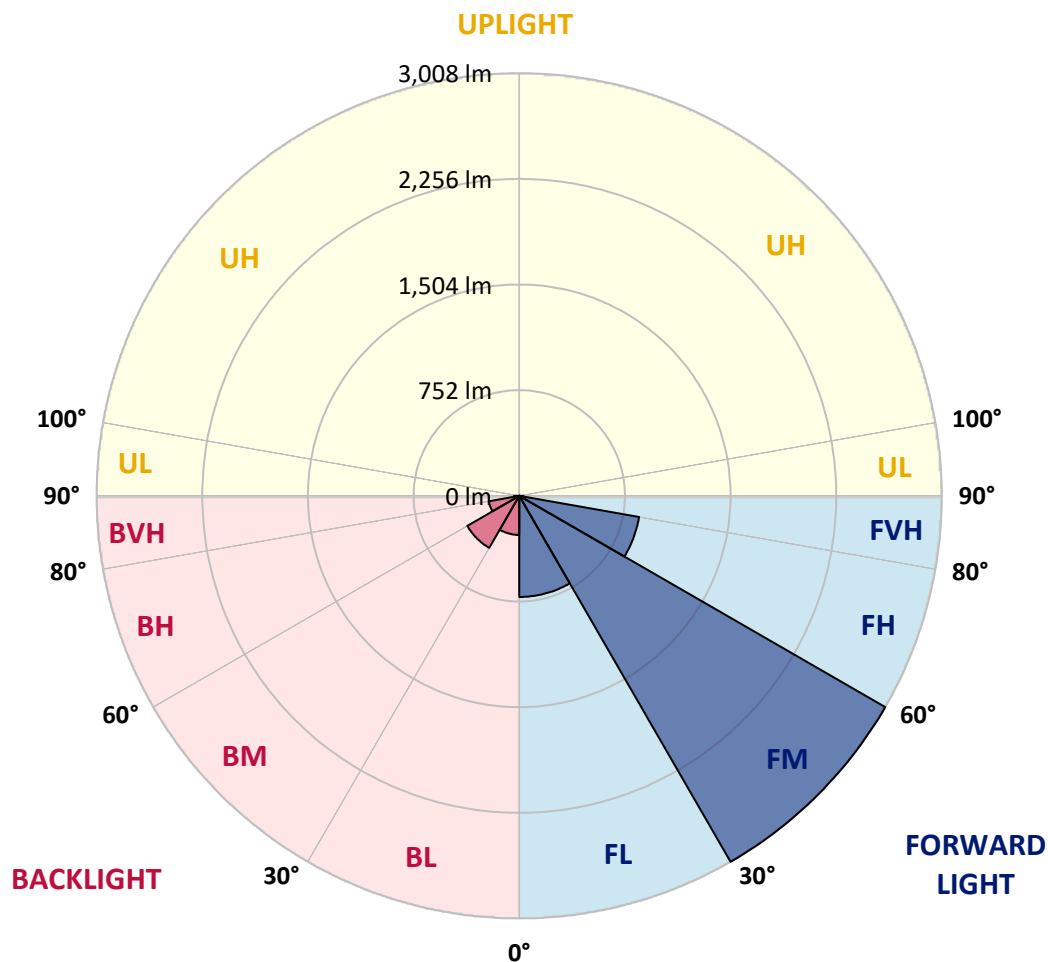
CATALOG NUMBER: GAN-SA1C-827-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	719.4	12.9			
FM	(30°-60°)	3007.7	53.9			
FH	(60°-80°)	866.0	15.5			G1/1800
FVH	(80°-90°)	29.2	0.5			G1/100
BL	(0°-30°)	278.4	5.0	B1/500		
BM	(30°-60°)	427.3	7.7	B1/1000		
BH	(60°-80°)	220.0	3.9	B1/500		G1/500
BVH	(80°-90°)	37.1	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





REPORT NUMBER: P321085

CATALOG NUMBER: GAN-SA1C-827-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8
2.5°	1422.4	1435.5	1429.7	1409.8	1394.4	1372.7	1348.5	1341.3	1315.7	1287.1	1252.8
5°	1647.6	1641.1	1631.7	1600.6	1567.7	1529.5	1468.9	1459.3	1402.5	1337.8	1269.5
7.5°	1775.8	1775.2	1769.7	1751.4	1721.5	1671.6	1598.4	1587.1	1501.3	1397.3	1291.3
10°	1757.2	1755.8	1765.0	1784.0	1793.1	1782.7	1721.1	1709.8	1604.4	1463.1	1316.7
12.5°	1651.4	1652.2	1667.0	1706.9	1761.2	1826.5	1816.5	1810.9	1711.3	1537.6	1347.4
15°	1569.1	1570.8	1582.5	1617.3	1681.4	1799.8	1874.5	1876.4	1814.8	1619.8	1383.3
17.5°	1533.0	1536.6	1542.0	1566.4	1625.1	1746.6	1888.3	1898.6	1905.4	1705.0	1417.8
20°	1544.5	1548.0	1549.5	1565.1	1613.2	1714.4	1878.7	1897.3	1974.8	1785.2	1452.4
22.5°	1596.1	1598.3	1599.2	1603.2	1640.7	1723.6	1872.3	1891.9	2025.1	1857.2	1478.5
25°	1681.7	1680.2	1674.1	1668.9	1694.0	1760.1	1886.9	1905.5	2066.0	1922.4	1495.6
27.5°	1784.2	1782.3	1770.4	1756.2	1770.6	1816.9	1929.0	1943.7	2102.7	1983.5	1504.2
30°	1907.3	1902.3	1879.8	1862.9	1868.5	1902.1	1998.3	2011.7	2159.3	2052.8	1512.7
32.5°	2049.5	2044.1	2011.7	1983.7	1983.7	2011.7	2069.7	2080.8	2207.3	2131.1	1526.3
35°	2227.6	2220.9	2178.7	2131.6	2118.4	2132.6	2167.0	2174.8	2293.6	2229.7	1551.0
37.5°	2437.6	2428.6	2373.9	2310.9	2281.9	2281.2	2305.9	2322.0	2431.6	2359.3	1593.1
40°	2648.1	2641.8	2594.0	2544.5	2487.7	2469.5	2507.7	2512.6	2612.1	2520.1	1646.8
42.5°	2810.9	2809.8	2800.9	2807.5	2749.3	2712.4	2742.4	2746.4	2832.4	2694.2	1704.0
45°	2896.9	2898.8	2941.6	3036.4	3057.9	3031.1	3045.8	3047.0	3084.2	2869.8	1756.4
47.5°	2828.0	2838.0	2946.2	3158.3	3334.3	3423.6	3399.0	3413.2	3328.4	3020.7	1797.5
50°	2559.5	2571.8	2756.0	3104.0	3463.3	3803.4	3790.6	3787.3	3525.3	3131.3	1819.7
52.5°	2226.8	2236.4	2388.5	2821.7	3368.7	4013.4	4131.4	4114.5	3700.3	3214.0	1824.0
55°	1720.3	1735.3	1881.0	2258.1	2986.0	3933.2	4382.1	4366.9	3859.8	3257.4	1819.0
57°	1223.0	1238.8	1383.5	1723.4	2511.9	3655.4	4407.1	4423.2	3946.0	3264.6	1824.5
57.5°	1091.4	1107.5	1250.9	1581.0	2364.1	3555.0	4385.6	4412.4	3961.6	3263.5	1827.6
60°	549.5	555.7	647.0	882.5	1494.4	2874.1	4105.1	4174.4	3975.6	3207.1	1840.9
62.5°	341.6	337.2	334.4	406.5	727.1	1905.9	3526.4	3659.8	3707.4	3070.4	1808.8
65°	300.4	292.1	260.5	254.7	321.1	925.7	2655.6	2821.7	3134.5	2855.1	1732.4
67.5°	282.1	274.1	238.4	216.9	217.1	367.0	1648.7	1835.7	2441.8	2491.0	1552.2
70°	263.3	256.0	222.6	197.3	184.8	203.3	758.5	900.4	1591.7	1957.9	1297.3
72.5°	239.2	234.2	202.5	176.4	163.1	152.2	290.4	343.0	921.5	1315.0	900.9
75°	213.8	209.2	182.1	157.2	141.1	119.8	163.5	176.2	468.1	672.7	443.6
77.5°	186.0	183.3	162.0	139.0	126.1	99.2	115.7	121.9	200.8	288.5	222.5
80°	148.0	153.2	141.6	123.8	111.9	79.5	82.0	86.0	116.9	140.9	126.3
82.5°	96.4	105.4	110.9	100.6	92.1	62.6	58.9	60.7	76.2	86.0	54.9
85°	40.1	45.1	72.9	65.8	61.2	45.7	39.5	40.3	47.2	48.9	22.5
87.5°	17.9	19.0	32.1	30.1	25.9	15.7	16.9	18.4	25.1	23.8	8.6
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: P321085

CATALOG NUMBER: GAN-SA1C-827-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8	1238.8
2.5°	1239.9	1223.8	1196.1	1165.6	1140.7	1120.7	1100.6	1086.7	1070.6	1062.0	1057.6
5°	1240.9	1209.2	1151.0	1091.4	1038.0	989.2	942.8	907.1	873.7	855.7	850.7
7.5°	1244.9	1197.3	1103.3	1005.0	910.2	823.6	756.8	715.0	684.8	671.4	667.6
10°	1248.2	1183.3	1044.1	898.6	769.7	682.0	630.1	606.7	596.3	594.6	592.9
12.5°	1255.8	1168.9	981.9	787.7	660.5	599.8	581.8	580.2	583.1	587.3	587.3
15°	1267.9	1154.7	910.9	692.5	591.0	569.7	573.3	581.8	589.6	596.2	597.1
17.5°	1276.8	1137.2	834.5	616.3	553.9	559.7	572.7	584.6	592.7	599.0	599.6
20°	1283.1	1110.2	753.0	558.2	532.6	550.5	566.8	577.3	582.9	589.2	590.2
22.5°	1279.8	1073.9	680.6	516.5	515.3	537.0	552.6	565.3	561.0	554.9	558.9
25°	1264.1	1024.0	606.1	485.4	497.1	519.0	538.2	529.7	515.5	512.9	514.4
27.5°	1236.1	960.3	537.2	456.6	476.0	502.3	501.1	492.7	487.7	484.3	486.4
30°	1205.9	891.2	477.0	431.5	452.6	474.3	469.9	469.7	464.7	459.1	461.8
32.5°	1176.2	821.7	429.2	410.7	434.9	437.8	447.4	450.3	440.5	428.8	428.0
35°	1150.3	756.0	392.9	391.9	413.6	414.0	428.0	424.0	399.6	387.5	387.5
37.5°	1130.9	690.6	365.3	375.0	385.6	395.6	402.7	386.0	382.0	375.2	375.0
40°	1122.4	633.0	348.0	362.2	365.8	378.5	360.3	366.8	368.7	365.3	365.3
42.5°	1113.6	582.9	333.0	352.4	351.8	350.1	340.9	349.3	357.0	357.2	356.6
45°	1104.8	539.7	319.8	331.5	339.5	320.9	322.6	331.7	342.4	346.3	346.3
47.5°	1095.0	505.6	307.7	309.4	321.9	309.4	308.1	315.0	327.6	333.8	335.1
50°	1073.5	474.9	293.9	290.0	293.5	297.7	298.8	302.1	316.1	325.9	328.2
52.5°	1043.8	447.4	276.2	272.2	272.2	288.1	293.5	294.4	306.3	318.0	320.3
55°	1019.0	429.9	258.0	257.2	256.4	277.9	287.1	288.7	296.9	306.1	307.3
57°	1020.7	428.6	244.0	244.7	244.5	267.6	281.2	284.4	288.7	296.5	297.9
57.5°	1021.7	429.6	240.9	241.3	241.1	264.7	279.5	283.1	286.4	294.6	296.0
60°	1036.1	432.0	228.4	224.2	225.1	249.3	269.7	274.3	276.4	287.3	289.1
62.5°	1014.8	420.9	218.4	208.3	208.3	233.2	256.0	263.3	266.6	281.4	284.3
65°	953.0	389.6	206.7	190.2	192.1	217.1	239.7	251.6	256.6	275.0	278.1
67.5°	857.6	353.4	194.2	174.1	176.0	200.2	222.8	235.7	243.6	268.1	270.6
70°	733.4	309.0	177.3	157.0	159.3	181.8	202.9	217.5	229.2	261.6	262.4
72.5°	540.7	253.4	153.7	138.2	140.7	160.3	182.7	199.6	215.4	245.3	244.9
75°	321.5	198.1	127.6	119.2	120.9	139.2	164.5	185.0	208.6	239.0	242.6
77.5°	195.0	149.1	104.0	99.8	101.9	120.5	151.4	173.3	205.8	225.3	224.2
80°	117.8	106.5	83.1	80.4	82.5	103.1	140.1	164.5	179.8	192.5	192.5
82.5°	61.6	65.1	61.0	58.9	61.8	83.7	127.4	143.6	158.9	136.5	127.4
85°	25.1	34.0	37.0	36.9	38.6	58.0	110.0	122.8	102.5	97.3	99.6
87.5°	8.4	14.4	18.0	15.5	16.3	36.5	76.2	59.3	70.4	49.1	46.6
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)