

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: P318205

Luminaire Tested: **GAN-SA1C-827-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318205
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5342 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

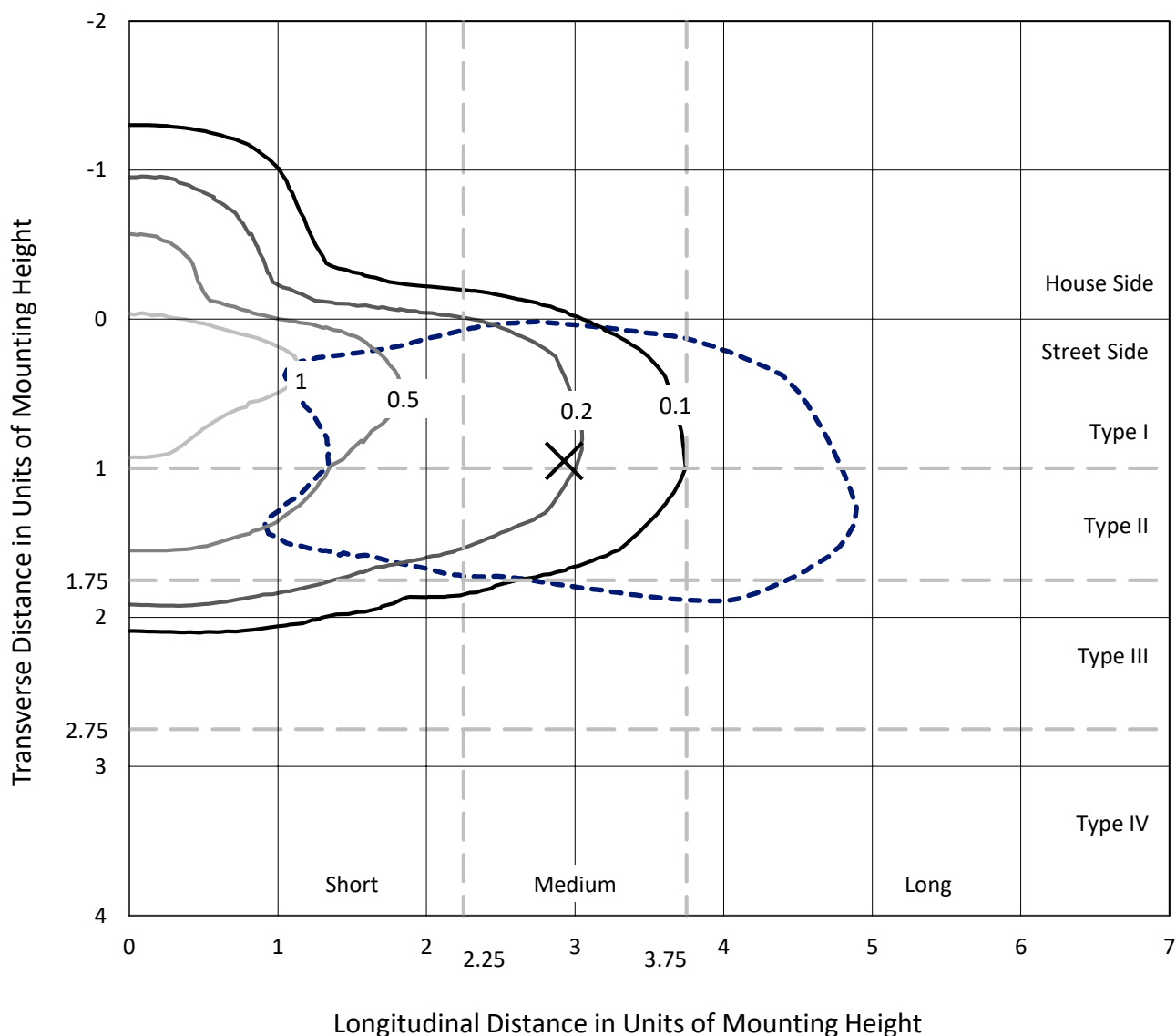
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318205
 CATALOG NUMBER: GAN-SA1C-827-U-T2

Iso-Footcandle Lines of Horizontal Illumination

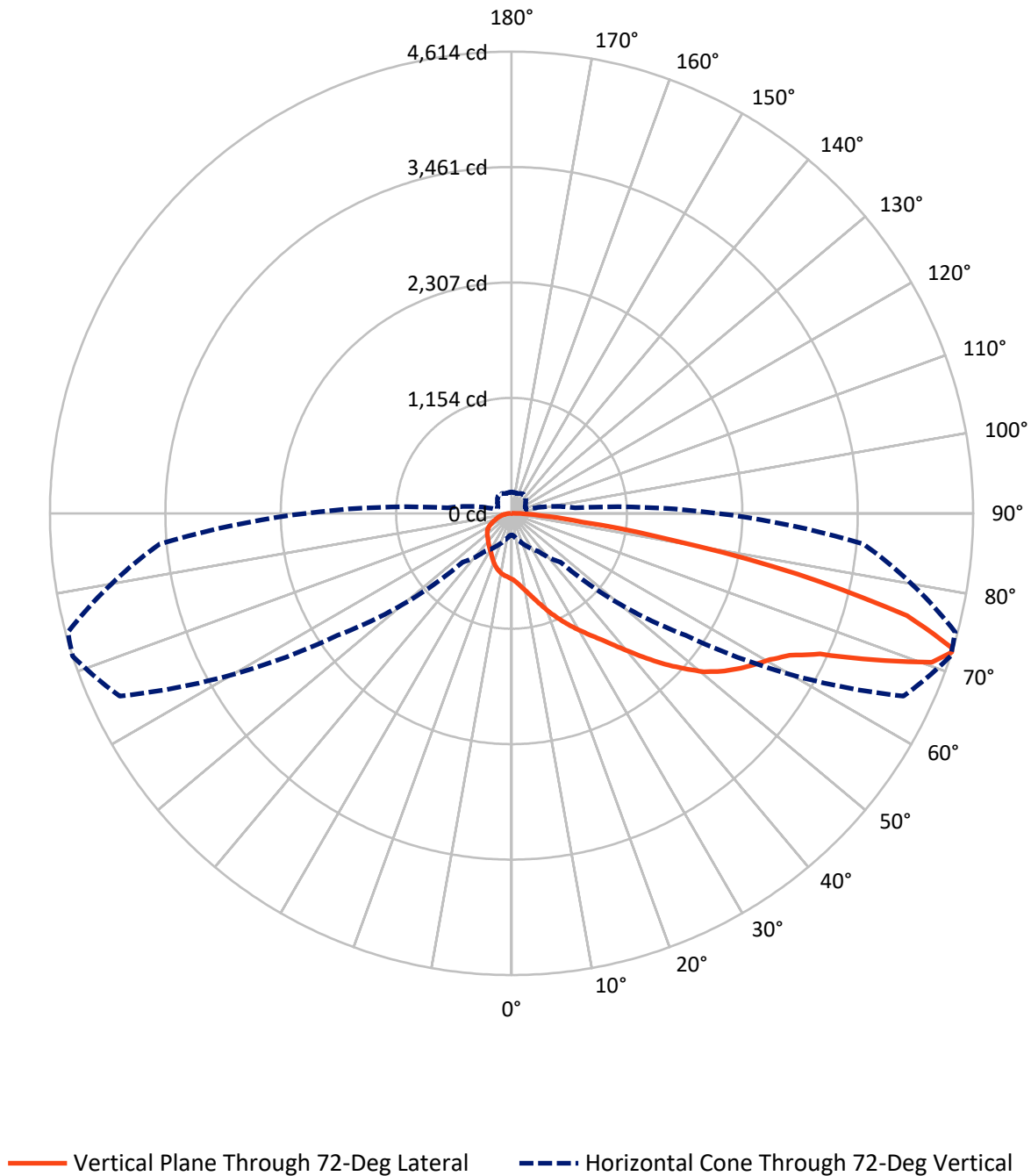
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P318205
CATALOG NUMBER: GAN-SA1C-827-U-T2

Luminous Intensity Polar Plot



REPORT NUMBER: P318205

CATALOG NUMBER: GAN-SA1C-827-U-T2

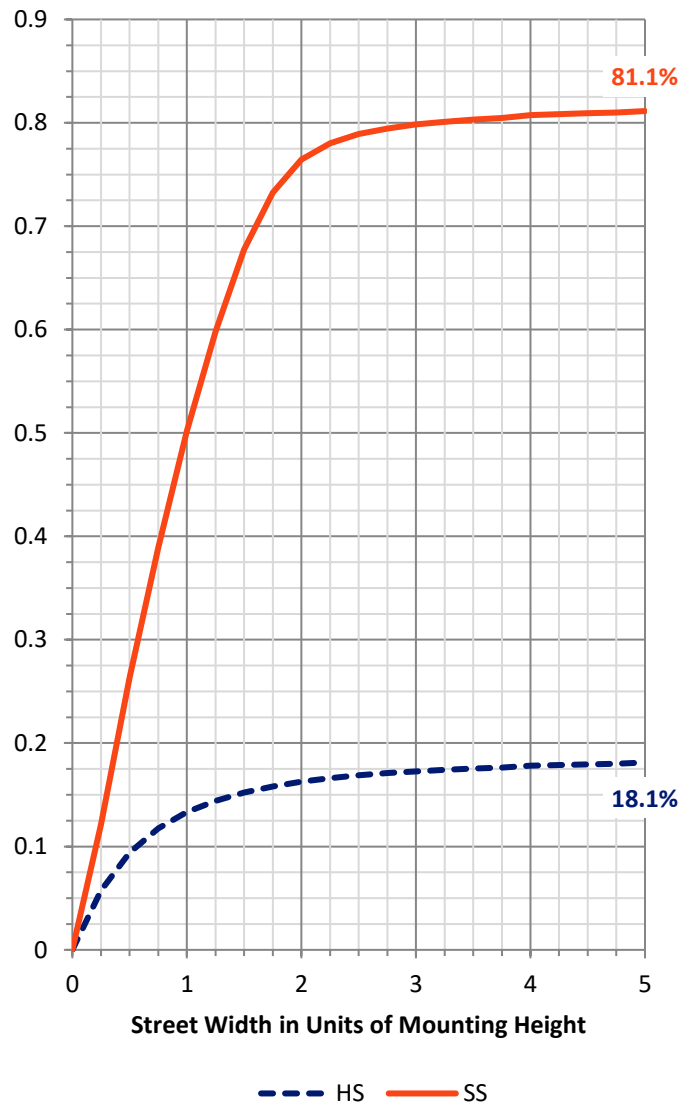
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	991.0	0.0	991.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	4351.0	0.0	4351.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	5342.0	0.0	5342.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.9	1.2
10°-20°	212.8	4.0
20°-30°	372.9	7.0
30°-40°	552.9	10.4
40°-50°	808.7	15.1
50°-60°	1112.7	20.8
60°-70°	1238.8	23.2
70°-80°	839.4	15.7
80°-90°	138.0	2.6
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°	5342.0	100.0
0°-180°	5342.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318205

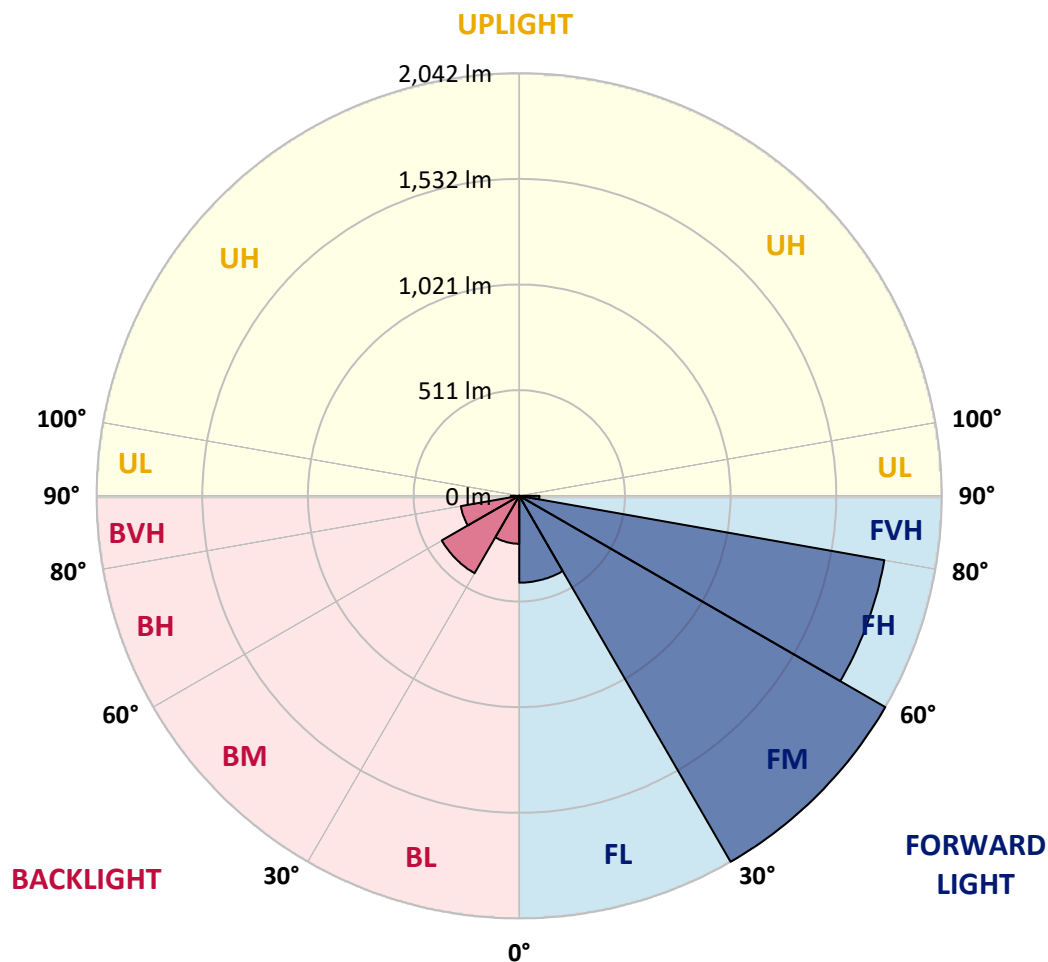
CATALOG NUMBER: GAN-SA1C-827-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	419.9	7.9			
FM	(30°-60°)	2042.3	38.2			
FH	(60°-80°)	1791.5	33.5			G1/1800
FVH	(80°-90°)	97.3	1.8			G1/100
BL	(0°-30°)	231.7	4.3	B1/500		
BM	(30°-60°)	432.0	8.1	B1/1000		
BH	(60°-80°)	286.7	5.4	B1/500		G1/500
BVH	(80°-90°)	40.6	0.8			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 III Medium





REPORT NUMBER: P318205

CATALOG NUMBER: GAN-SA1C-827-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2
2.5°	726.0	724.9	721.0	721.0	713.7	707.4	695.6	687.7	678.4	675.0	664.0
5°	796.3	796.6	791.8	788.5	777.7	764.4	744.4	726.2	708.0	700.6	678.0
7.5°	855.3	854.6	853.3	850.5	840.4	826.8	799.8	772.7	745.9	734.8	695.8
10°	893.2	894.9	896.0	897.2	893.0	883.3	857.7	824.8	789.6	774.6	717.2
12.5°	912.3	915.3	920.4	929.2	936.2	935.1	916.6	881.6	839.9	820.9	743.8
15°	923.5	927.4	935.5	951.3	971.0	982.2	977.3	945.6	899.1	875.7	776.4
17.5°	930.5	933.7	946.2	967.3	996.6	1026.4	1039.4	1012.9	966.0	939.4	813.7
20°	935.3	937.7	953.3	978.2	1016.1	1063.5	1099.9	1093.3	1039.8	1005.2	852.7
22.5°	946.0	948.0	962.9	987.9	1029.9	1091.1	1158.2	1168.2	1117.6	1078.4	894.5
25°	975.8	975.8	988.3	1005.8	1045.1	1115.0	1207.5	1251.5	1197.1	1151.4	933.1
27.5°	1032.6	1032.1	1036.7	1042.7	1072.5	1139.3	1251.5	1325.1	1279.5	1229.6	970.6
30°	1099.9	1103.6	1104.2	1101.2	1115.2	1169.7	1292.2	1402.7	1362.4	1308.7	1009.1
32.5°	1186.6	1189.0	1186.2	1176.5	1174.4	1212.7	1332.1	1484.0	1452.2	1391.3	1044.2
35°	1296.6	1292.0	1283.3	1263.5	1244.5	1270.3	1377.7	1565.3	1553.0	1491.2	1092.6
37.5°	1414.5	1414.7	1404.0	1358.9	1332.8	1343.8	1440.6	1657.5	1674.9	1610.0	1154.6
40°	1509.0	1514.0	1520.6	1461.4	1427.5	1442.8	1520.6	1764.3	1819.1	1750.9	1235.3
42.5°	1575.0	1580.8	1599.5	1562.4	1527.2	1555.6	1614.8	1878.4	1981.0	1913.5	1329.9
45°	1644.9	1648.1	1661.3	1645.3	1622.9	1686.7	1720.9	1996.4	2152.2	2086.8	1435.6
47.5°	1718.5	1721.8	1735.4	1724.8	1713.0	1809.2	1831.6	2107.7	2316.3	2277.1	1548.6
50°	1809.4	1811.6	1824.5	1805.2	1808.8	1901.5	1930.6	2209.8	2488.3	2448.2	1661.9
52.5°	1933.4	1933.9	1951.8	1934.3	1917.0	1969.2	2015.8	2306.0	2623.1	2604.2	1775.2
55°	2030.5	2036.4	2094.9	2091.2	2081.2	2030.7	2086.9	2397.6	2743.4	2752.4	1895.5
57.5°	1968.5	1991.5	2109.9	2193.4	2274.7	2183.5	2183.1	2500.8	2855.2	2897.9	2027.7
60°	1724.0	1755.3	1929.9	2115.1	2369.5	2449.5	2382.9	2626.8	2968.2	3042.1	2193.4
62.5°	1231.3	1282.8	1519.3	1815.1	2239.6	2625.7	2789.4	2826.7	3121.8	3209.1	2408.8
65°	622.4	661.4	859.7	1216.0	1789.3	2510.6	3231.2	3264.5	3388.7	3466.3	2740.5
67.5°	378.2	392.9	489.6	676.3	1097.0	1955.6	3375.4	3994.2	3905.2	3946.4	3213.4
70°	278.7	289.5	349.8	449.2	630.9	1147.6	2932.9	4514.9	4456.4	4451.8	3562.9
72°	217.0	225.0	278.3	362.9	461.3	688.5	2125.8	4322.7	4614.2	4591.1	3530.8
72.5°	205.8	212.8	261.4	341.6	435.9	624.1	1911.3	4193.0	4602.8	4592.3	3489.5
75°	162.0	167.0	193.5	264.1	341.2	354.1	1047.3	3249.4	4083.2	4253.0	3138.5
77.5°	134.1	134.8	148.8	192.2	266.0	250.3	514.5	2254.5	2923.9	3110.6	2223.2
80°	109.3	110.2	116.8	134.8	201.2	185.2	244.3	1296.4	1637.0	1639.1	1057.3
82.5°	87.0	87.2	94.5	98.6	144.6	132.4	140.0	608.6	715.3	688.1	380.0
85°	61.3	60.0	92.3	80.9	94.5	85.0	77.3	241.0	295.8	282.9	119.0
87.5°	20.4	21.2	41.0	52.4	55.2	48.2	34.4	92.3	111.6	110.7	37.7
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: P318205

CATALOG NUMBER: GAN-SA1C-827-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2	657.2
2.5°	660.5	654.6	646.0	636.4	628.9	621.2	615.5	612.5	609.2	606.4	609.7
5°	667.5	656.5	638.1	620.1	606.8	595.0	586.6	582.2	578.1	575.4	575.7
7.5°	678.9	661.1	630.2	603.9	585.5	572.8	564.1	561.2	558.6	557.9	558.8
10°	691.0	664.7	619.7	584.7	563.8	553.3	549.4	551.4	553.3	554.9	556.8
12.5°	704.8	668.1	604.4	562.3	544.5	540.4	544.3	553.1	559.5	563.4	565.8
15°	722.9	671.0	586.8	539.9	527.9	532.5	545.6	560.8	572.0	579.2	580.3
17.5°	739.4	670.8	564.1	517.2	514.5	527.9	547.6	569.1	584.2	594.3	596.3
20°	756.5	665.9	537.8	495.2	500.9	522.9	548.5	574.4	592.6	604.4	607.2
22.5°	772.5	657.2	509.0	475.1	489.5	516.3	545.0	571.3	589.5	599.1	602.0
25°	783.4	642.1	479.7	458.2	479.3	508.2	533.6	554.8	568.4	573.1	573.9
27.5°	788.9	622.4	452.1	443.5	468.9	495.0	512.4	522.9	526.8	526.4	525.7
30°	789.6	596.5	428.4	431.5	456.7	475.5	483.8	481.7	476.8	468.3	469.0
32.5°	787.2	567.3	408.5	420.1	441.3	451.7	452.1	442.4	429.1	415.7	412.0
35°	788.0	538.6	391.0	407.2	422.5	427.1	422.9	408.5	390.5	373.2	369.5
37.5°	796.1	513.6	376.0	392.3	401.7	402.8	396.8	381.7	368.4	351.5	350.0
40°	815.4	495.7	361.6	375.6	380.9	381.5	372.8	362.2	363.3	354.3	354.1
42.5°	850.2	488.0	348.9	358.1	361.4	362.5	355.9	349.1	358.7	352.8	350.8
45°	895.0	489.8	338.3	341.0	347.1	352.2	348.2	339.9	343.6	318.0	309.6
47.5°	946.9	501.6	329.8	326.3	336.8	346.5	340.3	327.8	314.7	289.3	284.5
50°	1007.6	519.8	322.1	311.8	325.6	338.8	332.6	314.7	295.0	282.7	281.1
52.5°	1070.9	542.1	314.3	295.8	311.4	332.9	329.8	311.8	287.5	275.4	273.1
55°	1142.6	564.5	304.6	277.2	296.1	330.2	328.5	301.1	281.8	275.0	273.3
57.5°	1231.8	590.1	291.7	257.9	281.8	320.2	315.1	294.7	275.9	270.8	270.2
60°	1348.1	627.8	273.1	237.3	264.3	305.0	303.9	285.3	266.5	262.8	262.1
62.5°	1522.4	690.1	247.6	216.7	244.8	279.0	289.1	272.6	256.6	256.4	256.8
65°	1792.8	783.9	219.8	198.7	225.1	257.1	272.0	259.5	246.5	250.2	250.7
67.5°	2106.3	861.7	192.6	181.0	205.1	236.4	256.6	246.5	233.0	242.6	242.8
70°	2210.5	792.2	168.7	163.5	184.3	216.3	239.9	232.1	218.5	228.1	227.2
72°	2057.1	639.5	153.2	150.3	168.7	199.8	225.0	218.7	205.3	211.7	209.3
72.5°	2008.8	609.7	149.4	147.0	164.4	195.5	221.1	215.4	202.0	207.5	205.3
75°	1791.9	529.6	128.4	128.9	143.5	174.9	199.4	197.5	183.8	184.3	183.6
77.5°	1299.7	388.3	108.2	111.8	122.1	153.8	177.5	176.4	161.3	158.6	158.0
80°	603.1	198.1	88.1	89.8	100.4	128.6	151.4	149.9	137.8	134.3	132.3
82.5°	206.6	94.2	66.2	67.3	77.8	103.6	131.3	130.4	120.3	113.5	109.3
85°	73.8	46.9	46.4	45.2	55.5	81.5	114.4	109.4	94.5	80.6	80.2
87.5°	23.9	20.0	23.9	23.7	32.4	55.2	83.1	70.8	68.6	57.0	55.9
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)