

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: P319845

Luminaire Tested: **GAN-SA1C-830-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319845
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5885 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

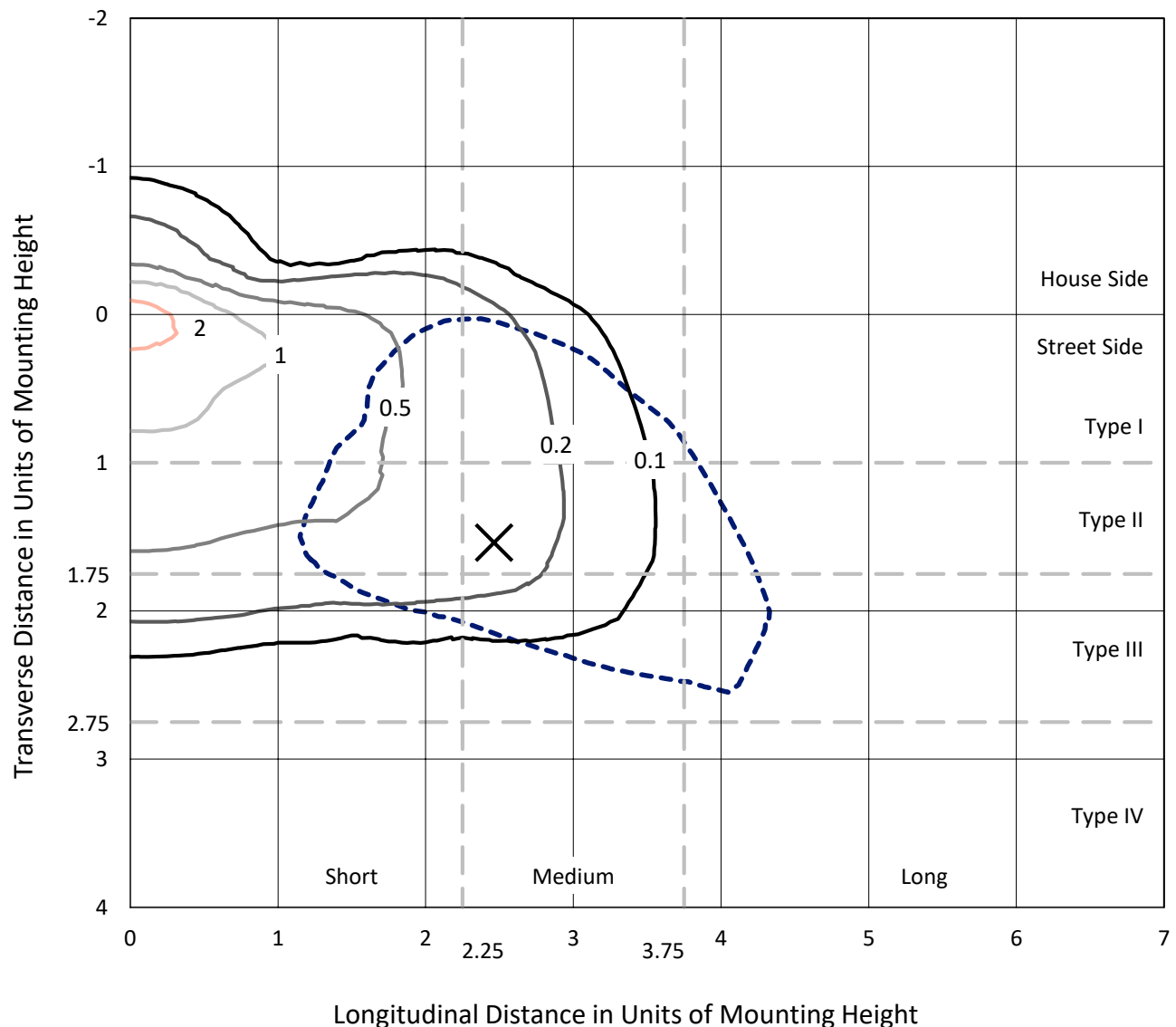
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319845
 CATALOG NUMBER: GAN-SA1C-830-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

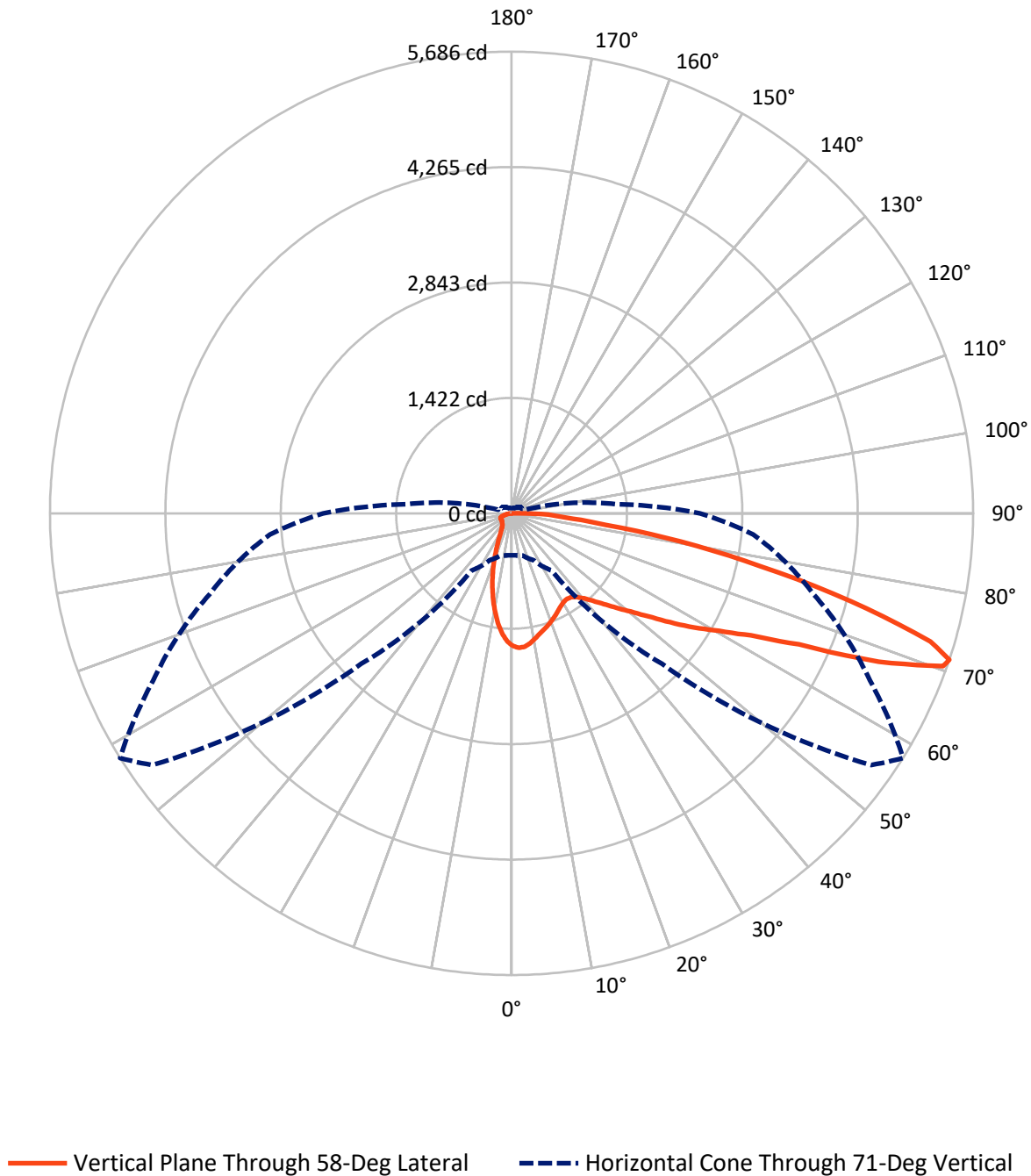
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Medium - N/A

REPORT NUMBER: P319845
CATALOG NUMBER: GAN-SA1C-830-U-SL3

Luminous Intensity Polar Plot



REPORT NUMBER: P319845

CATALOG NUMBER: GAN-SA1C-830-U-SL3

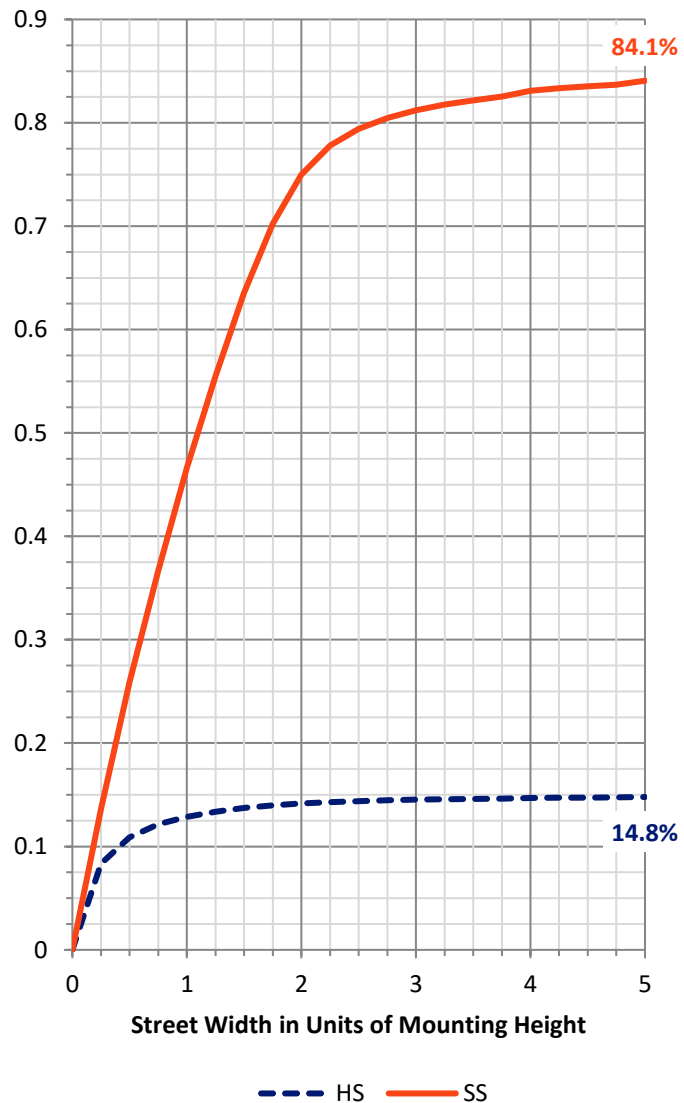
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	879.8	0.0	879.8
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	5005.2	0.0	5005.2
	% Fixture	85.0	0.0	85.0
Total	Lumens	5885.0	0.0	5885.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.7	2.4
10°-20°	312.8	5.3
20°-30°	397.5	6.8
30°-40°	506.4	8.6
40°-50°	718.1	12.2
50°-60°	1111.2	18.9
60°-70°	1512.8	25.7
70°-80°	1009.2	17.1
80°-90°	176.4	3.0
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°	5885.0	100.0
0°-180°	5885.0	100.0

Coefficient of Utilization



REPORT NUMBER: P319845

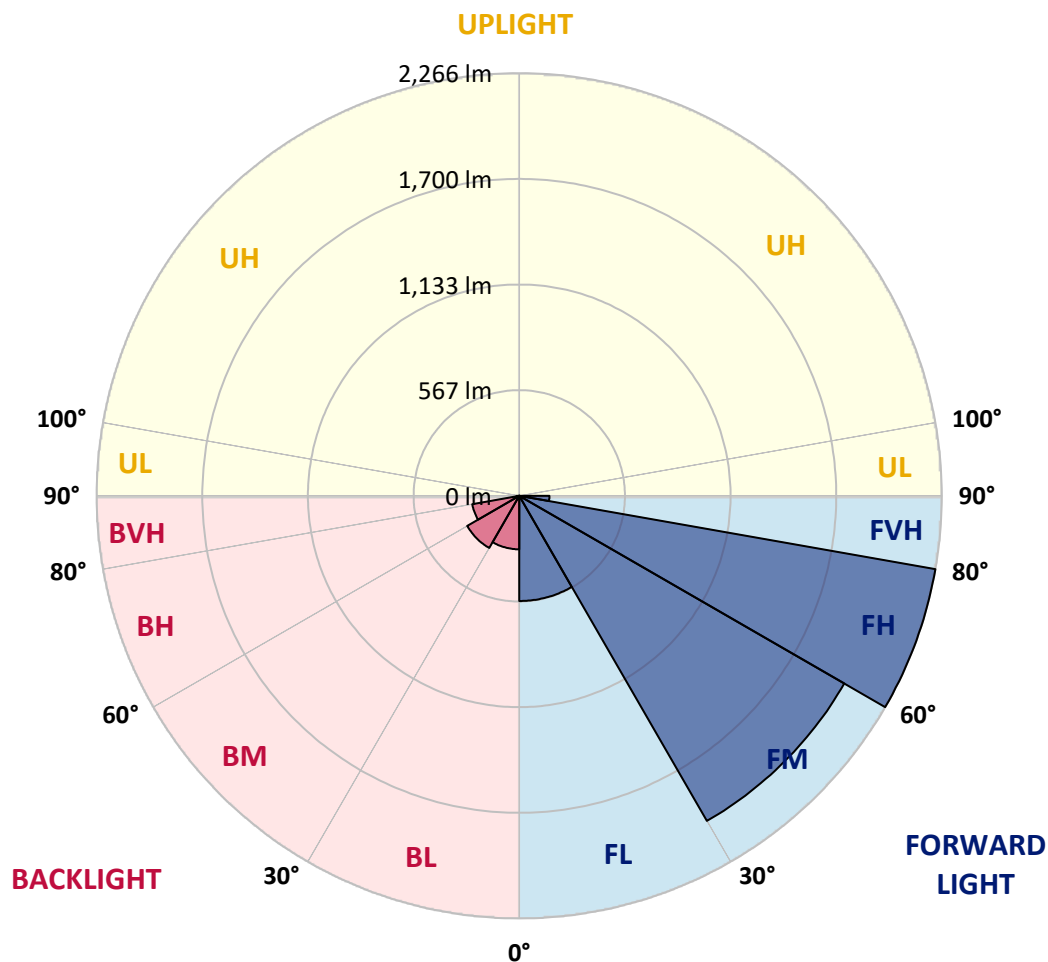
CATALOG NUMBER: GAN-SA1C-830-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	564.2	9.6			
FM	(30°-60°)	2013.0	34.2			
FH	(60°-80°)	2266.2	38.5			G2/5000
FVH	(80°-90°)	161.8	2.7			G2/225
BL	(0°-30°)	286.8	4.9	B1/500		
BM	(30°-60°)	322.7	5.5	B1/1000		
BH	(60°-80°)	255.7	4.3	B1/500		G1/500
BVH	(80°-90°)	14.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





REPORT NUMBER: P319845

CATALOG NUMBER: GAN-SA1C-830-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1630.5	1630.5	1630.5	1630.5	1630.5	1630.5	1630.5	1630.5	1630.5	1630.5	1630.5
2.5°	1673.8	1671.5	1672.4	1670.7	1666.8	1662.9	1657.2	1658.2	1650.2	1638.3	1623.6
5°	1642.2	1641.4	1647.6	1651.0	1653.9	1651.7	1650.0	1652.1	1640.4	1624.0	1598.4
7.5°	1576.0	1567.0	1574.8	1586.5	1597.5	1605.9	1617.0	1618.4	1611.1	1593.8	1560.2
10°	1481.9	1473.3	1484.8	1503.0	1525.2	1545.3	1567.6	1571.7	1573.1	1557.6	1516.8
12.5°	1384.3	1377.8	1389.3	1414.9	1451.6	1482.5	1518.2	1524.4	1537.1	1526.6	1476.6
15°	1297.0	1294.5	1308.5	1333.7	1375.9	1423.3	1474.7	1486.0	1507.5	1504.1	1445.2
17.5°	1221.6	1221.0	1231.6	1258.1	1304.8	1364.7	1431.5	1450.6	1482.5	1486.6	1419.4
20°	1165.4	1164.2	1171.6	1191.0	1239.2	1307.1	1384.7	1411.0	1457.1	1471.5	1392.7
22.5°	1135.3	1135.1	1135.3	1144.5	1183.9	1247.0	1339.2	1371.2	1432.3	1459.4	1363.2
25°	1130.1	1129.5	1125.0	1124.0	1146.3	1196.8	1294.1	1329.4	1408.7	1451.0	1335.1
27.5°	1143.5	1144.3	1138.3	1128.7	1133.2	1163.8	1255.0	1292.7	1389.9	1449.3	1315.7
30°	1171.1	1170.7	1165.6	1155.6	1146.7	1151.5	1227.1	1264.8	1377.2	1456.5	1302.3
32.5°	1201.7	1203.9	1202.9	1197.4	1184.3	1165.4	1218.7	1255.6	1373.5	1473.7	1296.6
35°	1238.4	1240.8	1248.2	1252.5	1237.2	1206.8	1236.7	1268.7	1384.1	1506.1	1305.8
37.5°	1273.2	1279.6	1300.3	1318.5	1305.4	1271.6	1284.7	1307.5	1417.1	1557.1	1330.6
40°	1313.4	1318.9	1352.8	1391.5	1389.5	1354.4	1362.0	1377.2	1475.4	1630.3	1375.5
42.5°	1353.0	1364.0	1413.0	1468.0	1483.8	1452.8	1464.9	1472.9	1557.4	1727.3	1453.8
45°	1405.7	1417.5	1485.6	1551.8	1588.7	1571.3	1590.6	1593.6	1660.5	1859.3	1567.6
47.5°	1485.4	1498.9	1578.3	1647.8	1704.1	1706.0	1737.8	1736.5	1789.2	2010.4	1710.9
50°	1609.6	1629.1	1694.1	1759.1	1827.5	1865.7	1908.1	1902.2	1943.6	2171.3	1875.9
52.5°	1772.4	1781.4	1829.6	1877.6	1962.6	2048.1	2109.0	2103.7	2118.6	2336.7	2063.3
55°	1941.1	1947.9	1967.8	1994.0	2108.4	2247.8	2376.5	2368.1	2330.2	2508.5	2248.4
57.5°	2092.8	2106.5	2120.3	2131.1	2255.2	2456.5	2650.2	2650.8	2559.8	2693.9	2439.7
60°	2116.4	2128.5	2219.3	2305.0	2506.3	2734.9	2943.1	2937.0	2797.4	2895.0	2652.9
62.5°	1870.8	1898.1	2049.8	2277.7	2748.2	3244.1	3316.8	3309.3	3081.5	3142.8	2901.1
65°	1340.7	1371.6	1554.7	1897.2	2630.9	3805.1	3991.3	3889.2	3468.9	3447.6	3191.8
67.5°	773.5	780.8	860.2	1135.3	2003.2	3834.5	5020.1	4877.3	4070.6	3793.5	3334.1
70°	571.9	571.7	590.6	698.6	1084.0	3129.5	5509.5	5637.6	4704.0	3907.2	3133.0
71°	517.2	517.8	538.9	635.9	858.5	2619.4	5405.5	5686.0	4870.9	3851.1	2987.4
72.5°	442.4	444.4	473.7	570.3	722.2	1806.4	4957.8	5395.7	4950.0	3712.5	2759.7
75°	335.6	340.3	380.9	480.7	660.1	916.1	3638.7	4308.6	4397.4	3275.8	2050.6
77.5°	239.4	244.8	290.7	404.3	627.5	690.4	2436.8	3142.8	3236.1	2099.4	924.9
80°	151.3	157.6	192.3	321.6	589.6	655.6	1531.3	2112.5	1764.6	671.8	235.3
82.5°	88.8	93.7	119.3	210.1	481.5	631.4	901.0	1170.9	686.7	202.9	107.0
85°	51.5	53.7	74.4	133.9	349.7	595.9	661.9	654.6	298.1	99.2	50.6
87.5°	24.0	26.6	44.1	69.9	194.1	431.9	523.1	452.0	185.3	46.5	23.8
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: P319845

CATALOG NUMBER: GAN-SA1C-830-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1630.5	1630.5	1630.5	1630.5	1630.5	1630.5	1630.5	1630.5	1630.5	1630.5	1630.5
2.5°	1616.4	1612.9	1598.4	1585.4	1571.9	1554.3	1534.8	1532.3	1520.5	1522.7	1518.6
5°	1584.4	1575.6	1540.5	1508.8	1471.3	1437.6	1401.1	1384.3	1360.1	1358.5	1352.4
7.5°	1538.7	1522.3	1468.0	1407.7	1347.4	1290.0	1233.3	1195.9	1157.8	1141.6	1140.2
10°	1487.2	1459.4	1379.4	1290.2	1203.3	1119.5	1038.3	978.2	924.1	898.5	897.5
12.5°	1438.5	1397.3	1287.6	1166.2	1047.3	938.7	827.4	748.4	680.6	657.8	648.2
15°	1397.0	1339.0	1198.2	1043.0	898.7	747.8	621.1	538.1	475.4	453.7	449.6
17.5°	1356.9	1282.3	1106.6	918.6	744.1	578.3	451.4	389.7	356.3	347.5	347.3
20°	1316.9	1223.8	1010.8	791.3	594.7	432.5	347.1	319.4	308.1	307.1	305.4
22.5°	1271.6	1161.9	910.2	663.6	464.1	340.1	295.0	283.9	282.5	286.2	286.2
25°	1229.2	1100.4	808.1	538.5	361.0	283.7	263.4	261.2	265.1	271.6	272.2
27.5°	1189.6	1041.2	708.5	427.4	289.2	249.9	241.5	244.2	251.1	258.7	258.9
30°	1157.0	985.2	611.7	336.8	244.4	224.7	223.2	228.6	236.2	242.1	243.5
32.5°	1131.8	937.4	518.2	270.8	215.0	205.8	207.0	211.6	216.3	219.6	221.8
35°	1120.1	896.4	431.9	228.4	196.4	191.3	192.9	195.4	197.4	199.9	201.7
37.5°	1122.1	864.7	354.8	201.9	183.9	181.2	181.2	181.2	181.2	182.4	182.7
40°	1141.2	846.4	292.1	185.1	175.5	172.6	170.4	168.3	166.7	167.5	167.1
42.5°	1190.0	844.8	246.2	174.5	168.7	164.0	159.5	156.6	154.6	155.4	155.8
45°	1272.8	865.3	215.2	166.9	162.4	155.2	149.4	146.4	144.9	147.6	148.0
47.5°	1380.0	910.0	196.4	161.3	156.4	147.0	140.8	138.0	138.4	142.3	143.3
50°	1518.2	982.5	187.4	157.8	152.3	140.0	133.7	131.2	132.4	138.0	139.2
52.5°	1669.9	1087.1	188.4	156.8	149.6	134.9	128.1	125.3	127.3	132.4	133.5
55°	1845.0	1212.8	205.4	158.3	145.8	131.6	123.6	118.7	120.3	125.0	125.9
57.5°	2039.5	1356.7	239.6	157.8	140.8	128.5	118.9	111.5	112.7	115.6	116.4
60°	2242.0	1530.5	292.7	159.1	138.6	124.8	112.5	103.3	102.9	105.4	105.8
62.5°	2485.2	1731.6	353.4	159.9	140.0	120.1	104.1	95.1	93.9	94.5	94.9
65°	2735.7	1877.1	330.7	156.6	144.5	116.2	96.8	87.1	84.9	84.5	84.7
67.5°	2743.5	1721.1	231.9	150.1	146.4	114.2	91.2	80.4	76.7	75.2	75.0
70°	2460.4	1398.3	180.6	143.1	139.0	110.9	86.1	74.8	69.3	67.0	66.8
71°	2322.2	1287.2	171.2	139.6	133.5	107.6	83.8	72.4	66.6	64.2	63.8
72.5°	2105.5	1153.9	159.7	134.1	122.8	99.2	79.5	68.9	62.9	60.1	59.4
75°	1511.0	754.6	137.1	119.5	101.7	79.1	69.7	61.9	56.8	53.3	52.9
77.5°	582.2	300.3	103.7	99.4	77.9	61.9	57.4	53.5	49.8	46.3	46.1
80°	180.0	134.3	75.6	74.8	56.4	46.1	44.7	43.7	42.2	38.5	37.7
82.5°	96.1	77.1	52.1	48.4	36.9	30.7	32.4	32.8	33.0	29.1	28.7
85°	45.9	40.8	29.3	27.5	21.5	17.2	19.9	21.5	21.7	17.8	16.6
87.5°	21.9	21.3	13.7	10.5	8.0	5.7	7.0	8.6	9.4	6.8	5.9
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)