

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: P319294

Luminaire Tested: **GAN-SA0C-727-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319294
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0C-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57355 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

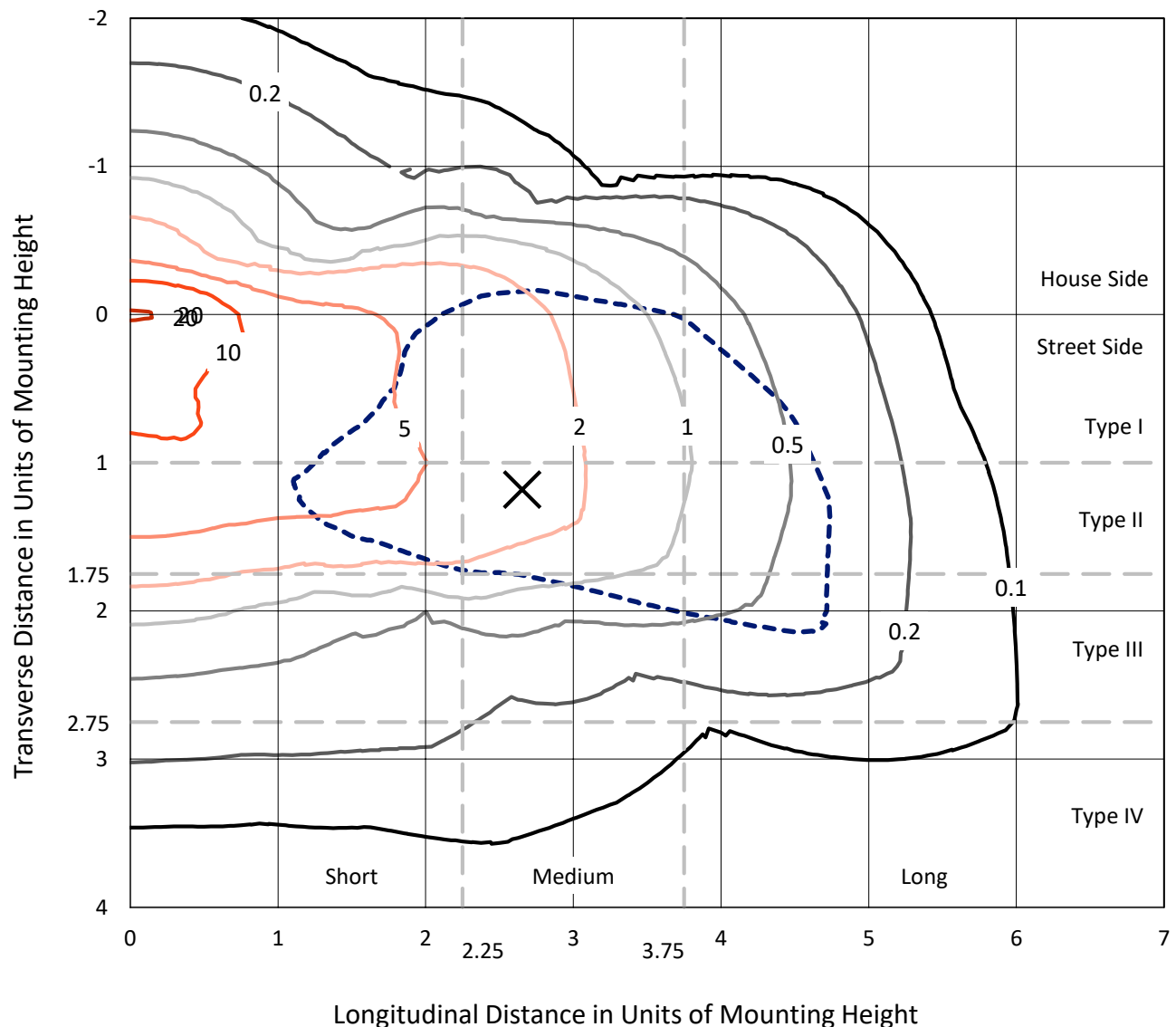
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319294
 CATALOG NUMBER: GAN-SA0C-727-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

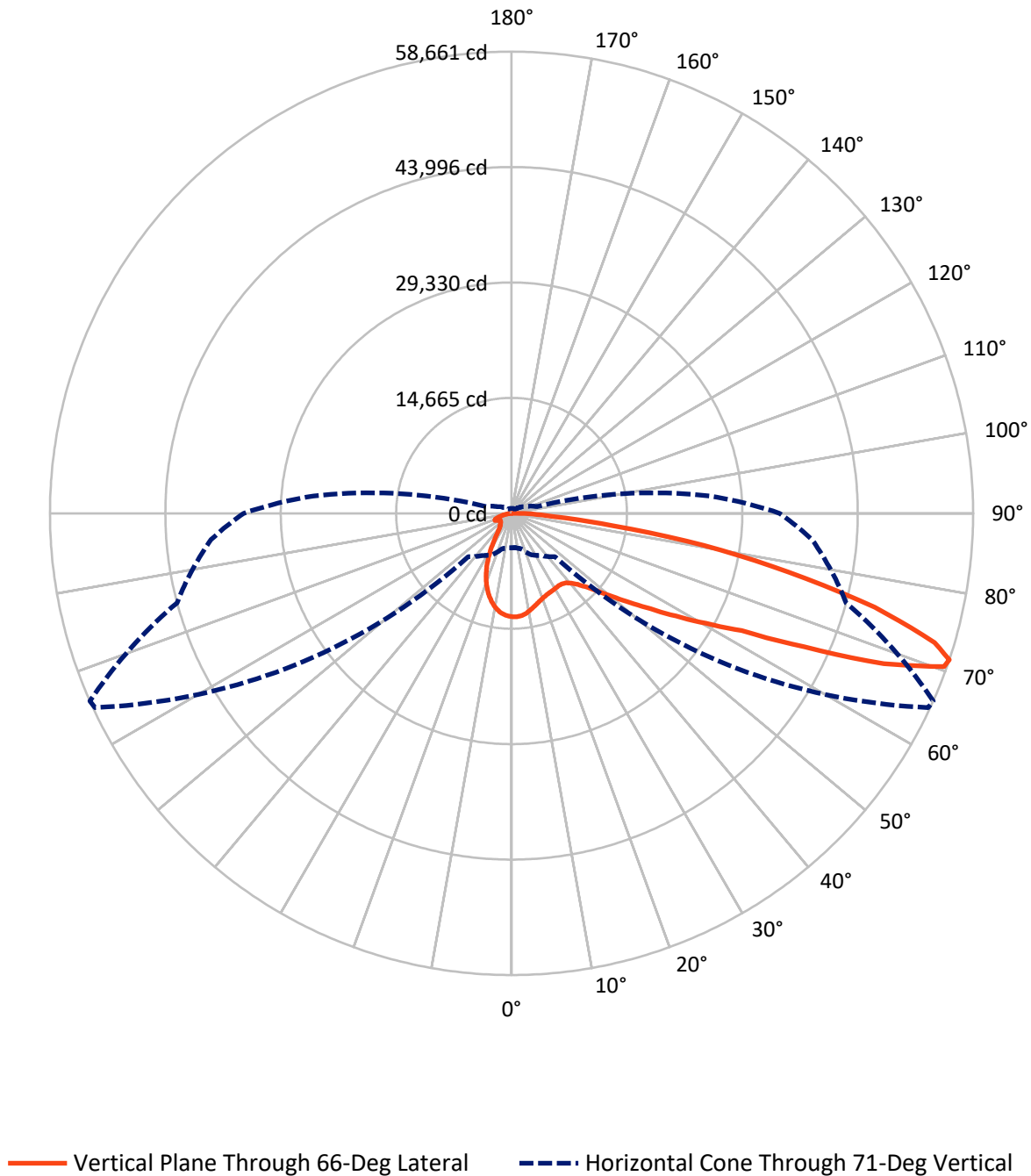
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21 fc
 Type III - Medium - N/A

REPORT NUMBER: P319294
CATALOG NUMBER: GAN-SA0C-727-U-SL2

Luminous Intensity Polar Plot



REPORT NUMBER: P319294

CATALOG NUMBER: GAN-SA0C-727-U-SL2

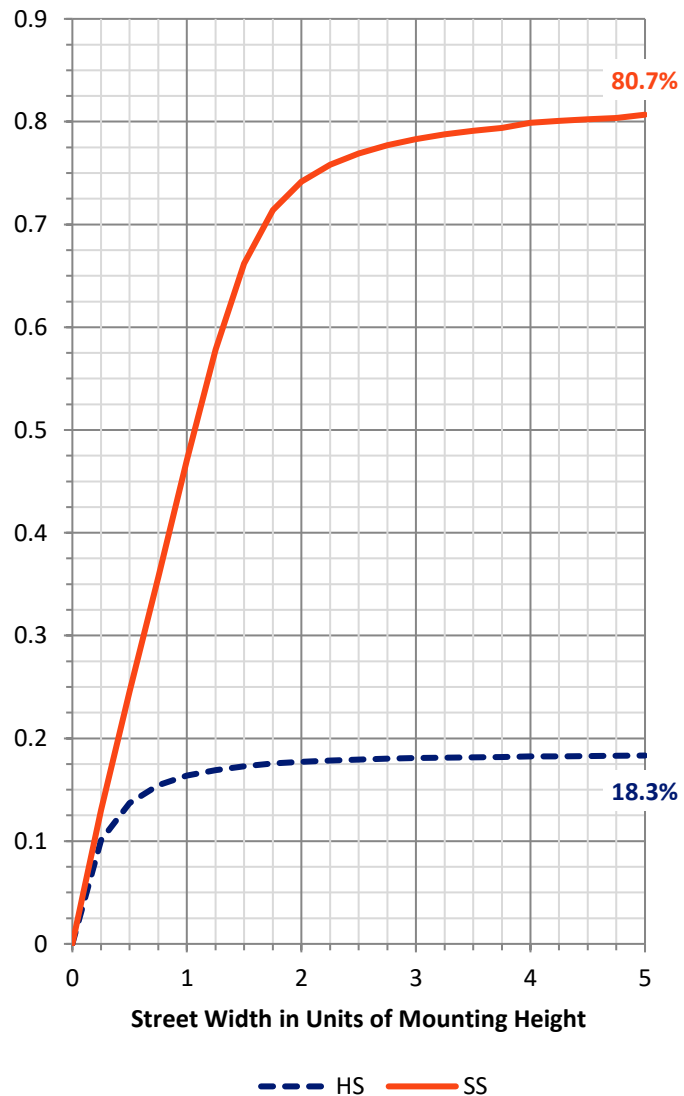
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10629.4	0.0	10629.4
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	46725.6	0.0	46725.6
	% Fixture	81.5	0.0	81.5
Total	Lumens	57355.0	0.0	57355.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1156.5	2.0
10°-20°	2773.9	4.8
20°-30°	3726.0	6.5
30°-40°	4901.5	8.5
40°-50°	7130.4	12.4
50°-60°	11138.5	19.4
60°-70°	13952.7	24.3
70°-80°	10642.8	18.6
80°-90°	1932.6	3.4
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°	57355.0	100.0
0°-180°	57355.0	100.0

Coefficient of Utilization



REPORT NUMBER: P319294

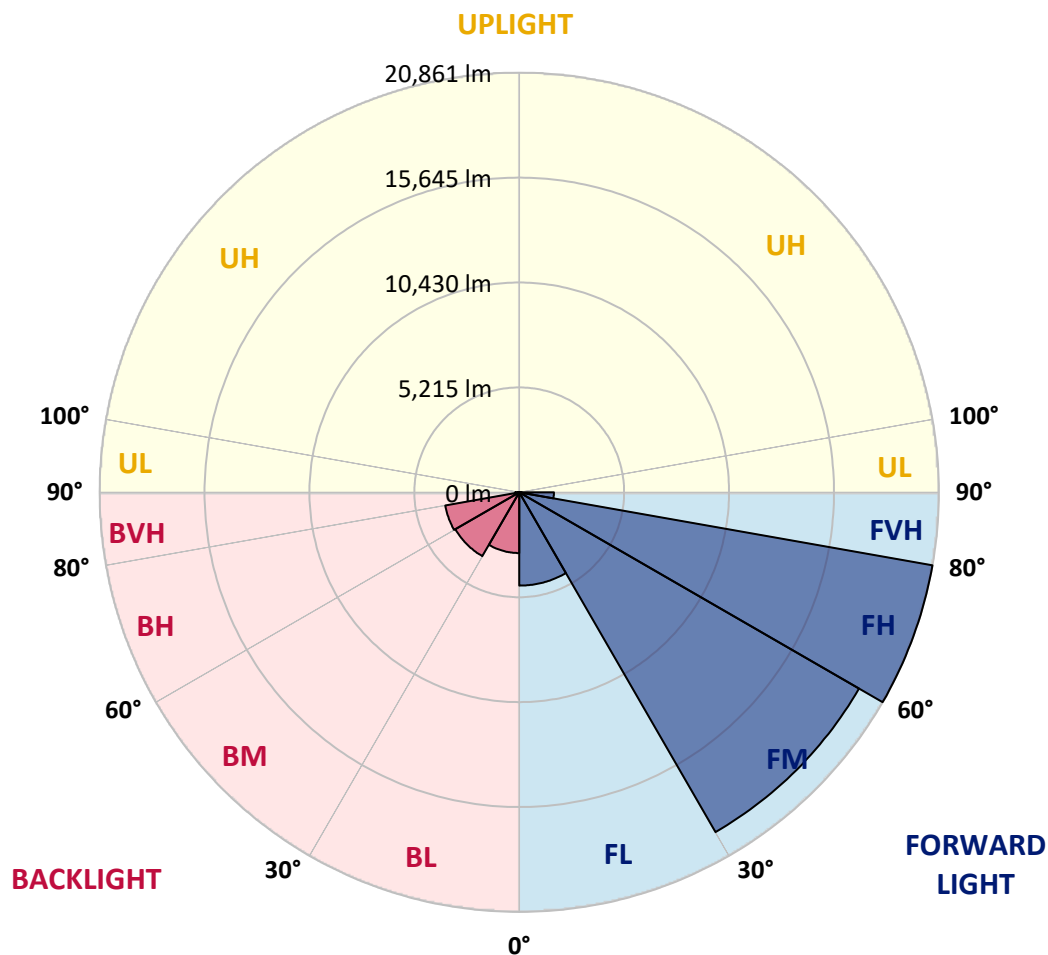
CATALOG NUMBER: GAN-SA0C-727-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4637.9	8.1			
FM	(30°-60°)	19503.6	34.0			
FH	(60°-80°)	20860.6	36.4			G5
FVH	(80°-90°)	1723.4	3.0			G5
BL	(0°-30°)	3018.5	5.3	B4/5000		
BM	(30°-60°)	3666.8	6.4	B3/5000		
BH	(60°-80°)	3734.9	6.5	B4/5000		G4/5000
BVH	(80°-90°)	209.2	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium



REPORT NUMBER: P319294

CATALOG NUMBER: GAN-SA0C-727-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	13138.9	13138.9	13138.9	13138.9	13138.9	13138.9	13138.9	13138.9	13138.9	13138.9	13138.9
2.5°	12895.4	12875.5	12935.0	12996.3	13020.1	13059.7	13119.1	13152.8	13150.8	13156.7	13136.9
5°	12039.9	12014.1	12133.0	12230.0	12416.1	12626.0	12881.5	13063.7	13067.6	13170.6	13198.3
7.5°	11230.0	11212.1	11348.8	11505.2	11721.1	12041.9	12455.7	12847.8	12871.6	13150.8	13247.8
10°	10580.4	10576.5	10709.2	10879.5	11131.0	11489.4	11964.6	12538.9	12574.6	13055.7	13255.8
12.5°	10073.5	10081.4	10196.3	10390.3	10655.7	11030.0	11544.8	12192.4	12249.8	12905.3	13210.2
15°	9699.2	9730.9	9824.0	10020.0	10281.4	10661.6	11190.4	11871.6	11958.7	12736.9	13184.5
17.5°	9485.4	9521.0	9586.4	9748.7	9994.3	10360.6	10861.6	11608.2	11687.4	12608.2	13186.4
20°	9422.0	9451.7	9489.3	9588.3	9796.3	10128.9	10602.2	11370.6	11455.7	12505.2	13206.2
22.5°	9546.8	9568.5	9572.5	9564.6	9691.3	9962.6	10414.1	11196.3	11287.4	12437.9	13220.1
25°	9814.1	9843.8	9822.0	9748.7	9707.2	9873.5	10317.1	11081.4	11172.5	12388.4	13192.4
27.5°	10216.1	10220.0	10202.2	10107.2	9911.1	9883.4	10287.4	11014.1	11101.2	12331.0	13135.0
30°	10762.6	10788.4	10756.7	10628.0	10307.2	10041.8	10323.0	10948.8	11028.0	12257.7	13041.9
32.5°	11402.2	11465.6	11463.6	11329.0	10869.6	10396.3	10469.6	10909.2	10970.6	12180.5	12929.0
35°	12065.6	12152.8	12315.1	12257.7	11689.4	10956.7	10750.7	10972.5	11014.1	12170.6	12849.8
37.5°	12754.8	12841.9	13176.5	13331.0	12665.6	11758.7	11194.3	11196.3	11216.1	12291.4	12843.9
40°	13475.6	13568.6	14071.6	14473.6	13931.0	12774.6	11909.2	11663.6	11641.9	12588.4	12960.7
42.5°	14485.5	14568.7	15172.6	15685.5	15335.0	14075.6	12897.3	12384.4	12338.9	13170.6	13335.0
45°	15762.7	15834.0	16475.6	17024.2	16844.0	15560.8	14138.9	13376.5	13368.6	14140.9	14093.4
47.5°	17281.6	17337.0	17913.3	18444.0	18509.3	17269.7	15699.4	14907.3	14778.6	15471.6	15267.7
50°	18863.8	18925.2	19317.3	19887.6	20372.8	19556.9	17707.3	16782.6	16610.3	17228.1	16931.1
52.5°	19911.4	19992.5	20333.1	21055.9	22467.9	22063.9	20081.7	19055.9	18794.5	19356.9	19129.2
55°	19444.0	19626.2	20147.0	21305.4	24143.1	25893.7	23010.4	21707.4	21412.4	21879.7	21745.1
57.5°	17319.2	17568.7	18279.6	20067.8	24378.8	29268.0	27438.3	24830.3	24622.4	24487.7	24549.1
60°	13436.0	13675.6	14556.8	16887.5	22737.2	31731.4	34101.8	28679.9	28378.9	27105.6	27161.0
62.5°	9509.1	9388.3	9992.3	11697.3	18475.7	32020.5	41684.1	33828.5	32838.4	29870.0	29626.4
65°	7251.7	7223.9	7495.2	8037.8	11190.4	28561.1	46201.1	42482.2	40935.6	33121.6	32547.3
67.5°	5958.6	5909.0	6176.4	6966.5	7206.1	18426.2	46300.1	52522.0	51003.2	37169.2	35925.6
70°	4899.1	4843.7	5093.2	6113.0	6659.6	9344.8	38967.2	58401.4	58320.2	42294.1	38476.1
71°	4392.2	4352.6	4651.6	5784.3	6542.7	7788.3	33644.3	58417.2	58660.8	44028.7	38325.6
72.5°	3576.3	3590.2	3907.0	5148.6	6455.6	6877.4	24727.3	55694.4	56209.2	45682.3	36957.3
75°	2376.3	2388.2	2804.0	3960.5	6259.6	6728.9	13590.4	46733.8	47680.3	44692.1	33723.6
77.5°	1596.1	1592.1	1875.3	2716.9	5453.6	6728.9	7968.5	34953.3	35992.9	35561.2	25998.6
80°	1099.0	1091.1	1291.1	1875.3	4128.8	6810.1	6160.5	24495.6	24810.5	19204.4	10566.6
82.5°	673.3	679.2	843.6	1324.8	2810.0	6128.9	5816.0	13356.7	13014.2	5386.3	2639.7
85°	386.1	384.2	538.6	897.1	1804.0	5172.4	5671.4	5748.6	5273.4	1621.8	954.5
87.5°	138.6	148.5	289.1	497.0	1033.7	3602.1	4812.0	2990.2	2695.1	732.7	431.7
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: P319294

CATALOG NUMBER: GAN-SA0C-727-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13138.9	13138.9	13138.9	13138.9	13138.9	13138.9	13138.9	13138.9	13138.9	13138.9	13138.9
2.5°	13123.1	13135.0	13121.1	13041.9	12974.6	12865.6	12804.3	12719.1	12693.4	12681.5	12713.2
5°	13172.6	13176.5	13059.7	12851.8	12618.1	12342.9	12144.8	11901.3	11786.4	11736.9	11768.6
7.5°	13218.1	13200.3	12944.9	12546.8	12115.1	11635.9	11210.2	10820.1	10592.3	10499.3	10507.2
10°	13224.1	13148.8	12738.9	12123.1	11453.7	10750.7	10097.3	9495.3	9115.1	8867.5	8942.8
12.5°	13162.7	13035.9	12435.9	11574.5	10645.8	9687.4	8804.2	7901.2	7358.6	7107.1	7115.0
15°	13115.2	12885.4	12063.6	10929.0	9681.4	8412.1	7206.1	6144.7	5566.5	5309.0	5188.2
17.5°	13075.6	12723.1	11632.0	10202.2	8542.8	6932.8	5483.3	4536.7	4219.9	4144.7	4113.0
20°	13020.1	12550.8	11150.8	9360.6	7245.7	5277.4	4004.1	3536.7	3538.7	3625.8	3637.7
22.5°	12942.9	12354.7	10637.9	8416.0	5853.6	3843.7	3138.7	3004.0	3140.7	3307.0	3336.7
25°	12828.0	12123.1	10067.6	7372.4	4463.5	2954.5	2681.3	2675.3	2841.7	3015.9	3041.7
27.5°	12665.6	11820.1	9433.9	6251.6	3289.2	2510.9	2402.0	2443.6	2566.4	2693.1	2703.0
30°	12447.8	11467.6	8734.9	5069.4	2578.3	2235.7	2223.8	2261.4	2336.7	2425.8	2433.7
32.5°	12208.2	11109.2	7988.3	3924.8	2208.0	2087.2	2099.1	2116.9	2152.5	2188.2	2196.1
35°	11990.4	10742.8	7223.9	2982.2	2031.7	1990.1	1982.2	1978.3	1982.2	1970.3	1972.3
37.5°	11849.8	10439.8	6427.9	2374.3	1930.7	1905.0	1881.2	1851.5	1817.9	1798.1	1802.0
40°	11798.3	10214.1	5621.9	2051.5	1847.6	1829.7	1784.2	1720.8	1681.2	1669.3	1669.3
42.5°	11936.9	10097.3	4843.7	1889.2	1778.3	1748.6	1673.3	1600.0	1570.3	1568.4	1566.4
45°	12360.7	10144.8	4103.1	1800.0	1714.9	1657.5	1558.5	1497.1	1477.3	1481.2	1479.2
47.5°	13121.1	10443.8	3469.4	1740.6	1651.5	1576.3	1465.4	1415.9	1392.1	1392.1	1394.1
50°	14414.2	11142.8	2964.4	1691.1	1598.1	1501.0	1398.1	1336.7	1305.0	1303.0	1303.0
52.5°	16297.4	12394.3	2649.6	1649.5	1538.6	1433.7	1330.7	1253.5	1215.9	1207.9	1204.0
55°	18657.9	14188.4	2562.4	1621.8	1459.4	1360.4	1249.5	1172.3	1130.7	1112.9	1110.9
57.5°	21297.5	16370.7	2734.7	1588.2	1378.2	1273.3	1160.4	1087.2	1043.6	1021.8	1019.8
60°	23968.9	18752.9	3437.7	1540.6	1310.9	1178.2	1069.3	1002.0	958.4	934.7	930.7
62.5°	26644.2	21263.9	4873.4	1536.7	1263.4	1087.2	976.3	918.8	877.2	851.5	845.6
65°	29662.1	24012.4	6505.1	1641.6	1247.6	1004.0	881.2	835.7	800.0	776.3	774.3
67.5°	33127.5	27115.5	6348.7	1857.5	1301.0	928.7	792.1	756.5	730.7	710.9	708.9
70°	34753.3	26630.3	3946.6	2009.9	1376.3	855.5	706.9	681.2	661.4	647.5	641.6
71°	34072.1	25285.7	3309.0	1992.1	1368.3	823.8	673.3	653.5	633.7	621.8	615.9
72.5°	32214.6	23059.9	2760.5	1853.5	1279.2	766.4	629.7	609.9	592.1	578.2	574.3
75°	28907.6	20594.5	2210.0	1481.2	1019.8	647.5	552.5	530.7	516.8	508.9	501.0
77.5°	21250.0	14697.4	1709.0	1170.3	750.5	528.7	471.3	455.5	441.6	429.7	423.8
80°	8140.8	5693.2	1150.5	873.3	550.5	417.8	380.2	372.3	358.4	350.5	350.5
82.5°	2192.1	1701.0	613.9	528.7	368.3	305.0	291.1	287.1	275.3	259.4	261.4
85°	887.1	750.5	344.6	291.1	225.7	180.2	196.0	198.0	184.2	164.4	166.3
87.5°	390.1	318.8	192.1	128.7	99.0	69.3	89.1	89.1	81.2	67.3	61.4
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)