

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: P319501

Luminaire Tested: **GAN-SA7D-827-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319501
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-SA7D-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1200mA 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: 39522 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

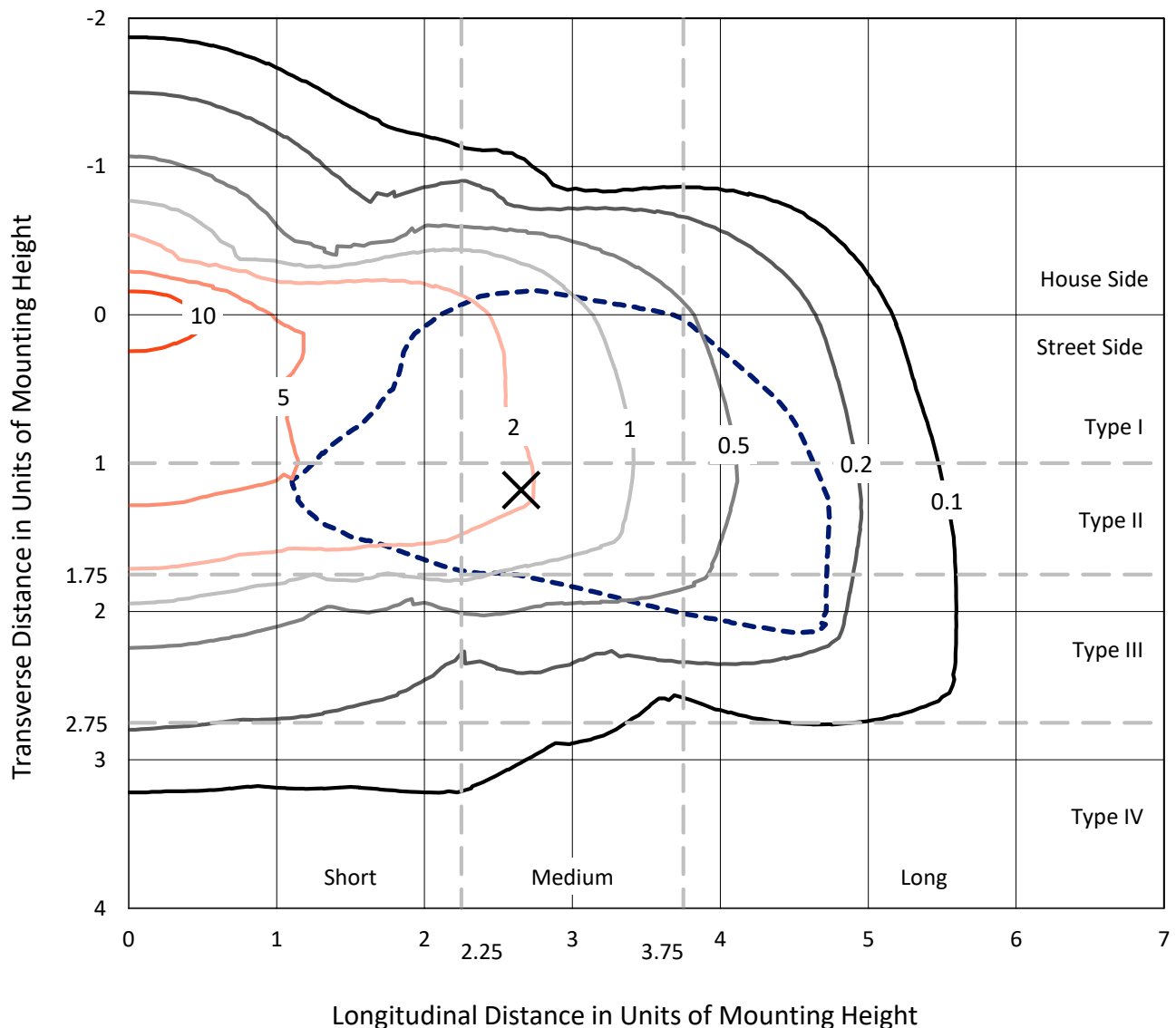
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319501
 CATALOG NUMBER: GAN-SA7D-827-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

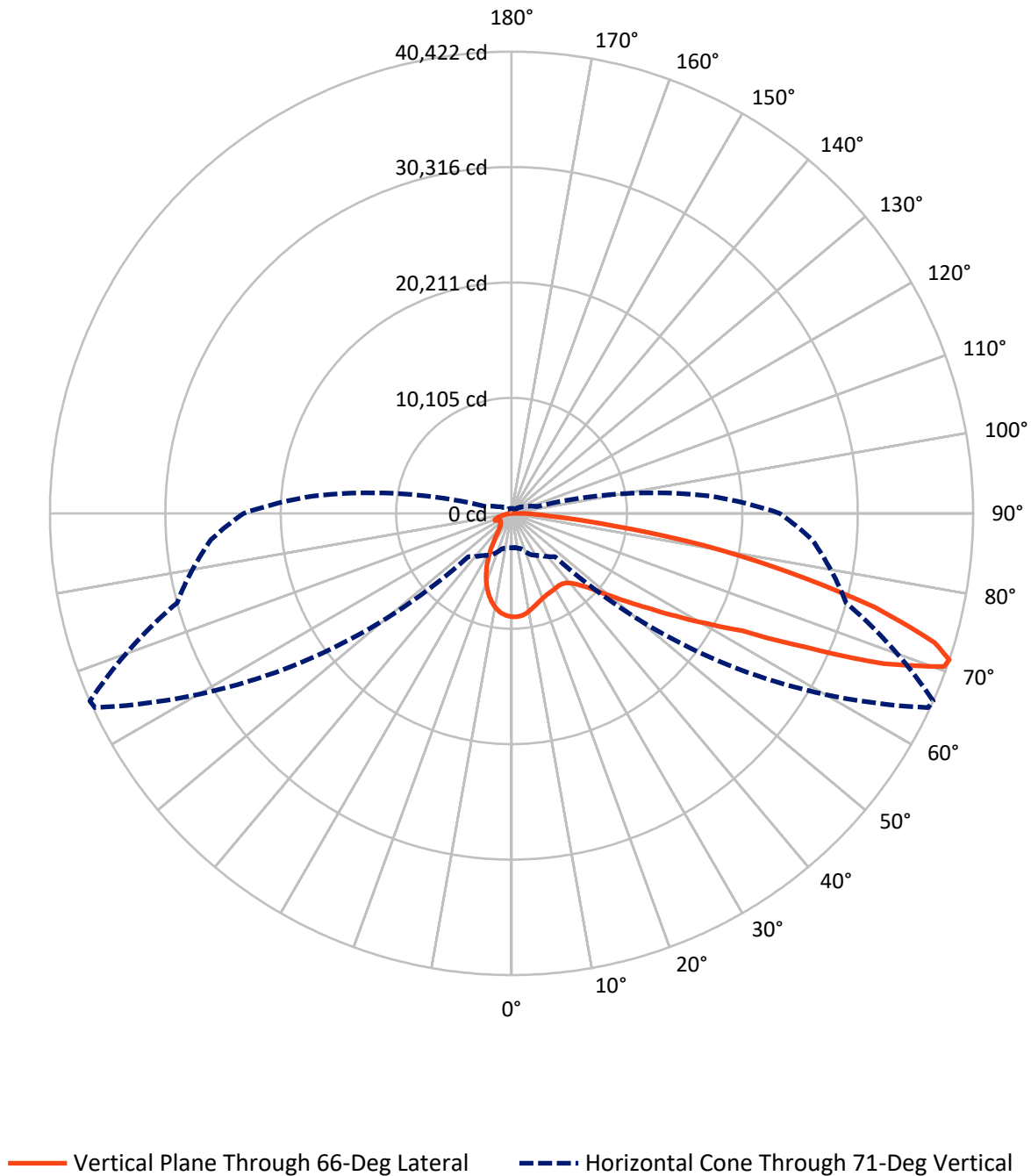
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P319501
CATALOG NUMBER: GAN-SA7D-827-U-SL2

Luminous Intensity Polar Plot



REPORT NUMBER: P319501

CATALOG NUMBER: GAN-SA7D-827-U-SL2

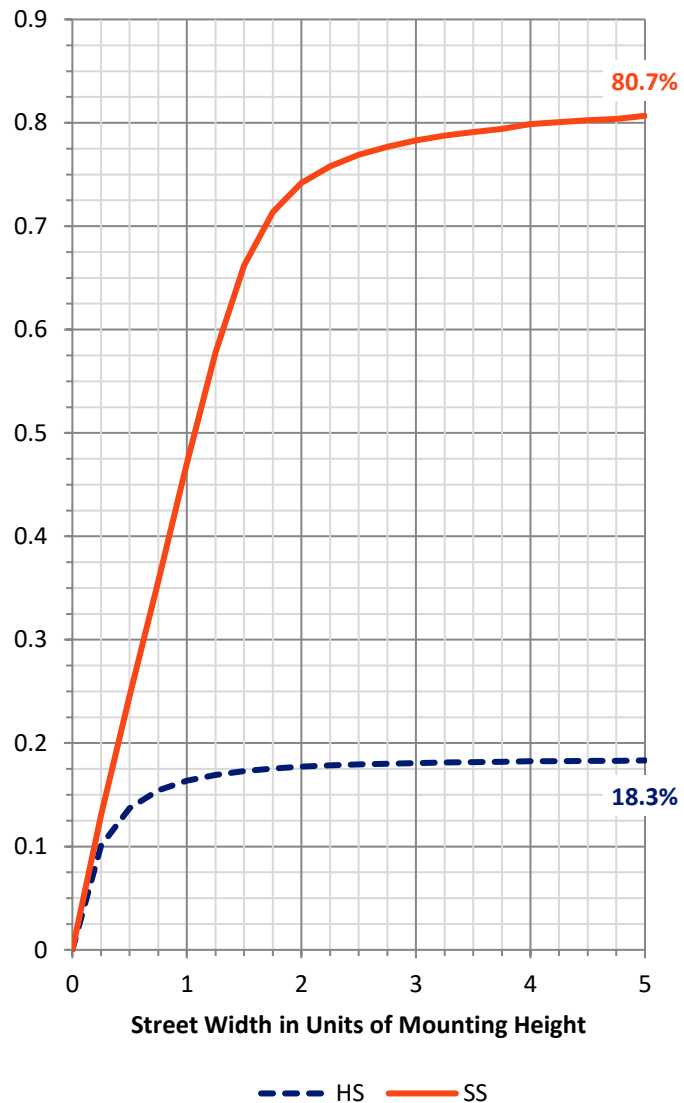
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7324.5	0.0	7324.5
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	32197.5	0.0	32197.5
	% Fixture	81.5	0.0	81.5
Total	Lumens	39522.0	0.0	39522.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	796.9	2.0
10°-20°	1911.4	4.8
20°-30°	2567.5	6.5
30°-40°	3377.5	8.5
40°-50°	4913.4	12.4
50°-60°	7675.3	19.4
60°-70°	9614.5	24.3
70°-80°	7333.7	18.6
80°-90°	1331.7	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°	39522.0	100.0
0°-180°	39522.0	100.0

Coefficient of Utilization



REPORT NUMBER: P319501

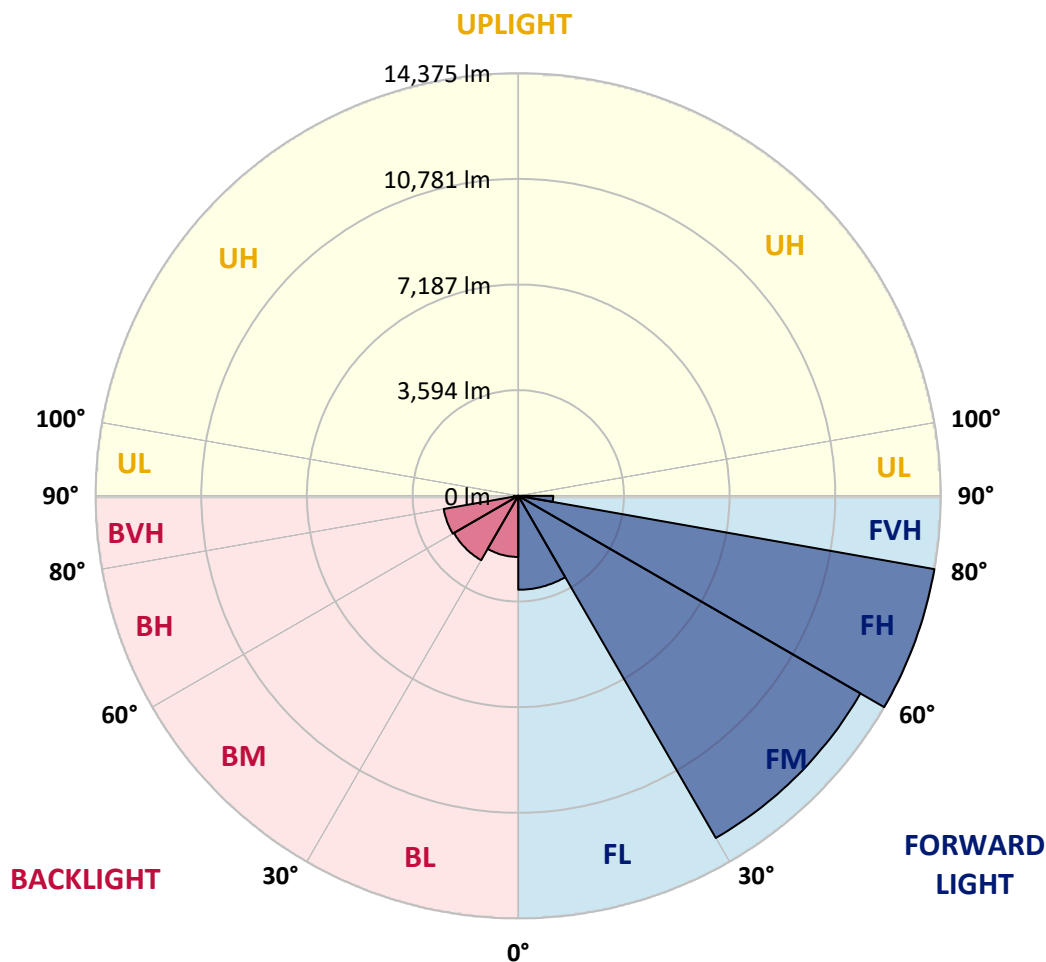
CATALOG NUMBER: GAN-SA7D-827-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3195.9	8.1			
FM	(30°-60°)	13439.5	34.0			
FH	(60°-80°)	14374.6	36.4			G5
FVH	(80°-90°)	1187.6	3.0			G5
BL	(0°-30°)	2080.0	5.3	B3/2500		
BM	(30°-60°)	2526.7	6.4	B3/5000		
BH	(60°-80°)	2573.7	6.5	B4/5000		G4/5000
BVH	(80°-90°)	144.2	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: P319501

CATALOG NUMBER: GAN-SA7D-827-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	9053.7	9053.7	9053.7	9053.7	9053.7	9053.7	9053.7	9053.7	9053.7	9053.7	9053.7
2.5°	8885.9	8872.2	8913.2	8955.5	8971.9	8999.1	9040.1	9063.3	9061.9	9066.0	9052.4
5°	8296.4	8278.7	8360.5	8427.4	8555.7	8700.3	8876.3	9001.9	9004.6	9075.6	9094.7
7.5°	7738.3	7726.0	7820.2	7928.0	8076.7	8297.8	8583.0	8853.1	8869.5	9061.9	9128.8
10°	7290.7	7288.0	7379.4	7496.8	7670.1	7917.1	8244.6	8640.3	8664.8	8996.4	9134.2
12.5°	6941.4	6946.9	7026.0	7159.7	7342.6	7600.5	7955.3	8401.5	8441.0	8892.7	9102.8
15°	6683.5	6705.4	6769.5	6904.6	7084.7	7346.7	7711.0	8180.4	8240.5	8776.7	9085.1
17.5°	6536.1	6560.7	6605.7	6717.6	6886.8	7139.3	7484.5	7998.9	8053.5	8688.0	9086.5
20°	6492.5	6513.0	6538.9	6607.1	6750.4	6979.6	7305.7	7835.2	7893.9	8617.1	9100.1
22.5°	6578.4	6593.5	6596.2	6590.7	6678.1	6865.0	7176.1	7715.1	7777.9	8570.7	9109.7
25°	6762.7	6783.1	6768.1	6717.6	6689.0	6803.6	7109.3	7636.0	7698.7	8536.6	9090.6
27.5°	7039.7	7042.4	7030.1	6964.6	6829.5	6810.4	7088.8	7589.6	7649.6	8497.0	9051.0
30°	7416.3	7434.0	7412.2	7323.5	7102.4	6919.6	7113.3	7544.5	7599.1	8446.5	8986.9
32.5°	7857.0	7900.7	7899.3	7806.5	7490.0	7163.8	7214.3	7517.3	7559.6	8393.3	8909.1
35°	8314.1	8374.2	8486.1	8446.5	8054.9	7550.0	7408.1	7560.9	7589.6	8386.5	8854.5
37.5°	8789.0	8849.0	9079.7	9186.1	8727.6	8102.6	7713.7	7715.1	7728.8	8469.7	8850.4
40°	9285.7	9349.8	9696.4	9973.4	9599.5	8802.6	8206.3	8037.1	8022.1	8674.4	8930.9
42.5°	9981.6	10038.9	10455.1	10808.5	10567.0	9699.2	8887.3	8533.8	8502.5	9075.6	9188.8
45°	10861.7	10910.9	11353.0	11731.0	11606.8	10722.6	9742.8	9217.5	9212.0	9744.2	9711.4
47.5°	11908.3	11946.6	12343.6	12709.3	12754.4	11900.2	10818.1	10272.3	10183.6	10661.2	10520.6
50°	12998.6	13040.9	13311.1	13704.1	14038.4	13476.2	12201.7	11564.5	11445.8	11871.5	11666.8
52.5°	13720.5	13776.4	14011.1	14509.2	15482.1	15203.7	13837.8	13131.0	12950.9	13338.4	13181.5
55°	13398.4	13524.0	13882.8	14681.1	16636.5	17842.7	15856.0	14958.1	14754.8	15076.8	14984.0
57.5°	11934.3	12106.2	12596.1	13828.3	16798.9	20167.9	18907.1	17110.0	16966.7	16873.9	16916.2
60°	9258.4	9423.5	10030.7	11636.8	15667.7	21865.4	23498.7	19762.6	19555.2	18677.8	18716.0
62.5°	6552.5	6469.3	6885.5	8060.3	12731.2	22064.6	28723.6	23310.4	22628.2	20582.7	20414.9
65°	4996.9	4977.8	5164.8	5538.7	7711.0	19680.8	31836.1	29273.5	28207.8	22823.3	22427.6
67.5°	4105.9	4071.8	4256.0	4800.5	4965.6	12697.0	31904.3	36191.7	35145.1	25612.4	24755.5
70°	3375.9	3337.7	3509.6	4212.3	4588.9	6439.3	26851.4	40243.0	40187.1	29143.9	26513.0
71°	3026.6	2999.3	3205.3	3985.8	4508.4	5366.7	23183.5	40253.9	40421.8	30339.2	26409.3
72.5°	2464.4	2473.9	2692.2	3547.8	4448.4	4739.0	17039.0	38377.7	38732.5	31478.6	25466.4
75°	1637.4	1645.6	1932.2	2729.1	4313.3	4636.7	9364.8	32203.2	32855.4	30796.3	23238.1
77.5°	1099.8	1097.1	1292.2	1872.1	3757.9	4636.7	5490.9	24085.5	24801.9	24504.4	17915.0
80°	757.3	751.9	889.7	1292.2	2845.1	4692.7	4245.1	16879.4	17096.3	13233.3	7281.2
82.5°	463.9	468.0	581.3	912.9	1936.3	4223.3	4007.7	9203.8	8967.8	3711.5	1818.9
85°	266.1	264.7	371.2	618.1	1243.1	3564.2	3908.0	3961.3	3633.8	1117.6	657.7
87.5°	95.5	102.3	199.2	342.5	712.3	2482.1	3315.8	2060.5	1857.1	504.9	297.5
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: P319501

CATALOG NUMBER: GAN-SA7D-827-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9053.7	9053.7	9053.7	9053.7	9053.7	9053.7	9053.7	9053.7	9053.7	9053.7	9053.7
2.5°	9042.8	9051.0	9041.4	8986.9	8940.5	8865.4	8823.1	8764.4	8746.7	8738.5	8760.3
5°	9076.9	9079.7	8999.1	8855.9	8694.9	8505.2	8368.7	8200.9	8121.7	8087.6	8109.5
7.5°	9108.3	9096.0	8920.0	8645.7	8348.3	8018.0	7724.7	7455.8	7298.9	7234.8	7240.3
10°	9112.4	9060.5	8778.1	8353.7	7892.5	7408.1	6957.8	6543.0	6281.0	6110.4	6162.3
12.5°	9070.1	8982.8	8569.3	7975.7	7335.8	6675.3	6066.7	5444.5	5070.6	4897.3	4902.8
15°	9037.4	8879.1	8312.8	7530.9	6671.2	5796.6	4965.6	4234.2	3835.7	3658.3	3575.1
17.5°	9010.1	8767.2	8015.3	7030.1	5886.6	4777.3	3778.4	3126.2	2907.8	2856.0	2834.2
20°	8971.9	8648.5	7683.7	6450.2	4992.9	3636.5	2759.1	2437.1	2438.4	2498.5	2506.7
22.5°	8918.6	8513.4	7330.3	5799.3	4033.6	2648.6	2162.8	2070.0	2164.2	2278.8	2299.3
25°	8839.5	8353.7	6937.3	5080.2	3075.7	2035.9	1847.6	1843.5	1958.1	2078.2	2095.9
27.5°	8727.6	8144.9	6500.7	4307.9	2266.5	1730.2	1655.2	1683.8	1768.4	1855.8	1862.6
30°	8577.5	7902.1	6019.0	3493.2	1776.6	1540.6	1532.4	1558.3	1610.2	1671.6	1677.0
32.5°	8412.4	7655.1	5504.6	2704.5	1521.5	1438.2	1446.4	1458.7	1483.3	1507.8	1513.3
35°	8262.3	7402.6	4977.8	2055.0	1400.0	1371.4	1365.9	1363.2	1365.9	1357.7	1359.1
37.5°	8165.4	7193.9	4429.3	1636.1	1330.4	1312.7	1296.3	1275.8	1252.6	1239.0	1241.7
40°	8129.9	7038.3	3873.9	1413.7	1273.1	1260.8	1229.5	1185.8	1158.5	1150.3	1150.3
42.5°	8225.4	6957.8	3337.7	1301.8	1225.4	1204.9	1153.0	1102.5	1082.1	1080.7	1079.4
45°	8517.5	6990.5	2827.3	1240.4	1181.7	1142.1	1073.9	1031.6	1017.9	1020.7	1019.3
47.5°	9041.4	7196.6	2390.7	1199.4	1138.0	1086.2	1009.8	975.6	959.3	959.3	960.6
50°	9932.5	7678.3	2042.7	1165.3	1101.2	1034.3	963.4	921.1	899.2	897.9	897.9
52.5°	11230.2	8540.7	1825.8	1136.7	1060.2	987.9	917.0	863.8	837.8	832.4	829.6
55°	12856.7	9776.9	1765.7	1117.6	1005.7	937.4	861.0	807.8	779.2	766.9	765.5
57.5°	14675.6	11280.7	1884.4	1094.4	949.7	877.4	799.6	749.1	719.1	704.1	702.7
60°	16516.4	12922.2	2368.8	1061.6	903.3	811.9	736.9	690.5	660.4	644.1	641.3
62.5°	18359.9	14652.4	3358.1	1058.9	870.6	749.1	672.7	633.1	604.5	586.8	582.7
65°	20439.4	16546.4	4482.5	1131.2	859.7	691.8	607.2	575.8	551.3	534.9	533.5
67.5°	22827.4	18684.7	4374.7	1279.9	896.5	640.0	545.8	521.3	503.5	489.9	488.5
70°	23947.7	18350.3	2719.5	1385.0	948.4	589.5	487.1	469.4	455.8	446.2	442.1
71°	23478.3	17423.8	2280.1	1372.7	942.9	567.6	463.9	450.3	436.7	428.5	424.4
72.5°	22198.3	15890.1	1902.2	1277.2	881.5	528.1	433.9	420.3	408.0	398.4	395.7
75°	19919.6	14191.2	1522.8	1020.7	702.7	446.2	380.7	365.7	356.1	350.7	345.2
77.5°	14642.9	10127.6	1177.6	806.4	517.2	364.3	324.8	313.8	304.3	296.1	292.0
80°	5609.6	3923.1	792.8	601.8	379.3	287.9	262.0	256.5	247.0	241.5	241.5
82.5°	1510.5	1172.1	423.0	364.3	253.8	210.1	200.6	197.9	189.7	178.8	180.1
85°	611.3	517.2	237.4	200.6	155.6	124.2	135.1	136.5	126.9	113.3	114.6
87.5°	268.8	219.7	132.4	88.7	68.2	47.8	61.4	61.4	55.9	46.4	42.3
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)