

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: P317354

Luminaire Tested: **GAN-SA0A-727-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317354
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0A-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40187 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

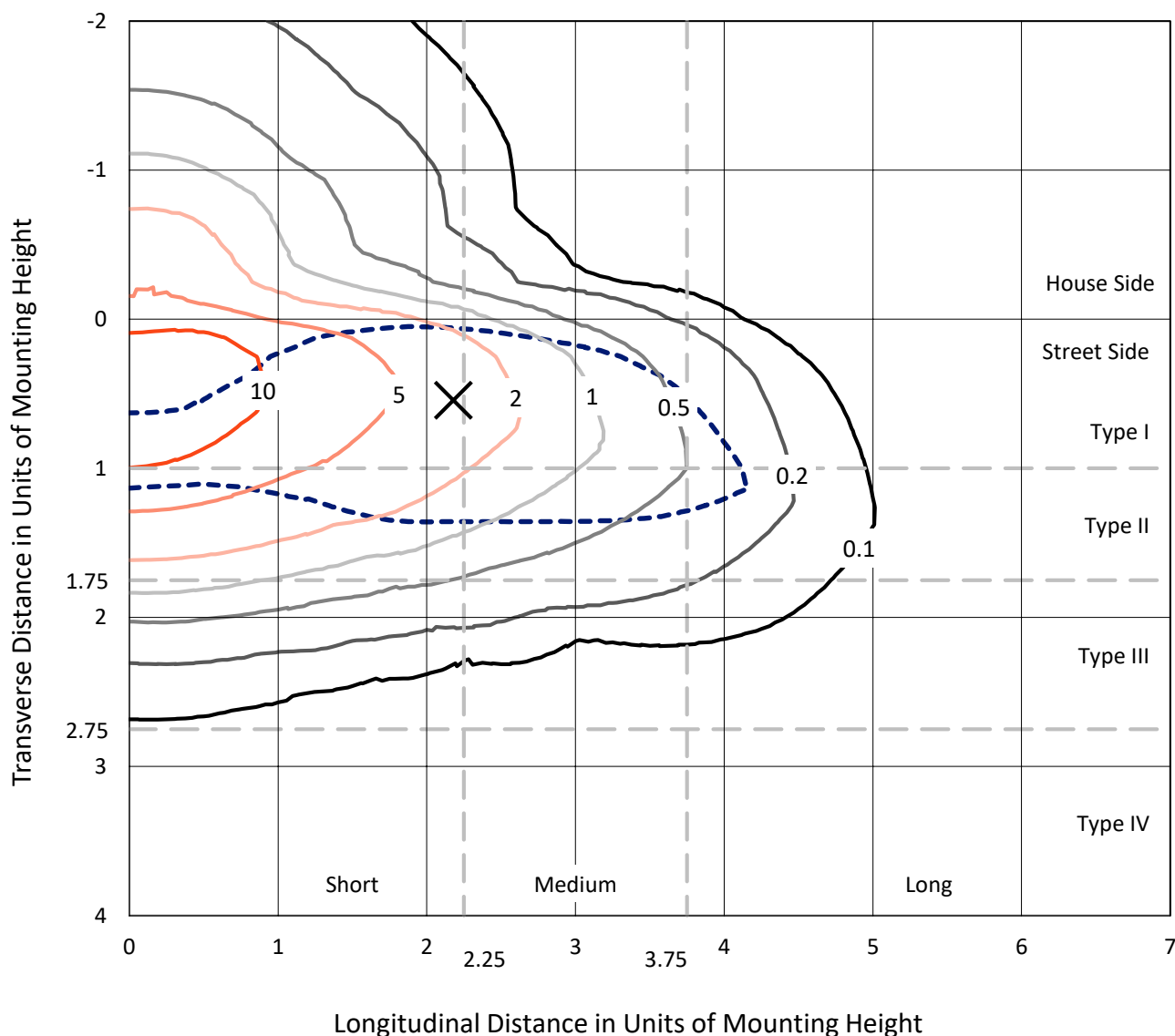
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P317354
 CATALOG NUMBER: GAN-SA0A-727-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

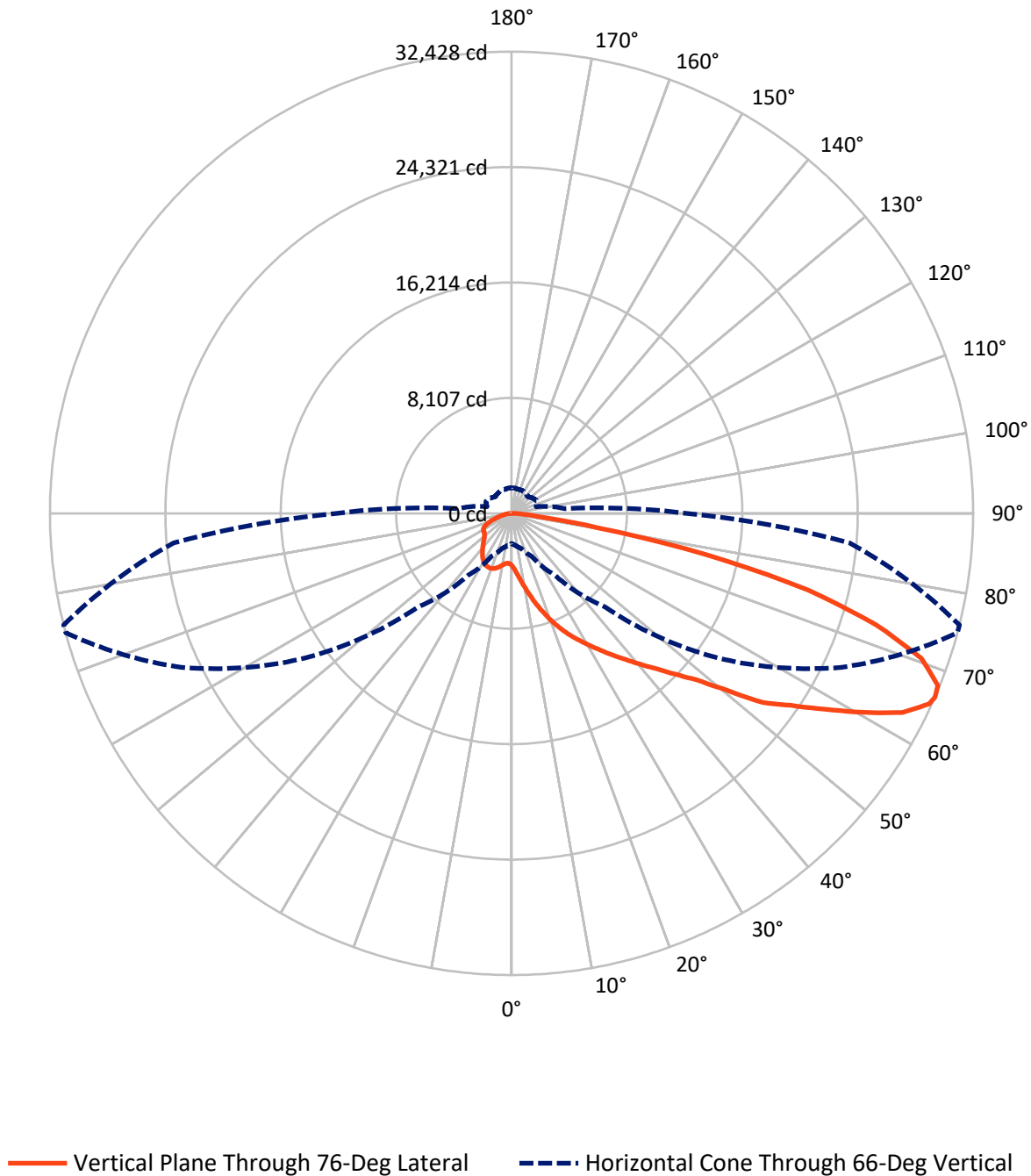
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
 Type II - Short - N/A

REPORT NUMBER: P317354
CATALOG NUMBER: GAN-SA0A-727-U-T2R

Luminous Intensity Polar Plot



REPORT NUMBER: P317354

CATALOG NUMBER: GAN-SA0A-727-U-T2R

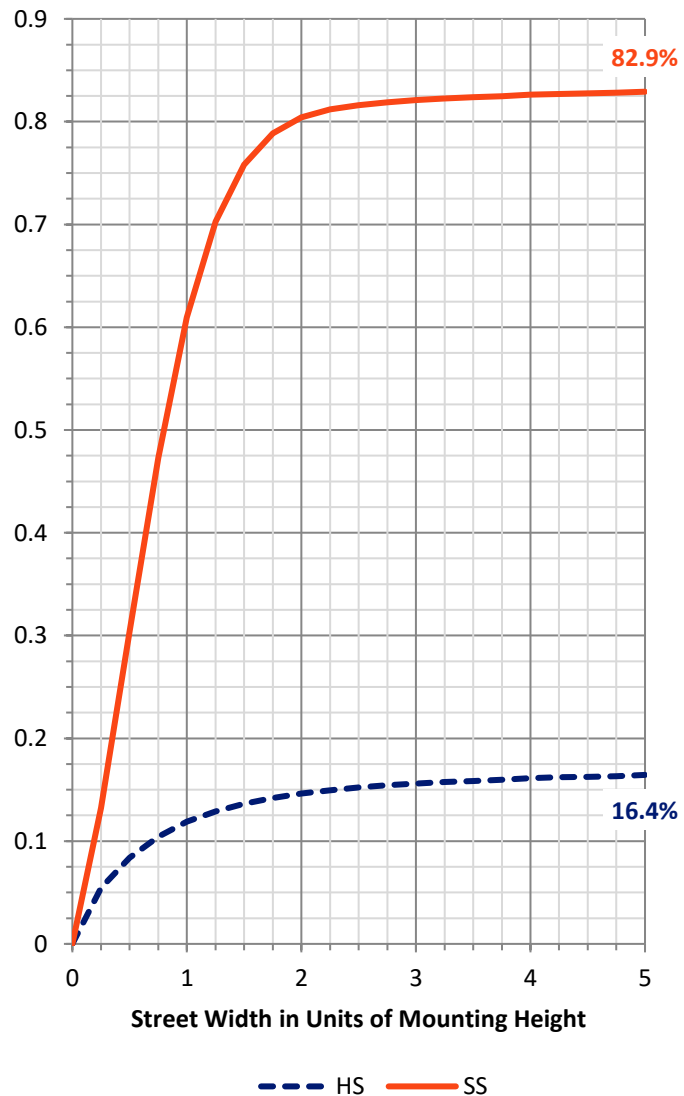
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6762.1	0.0	6762.1
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	33424.9	0.0	33424.9
	% Fixture	83.2	0.0	83.2
Total	Lumens	40187.0	0.0	40187.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.8	1.1
10°-20°	1752.5	4.4
20°-30°	3405.6	8.5
30°-40°	5558.7	13.8
40°-50°	7594.5	18.9
50°-60°	8846.1	22.0
60°-70°	7930.7	19.7
70°-80°	4007.8	10.0
80°-90°	647.2	1.6
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°	40187.0	100.0
0°-180°	40187.0	100.0

Coefficient of Utilization



REPORT NUMBER: P317354

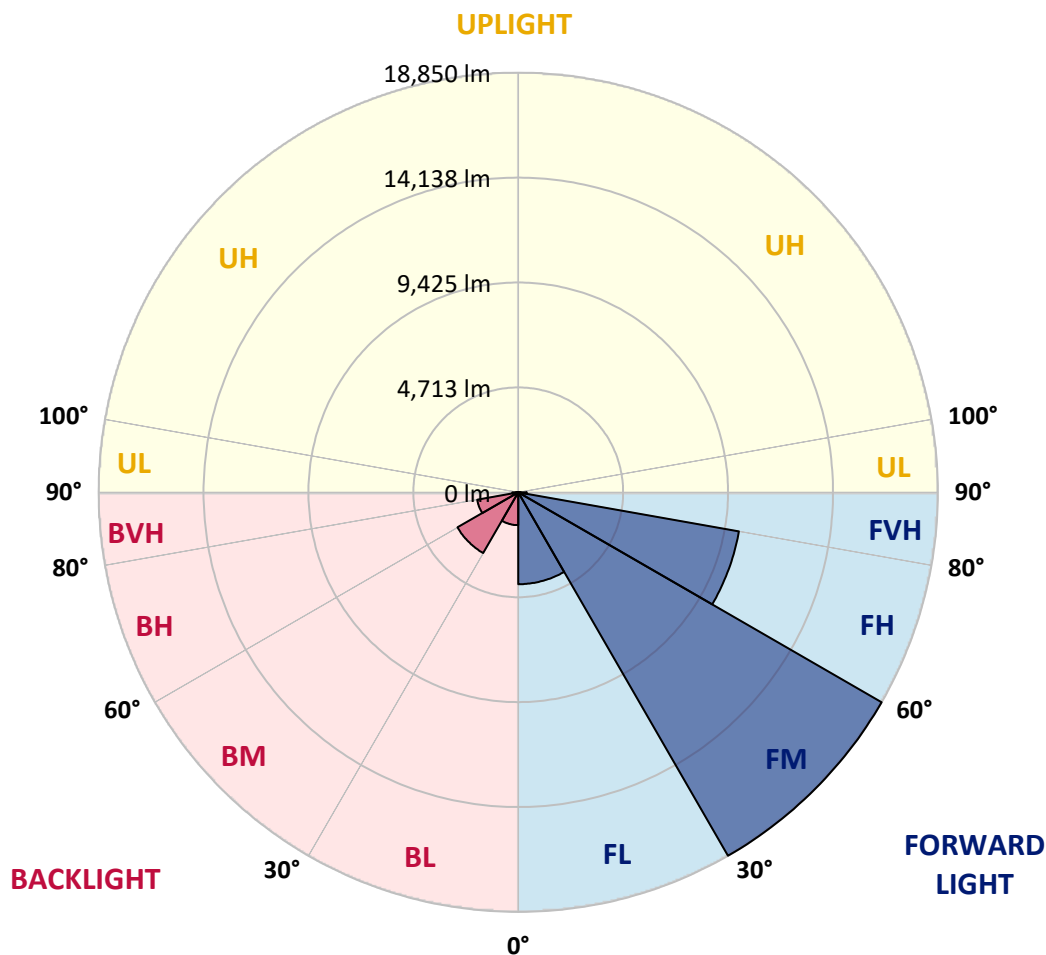
CATALOG NUMBER: GAN-SA0A-727-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4127.1	10.3			
FM	(30°-60°)	18850.5	46.9			
FH	(60°-80°)	10065.1	25.0			G4/12000
FVH	(80°-90°)	382.2	1.0			G3/500
BL	(0°-30°)	1474.8	3.7	B3/2500		
BM	(30°-60°)	3148.8	7.8	B3/5000		
BH	(60°-80°)	1873.4	4.7	B3/2500		G3/2500
BVH	(80°-90°)	265.0	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





REPORT NUMBER: P317354

CATALOG NUMBER: GAN-SA0A-727-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3670.0	3670.0	3670.0	3670.0	3670.0	3670.0	3670.0	3670.0	3670.0	3670.0	3670.0
2.5°	4871.9	4798.3	4791.4	4683.7	4659.1	4453.1	4301.7	4143.4	3963.3	3927.8	3785.9
5°	6258.1	6251.2	6157.1	5981.1	5843.3	5491.3	5143.4	4775.1	4371.2	4305.7	3986.5
7.5°	7505.0	7494.1	7421.8	7232.2	7033.0	6600.5	6103.9	5539.1	4884.2	4787.3	4258.0
10°	8451.9	8447.8	8423.2	8284.1	8114.9	7700.1	7151.7	6380.9	5480.4	5348.1	4597.7
12.5°	9183.1	9191.3	9207.7	9158.6	9078.1	8724.7	8162.6	7273.1	6116.2	5985.2	4975.6
15°	9678.4	9702.9	9787.5	9857.1	9899.4	9682.5	9138.1	8185.8	6828.3	6671.4	5394.5
17.5°	9928.0	9955.3	10101.3	10311.4	10505.1	10483.3	10050.8	9056.3	7511.9	7360.4	5844.7
20°	10143.6	10164.1	10327.8	10580.2	10922.6	11074.1	10831.2	9893.9	8260.9	8080.8	6322.2
22.5°	10768.5	10794.4	10843.5	10986.7	11289.6	11567.9	11450.6	10686.6	8947.1	8779.3	6775.1
25°	11974.5	12005.9	11899.5	11778.0	11835.3	12029.1	12050.9	11409.7	9642.9	9453.3	7262.2
27.5°	13427.5	13472.5	13291.1	12978.6	12705.8	12630.7	12604.8	12001.8	10307.3	10087.7	7743.8
30°	14850.5	14928.2	14692.2	14287.0	13786.3	13434.3	13173.7	12581.6	10962.2	10752.1	8198.1
32.5°	16240.7	16209.3	15866.9	15471.2	14884.6	14443.9	13813.6	13203.7	11698.9	11457.4	8649.7
35°	17193.0	17203.9	16886.0	16416.7	15857.3	15519.0	14670.4	13875.0	12450.6	12228.3	9162.7
37.5°	18003.4	17952.9	17592.7	17154.8	16673.2	16528.6	15673.1	14614.4	13265.1	13022.3	9708.4
40°	18273.5	18214.8	17978.8	17663.7	17277.6	17265.3	16779.6	15452.1	14186.0	13945.9	10323.7
42.5°	18109.8	18034.7	17937.9	17851.9	17733.2	17787.8	17819.2	16434.4	15198.4	14929.6	11035.9
45°	17505.4	17392.2	17460.4	17647.3	17905.1	18213.5	18757.8	17521.8	16332.1	16107.0	11872.2
47.5°	16576.3	16474.0	16686.8	17086.6	17787.8	18568.2	19646.0	18722.4	17685.5	17461.7	13063.2
50°	15269.3	15299.3	15603.6	16330.7	17390.8	18731.9	20740.2	20311.8	19652.8	19444.1	14688.1
52.5°	13124.6	13130.1	13986.9	15180.6	16686.8	18647.3	21347.3	22343.2	22339.1	22086.7	16235.2
55°	11132.7	11254.1	11932.2	13518.9	15546.3	18309.0	21771.6	23331.0	24103.2	23807.1	17677.3
57.5°	9187.2	9258.2	9900.8	11494.3	13918.6	17407.2	22206.8	24516.6	26136.0	25949.1	19470.0
60°	6974.3	7083.5	7747.9	9220.0	11836.7	15806.8	22247.7	25754.0	28565.8	28377.5	21471.4
62.5°	4526.8	4715.0	5337.2	6716.5	9318.2	13505.3	21298.2	26563.0	30868.8	30801.9	23247.8
65°	2601.7	2743.6	3176.1	4240.3	6428.6	10615.7	19040.2	26251.9	32286.3	32248.1	23912.2
66°	2125.6	2214.3	2545.8	3313.9	5304.4	9322.3	17727.8	25595.7	32426.8	32428.2	23835.8
67.5°	1699.9	1739.5	1888.2	2372.5	3914.2	7389.1	15382.5	24148.2	32252.2	32299.9	23343.3
70°	1406.6	1427.1	1473.4	1590.8	2136.5	4455.8	10918.5	20386.8	30499.0	30535.9	21420.9
72.5°	1262.0	1274.3	1292.0	1308.4	1507.6	2489.9	6668.7	16308.9	26740.4	26788.1	18491.8
75°	1143.3	1150.1	1147.4	1148.7	1264.7	1586.7	3446.2	12176.4	21621.5	21526.0	14165.6
77.5°	1004.1	1010.9	997.3	1000.0	1118.7	1219.7	1714.9	8524.2	14591.2	13917.3	7981.2
80°	848.6	854.1	848.6	858.1	974.1	920.9	997.3	4795.5	6451.8	6102.5	2837.8
82.5°	641.2	664.4	680.8	719.0	802.2	654.9	667.1	1867.7	1964.6	1870.5	870.4
85°	281.0	342.4	513.0	549.8	603.0	392.9	437.9	761.3	799.5	774.9	316.5
87.5°	73.7	80.5	253.8	319.2	334.3	177.4	227.8	346.5	365.6	346.5	105.1
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: P317354

CATALOG NUMBER: GAN-SA0A-727-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3670.0	3670.0	3670.0	3670.0	3670.0	3670.0	3670.0	3670.0	3670.0	3670.0	3670.0
2.5°	3710.9	3644.1	3524.0	3417.6	3337.1	3282.5	3227.9	3200.7	3184.3	3167.9	3170.6
5°	3829.6	3694.5	3488.5	3342.5	3260.7	3208.8	3181.6	3170.6	3163.8	3147.5	3147.5
7.5°	4008.3	3817.3	3533.5	3383.5	3319.4	3279.8	3263.4	3258.0	3249.8	3230.7	3233.4
10°	4233.4	3966.0	3627.7	3481.7	3423.0	3379.4	3356.2	3348.0	3333.0	3311.2	3313.9
12.5°	4498.1	4150.2	3751.8	3599.0	3528.1	3469.4	3431.2	3408.0	3382.1	3353.5	3354.8
15°	4787.3	4350.8	3885.5	3704.1	3607.2	3525.4	3464.0	3424.4	3383.5	3348.0	3346.6
17.5°	5080.7	4544.5	3987.9	3761.4	3630.4	3522.6	3439.4	3378.0	3327.5	3283.9	3279.8
20°	5397.2	4719.1	4045.2	3755.9	3586.8	3458.5	3348.0	3271.6	3215.7	3172.0	3165.2
22.5°	5719.2	4882.8	4054.7	3700.0	3489.9	3333.0	3217.0	3132.4	3075.1	3030.1	3013.7
25°	6013.9	5009.7	4015.1	3592.2	3354.8	3185.7	3072.4	2986.5	2940.1	2886.9	2870.5
27.5°	6282.6	5098.4	3936.0	3454.4	3203.4	3036.9	2930.5	2856.9	2806.4	2765.4	2751.8
30°	6524.1	5146.2	3806.4	3290.7	3047.9	2896.4	2806.4	2755.9	2712.2	2660.4	2650.8
32.5°	6753.3	5146.2	3640.0	3112.0	2893.7	2772.3	2719.1	2687.7	2638.6	2588.1	2574.4
35°	6982.5	5114.8	3443.5	2925.1	2751.8	2683.6	2680.9	2644.0	2569.0	2500.8	2483.0
37.5°	7224.0	5050.7	3222.5	2750.4	2635.8	2644.0	2667.2	2585.4	2478.9	2382.1	2356.2
40°	7496.9	4962.0	2993.3	2599.0	2539.0	2626.3	2630.4	2500.8	2293.4	2204.7	2181.5
42.5°	7817.5	4873.3	2780.5	2465.3	2462.6	2573.1	2560.8	2318.0	2193.8	2148.8	2136.5
45°	8239.0	4822.8	2578.5	2338.4	2402.5	2487.1	2442.1	2217.0	2165.2	2139.2	2128.3
47.5°	8903.5	4848.7	2393.0	2237.5	2342.5	2401.2	2221.1	2176.1	2139.2	2107.9	2096.9
50°	9735.7	4833.7	2242.9	2167.9	2274.3	2311.1	2121.5	2122.9	2103.8	2068.3	2051.9
52.5°	10361.9	4716.4	2146.1	2128.3	2214.3	2151.5	2058.7	2071.0	2061.5	2009.6	1991.9
55°	10966.3	4615.4	2096.9	2113.3	2170.6	1952.3	1985.1	2015.1	2005.5	1955.0	1946.9
57.5°	11718.0	4596.3	2066.9	2117.4	2133.8	1852.7	1914.1	1953.7	1946.9	1925.0	1920.9
60°	12638.9	4601.8	2039.6	2124.2	2092.8	1779.1	1847.3	1897.7	1901.8	1897.7	1895.0
62.5°	13145.1	4453.1	1971.4	2105.1	2020.5	1714.9	1777.7	1851.4	1852.7	1860.9	1859.5
65°	12715.3	4008.3	1844.5	2038.3	1899.1	1661.7	1717.7	1798.2	1777.7	1814.5	1814.5
66°	12297.8	3751.8	1781.8	1994.6	1847.3	1641.3	1698.6	1770.9	1744.9	1795.4	1795.4
67.5°	11445.2	3319.4	1668.5	1901.8	1773.6	1612.6	1676.7	1725.8	1690.4	1765.4	1760.0
70°	9887.1	2567.6	1440.7	1691.7	1652.2	1570.3	1646.7	1635.8	1584.0	1698.6	1676.7
72.5°	8335.9	1951.0	1156.9	1416.1	1468.0	1517.1	1604.4	1521.2	1455.7	1536.2	1488.5
75°	6468.2	1466.6	914.1	1101.0	1240.2	1433.9	1553.9	1388.9	1294.7	1286.5	1260.6
77.5°	3496.7	1006.9	724.4	840.4	985.0	1330.2	1519.8	1247.0	1105.1	1072.3	1051.9
80°	1384.8	654.9	526.6	637.1	689.0	1180.1	1438.0	1081.9	911.4	878.6	847.2
82.5°	571.6	387.5	339.7	427.0	448.9	1009.6	1290.6	886.8	704.0	974.1	1034.1
85°	245.6	212.8	201.9	221.0	253.8	708.1	1027.3	676.7	759.9	678.1	538.9
87.5°	73.7	90.0	86.0	84.6	92.8	169.2	547.1	376.5	558.0	211.5	158.3
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)