

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: P318984

Luminaire Tested: **GAN-SA0D-727-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318984
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63777 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 640
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

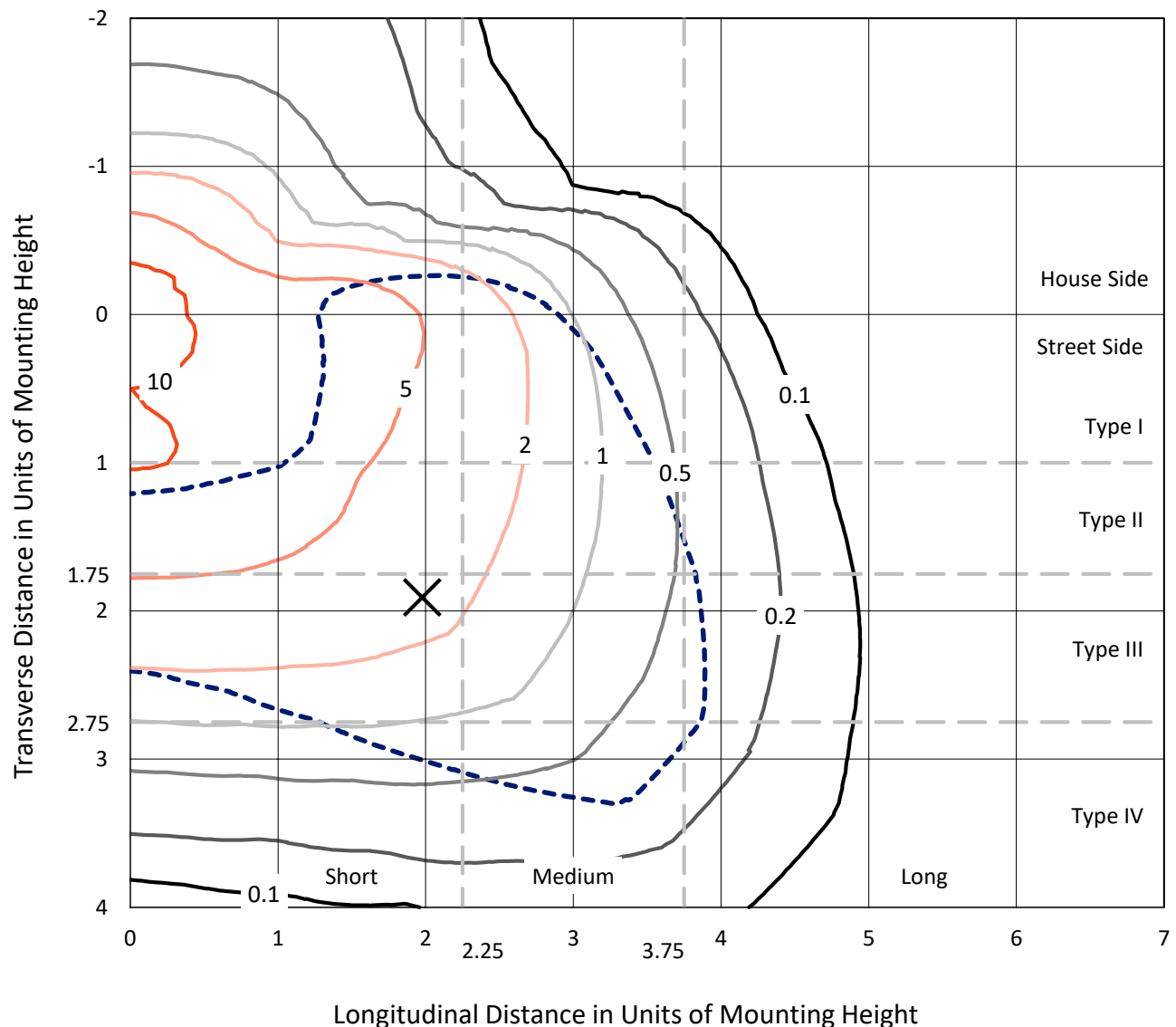


REPORT NUMBER: P318984

CATALOG NUMBER: GAN-SA0D-727-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

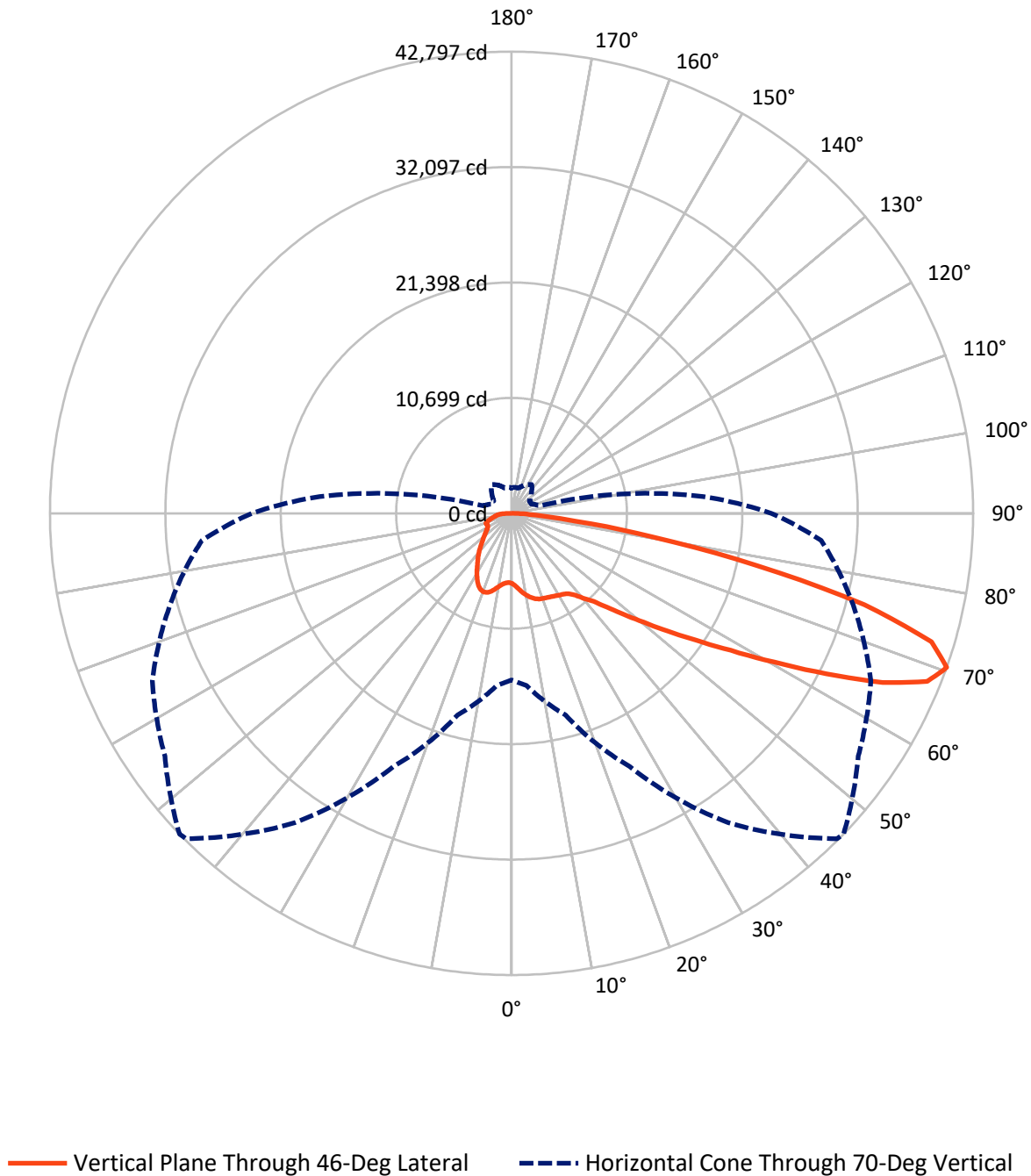


Based on 25 foot mounting height. Maximum calculated value = 13 fc

Type IV - Short - N/A

REPORT NUMBER: P318984
CATALOG NUMBER: GAN-SA0D-727-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P318984

CATALOG NUMBER: GAN-SA0D-727-U-T4W

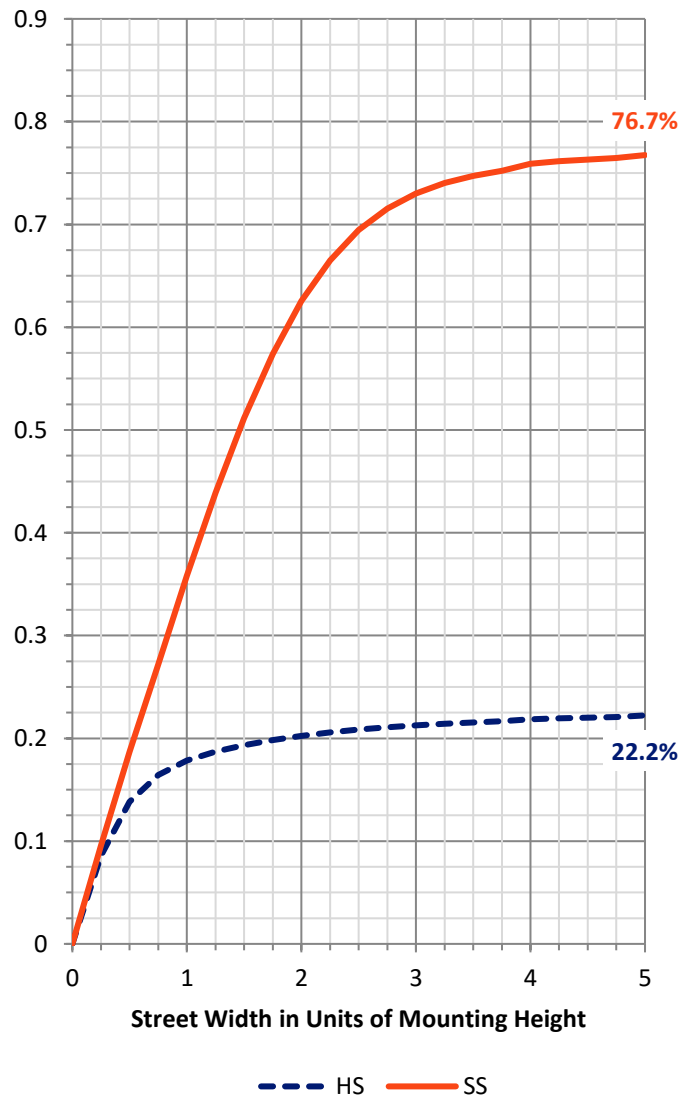
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14617.5	0.0	14617.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	49159.5	0.0	49159.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	63777.0	0.0	63777.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	662.4	1.0
10°-20°	2206.9	3.5
20°-30°	3679.7	5.8
30°-40°	5221.7	8.2
40°-50°	7680.9	12.0
50°-60°	13007.5	20.4
60°-70°	18463.9	29.0
70°-80°	11217.0	17.6
80°-90°	1637.0	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°	63777.0	100.0
0°-180°	63777.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318984

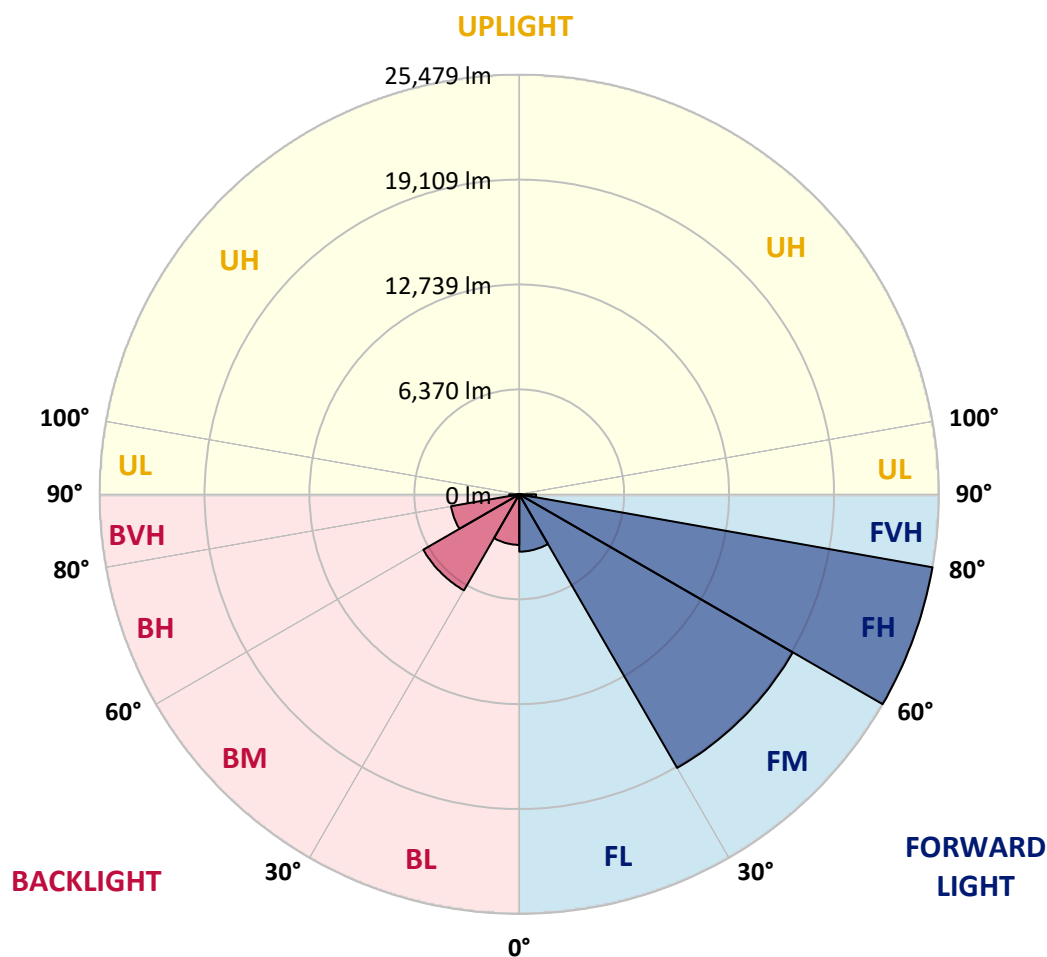
CATALOG NUMBER: GAN-SA0D-727-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3480.0	5.5			
FM	(30°-60°)	19181.3	30.1			
FH	(60°-80°)	25478.5	39.9			G5
FVH	(80°-90°)	1019.7	1.6			G5
BL	(0°-30°)	3069.0	4.8	B4/5000		
BM	(30°-60°)	6728.8	10.6	B4/8500		
BH	(60°-80°)	4202.4	6.6	B4/5000		G4/5000
BVH	(80°-90°)	617.3	1.0			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





REPORT NUMBER: P318984

CATALOG NUMBER: GAN-SA0D-727-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	6497.6	6497.6	6497.6	6497.6	6497.6	6497.6	6497.6	6497.6	6497.6	6497.6	6497.6
2.5°	6822.8	6827.2	6835.9	6814.1	6753.0	6735.5	6729.0	6665.7	6624.2	6563.1	6510.7
5°	7368.5	7372.9	7359.8	7298.6	7163.3	7062.9	7054.2	6910.1	6779.2	6639.5	6534.7
7.5°	7938.2	7944.7	7903.2	7787.6	7597.7	7423.1	7412.1	7215.7	7017.1	6805.4	6648.2
10°	8442.3	8416.1	8348.5	8187.0	7962.2	7748.3	7739.5	7534.4	7305.2	7049.8	6840.3
12.5°	8778.5	8756.6	8669.3	8472.9	8226.3	8029.8	8012.4	7822.5	7599.8	7320.5	7069.5
15°	8964.0	8979.3	8861.4	8638.8	8398.7	8232.8	8217.5	8082.2	7883.6	7602.0	7313.9
17.5°	8988.0	9001.1	8887.6	8667.1	8470.7	8357.2	8350.7	8261.2	8117.1	7846.5	7545.3
20°	8848.3	8857.0	8763.2	8582.0	8453.2	8418.3	8416.1	8376.9	8269.9	8029.8	7737.4
22.5°	8645.3	8651.9	8584.2	8453.2	8409.6	8464.2	8479.4	8464.2	8387.8	8163.0	7888.0
25°	8595.1	8590.8	8520.9	8387.8	8424.9	8540.6	8560.2	8566.7	8514.4	8317.9	8080.0
27.5°	8837.4	8822.1	8689.0	8475.1	8499.1	8638.8	8665.0	8728.3	8695.5	8523.1	8298.3
30°	9538.0	9511.8	9239.0	8806.8	8689.0	8761.0	8793.7	8894.1	8900.7	8756.6	8588.6
32.5°	10721.0	10688.2	10199.3	9426.7	9009.8	8885.4	8916.0	9066.6	9147.3	9036.0	8854.8
35°	12216.1	12179.0	11537.3	10480.9	9546.7	9123.3	9145.1	9265.2	9426.7	9269.5	9029.5
37.5°	13774.4	13685.0	13067.3	11720.6	10400.1	9631.9	9631.9	9647.1	9723.5	9396.1	9234.6
40°	15324.1	15234.6	14675.9	13178.6	11504.5	10432.9	10382.7	10044.4	9983.3	9701.7	9647.1
42.5°	16764.6	16738.4	16408.9	14826.5	12801.0	11220.8	11151.0	10576.9	10590.0	10415.4	10417.6
45°	18296.8	18296.8	18028.4	16489.6	14311.4	12486.7	12416.9	11572.2	11703.2	11622.4	11816.6
47.5°	19547.4	19586.7	19549.6	18222.6	16068.4	14095.3	13968.7	12951.6	13318.3	13595.5	14160.8
50°	20824.3	20885.4	20891.9	20123.7	18192.0	16007.3	15863.2	14782.8	15601.3	16395.8	17506.7
52.5°	22677.3	22814.8	22267.0	22020.3	20793.7	18277.2	18135.3	17137.8	18504.2	19619.5	21533.6
55°	24395.0	24275.0	23884.3	24037.1	23578.7	20861.4	20754.4	19879.2	21738.8	23188.0	25674.0
57.5°	25324.8	25316.1	25709.0	26363.7	26582.0	24048.0	23958.5	23107.3	25385.9	26475.1	29561.3
60°	26416.1	26431.4	27404.8	28891.2	29790.4	28016.0	27976.7	27330.6	28928.3	29543.8	32610.4
62.5°	26568.9	26843.9	28520.2	31078.2	32793.7	32651.8	32739.1	31134.9	32097.5	31992.7	34886.8
65°	24811.9	25174.2	28208.0	31739.5	35779.5	37722.0	37802.8	34961.0	34596.5	34085.8	35700.9
67.5°	21210.6	21747.5	25043.3	30301.2	36763.9	41469.6	41583.1	37927.2	36670.0	34795.2	33741.0
70°	15435.4	16031.3	19348.8	25879.2	35009.1	42667.8	42796.6	39239.0	36748.6	32776.2	28803.9
72.5°	9324.1	9791.2	12526.0	19052.0	29548.2	40485.2	40714.4	37575.8	33551.1	27762.8	21269.5
75°	4094.6	4400.1	6056.7	10978.5	21153.8	33496.5	33782.4	32162.9	27260.8	20176.0	12571.8
77.5°	1743.9	1831.2	2483.8	4769.0	11958.5	22889.0	23281.9	23500.2	18495.4	10978.5	5312.5
80°	1086.9	1121.9	1405.6	2158.6	5596.2	12855.6	13279.0	13826.8	9184.4	4035.6	1855.2
82.5°	661.3	700.6	934.2	1305.2	2913.8	5827.6	6030.5	6416.9	3564.2	1743.9	960.3
85°	397.2	425.6	571.8	825.0	1658.8	2291.7	2289.6	2531.8	1678.4	1121.9	506.4
87.5°	189.9	211.7	305.6	427.8	835.9	859.9	805.4	912.3	1019.3	735.5	255.4
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: P318984

CATALOG NUMBER: GAN-SA0D-727-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6497.6	6497.6	6497.6	6497.6	6497.6	6497.6	6497.6	6497.6	6497.6	6497.6	6497.6
2.5°	6493.3	6484.5	6456.2	6434.3	6430.0	6416.9	6406.0	6412.5	6421.2	6423.4	6423.4
5°	6491.1	6467.1	6430.0	6414.7	6434.3	6460.5	6493.3	6536.9	6563.1	6582.7	6595.8
7.5°	6595.8	6550.0	6508.5	6499.8	6539.1	6608.9	6683.1	6774.8	6838.1	6881.8	6890.5
10°	6770.5	6713.7	6672.2	6681.0	6750.8	6851.2	6956.0	7073.8	7169.9	7228.8	7233.2
12.5°	6971.3	6916.7	6877.4	6914.5	7030.2	7152.4	7261.5	7364.1	7451.4	7510.4	7510.4
15°	7202.6	7163.3	7117.5	7202.6	7359.8	7468.9	7514.7	7564.9	7612.9	7656.6	7647.9
17.5°	7425.2	7388.1	7364.1	7464.5	7628.2	7678.4	7647.9	7610.8	7610.8	7634.8	7639.1
20°	7617.3	7584.6	7599.8	7698.1	7783.2	7730.8	7617.3	7499.4	7451.4	7464.5	7477.6
22.5°	7785.4	7770.1	7815.9	7861.8	7800.6	7617.3	7407.8	7248.4	7189.5	7185.1	7189.5
25°	7981.8	7979.6	8036.4	7953.4	7682.8	7344.5	7062.9	6908.0	6875.2	6901.4	6945.1
27.5°	8226.3	8250.3	8278.6	7975.3	7442.7	6932.0	6646.0	6539.1	6571.8	6635.1	6676.6
30°	8538.4	8603.8	8542.7	7920.7	7097.8	6460.5	6187.7	6157.1	6246.6	6336.1	6379.8
32.5°	8841.8	8944.3	8795.9	7778.8	6652.6	5960.7	5749.0	5740.3	5849.4	5936.7	5997.8
35°	9086.2	9289.2	8985.8	7497.3	6137.5	5500.2	5345.2	5286.3	5325.6	5428.1	5498.0
37.5°	9404.9	9743.2	9116.8	7067.3	5578.7	5120.4	4939.2	4803.9	4769.0	4810.5	4845.4
40°	9987.6	10435.1	9177.9	6467.1	5033.1	4740.6	4557.3	4358.7	4221.2	4120.8	4122.9
42.5°	10939.2	11336.5	9138.6	5738.1	4528.9	4369.6	4162.2	3933.1	3710.4	3483.4	3466.0
45°	12484.5	12676.6	9020.7	4965.4	4085.8	3981.1	3786.8	3557.7	3260.8	3003.3	2979.3
47.5°	14957.4	14531.8	8837.4	4291.0	3695.2	3651.5	3472.5	3208.4	2894.1	2686.8	2669.3
50°	18329.6	17209.9	8747.9	3754.1	3350.3	3363.4	3217.2	2937.8	2641.0	2488.2	2470.7
52.5°	22363.0	20328.8	8920.3	3339.4	3073.1	3118.9	3009.8	2747.9	2499.1	2379.0	2361.6
55°	26547.1	23559.1	9105.8	3038.2	2811.2	2900.7	2863.6	2647.5	2422.7	2311.4	2296.1
57.5°	30128.7	25970.9	8734.8	2793.7	2577.7	2717.3	2750.1	2584.2	2383.4	2283.0	2265.5
60°	32383.4	26942.1	7761.4	2564.6	2392.1	2571.1	2684.6	2566.7	2398.7	2390.0	2376.9
62.5°	33452.9	26857.0	6301.2	2383.4	2276.5	2507.8	2732.6	2665.0	2573.3	2651.9	2658.4
65°	32972.7	25573.6	4692.6	2263.4	2193.5	2531.8	2876.7	2850.5	2623.5	2702.1	2713.0
67.5°	29812.3	22511.4	3474.7	2158.6	2101.9	2599.5	3138.6	2911.6	2525.3	2582.0	2547.1
70°	24096.0	17847.2	2680.2	2040.7	2008.0	2590.8	3256.5	2874.5	2418.3	2431.4	2337.6
72.5°	16616.2	12170.2	2180.4	1931.6	1872.7	2361.6	3173.5	2782.8	2328.8	2228.4	2104.0
75°	9036.0	6532.5	1853.0	1818.1	1634.8	2073.5	3020.7	2717.3	2248.1	2114.9	2045.1
77.5°	3555.5	2710.8	1608.6	1663.1	1429.6	1831.2	2850.5	2592.9	2136.8	1962.2	1927.2
80°	1451.4	1383.8	1333.6	1438.3	1228.8	1602.0	2645.3	2446.7	2003.6	1820.3	1750.5
82.5°	822.8	859.9	1036.7	1135.0	997.5	1475.4	2547.1	2328.8	1844.3	1630.4	1547.5
85°	421.2	504.2	722.4	814.1	733.4	1255.0	2346.3	2038.6	1479.8	1248.5	1255.0
87.5°	203.0	281.6	456.2	510.7	475.8	908.0	1752.6	1477.6	1152.4	912.3	884.0
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)