

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: P318964

Luminaire Tested: **GAN-SA0B-727-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318964
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-SA0B-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46973 lumens
Efficiency: N/A
Efficacy: 112.1 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): 419
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

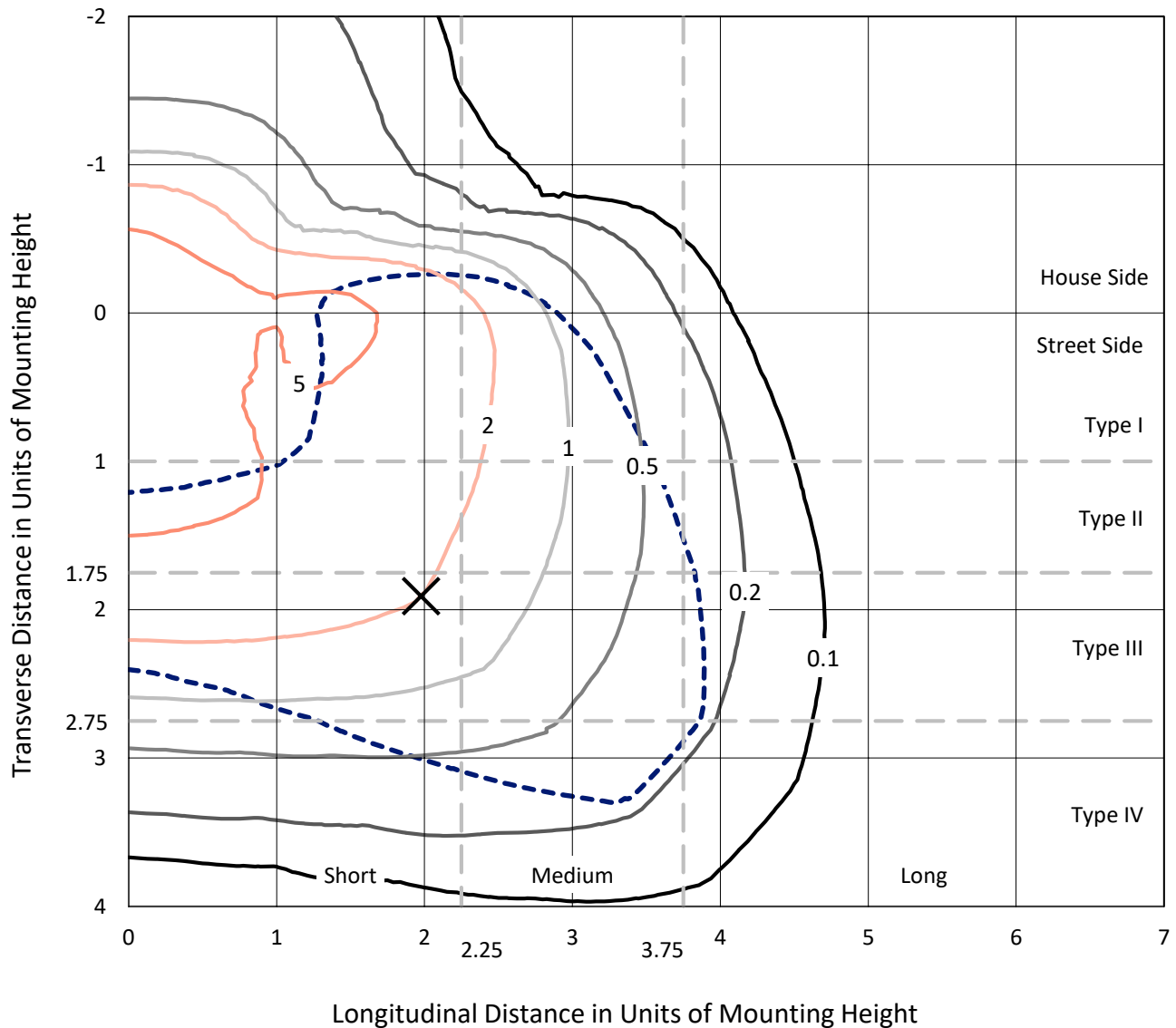


REPORT NUMBER: P318964

CATALOG NUMBER: GAN-SA0B-727-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

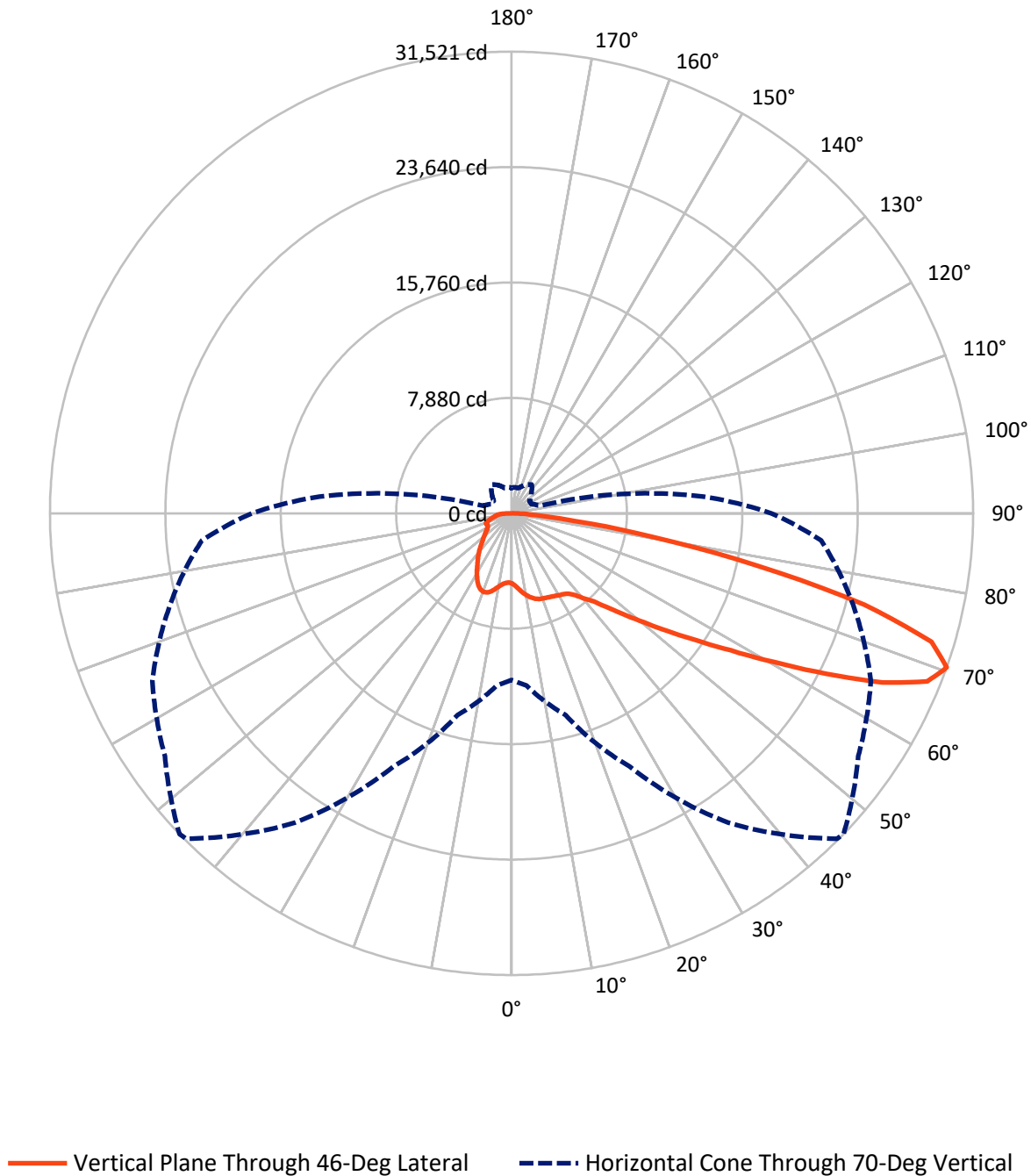
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
Type IV - Short - N/A

REPORT NUMBER: P318964
CATALOG NUMBER: GAN-SA0B-727-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P318964

CATALOG NUMBER: GAN-SA0B-727-U-T4W

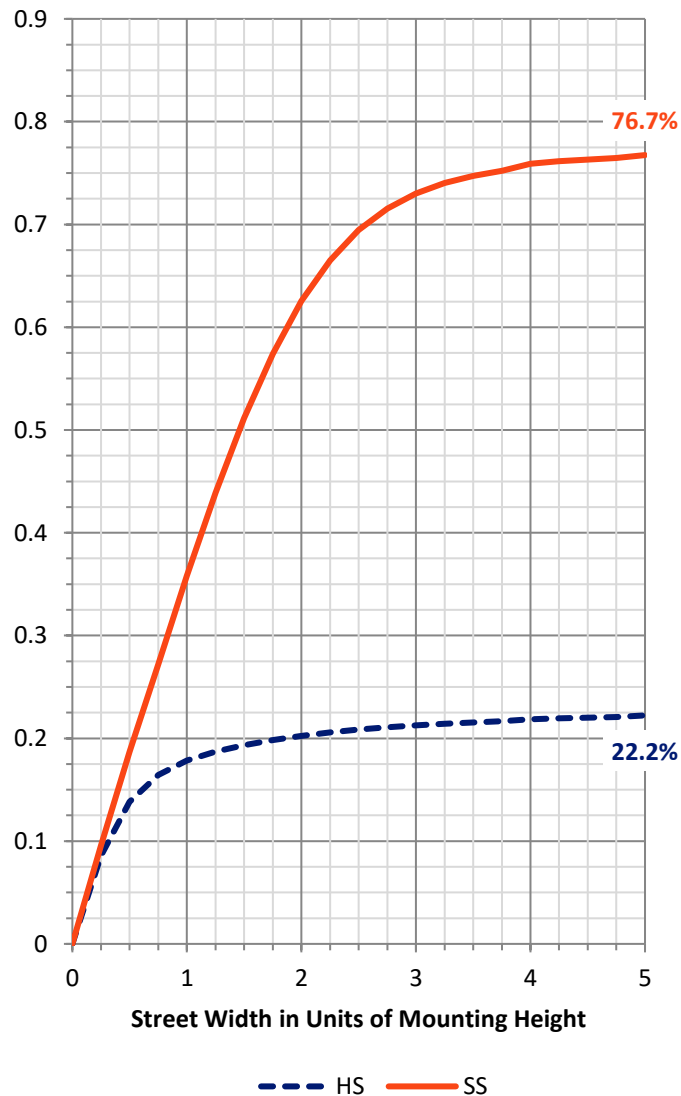
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10766.1	0.0	10766.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	36206.9	0.0	36206.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	46973.0	0.0	46973.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.9	1.0
10°-20°	1625.4	3.5
20°-30°	2710.2	5.8
30°-40°	3845.9	8.2
40°-50°	5657.1	12.0
50°-60°	9580.3	20.4
60°-70°	13599.1	29.0
70°-80°	8261.5	17.6
80°-90°	1205.7	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°	46973.0	100.0
0°-180°	46973.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318964

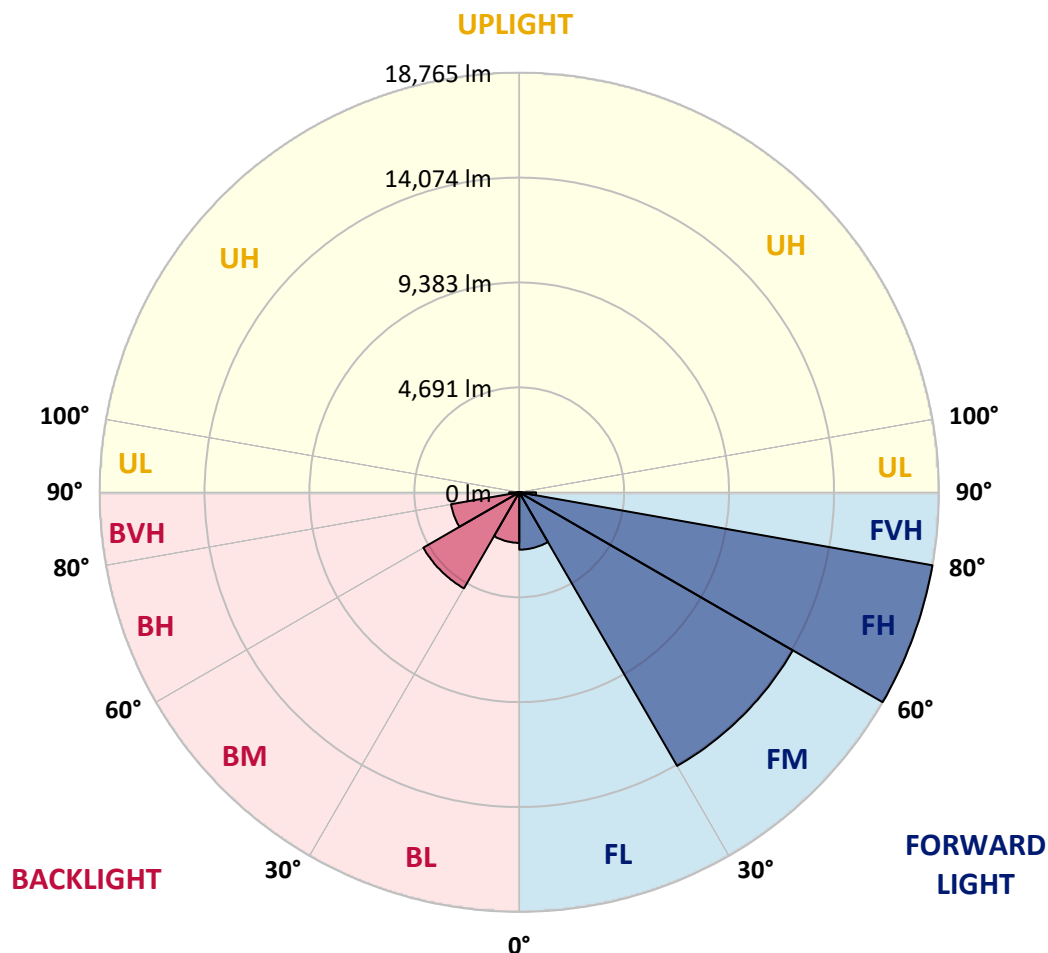
CATALOG NUMBER: GAN-SA0B-727-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2563.1	5.5			
FM	(30°-60°)	14127.4	30.1			
FH	(60°-80°)	18765.4	39.9			G5
FVH	(80°-90°)	751.0	1.6			G5
BL	(0°-30°)	2260.4	4.8	B3/2500		
BM	(30°-60°)	4955.9	10.6	B3/5000		
BH	(60°-80°)	3095.2	6.6	B4/5000		G4/5000
BVH	(80°-90°)	454.6	1.0			G3/500
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: P318964

CATALOG NUMBER: GAN-SA0B-727-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4785.6	4785.6	4785.6	4785.6	4785.6	4785.6	4785.6	4785.6	4785.6	4785.6	4785.6
2.5°	5025.2	5028.4	5034.8	5018.7	4973.7	4960.9	4956.0	4909.4	4878.9	4833.9	4795.3
5°	5427.0	5430.3	5420.6	5375.6	5275.9	5202.0	5195.6	5089.5	4993.0	4890.1	4813.0
7.5°	5846.6	5851.4	5820.9	5735.7	5595.8	5467.2	5459.2	5314.5	5168.2	5012.3	4896.5
10°	6217.9	6198.7	6148.8	6029.9	5864.3	5706.7	5700.3	5549.2	5380.4	5192.3	5038.0
12.5°	6465.5	6449.4	6385.1	6240.4	6058.8	5914.1	5901.3	5761.4	5597.4	5391.7	5206.8
15°	6602.1	6613.4	6526.6	6362.6	6185.8	6063.6	6052.4	5952.7	5806.4	5599.0	5386.8
17.5°	6619.8	6629.5	6545.9	6383.5	6238.8	6155.2	6150.4	6084.5	5978.4	5779.1	5557.2
20°	6516.9	6523.4	6454.2	6320.8	6226.0	6200.3	6198.7	6169.7	6090.9	5914.1	5698.7
22.5°	6367.4	6372.3	6322.4	6226.0	6193.8	6234.0	6245.3	6234.0	6177.8	6012.2	5809.6
25°	6330.5	6327.3	6275.8	6177.8	6205.1	6290.3	6304.7	6309.6	6271.0	6126.3	5951.1
27.5°	6508.9	6497.7	6399.6	6242.1	6259.7	6362.6	6381.9	6428.5	6404.4	6277.4	6111.8
30°	7024.9	7005.6	6804.7	6486.4	6399.6	6452.6	6476.8	6550.7	6555.5	6449.4	6325.6
32.5°	7896.2	7872.1	7512.0	6942.9	6635.9	6544.3	6566.8	6677.7	6737.2	6655.2	6521.8
35°	8997.4	8970.0	8497.4	7719.4	7031.4	6719.5	6735.6	6824.0	6942.9	6827.2	6650.4
37.5°	10145.1	10079.2	9624.3	8632.5	7659.9	7094.0	7094.0	7105.3	7161.6	6920.4	6801.5
40°	11286.5	11220.6	10809.1	9706.3	8473.3	7684.0	7647.0	7397.9	7352.9	7145.5	7105.3
42.5°	12347.5	12328.2	12085.4	10920.0	9428.2	8264.3	8212.9	7790.1	7799.8	7671.2	7672.8
45°	13476.0	13476.0	13278.2	12144.9	10540.6	9196.7	9145.3	8523.1	8619.6	8560.1	8703.2
47.5°	14397.1	14426.0	14398.7	13421.3	11834.7	10381.5	10288.2	9539.1	9809.2	10013.3	10429.7
50°	15337.5	15382.5	15387.3	14821.5	13398.8	11789.7	11683.6	10887.8	11490.7	12075.8	12894.0
52.5°	16702.3	16803.6	16400.1	16218.4	15315.0	13461.5	13357.0	12622.4	13628.7	14450.1	15859.9
55°	17967.4	17879.0	17591.2	17703.8	17366.2	15364.8	15286.0	14641.4	16011.0	17078.4	18909.4
57.5°	18652.2	18645.8	18935.1	19417.4	19578.2	17711.8	17645.9	17019.0	18697.2	19499.4	21772.4
60°	19456.0	19467.2	20184.2	21278.9	21941.2	20634.3	20605.4	20129.5	21306.3	21759.6	24018.2
62.5°	19568.5	19771.1	21005.6	22889.7	24153.2	24048.7	24113.0	22931.5	23640.4	23563.2	25694.8
65°	18274.4	18541.3	20775.8	23376.8	26352.3	27783.0	27842.5	25749.5	25481.0	25104.9	26294.4
67.5°	15622.0	16017.5	18444.8	22317.4	27077.3	30543.1	30626.7	27934.1	27008.2	25627.3	24850.9
70°	11368.5	11807.3	14250.8	19060.5	25784.8	31425.7	31520.5	28900.2	27066.1	24140.3	21214.6
72.5°	6867.4	7211.4	9225.6	14032.2	21762.8	29818.2	29986.9	27675.3	24711.0	20447.8	15665.4
75°	3015.7	3240.8	4460.9	8085.9	15580.2	24670.8	24881.4	23688.6	20078.1	14860.0	9259.4
77.5°	1284.4	1348.7	1829.4	3512.5	8807.7	16858.2	17147.6	17308.3	13622.2	8085.9	3912.7
80°	800.6	826.3	1035.3	1589.9	4121.7	9468.4	9780.2	10183.7	6764.5	2972.3	1366.4
82.5°	487.1	516.0	688.0	961.3	2146.1	4292.1	4441.6	4726.2	2625.1	1284.4	707.3
85°	292.6	313.5	421.2	607.6	1221.7	1687.9	1686.3	1864.7	1236.2	826.3	372.9
87.5°	139.9	155.9	225.1	315.1	615.7	633.4	593.2	671.9	750.7	541.7	188.1
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: P318964

CATALOG NUMBER: GAN-SA0B-727-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4785.6	4785.6	4785.6	4785.6	4785.6	4785.6	4785.6	4785.6	4785.6	4785.6	4785.6
2.5°	4782.4	4776.0	4755.1	4739.0	4735.8	4726.2	4718.1	4722.9	4729.4	4731.0	4731.0
5°	4780.8	4763.1	4735.8	4724.5	4739.0	4758.3	4782.4	4814.6	4833.9	4848.3	4858.0
7.5°	4858.0	4824.2	4793.7	4787.2	4816.2	4867.6	4922.3	4989.8	5036.4	5068.6	5075.0
10°	4986.6	4944.8	4914.2	4920.7	4972.1	5046.0	5123.2	5210.0	5280.7	5324.2	5327.4
12.5°	5134.5	5094.3	5065.3	5092.7	5177.9	5267.9	5348.3	5423.8	5488.1	5531.5	5531.5
15°	5304.9	5275.9	5242.2	5304.9	5420.6	5501.0	5534.7	5571.7	5607.1	5639.2	5632.8
17.5°	5468.8	5441.5	5423.8	5497.8	5618.3	5655.3	5632.8	5605.5	5605.5	5623.2	5626.4
20°	5610.3	5586.2	5597.4	5669.8	5732.5	5693.9	5610.3	5523.5	5488.1	5497.8	5507.4
22.5°	5734.1	5722.8	5756.6	5790.3	5745.3	5610.3	5456.0	5338.6	5295.2	5292.0	5295.2
25°	5878.8	5877.1	5918.9	5857.9	5658.5	5409.4	5202.0	5087.8	5063.7	5083.0	5115.2
27.5°	6058.8	6076.5	6097.4	5873.9	5481.7	5105.5	4894.9	4816.2	4840.3	4886.9	4917.4
30°	6288.7	6336.9	6291.9	5833.7	5227.7	4758.3	4557.4	4534.9	4600.8	4666.7	4698.8
32.5°	6512.1	6587.7	6478.4	5729.3	4899.8	4390.2	4234.2	4227.8	4308.2	4372.5	4417.5
35°	6692.2	6841.7	6618.2	5521.9	4520.4	4051.0	3936.9	3893.4	3922.4	3997.9	4049.4
37.5°	6926.9	7176.0	6714.7	5205.2	4108.9	3771.3	3637.8	3538.2	3512.5	3543.0	3568.7
40°	7356.1	7685.6	6759.7	4763.1	3707.0	3491.6	3356.5	3210.2	3109.0	3035.0	3036.6
42.5°	8057.0	8349.5	6730.7	4226.2	3335.6	3218.3	3065.6	2896.8	2732.8	2565.6	2552.8
45°	9195.1	9336.6	6643.9	3657.1	3009.3	2932.1	2789.1	2620.3	2401.7	2212.0	2194.3
47.5°	11016.4	10703.0	6508.9	3160.4	2721.6	2689.4	2557.6	2363.1	2131.6	1978.9	1966.0
50°	13500.1	12675.4	6443.0	2765.0	2467.6	2477.2	2369.5	2163.7	1945.1	1832.6	1819.7
52.5°	16470.8	14972.6	6570.0	2459.5	2263.4	2297.2	2216.8	2023.9	1840.6	1752.2	1739.4
55°	19552.4	17351.7	6706.6	2237.7	2070.5	2136.4	2109.1	1949.9	1784.4	1702.4	1691.1
57.5°	22190.4	19128.0	6433.4	2057.6	1898.5	2001.4	2025.5	1903.3	1755.4	1681.5	1668.6
60°	23851.0	19843.4	5716.4	1888.9	1761.9	1893.7	1977.3	1890.5	1766.7	1760.2	1750.6
62.5°	24638.7	19780.7	4641.0	1755.4	1676.7	1847.1	2012.6	1962.8	1895.3	1953.2	1958.0
65°	24285.0	18835.5	3456.2	1667.0	1615.6	1864.7	2118.7	2099.4	1932.3	1990.1	1998.2
67.5°	21957.3	16580.1	2559.2	1589.9	1548.1	1914.6	2311.6	2144.5	1859.9	1901.7	1876.0
70°	17747.2	13144.8	1974.1	1503.0	1478.9	1908.1	2398.4	2117.1	1781.1	1790.8	1721.7
72.5°	12238.2	8963.6	1605.9	1422.7	1379.3	1739.4	2337.4	2049.6	1715.2	1641.3	1549.7
75°	6655.2	4811.3	1364.8	1339.1	1204.0	1527.2	2224.8	2001.4	1655.8	1557.7	1506.3
77.5°	2618.7	1996.6	1184.8	1224.9	1052.9	1348.7	2099.4	1909.8	1573.8	1445.2	1419.5
80°	1069.0	1019.2	982.2	1059.4	905.0	1179.9	1948.3	1802.0	1475.7	1340.7	1289.2
82.5°	606.0	633.4	763.6	835.9	734.6	1086.7	1876.0	1715.2	1358.4	1200.8	1139.7
85°	310.3	371.3	532.1	599.6	540.1	924.3	1728.1	1501.4	1089.9	919.5	924.3
87.5°	149.5	207.4	336.0	376.2	350.4	668.7	1290.8	1088.3	848.8	671.9	651.1
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)