

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: P318973

Luminaire Tested: **GAN-SA9C-727-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318973
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-SA9C-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52512 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

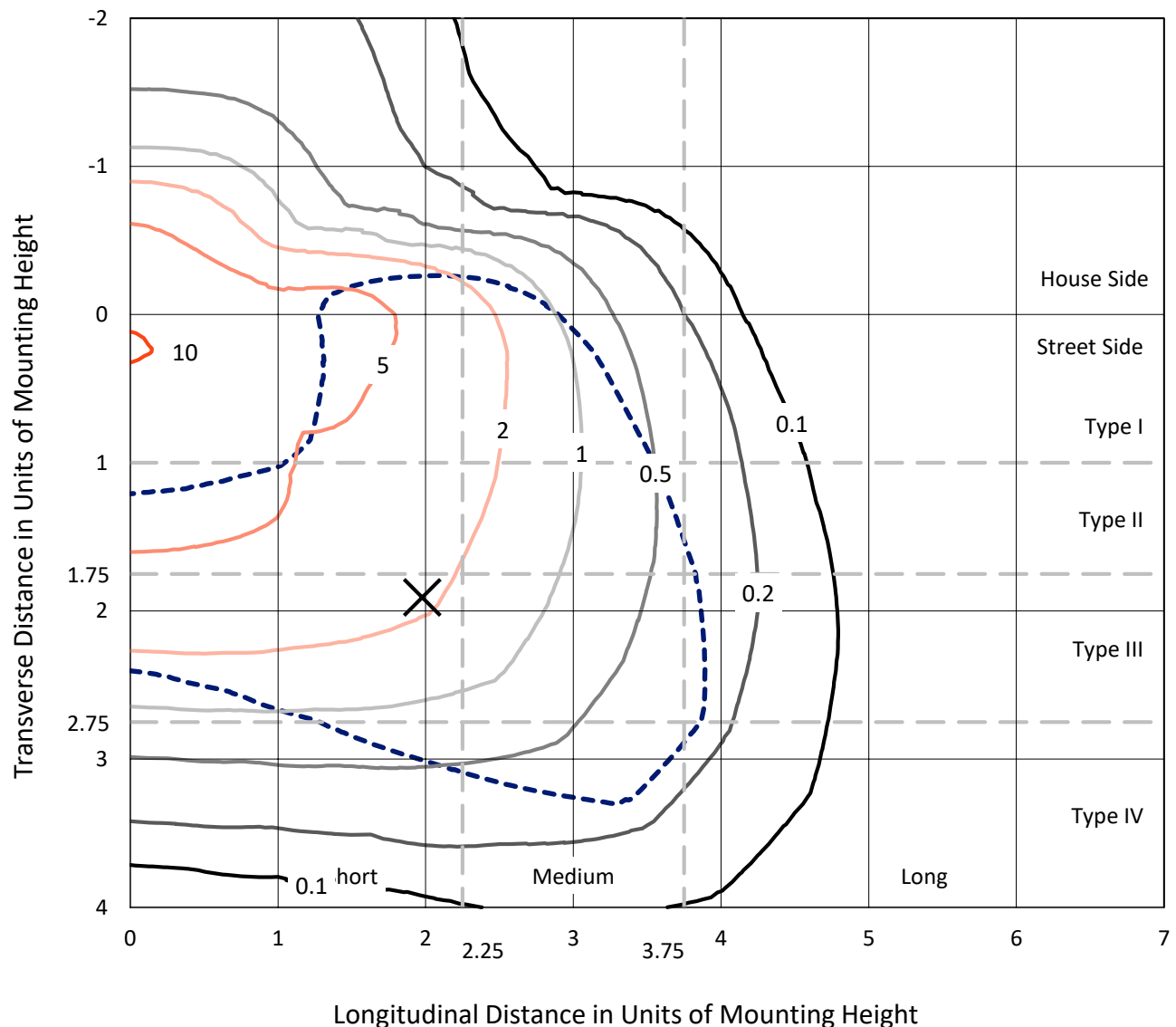
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318973
 CATALOG NUMBER: GAN-SA9C-727-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

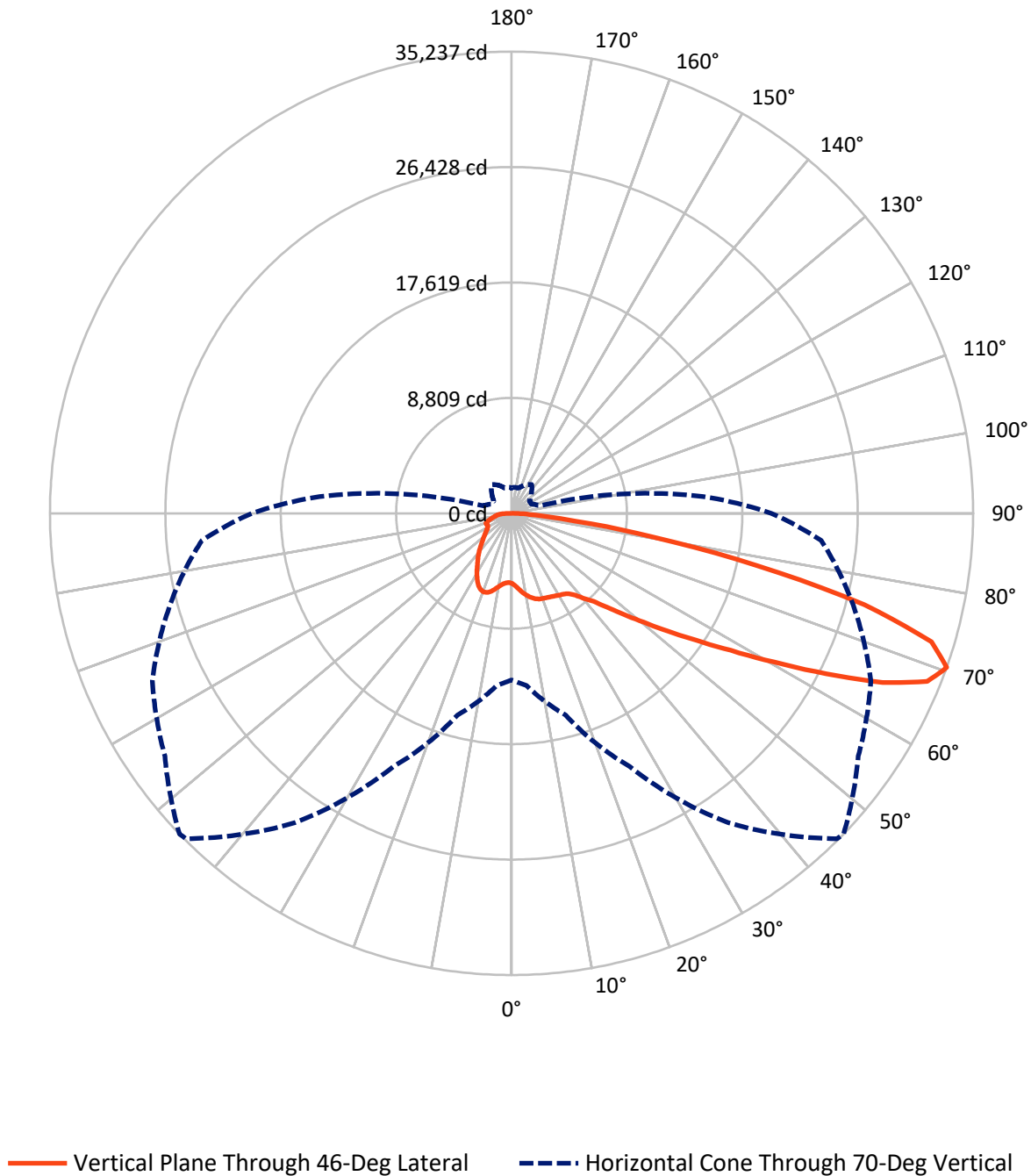
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P318973
CATALOG NUMBER: GAN-SA9C-727-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P318973

CATALOG NUMBER: GAN-SA9C-727-U-T4W

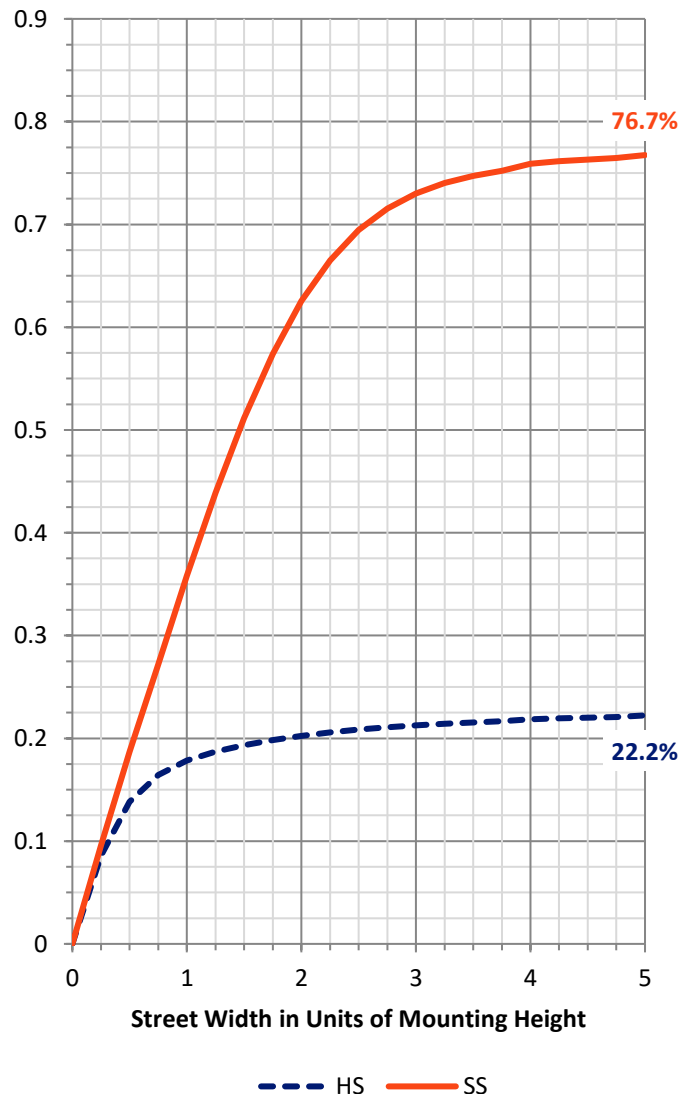
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12035.6	0.0	12035.6
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	40476.4	0.0	40476.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	52512.0	0.0	52512.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	545.4	1.0
10°-20°	1817.1	3.5
20°-30°	3029.7	5.8
30°-40°	4299.4	8.2
40°-50°	6324.2	12.0
50°-60°	10710.0	20.4
60°-70°	15202.6	29.0
70°-80°	9235.7	17.6
80°-90°	1347.8	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°	52512.0	100.0
0°-180°	52512.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318973

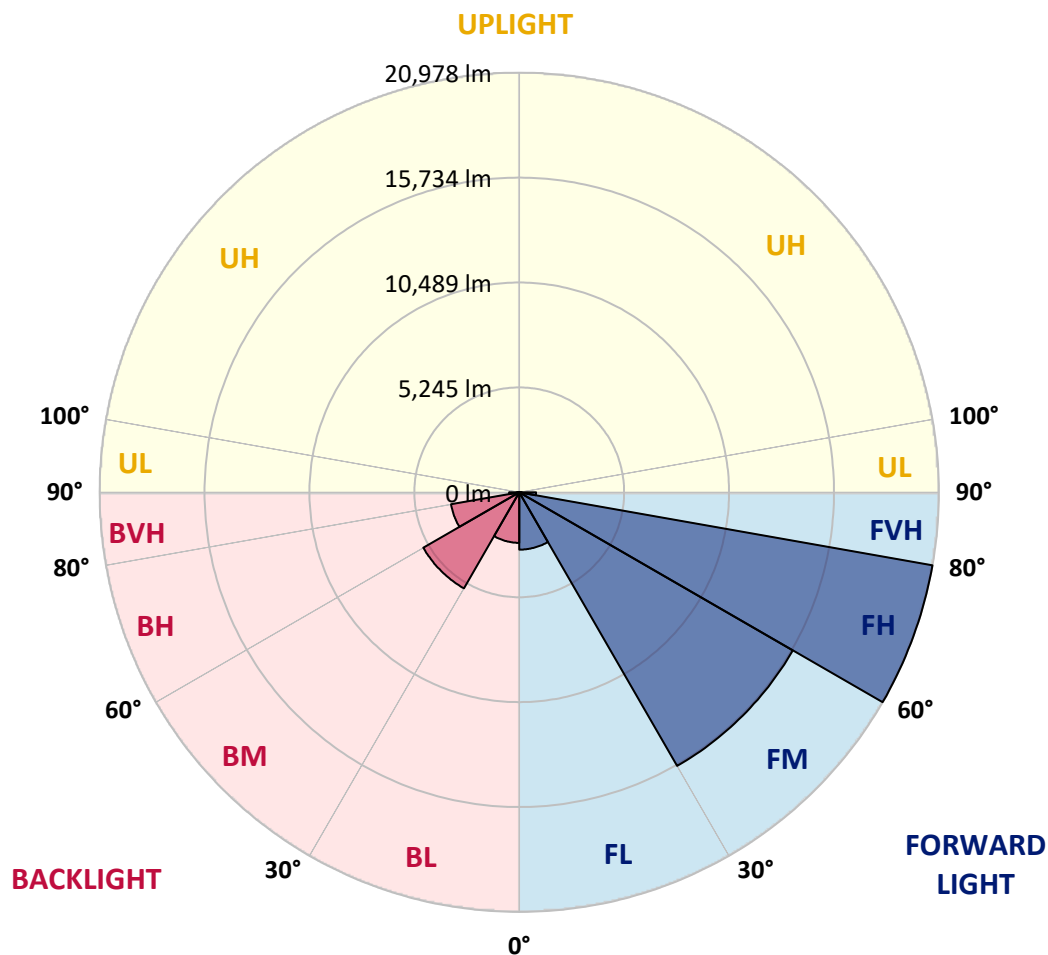
CATALOG NUMBER: GAN-SA9C-727-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2865.3	5.5			
FM	(30°-60°)	15793.3	30.1			
FH	(60°-80°)	20978.2	39.9			G5
FVH	(80°-90°)	839.6	1.6			G5
BL	(0°-30°)	2526.9	4.8	B4/5000		
BM	(30°-60°)	5540.3	10.6	B4/8500		
BH	(60°-80°)	3460.1	6.6	B4/5000		G4/5000
BVH	(80°-90°)	508.2	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: P318973

CATALOG NUMBER: GAN-SA9C-727-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	5349.9	5349.9	5349.9	5349.9	5349.9	5349.9	5349.9	5349.9	5349.9	5349.9	5349.9
2.5°	5617.7	5621.3	5628.5	5610.5	5560.2	5545.8	5540.4	5488.3	5454.2	5403.9	5360.7
5°	6067.0	6070.6	6059.8	6009.5	5898.1	5815.4	5808.2	5689.6	5581.8	5466.8	5380.5
7.5°	6536.0	6541.4	6507.3	6412.0	6255.7	6111.9	6102.9	5941.2	5777.7	5603.3	5473.9
10°	6951.2	6929.6	6873.9	6740.9	6555.8	6379.7	6372.5	6203.6	6014.9	5804.6	5632.1
12.5°	7227.9	7209.9	7138.1	6976.3	6773.2	6611.5	6597.1	6440.8	6257.5	6027.4	5820.8
15°	7380.7	7393.2	7296.2	7112.9	6915.2	6778.6	6766.1	6654.6	6491.1	6259.3	6022.1
17.5°	7400.4	7411.2	7317.8	7136.3	6974.5	6881.1	6875.7	6802.0	6683.4	6460.5	6212.5
20°	7285.4	7292.6	7215.3	7066.2	6960.1	6931.4	6929.6	6897.2	6809.2	6611.5	6370.7
22.5°	7118.3	7123.7	7068.0	6960.1	6924.2	6969.1	6981.7	6969.1	6906.2	6721.1	6494.7
25°	7077.0	7073.4	7015.8	6906.2	6936.8	7032.0	7048.2	7053.6	7010.5	6848.7	6652.8
27.5°	7276.4	7263.8	7154.2	6978.1	6997.9	7112.9	7134.5	7186.6	7159.6	7017.6	6832.5
30°	7853.3	7831.7	7607.1	7251.3	7154.2	7213.5	7240.5	7323.2	7328.5	7209.9	7071.6
32.5°	8827.3	8800.4	8397.8	7761.6	7418.4	7316.0	7341.1	7465.1	7531.6	7440.0	7290.8
35°	10058.3	10027.8	9499.4	8629.6	7860.5	7511.8	7529.8	7628.7	7761.6	7632.3	7434.6
37.5°	11341.5	11267.8	10759.2	9650.4	8563.1	7930.6	7930.6	7943.1	8006.0	7736.5	7603.5
40°	12617.4	12543.7	12083.7	10850.8	9472.5	8590.1	8548.8	8270.2	8219.9	7988.1	7943.1
42.5°	13803.5	13781.9	13510.5	12207.7	10539.9	9238.9	9181.3	8708.7	8719.5	8575.7	8577.5
45°	15065.0	15065.0	14844.0	13577.0	11783.5	10281.2	10223.7	9528.2	9636.0	9569.5	9729.5
47.5°	16094.8	16127.1	16096.6	15003.9	13230.2	11605.6	11501.4	10663.9	10965.9	11194.1	11659.5
50°	17146.1	17196.4	17201.8	16569.2	14978.8	13179.9	13061.3	12171.7	12845.6	13499.8	14414.5
52.5°	18671.8	18785.0	18333.9	18130.9	17120.9	15048.9	14932.0	14110.8	15235.8	16154.1	17730.1
55°	20086.1	19987.3	19665.6	19791.4	19414.0	17176.6	17088.6	16367.9	17899.0	19092.3	21139.2
57.5°	20851.7	20844.5	21168.0	21707.1	21886.8	19800.4	19726.7	19025.8	20902.0	21798.7	24339.8
60°	21750.2	21762.8	22564.3	23788.1	24528.5	23067.5	23035.1	22503.2	23818.7	24325.4	26850.4
62.5°	21876.0	22102.4	23482.6	25588.8	27001.3	26884.5	26956.4	25635.5	26428.0	26341.8	28724.7
65°	20429.3	20727.7	23225.6	26133.3	29459.7	31059.2	31125.6	28785.8	28485.7	28065.2	29395.0
67.5°	17464.1	17906.2	20619.8	24949.0	30270.2	34144.8	34238.2	31228.1	30193.0	28649.3	27781.3
70°	12709.0	13199.6	15931.2	21308.1	28825.4	35131.4	35237.4	32308.1	30257.6	26986.9	23716.2
72.5°	7677.2	8061.8	10313.5	15686.8	24329.0	33334.3	33523.0	30938.7	27624.9	22859.0	17512.7
75°	3371.3	3622.9	4986.9	9039.4	17417.4	27580.0	27815.4	26482.0	22445.7	16612.3	10351.3
77.5°	1435.9	1507.8	2045.1	3926.6	9846.3	18846.1	19169.6	19349.3	15228.6	9039.4	4374.1
80°	895.0	923.7	1157.3	1777.3	4607.7	10584.9	10933.5	11384.6	7562.2	3322.8	1527.5
82.5°	544.5	576.9	769.2	1074.7	2399.1	4798.2	4965.4	5283.5	2934.7	1435.9	790.7
85°	327.1	350.4	470.8	679.3	1365.8	1886.9	1885.2	2084.6	1382.0	923.7	416.9
87.5°	156.3	174.3	251.6	352.2	688.3	708.1	663.1	751.2	839.2	605.6	210.3
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: P318973

CATALOG NUMBER: GAN-SA9C-727-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5349.9	5349.9	5349.9	5349.9	5349.9	5349.9	5349.9	5349.9	5349.9	5349.9	5349.9
2.5°	5346.4	5339.2	5315.8	5297.8	5294.2	5283.5	5274.5	5279.9	5287.0	5288.8	5288.8
5°	5344.6	5324.8	5294.2	5281.7	5297.8	5319.4	5346.4	5382.3	5403.9	5420.0	5430.8
7.5°	5430.8	5393.1	5358.9	5351.7	5384.1	5441.6	5502.7	5578.2	5630.3	5666.2	5673.4
10°	5574.6	5527.9	5493.7	5500.9	5558.4	5641.1	5727.3	5824.4	5903.4	5952.0	5955.6
12.5°	5739.9	5695.0	5662.6	5693.2	5788.4	5889.1	5978.9	6063.4	6135.3	6183.8	6183.8
15°	5930.4	5898.1	5860.3	5930.4	6059.8	6149.7	6187.4	6228.7	6268.3	6304.2	6297.0
17.5°	6113.7	6083.2	6063.4	6146.1	6280.8	6322.2	6297.0	6266.5	6266.5	6286.2	6289.8
20°	6271.9	6244.9	6257.5	6338.3	6408.4	6365.3	6271.9	6174.8	6135.3	6146.1	6156.8
22.5°	6410.2	6397.7	6435.4	6473.1	6422.8	6271.9	6099.3	5968.1	5919.6	5916.0	5919.6
25°	6572.0	6570.2	6616.9	6548.6	6325.8	6047.2	5815.4	5687.8	5660.8	5682.4	5718.3
27.5°	6773.2	6793.0	6816.4	6566.6	6128.1	5707.6	5472.1	5384.1	5411.0	5463.2	5497.3
30°	7030.2	7084.1	7033.8	6521.6	5844.1	5319.4	5094.8	5069.6	5143.3	5217.0	5252.9
32.5°	7280.0	7364.5	7242.3	6404.8	5477.5	4907.9	4733.5	4726.4	4816.2	4888.1	4938.4
35°	7481.3	7648.4	7398.6	6173.0	5053.4	4528.7	4401.1	4352.6	4384.9	4469.4	4526.9
37.5°	7743.7	8022.2	7506.5	5819.0	4593.4	4216.0	4066.8	3955.4	3926.6	3960.8	3989.5
40°	8223.5	8591.9	7556.8	5324.8	4144.1	3903.3	3752.3	3588.8	3475.6	3392.9	3394.7
42.5°	9007.0	9334.1	7524.4	4724.6	3729.0	3597.8	3427.1	3238.4	3055.1	2868.2	2853.8
45°	10279.4	10437.5	7427.4	4088.4	3364.2	3277.9	3118.0	2929.3	2684.9	2472.8	2453.0
47.5°	12315.5	11965.0	7276.4	3533.1	3042.5	3006.5	2859.2	2641.7	2382.9	2212.2	2197.8
50°	15092.0	14170.1	7202.7	3091.0	2758.5	2769.3	2648.9	2418.9	2174.5	2048.7	2034.3
52.5°	18413.0	16738.1	7344.7	2749.6	2530.3	2568.0	2478.2	2262.5	2057.7	1958.8	1944.5
55°	21858.0	19397.8	7497.5	2501.6	2314.7	2388.3	2357.8	2179.9	1994.8	1903.1	1890.5
57.5°	24807.1	21383.6	7192.0	2300.3	2122.4	2237.4	2264.3	2127.8	1962.4	1879.8	1865.4
60°	26663.5	22183.3	6390.5	2111.6	1969.6	2117.0	2210.4	2113.4	1975.0	1967.8	1957.0
62.5°	27544.0	22113.2	5188.2	1962.4	1874.4	2064.9	2250.0	2194.3	2118.8	2183.5	2188.9
65°	27148.7	21056.5	3863.7	1863.6	1806.1	2084.6	2368.6	2347.0	2160.1	2224.8	2233.8
67.5°	24546.5	18535.2	2861.0	1777.3	1730.6	2140.3	2584.2	2397.3	2079.2	2126.0	2097.2
70°	19839.9	14694.8	2206.8	1680.3	1653.3	2133.1	2681.3	2366.8	1991.2	2002.0	1924.7
72.5°	13681.3	10020.6	1795.3	1590.4	1541.9	1944.5	2613.0	2291.3	1917.5	1834.8	1732.4
75°	7440.0	5378.7	1525.7	1497.0	1346.0	1707.2	2487.2	2237.4	1851.0	1741.4	1683.9
77.5°	2927.5	2232.0	1324.5	1369.4	1177.1	1507.8	2347.0	2134.9	1759.4	1615.6	1586.8
80°	1195.1	1139.4	1098.0	1184.3	1011.8	1319.1	2178.1	2014.5	1649.7	1498.8	1441.3
82.5°	677.5	708.1	853.6	934.5	821.3	1214.8	2097.2	1917.5	1518.5	1342.4	1274.1
85°	346.8	415.1	594.8	670.3	603.8	1033.3	1931.9	1678.5	1218.4	1027.9	1033.3
87.5°	167.1	231.8	375.6	420.5	391.8	747.6	1443.1	1216.6	948.9	751.2	727.8
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)