

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: P323699

Luminaire Tested: **GAN-SA5D-830-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323699
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5D-830-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26327 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

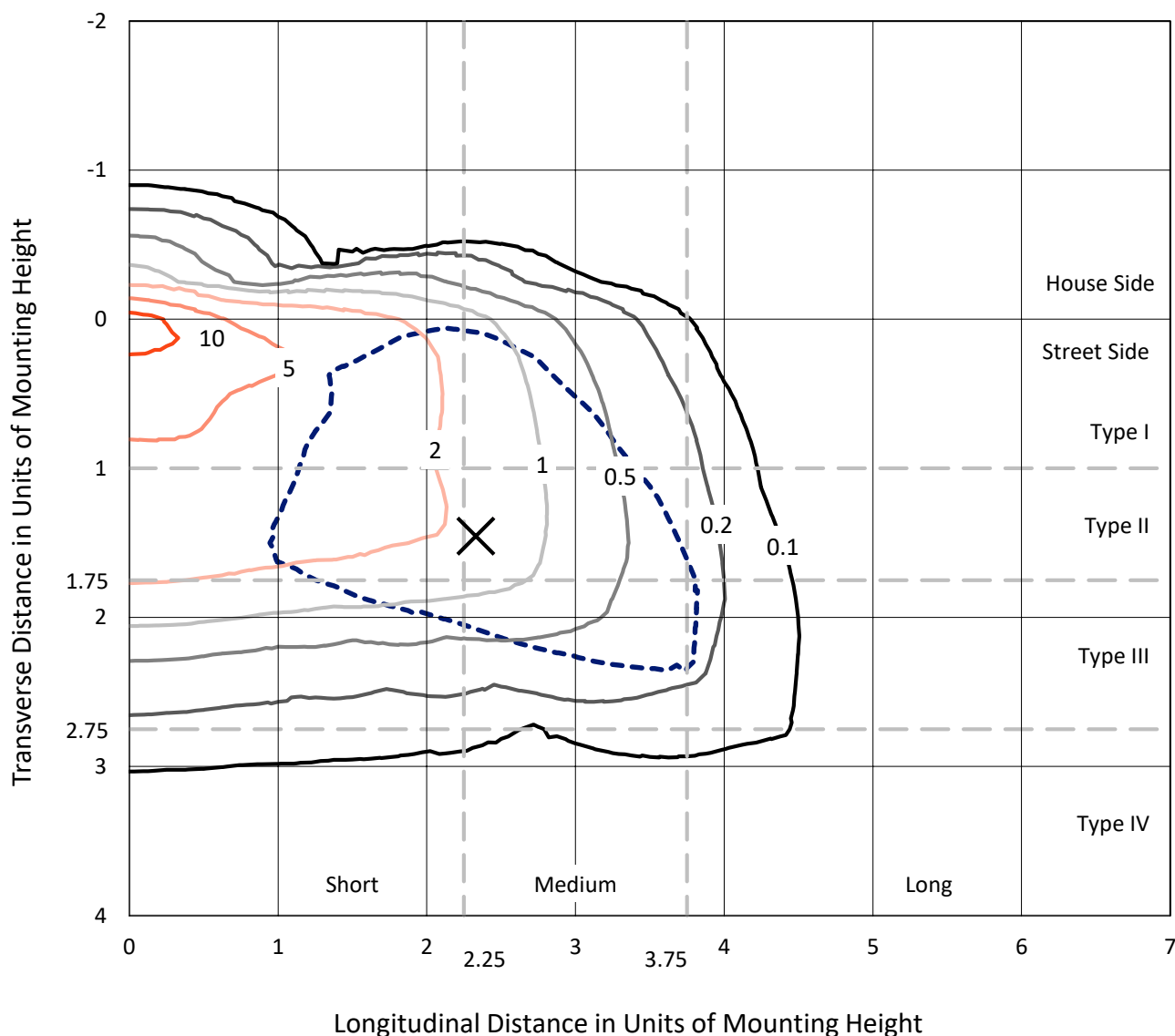
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323699
 CATALOG NUMBER: GAN-SA5D-830-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

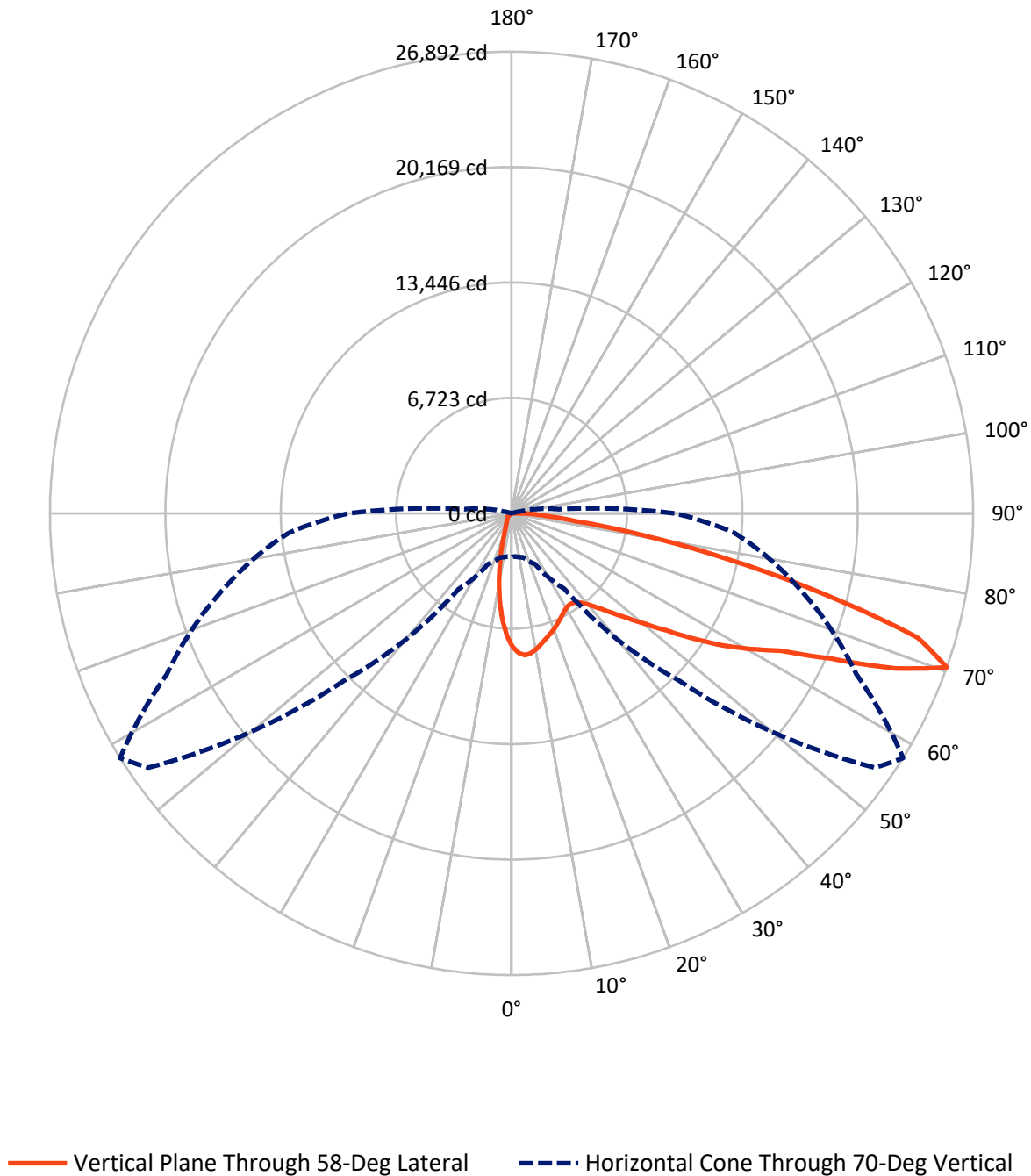
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type III - Medium - N/A

REPORT NUMBER: P323699
CATALOG NUMBER: GAN-SA5D-830-U-SL3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P323699

CATALOG NUMBER: GAN-SA5D-830-U-SL3-HSS

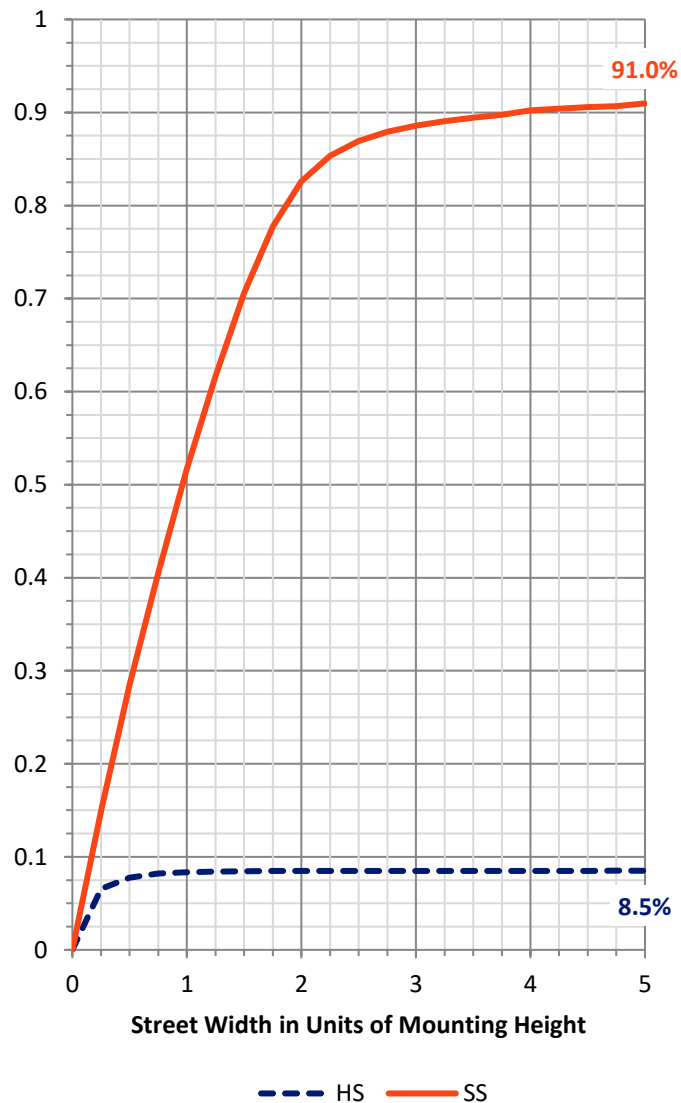
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2253.0	0.0	2253.0
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	24074.0	0.0	24074.0
	% Fixture	91.4	0.0	91.4
Total	Lumens	26327.0	0.0	26327.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	635.9	2.4
10°-20°	1334.7	5.1
20°-30°	1754.7	6.7
30°-40°	2323.9	8.8
40°-50°	3473.5	13.2
50°-60°	5564.4	21.1
60°-70°	7013.9	26.6
70°-80°	3783.2	14.4
80°-90°	442.8	1.7
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°	26327.0	100.0
0°-180°	26327.0	100.0

Coefficient of Utilization



REPORT NUMBER: P323699

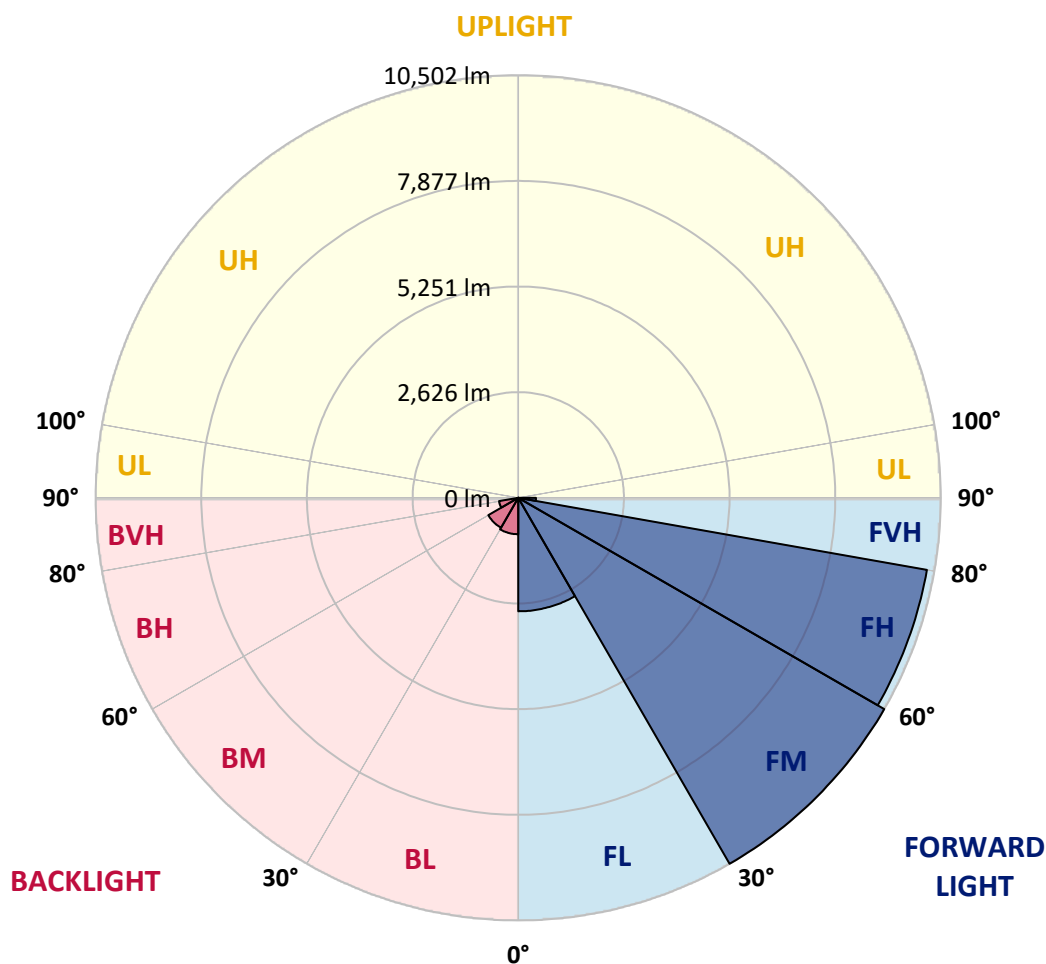
CATALOG NUMBER: GAN-SA5D-830-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2820.2	10.7			
FM	(30°-60°)	10502.2	39.9			
FH	(60°-80°)	10312.6	39.2			G4/12000
FVH	(80°-90°)	439.0	1.7			G3/500
BL	(0°-30°)	905.2	3.4	B2/1000		
BM	(30°-60°)	859.5	3.3	B1/1000		
BH	(60°-80°)	484.5	1.8	B1/500		G1/500
BVH	(80°-90°)	3.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium





REPORT NUMBER: P323699

CATALOG NUMBER: GAN-SA5D-830-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7776.9	7776.9	7776.9	7776.9	7776.9	7776.9	7776.9	7776.9	7776.9	7776.9	7776.9
2.5°	8421.7	8400.9	8393.2	8380.1	8329.7	8280.4	8183.0	8155.6	8094.3	7948.7	7794.4
5°	8428.2	8427.1	8450.1	8444.6	8427.1	8404.1	8334.1	8298.0	8194.0	7986.0	7703.5
7.5°	8022.1	8042.9	8094.3	8135.9	8184.1	8246.5	8255.3	8220.2	8134.8	7910.4	7536.0
10°	7476.9	7509.8	7582.0	7664.1	7790.0	7914.8	8026.5	8022.1	7992.5	7771.4	7334.6
12.5°	6930.7	6969.0	7052.2	7173.7	7352.1	7555.7	7755.0	7782.3	7831.6	7646.6	7148.5
15°	6452.3	6485.1	6567.2	6716.1	6937.2	7210.9	7503.2	7553.5	7680.5	7549.2	6993.1
17.5°	6046.1	6066.9	6127.1	6292.4	6548.6	6880.3	7260.2	7358.7	7548.1	7472.5	6858.4
20°	5762.6	5765.9	5805.3	5921.3	6177.5	6548.6	7008.4	7149.6	7408.0	7406.9	6719.4
22.5°	5622.5	5611.5	5619.2	5686.0	5874.3	6232.2	6756.6	6924.1	7282.1	7351.0	6578.2
25°	5596.2	5587.4	5565.5	5574.3	5688.2	5955.3	6502.6	6696.4	7171.5	7317.1	6455.5
27.5°	5678.3	5687.1	5649.8	5610.4	5619.2	5775.7	6277.1	6501.5	7081.7	7317.1	6369.1
30°	5843.6	5848.0	5820.6	5769.2	5700.2	5725.4	6120.6	6345.0	7036.8	7367.4	6314.3
32.5°	6026.4	6050.5	6047.2	6005.6	5907.1	5805.3	6083.3	6288.1	7033.6	7479.1	6308.9
35°	6253.0	6280.4	6326.4	6317.6	6214.7	6047.2	6210.3	6371.3	7098.1	7663.0	6368.0
37.5°	6493.9	6535.5	6634.0	6681.1	6614.3	6424.9	6495.0	6609.9	7271.1	7960.8	6517.9
40°	6727.0	6774.1	6953.6	7138.7	7088.3	6893.4	6926.3	7018.2	7578.7	8388.8	6802.6
42.5°	6955.8	7025.9	7289.7	7594.1	7654.3	7498.8	7516.3	7589.7	8035.2	8977.8	7267.8
45°	7229.5	7308.3	7699.1	8074.6	8235.6	8167.7	8242.1	8290.3	8631.8	9756.1	7895.1
47.5°	7631.3	7722.1	8201.6	8629.7	8912.1	8955.9	9105.9	9137.6	9386.1	10662.5	8712.9
50°	8415.1	8440.3	8873.8	9262.4	9669.6	9932.4	10103.1	10127.2	10299.1	11653.3	9734.2
52.5°	9401.4	9417.9	9663.1	9923.6	10386.7	10923.1	11322.7	11356.6	11392.7	12618.8	10742.5
55°	10381.2	10379.0	10541.0	10694.3	11224.1	12003.6	12870.6	12891.4	12631.9	13535.1	11513.1
57.5°	10993.2	11052.3	11298.6	11495.6	12235.7	13235.1	14438.2	14514.9	13933.6	14213.8	12275.1
60°	10798.3	10826.8	11373.0	12102.1	13495.7	14985.6	16024.5	16044.2	14912.2	14891.4	13238.4
62.5°	9200.0	9215.3	10073.6	11576.6	14133.9	17256.0	17938.0	17617.3	16037.6	15831.8	14391.2
65°	6305.6	6405.2	7122.2	8980.0	12961.5	18680.3	20900.3	20369.4	17753.0	17187.1	15433.3
67.5°	3713.3	3692.5	4047.2	5415.6	9519.7	17734.4	24647.6	24119.9	20092.4	18094.6	15127.9
70°	2536.5	2522.2	2658.0	3278.7	5374.0	13757.3	25826.6	26891.7	22158.2	17483.7	13019.5
72.5°	1810.7	1818.3	2018.7	2547.4	3373.9	8015.5	22209.6	24730.8	21511.2	15241.7	9896.2
75°	1229.4	1250.2	1537.0	2089.8	2957.9	4077.8	15760.6	18799.6	17516.6	11077.4	5688.2
77.5°	661.2	684.2	1022.5	1683.7	2674.4	2833.1	10138.2	12938.5	11003.0	4979.9	1648.6
80°	275.9	289.0	478.4	1223.9	2310.9	2488.3	5965.1	7845.8	4688.7	982.0	367.8
82.5°	119.3	125.9	199.2	730.2	1727.5	2100.8	3158.3	3774.6	1420.9	215.7	185.0
85°	23.0	24.1	82.1	386.4	1102.4	1185.6	2047.1	2006.6	638.2	93.1	134.7
87.5°	0.0	0.0	19.7	121.5	324.0	645.9	1249.1	1233.7	216.8	44.9	50.4
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: P323699

CATALOG NUMBER: GAN-SA5D-830-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7776.9	7776.9	7776.9	7776.9	7776.9	7776.9	7776.9	7776.9	7776.9	7776.9	7776.9
2.5°	7715.6	7640.0	7481.3	7285.3	7135.4	6970.1	6838.7	6672.3	6600.1	6603.3	6563.9
5°	7542.6	7387.2	7035.7	6592.4	6250.8	5898.3	5595.1	5293.0	5114.5	5056.5	5001.8
7.5°	7295.2	7048.9	6488.4	5805.3	5227.3	4662.4	4170.9	3738.5	3464.8	3331.2	3282.0
10°	7016.0	6670.1	5858.9	4959.1	4133.7	3369.5	2732.4	2178.5	1957.4	1807.4	1769.1
12.5°	6770.8	6302.3	5243.7	4091.0	3111.2	2189.4	1581.9	1237.0	1087.1	1027.9	1018.1
15°	6539.8	5958.5	4651.5	3305.0	2154.4	1347.6	1006.0	888.9	853.9	844.0	844.0
17.5°	6322.0	5631.2	4072.3	2531.0	1425.3	944.7	833.1	806.8	795.9	794.8	795.9
20°	6094.3	5303.9	3503.1	1854.5	995.1	800.2	769.6	755.4	752.1	752.1	752.1
22.5°	5876.4	4976.6	2949.2	1324.6	798.0	730.2	714.9	705.0	701.7	700.6	698.4
25°	5667.4	4665.7	2408.4	936.0	700.6	668.9	655.7	642.6	632.7	627.3	624.0
27.5°	5495.5	4388.7	1904.8	751.0	632.7	605.4	589.0	569.3	545.2	534.2	529.8
30°	5358.6	4135.8	1468.0	633.8	569.3	541.9	516.7	482.8	447.7	429.1	428.0
32.5°	5251.4	3887.3	1114.4	560.5	512.3	478.4	442.3	399.6	359.1	338.3	337.2
35°	5198.8	3668.4	851.7	506.9	462.0	419.3	374.4	327.3	287.9	268.2	266.0
37.5°	5233.8	3483.4	664.5	462.0	419.3	370.0	317.5	268.2	233.2	215.7	214.6
40°	5361.9	3365.2	539.7	423.7	383.2	322.9	266.0	220.0	190.5	176.2	175.2
42.5°	5634.5	3321.4	460.9	391.9	348.1	279.2	221.1	181.7	154.4	144.5	142.3
45°	6089.9	3386.0	407.2	361.3	312.0	237.6	182.8	148.9	124.8	117.1	116.0
47.5°	6696.4	3555.6	368.9	331.7	279.2	200.3	152.2	120.4	101.8	94.1	93.1
50°	7478.0	3824.9	337.2	302.1	248.5	169.7	125.9	95.2	78.8	73.3	73.3
52.5°	8328.6	4145.7	308.7	274.8	217.8	141.2	101.8	73.3	62.4	55.8	55.8
55°	9031.4	4425.9	278.1	254.0	180.6	117.1	77.7	55.8	46.0	42.7	42.7
57.5°	9733.1	4724.8	243.0	217.8	144.5	95.2	59.1	41.6	33.9	31.7	31.7
60°	10642.8	5090.4	209.1	177.3	113.9	72.3	43.8	29.6	25.2	24.1	24.1
62.5°	11643.4	5305.0	178.4	142.3	88.7	53.6	31.7	19.7	18.6	18.6	17.5
65°	12255.4	5001.8	150.0	113.9	69.0	40.5	20.8	14.2	16.4	15.3	13.1
67.5°	11474.8	3915.8	122.6	88.7	53.6	30.7	13.1	9.9	17.5	14.2	10.9
70°	9501.1	2741.2	95.2	62.4	42.7	26.3	8.8	6.6	18.6	14.2	8.8
72.5°	7110.2	1834.7	75.5	41.6	31.7	23.0	7.7	3.3	16.4	12.0	7.7
75°	3885.2	738.9	60.2	26.3	19.7	16.4	5.5	2.2	10.9	8.8	5.5
77.5°	1022.5	194.9	43.8	17.5	10.9	6.6	3.3	1.1	5.5	4.4	2.2
80°	260.5	75.5	28.5	12.0	7.7	3.3	0.0	0.0	1.1	0.0	0.0
82.5°	139.0	31.7	17.5	8.8	4.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	105.1	20.8	9.9	5.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	40.5	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)