

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: P324623

Luminaire Tested: **GAN-SA9D-827-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324623
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37800 lumens
Efficiency: N/A
Efficacy: 65.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

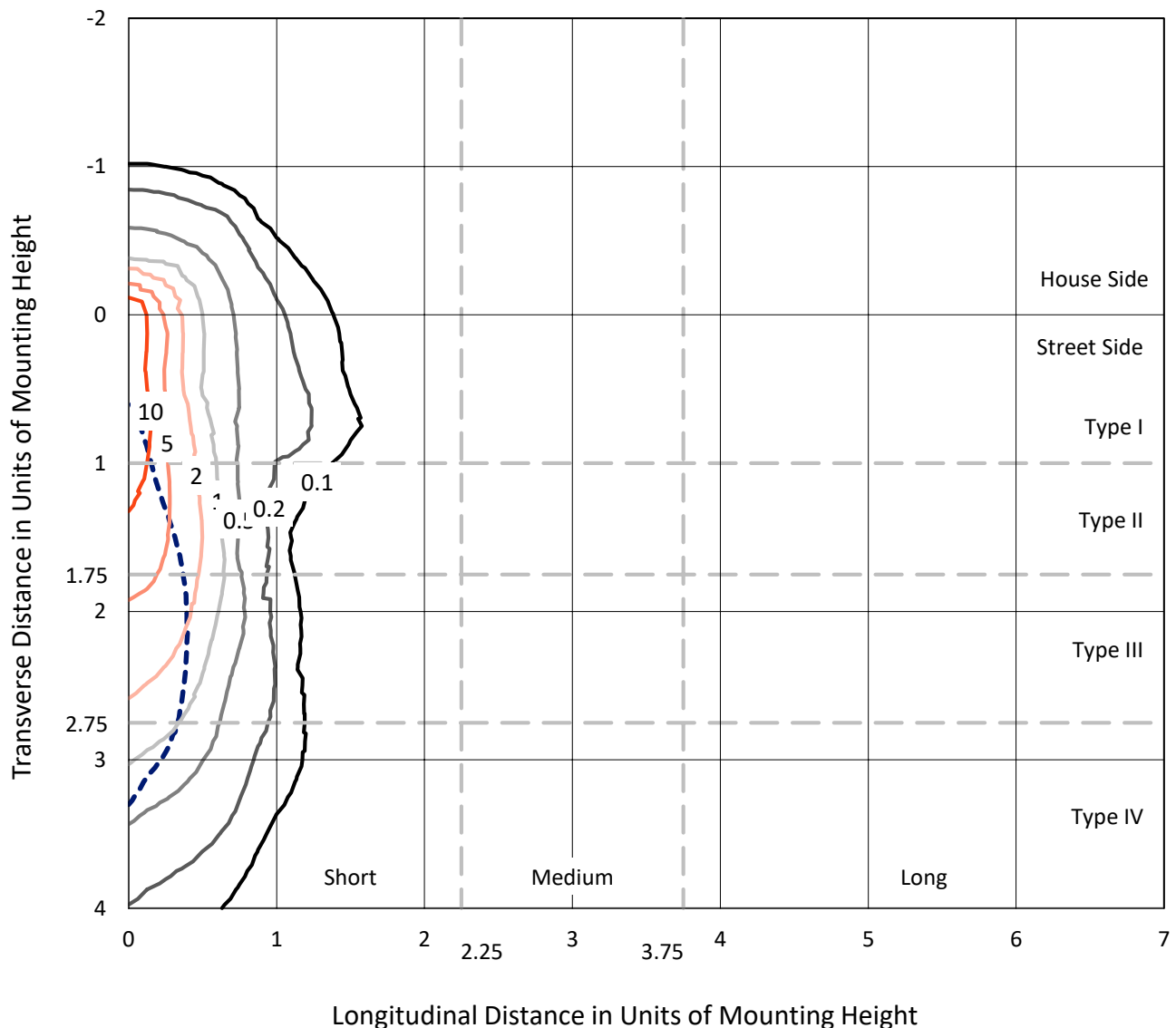
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

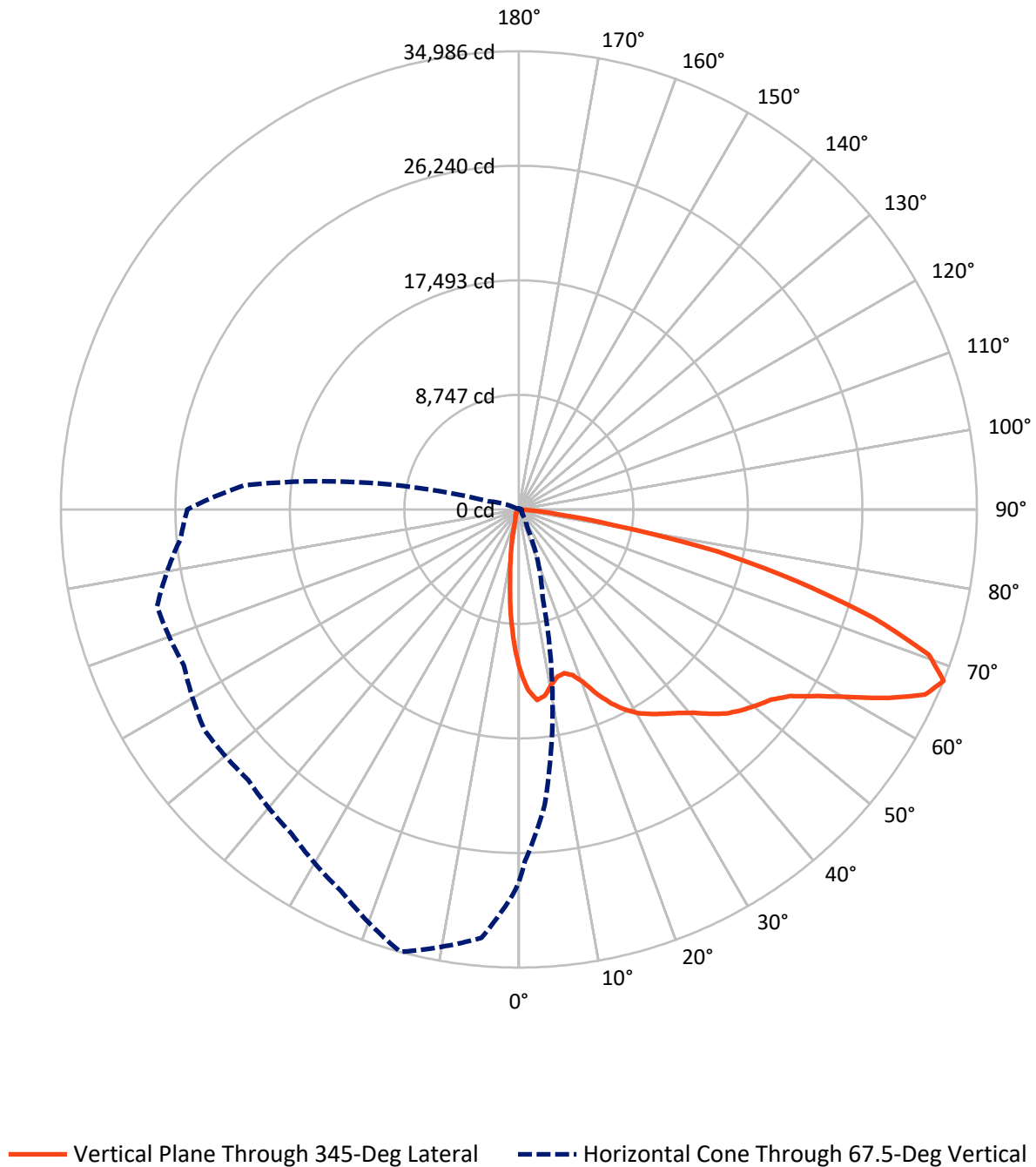
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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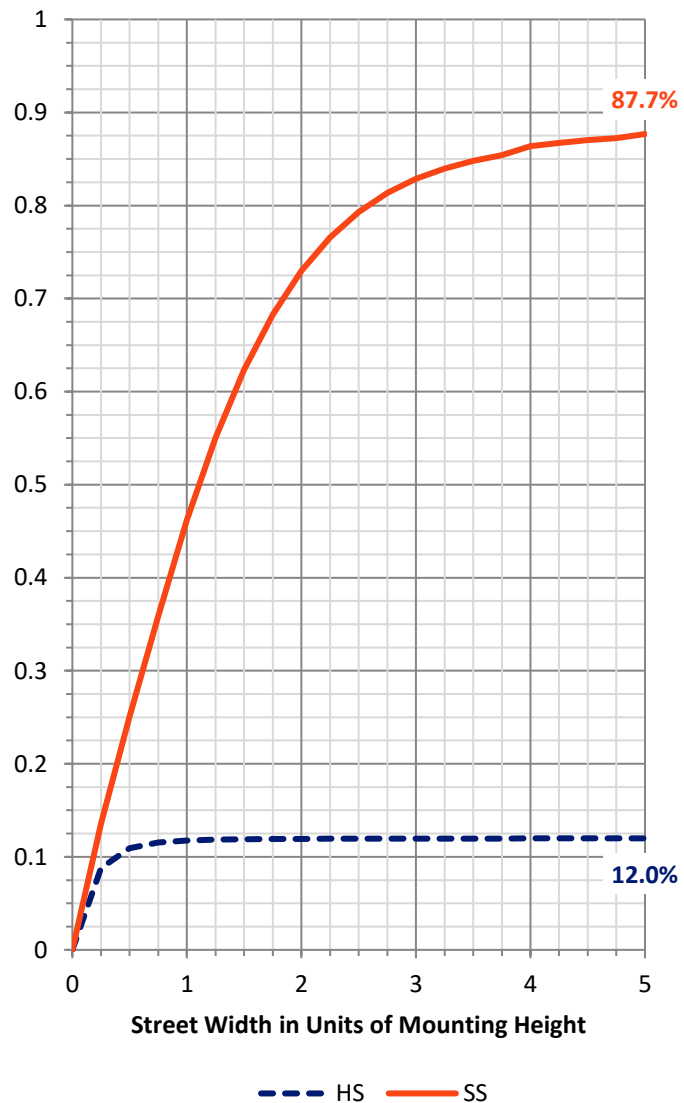
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4575.0	0.0	4575.0
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	33225.0	0.0	33225.0
	% Fixture	87.9	0.0	87.9
Total	Lumens	37800.0	0.0	37800.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	945.0	2.5
10°-20°	1881.1	5.0
20°-30°	2671.1	7.1
30°-40°	3945.4	10.4
40°-50°	5690.1	15.1
50°-60°	7987.7	21.1
60°-70°	9311.4	24.6
70°-80°	4760.2	12.6
80°-90°	607.9	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°	37800.0	100.0
0°-180°	37800.0	100.0

Coefficient of Utilization



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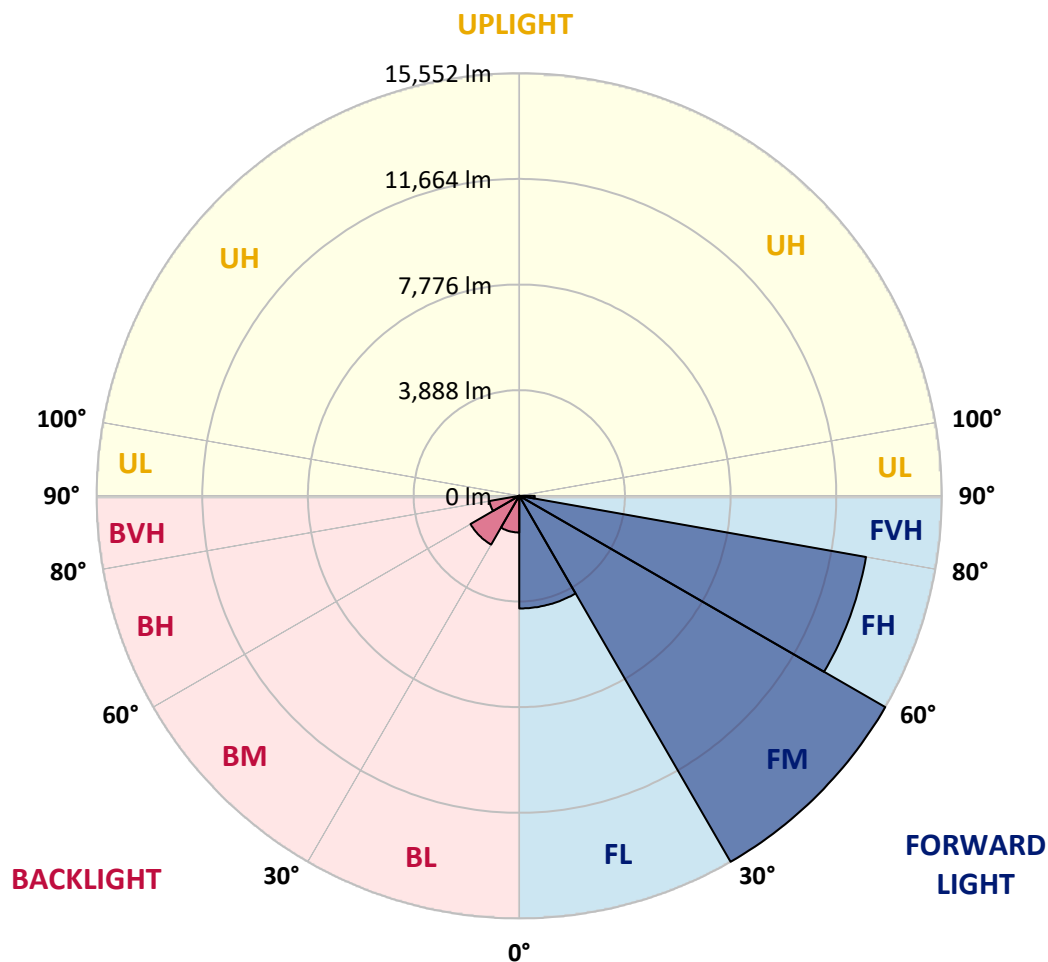
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4145.9	11.0			
FM	(30°-60°)	15551.5	41.1			
FH	(60°-80°)	12956.5	34.3			G5
FVH	(80°-90°)	571.0	1.5			G4/750
BL	(0°-30°)	1351.3	3.6	B3/2500		
BM	(30°-60°)	2071.7	5.5	B2/2500		
BH	(60°-80°)	1115.1	2.9	B3/2500		G3/2500
BVH	(80°-90°)	36.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12313.3	12313.3	12313.3	12313.3	12313.3	12313.3	12313.3	12313.3	12313.3	12313.3	12313.3
2.5°	13482.6	13378.8	13264.2	12889.9	12542.5	12144.9	11820.8	11595.2	11312.2	10945.1	10852.0
5°	13385.9	13274.9	12915.0	12082.3	11353.4	10644.3	9960.2	9559.1	9061.3	8556.3	8430.9
7.5°	12413.6	12297.2	11777.8	10637.1	9655.8	8631.5	7743.3	7193.5	6631.2	6169.2	5923.8
10°	11401.8	11274.6	10690.8	9306.6	8097.8	7172.0	6520.2	5995.5	5463.6	4969.4	4575.4
12.5°	10705.2	10538.6	9904.7	8336.0	7283.0	6654.5	6045.6	5417.1	4697.2	4167.1	3733.7
15°	10413.3	10223.5	9553.7	7961.7	6994.7	6256.9	5463.6	4691.8	3848.3	3241.3	2843.7
17.5°	10638.9	10391.8	9673.7	7936.7	6633.0	5628.4	4625.5	3719.4	2804.3	2190.1	1907.2
20°	11405.4	11081.2	10169.7	7929.5	6194.2	4881.6	3610.2	2585.9	1848.1	1486.3	1337.7
22.5°	12612.3	12184.3	10882.5	7986.8	5741.2	4097.3	2607.3	1756.7	1387.8	1199.8	1112.1
25°	14070.0	13574.0	11908.6	8189.2	5343.6	3334.4	1894.6	1387.8	1171.2	1033.3	959.8
27.5°	15456.1	15053.1	13205.1	8481.0	5035.6	2718.4	1538.3	1176.5	1001.0	909.7	850.6
30°	16840.3	16333.5	14535.6	8828.5	4664.9	2301.1	1352.0	1072.7	897.2	800.5	762.9
32.5°	17846.7	17425.9	15577.8	9079.2	4269.2	2028.9	1208.8	981.3	838.1	739.6	684.1
35°	19030.4	18554.1	16471.4	9134.7	4014.9	1857.0	1087.0	882.8	727.0	639.3	580.2
37.5°	20309.0	19716.3	17502.9	9012.9	3816.1	1772.9	995.7	838.1	678.7	589.2	526.5
40°	21723.7	21054.0	18493.2	8837.4	3620.9	1744.2	925.8	804.1	641.1	549.8	485.3
42.5°	23213.6	22423.9	19351.0	8653.0	3497.4	1645.7	918.7	770.0	612.4	513.9	449.5
45°	24465.4	23664.9	20232.0	8592.1	3409.6	1538.3	949.1	746.7	592.7	485.3	422.6
47.5°	25462.8	24705.4	21134.6	8728.2	3359.5	1439.8	864.9	777.2	582.0	460.2	399.3
50°	26653.7	25795.9	22406.0	9134.7	3286.0	1341.3	782.6	890.0	582.0	444.1	379.6
52.5°	28147.2	27298.4	23824.3	9765.0	3139.2	1205.2	703.8	891.8	587.4	422.6	354.6
55°	30025.7	29409.7	25849.7	10456.3	2904.6	1004.6	608.9	766.4	565.9	383.2	331.3
57.5°	31827.2	31324.0	27695.9	10929.0	2591.2	784.4	530.1	617.8	517.5	336.7	295.5
59°	32319.7	31769.9	28372.8	10950.5	2356.6	684.1	490.7	510.4	506.8	315.2	274.0
60°	32319.7	31735.9	28568.0	10835.9	2186.5	628.6	465.6	454.9	528.3	300.8	261.5
62.5°	31734.1	30913.9	27934.1	10060.5	1783.6	535.4	406.5	376.1	474.6	270.4	231.0
65°	30516.4	29321.9	25774.4	8658.3	1590.2	490.7	351.0	308.0	329.5	238.2	202.4
67.5°	28485.7	26866.8	22660.3	6994.7	1513.2	478.1	302.6	261.5	248.9	204.1	177.3
70°	24909.5	23113.4	18880.0	5499.4	1446.9	472.8	254.3	220.3	200.6	171.9	150.4
72.5°	18129.7	16256.5	13403.9	4299.6	1407.5	483.5	204.1	184.4	164.8	134.3	116.4
75°	10370.3	9143.6	7533.7	2840.1	1199.8	462.0	157.6	154.0	118.2	96.7	80.6
77.5°	5358.0	5195.0	4514.5	1090.6	574.8	202.4	103.9	89.5	69.8	59.1	48.4
80°	2311.9	2286.8	1978.8	315.2	152.2	112.8	59.1	37.6	32.2	25.1	19.7
82.5°	798.7	798.7	703.8	105.7	68.0	55.5	7.2	0.0	0.0	0.0	0.0
85°	161.2	180.9	127.1	0.0	23.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12313.3	12313.3	12313.3	12313.3	12313.3	12313.3	12313.3	12313.3	12313.3	12313.3	12313.3
2.5°	10739.2	10522.5	10508.2	10372.1	10202.0	10125.0	10080.2	10159.0	10255.7	10266.4	10411.5
5°	8336.0	8108.6	8203.5	7961.7	8010.1	7961.7	7882.9	7897.3	7940.2	7805.9	7972.5
7.5°	5854.0	5682.1	5791.3	5726.9	5812.8	5846.8	5798.5	5726.9	5515.5	5490.5	5635.5
10°	4412.4	4217.2	4100.8	3979.1	4005.9	4061.4	4043.5	3991.6	3857.3	3864.5	4004.1
12.5°	3545.7	3327.2	3096.2	2797.2	2723.7	2764.9	2723.7	2693.3	2564.4	2575.1	2698.7
15°	2689.7	2510.6	2268.9	2028.9	1898.2	1910.7	1796.1	1715.6	1635.0	1538.3	1613.5
17.5°	1815.8	1706.6	1635.0	1563.3	1407.5	1371.7	1226.7	1070.9	1010.0	965.2	997.5
20°	1285.8	1226.7	1198.0	1194.4	1104.9	1060.1	918.7	822.0	791.5	782.6	802.3
22.5°	1074.5	1031.5	990.3	967.0	922.2	870.3	762.9	714.5	693.0	682.3	696.6
25°	934.8	902.5	859.6	820.2	802.3	746.7	669.7	633.9	619.6	608.9	616.0
27.5°	830.9	802.3	752.1	727.0	712.7	664.4	598.1	569.5	556.9	553.3	551.6
30°	748.5	721.7	675.1	646.5	621.4	578.4	539.0	510.4	497.8	494.3	490.7
32.5°	666.2	644.7	614.2	585.6	558.7	519.3	485.3	462.0	442.3	438.7	436.9
35°	562.3	540.8	524.7	522.9	497.8	460.2	435.2	404.7	388.6	383.2	385.0
37.5°	499.6	471.0	435.2	447.7	440.5	413.7	379.6	349.2	333.1	329.5	329.5
40°	460.2	429.8	388.6	367.1	388.6	383.2	329.5	299.1	282.9	281.1	277.6
42.5°	422.6	392.2	345.6	309.8	320.5	336.7	284.7	256.1	240.0	236.4	231.0
45°	395.8	363.5	311.6	270.4	248.9	282.9	243.5	207.7	198.8	191.6	188.0
47.5°	370.7	340.2	281.1	234.6	198.8	204.1	195.2	170.1	159.4	152.2	150.4
50°	349.2	317.0	254.3	200.6	164.8	150.4	157.6	134.3	125.4	118.2	114.6
52.5°	324.1	293.7	225.6	173.7	137.9	118.2	120.0	105.7	96.7	91.3	89.5
55°	304.4	274.0	202.4	152.2	121.8	96.7	86.0	82.4	77.0	73.4	71.6
57.5°	277.6	248.9	179.1	128.9	103.9	78.8	66.3	66.3	64.5	60.9	59.1
59°	261.5	236.4	164.8	116.4	94.9	68.0	59.1	60.9	59.1	55.5	53.7
60°	248.9	225.6	154.0	107.4	89.5	62.7	53.7	57.3	55.5	51.9	50.1
62.5°	220.3	204.1	132.5	89.5	78.8	50.1	44.8	48.4	48.4	46.6	44.8
65°	193.4	175.5	112.8	75.2	73.4	43.0	35.8	43.0	44.8	41.2	37.6
67.5°	168.3	150.4	98.5	60.9	68.0	34.0	26.9	35.8	48.4	37.6	34.0
70°	143.3	125.4	77.0	48.4	71.6	23.3	21.5	32.2	57.3	41.2	32.2
72.5°	111.0	96.7	53.7	35.8	77.0	16.1	16.1	26.9	64.5	44.8	30.4
75°	77.0	62.7	32.2	21.5	62.7	10.7	10.7	25.1	60.9	41.2	28.7
77.5°	44.8	34.0	10.7	1.8	32.2	0.0	1.8	17.9	43.0	25.1	12.5
80°	16.1	7.2	0.0	0.0	19.7	0.0	0.0	0.0	3.6	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	12313.3	12313.3	12313.3	12313.3	12313.3	12313.3	12313.3	12313.3	12313.3	12313.3	12313.3
2.5°	10449.1	10690.8	10907.5	11235.2	11623.8	12071.5	12456.5	12870.2	13258.8	13420.0	13531.0
5°	8006.5	8305.6	8654.8	9136.5	9777.6	10567.3	11306.9	12143.2	13042.1	13491.6	13914.2
7.5°	5660.6	5965.0	6398.4	6910.6	7686.0	8626.1	9593.1	10748.2	11965.9	12676.8	13377.0
10°	4070.4	4444.7	4849.4	5549.6	6337.5	7229.3	8225.0	9514.3	10871.7	11659.7	12503.1
12.5°	2770.3	3196.5	3809.0	4593.3	5519.1	6393.0	7258.0	8488.2	10064.1	10844.9	11749.2
15°	1661.8	1898.2	2546.5	3454.4	4589.7	5678.5	6625.8	7859.7	9539.4	10495.7	11435.8
17.5°	1024.3	1133.6	1486.3	2231.3	3423.9	4801.0	6099.3	7646.6	9614.6	10778.6	11785.0
20°	816.6	859.6	972.4	1318.0	2268.9	3834.0	5506.6	7603.6	10228.8	11661.4	12741.3
22.5°	709.1	750.3	825.5	958.1	1427.2	2870.6	4944.3	7643.0	11109.9	12984.8	14245.5
25°	625.0	660.8	732.4	841.7	1045.8	2021.8	4342.6	7818.5	12257.8	14626.9	15966.4
27.5°	558.7	589.2	655.4	755.7	897.2	1411.1	3660.3	8031.6	13618.7	16306.7	17628.3
30°	497.8	524.7	583.8	676.9	779.0	1085.2	2911.8	8176.6	14981.5	17628.3	18815.5
32.5°	445.9	465.6	519.3	598.1	676.9	864.9	2213.4	8153.3	15993.3	18727.8	19669.7
35°	392.2	411.9	458.4	526.5	589.2	714.5	1740.6	7718.2	16874.4	19868.5	20647.5
37.5°	333.1	358.2	402.9	463.8	506.8	628.6	1407.5	7193.5	17767.9	21172.2	21738.1
40°	282.9	308.0	347.4	413.7	440.5	596.3	1081.6	6554.2	18772.6	22629.9	22934.3
42.5°	234.6	257.9	299.1	356.4	415.5	513.9	800.5	5823.6	19737.8	23876.2	24024.9
45°	189.8	213.1	256.1	313.4	444.1	426.2	619.6	5041.0	20516.8	24913.1	24961.4
47.5°	150.4	171.9	216.7	295.5	413.7	340.2	442.3	4426.8	21170.4	25722.5	25595.4
50°	116.4	134.3	180.9	338.5	361.7	281.1	334.9	4222.6	21756.0	26223.9	25894.4
52.5°	91.3	107.4	148.6	317.0	281.1	232.8	281.1	4414.2	22558.2	26639.4	26062.8
55°	73.4	89.5	116.4	180.9	191.6	197.0	240.0	4593.3	23942.5	27613.6	27056.6
57.5°	60.9	77.0	94.9	127.1	145.1	166.5	213.1	4613.0	25573.9	29232.4	28705.9
59°	55.5	69.8	86.0	112.8	127.1	152.2	200.6	4505.6	26148.7	29821.6	29558.3
60°	51.9	66.3	80.6	103.9	118.2	143.3	193.4	4403.5	26173.8	29800.1	29921.8
62.5°	44.8	59.1	71.6	87.7	100.3	121.8	173.7	4025.6	25113.6	28824.1	29703.4
65°	39.4	51.9	64.5	75.2	86.0	109.2	157.6	3336.2	23303.2	27250.0	28208.1
67.5°	35.8	44.8	59.1	66.3	77.0	96.7	139.7	2378.1	21041.5	25325.0	25946.4
70°	32.2	43.0	53.7	60.9	69.8	84.2	120.0	1366.4	17767.9	22506.3	22948.6
72.5°	30.4	41.2	48.4	57.3	62.7	75.2	109.2	642.9	13009.9	18029.4	19184.4
75°	26.9	37.6	44.8	53.7	59.1	68.0	93.1	308.0	8653.0	13047.5	14360.1
77.5°	16.1	30.4	41.2	48.4	51.9	59.1	77.0	177.3	5522.7	9030.8	10637.1
80°	0.0	10.7	30.4	41.2	44.8	50.1	59.1	139.7	2954.8	5159.2	6192.5
82.5°	0.0	0.0	21.5	32.2	30.4	34.0	44.8	87.7	1332.3	3372.0	3800.0
85°	0.0	0.0	7.2	25.1	21.5	16.1	30.4	30.4	291.9	1706.6	2129.2
87.5°	0.0	0.0	0.0	1.8	10.7	7.2	12.5	3.6	1.8	127.1	515.7
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: P324623

CATALOG NUMBER: GAN-SA9D-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12313.3	12313.3	12313.3	12313.3	12313.3	12313.3	12313.3	12313.3	12313.3	12313.3
2.5°	13919.6	14052.1	14276.0	14381.6	14329.7	14109.4	13846.2	13577.6	13420.0	13482.6
5°	14775.6	15457.9	15851.8	15982.6	15764.1	15269.8	14623.4	13771.0	13468.3	13385.9
7.5°	14775.6	16059.6	16872.6	17015.8	16528.7	15559.9	14347.6	13017.0	12574.7	12413.6
10°	14256.3	16004.0	17137.6	17365.0	16684.5	15235.8	13611.6	12093.0	11568.3	11401.8
12.5°	13670.7	15552.8	16747.2	17060.6	16501.9	14913.5	13101.2	11468.0	10850.2	10705.2
15°	13310.7	14997.6	15986.1	16213.6	15977.2	14725.4	12979.4	11280.0	10553.0	10413.3
17.5°	13439.7	14567.8	14924.2	15056.7	15216.1	14659.2	13310.7	11691.9	10771.4	10638.9
20°	13925.0	14114.8	13930.3	14096.9	14526.7	14723.6	14100.5	12687.5	11582.6	11405.4
22.5°	14748.7	13880.2	13362.7	13428.9	13951.8	14936.7	15307.4	14109.4	12834.4	12612.3
25°	15708.6	14070.0	13047.5	12988.4	13525.6	15217.9	16410.5	15656.6	14315.4	14070.0
27.5°	16915.5	14496.2	12983.0	12923.9	13377.0	15481.1	17327.4	17185.9	15875.1	15456.1
30°	17846.7	14915.3	13174.6	13038.5	13525.6	15663.8	18063.4	18484.2	17117.9	16840.3
32.5°	18514.7	15409.5	13486.2	13289.2	13944.7	15979.0	18631.1	19673.3	18267.6	17846.7
35°	19023.3	15946.7	13989.4	13665.3	14521.3	16457.1	19162.9	20939.4	19490.7	19030.4
37.5°	19499.6	16700.6	14775.6	14388.8	15425.6	17227.1	19725.2	22375.6	20858.8	20309.0
40°	20164.0	17554.8	15987.9	15644.1	16946.0	18276.5	20427.2	23872.6	22415.0	21723.7
42.5°	20828.4	18471.7	17228.9	17322.0	18842.4	19551.5	21333.3	25455.7	23951.4	23213.6
45°	21435.4	19417.2	18996.4	19426.2	20602.7	20950.1	22234.1	26370.8	25178.1	24465.4
47.5°	21976.2	20599.1	20753.1	21897.4	22604.8	22216.2	22907.4	27160.5	26091.4	25462.8
50°	22604.8	22128.4	23068.6	24687.4	24909.5	23362.3	23519.9	28095.3	27158.7	26653.7
52.5°	23292.4	23740.1	25633.0	27060.2	26988.6	24606.9	24135.9	29142.9	28621.7	28147.2
55°	24073.2	25042.0	27891.1	29280.8	29219.9	25996.5	25156.6	30437.6	30455.5	30025.7
57.5°	25231.8	26163.0	29424.0	31076.9	31179.0	27601.0	26886.5	31888.1	32113.7	31827.2
59°	26062.8	26890.1	30031.1	31827.2	32242.7	28842.0	28150.8	32729.8	32581.1	32319.7
60°	26678.8	27352.1	30331.9	32219.4	32860.5	29683.7	29083.8	33224.0	32636.6	32319.7
62.5°	28202.7	28358.5	30874.5	32663.5	33571.4	31553.2	31709.0	34065.7	32251.6	31734.1
65°	28913.6	28994.2	30867.4	31868.4	32883.8	33009.1	34090.7	34090.7	31311.5	30516.4
67.5°	28616.4	28227.8	29336.3	29232.4	30246.0	32144.2	34986.1	32840.8	29513.5	28485.7
70°	26198.8	24703.6	24211.1	24255.9	25031.3	27959.2	33213.3	29162.6	26111.1	24909.5
72.5°	21798.9	18212.1	16996.1	18384.0	18586.3	21487.4	28304.8	21961.9	19256.1	18129.7
75°	17533.4	12838.0	10861.0	12325.8	12669.6	15724.7	21895.6	13677.8	11247.8	10370.3
77.5°	12596.2	9215.3	7793.4	7691.3	8135.4	9972.8	15536.7	6883.7	5741.2	5358.0
80°	7155.9	6065.3	6530.9	6162.0	6385.9	6235.4	7381.5	3019.2	2473.0	2311.9
82.5°	4319.3	3585.1	3882.4	3232.3	4090.1	3561.8	2843.7	967.0	839.9	798.7
85°	2809.7	1959.1	1020.7	684.1	1409.3	2276.1	635.7	263.2	202.4	161.2
87.5°	968.8	499.6	50.1	21.5	150.4	424.4	23.3	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

(END OF REPORT)