

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: P324621

Luminaire Tested: **GAN-SA7D-827-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324621
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-SA7D-827-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 29907 lumens
Efficiency: N/A
Efficacy: 66.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

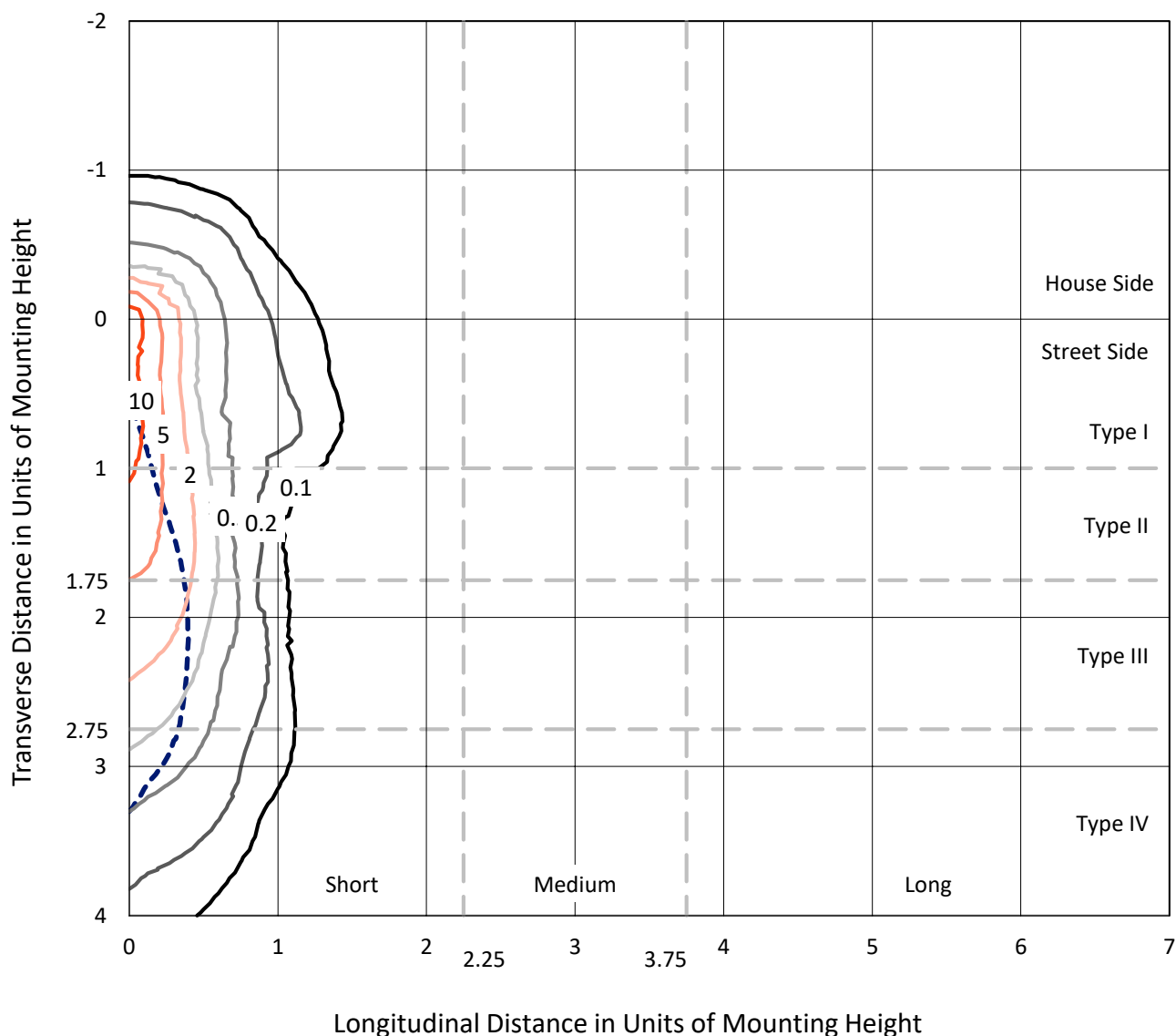
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

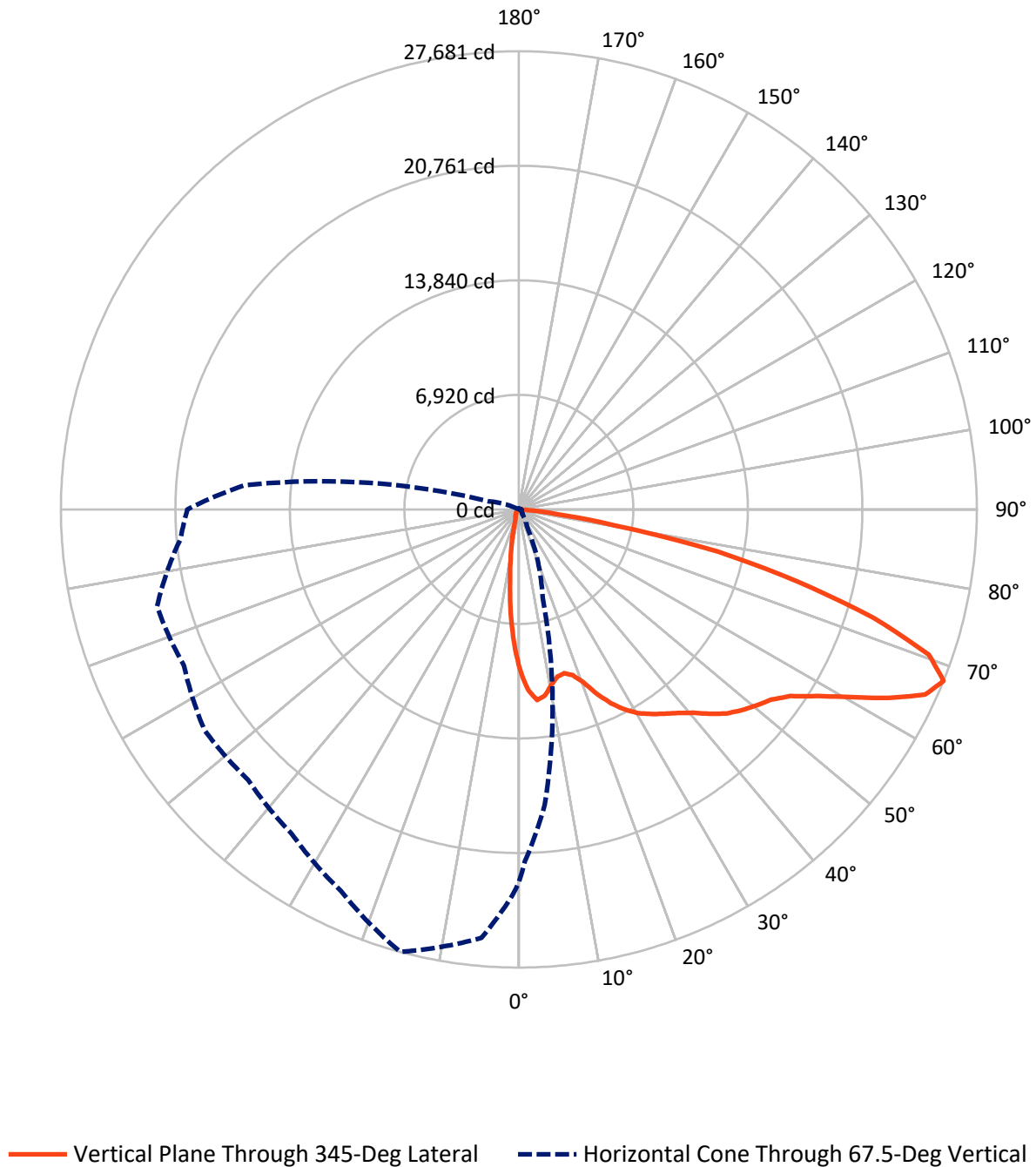
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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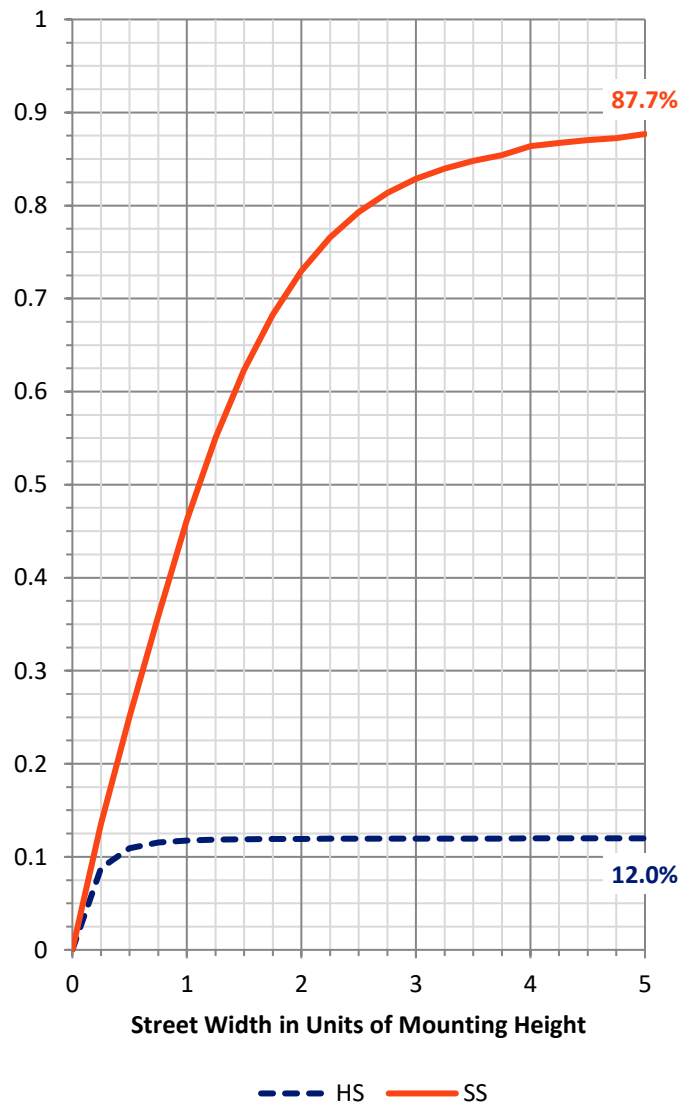
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3619.7	0.0	3619.7
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	26287.3	0.0	26287.3
	% Fixture	87.9	0.0	87.9
Total	Lumens	29907.0	0.0	29907.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	747.7	2.5
10°-20°	1488.3	5.0
20°-30°	2113.4	7.1
30°-40°	3121.6	10.4
40°-50°	4502.0	15.1
50°-60°	6319.8	21.1
60°-70°	7367.1	24.6
70°-80°	3766.2	12.6
80°-90°	481.0	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°	29907.0	100.0
0°-180°	29907.0	100.0

Coefficient of Utilization



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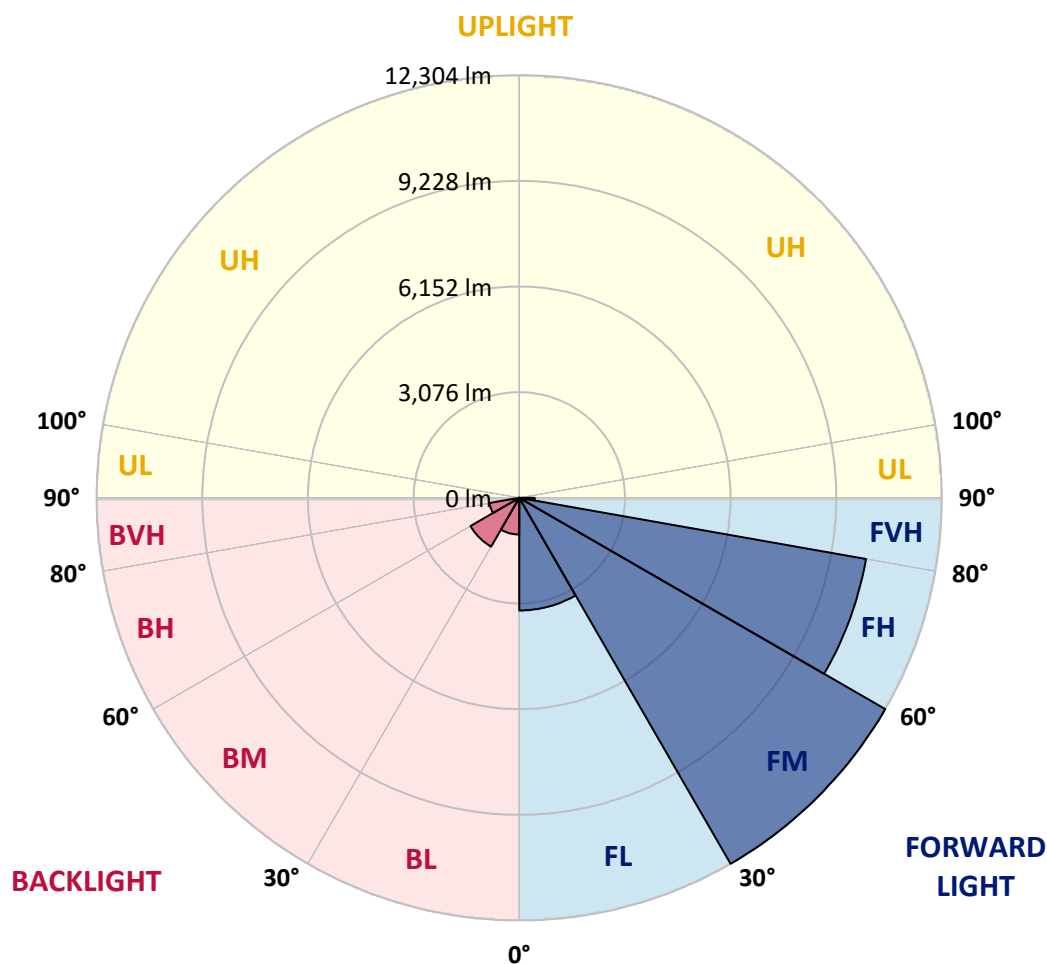
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3280.2	11.0			
FM	(30°-60°)	12304.2	41.1			
FH	(60°-80°)	10251.1	34.3			G4/12000
FVH	(80°-90°)	451.8	1.5			G3/500
BL	(0°-30°)	1069.1	3.6	B3/2500		
BM	(30°-60°)	1639.1	5.5	B2/2500		
BH	(60°-80°)	882.2	2.9	B2/1000		G2/1000
BVH	(80°-90°)	29.2	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-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9742.1	9742.1	9742.1	9742.1	9742.1	9742.1	9742.1	9742.1	9742.1	9742.1	9742.1
2.5°	10667.3	10585.2	10494.5	10198.4	9923.5	9609.0	9352.5	9174.0	8950.1	8659.7	8586.0
5°	10590.8	10503.0	10218.2	9559.4	8982.7	8421.7	7880.4	7563.1	7169.2	6769.6	6670.5
7.5°	9821.5	9729.4	9318.5	8416.0	7639.6	6829.1	6126.4	5691.4	5246.5	4881.0	4686.9
10°	9021.0	8920.4	8458.5	7363.3	6406.9	5674.4	5158.7	4743.6	4322.8	3931.7	3620.0
12.5°	8469.8	8338.1	7836.5	6595.4	5762.3	5265.0	4783.2	4285.9	3716.4	3297.0	2954.1
15°	8238.9	8088.7	7558.8	6299.2	5534.2	4950.4	4322.8	3712.1	3044.8	2564.5	2249.9
17.5°	8417.4	8221.9	7653.7	6279.4	5248.0	4453.1	3659.7	2942.8	2218.8	1732.8	1508.9
20°	9023.8	8767.4	8046.2	6273.7	4900.8	3862.3	2856.3	2045.9	1462.2	1176.0	1058.4
22.5°	9978.8	9640.1	8610.1	6319.1	4542.4	3241.7	2062.9	1389.9	1098.0	949.3	879.9
25°	11132.1	10739.6	9421.9	6479.2	4227.8	2638.1	1499.0	1098.0	926.6	817.5	759.4
27.5°	12228.7	11909.9	10447.7	6710.1	3984.1	2150.8	1217.1	930.9	792.0	719.8	673.0
30°	13323.9	12922.9	11500.4	6985.0	3690.9	1820.6	1069.7	848.7	709.8	633.3	603.6
32.5°	14120.2	13787.2	12325.0	7183.3	3377.7	1605.3	956.4	776.4	663.1	585.2	541.2
35°	15056.7	14679.8	13032.0	7227.3	3176.5	1469.3	860.0	698.5	575.2	505.8	459.1
37.5°	16068.3	15599.3	13848.1	7130.9	3019.3	1402.7	787.8	663.1	537.0	466.1	416.5
40°	17187.6	16657.7	14631.6	6992.1	2864.8	1380.0	732.5	636.2	507.2	435.0	384.0
42.5°	18366.4	17741.6	15310.3	6846.1	2767.1	1302.1	726.8	609.2	484.6	406.6	355.6
45°	19356.8	18723.5	16007.4	6798.0	2697.7	1217.1	750.9	590.8	469.0	384.0	334.4
47.5°	20146.0	19546.6	16721.5	6905.6	2658.0	1139.1	684.3	614.9	460.5	364.1	316.0
50°	21088.2	20409.5	17727.4	7227.3	2599.9	1061.2	619.2	704.2	460.5	351.4	300.4
52.5°	22269.8	21598.2	18849.6	7726.0	2483.7	953.5	556.8	705.6	464.7	334.4	280.5
55°	23756.1	23268.7	20452.0	8272.9	2298.1	794.8	481.7	606.4	447.7	303.2	262.1
57.5°	25181.4	24783.3	21912.8	8646.9	2050.2	620.6	419.4	488.8	409.5	266.4	233.8
59°	25571.0	25136.0	22448.3	8663.9	1864.6	541.2	388.2	403.8	401.0	249.4	216.8
60°	25571.0	25109.1	22602.8	8573.3	1730.0	497.3	368.4	359.9	418.0	238.0	206.9
62.5°	25107.7	24458.8	22101.2	7959.8	1411.2	423.6	321.6	297.5	375.5	213.9	182.8
65°	24144.3	23199.2	20392.5	6850.4	1258.1	388.2	277.7	243.7	260.7	188.4	160.1
67.5°	22537.6	21256.8	17928.6	5534.2	1197.2	378.3	239.4	206.9	196.9	161.5	140.3
70°	19708.2	18287.1	14937.7	4351.1	1144.8	374.0	201.2	174.3	158.7	136.0	119.0
72.5°	14344.0	12862.0	10605.0	3401.8	1113.6	382.5	161.5	145.9	130.3	106.3	92.1
75°	8204.9	7234.4	5960.6	2247.1	949.3	365.5	124.7	121.8	93.5	76.5	63.8
77.5°	4239.2	4110.2	3571.8	862.9	454.8	160.1	82.2	70.8	55.3	46.8	38.3
80°	1829.1	1809.3	1565.6	249.4	120.4	89.3	46.8	29.8	25.5	19.8	15.6
82.5°	631.9	631.9	556.8	83.6	53.8	43.9	5.7	0.0	0.0	0.0	0.0
85°	127.5	143.1	100.6	0.0	18.4	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°	9742.1	9742.1	9742.1	9742.1	9742.1	9742.1	9742.1	9742.1	9742.1	9742.1	9742.1
2.5°	8496.8	8325.3	8314.0	8206.3	8071.7	8010.8	7975.4	8037.7	8114.2	8122.7	8237.5
5°	6595.4	6415.4	6490.5	6299.2	6337.5	6299.2	6236.9	6248.2	6282.2	6176.0	6307.7
7.5°	4631.6	4495.6	4582.0	4531.0	4599.0	4626.0	4587.7	4531.0	4363.8	4344.0	4458.8
10°	3491.1	3336.6	3244.5	3148.2	3169.5	3213.4	3199.2	3158.1	3051.9	3057.5	3168.0
12.5°	2805.3	2632.5	2449.7	2213.1	2155.0	2187.6	2155.0	2130.9	2028.9	2037.4	2135.2
15°	2128.1	1986.4	1795.1	1605.3	1501.8	1511.8	1421.1	1357.3	1293.6	1217.1	1276.6
17.5°	1436.7	1350.2	1293.6	1236.9	1113.6	1085.3	970.5	847.3	799.1	763.7	789.2
20°	1017.3	970.5	947.9	945.0	874.2	838.8	726.8	650.3	626.2	619.2	634.7
22.5°	850.1	816.1	783.5	765.1	729.7	688.6	603.6	565.3	548.3	539.8	551.1
25°	739.6	714.1	680.1	648.9	634.7	590.8	529.9	501.6	490.2	481.7	487.4
27.5°	657.4	634.7	595.1	575.2	563.9	525.6	473.2	450.6	440.6	437.8	436.4
30°	592.2	571.0	534.1	511.5	491.6	457.6	426.5	403.8	393.9	391.0	388.2
32.5°	527.1	510.1	486.0	463.3	442.1	410.9	384.0	365.5	350.0	347.1	345.7
35°	444.9	427.9	415.1	413.7	393.9	364.1	344.3	320.2	307.5	303.2	304.6
37.5°	395.3	372.6	344.3	354.2	348.5	327.3	300.4	276.3	263.5	260.7	260.7
40°	364.1	340.0	307.5	290.5	307.5	303.2	260.7	236.6	223.9	222.4	219.6
42.5°	334.4	310.3	273.4	245.1	253.6	266.4	225.3	202.6	189.9	187.0	182.8
45°	313.1	287.6	246.5	213.9	196.9	223.9	192.7	164.4	157.3	151.6	148.8
47.5°	293.3	269.2	222.4	185.6	157.3	161.5	154.4	134.6	126.1	120.4	119.0
50°	276.3	250.8	201.2	158.7	130.3	119.0	124.7	106.3	99.2	93.5	90.7
52.5°	256.4	232.4	178.5	137.4	109.1	93.5	94.9	83.6	76.5	72.3	70.8
55°	240.9	216.8	160.1	120.4	96.3	76.5	68.0	65.2	60.9	58.1	56.7
57.5°	219.6	196.9	141.7	102.0	82.2	62.3	52.4	52.4	51.0	48.2	46.8
59°	206.9	187.0	130.3	92.1	75.1	53.8	46.8	48.2	46.8	43.9	42.5
60°	196.9	178.5	121.8	85.0	70.8	49.6	42.5	45.3	43.9	41.1	39.7
62.5°	174.3	161.5	104.8	70.8	62.3	39.7	35.4	38.3	38.3	36.8	35.4
65°	153.0	138.8	89.3	59.5	58.1	34.0	28.3	34.0	35.4	32.6	29.8
67.5°	133.2	119.0	77.9	48.2	53.8	26.9	21.3	28.3	38.3	29.8	26.9
70°	113.3	99.2	60.9	38.3	56.7	18.4	17.0	25.5	45.3	32.6	25.5
72.5°	87.8	76.5	42.5	28.3	60.9	12.8	12.8	21.3	51.0	35.4	24.1
75°	60.9	49.6	25.5	17.0	49.6	8.5	8.5	19.8	48.2	32.6	22.7
77.5°	35.4	26.9	8.5	1.4	25.5	0.0	1.4	14.2	34.0	19.8	9.9
80°	12.8	5.7	0.0	0.0	15.6	0.0	0.0	0.0	2.8	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°	9742.1	9742.1	9742.1	9742.1	9742.1	9742.1	9742.1	9742.1	9742.1	9742.1	9742.1
2.5°	8267.2	8458.5	8629.9	8889.2	9196.7	9550.9	9855.5	10182.8	10490.2	10617.8	10705.6
5°	6334.7	6571.3	6847.6	7228.7	7735.9	8360.7	8945.9	9607.6	10318.8	10674.4	11008.8
7.5°	4478.6	4719.5	5062.3	5467.6	6081.1	6824.9	7590.0	8503.8	9467.3	10029.8	10583.7
10°	3220.5	3516.6	3836.8	4390.8	5014.2	5719.8	6507.5	7527.6	8601.6	9225.0	9892.3
12.5°	2191.8	2529.0	3013.6	3634.2	4366.7	5058.1	5742.4	6715.8	7962.6	8580.3	9295.8
15°	1314.8	1501.8	2014.7	2733.1	3631.3	4492.8	5242.3	6218.5	7547.5	8304.1	9047.9
17.5°	810.4	896.9	1176.0	1765.4	2709.0	3798.5	4825.7	6049.9	7607.0	8527.9	9324.2
20°	646.1	680.1	769.3	1042.8	1795.1	3033.4	4356.8	6015.9	8093.0	9226.4	10080.8
22.5°	561.1	593.7	653.2	758.0	1129.2	2271.2	3911.9	6047.0	8790.0	10273.5	11270.9
25°	494.5	522.8	579.5	665.9	827.4	1599.6	3435.8	6185.9	9698.2	11572.7	12632.5
27.5°	442.1	466.1	518.6	597.9	709.8	1116.5	2896.0	6354.5	10775.0	12901.7	13947.3
30°	393.9	415.1	461.9	535.6	616.3	858.6	2303.8	6469.3	11853.2	13947.3	14886.7
32.5°	352.8	368.4	410.9	473.2	535.6	684.3	1751.2	6450.8	12653.7	14817.2	15562.5
35°	310.3	325.9	362.7	416.5	466.1	565.3	1377.2	6106.6	13350.8	15719.8	16336.1
37.5°	263.5	283.4	318.8	367.0	401.0	497.3	1113.6	5691.4	14057.8	16751.2	17198.9
40°	223.9	243.7	274.9	327.3	348.5	471.8	855.8	5185.6	14852.7	17904.5	18145.4
42.5°	185.6	204.0	236.6	281.9	328.7	406.6	633.3	4607.5	15616.3	18890.6	19008.2
45°	150.2	168.6	202.6	247.9	351.4	337.2	490.2	3988.4	16232.7	19711.0	19749.2
47.5°	119.0	136.0	171.4	233.8	327.3	269.2	350.0	3502.4	16749.8	20351.4	20250.8
50°	92.1	106.3	143.1	267.8	286.2	222.4	264.9	3340.9	17213.1	20748.1	20487.4
52.5°	72.3	85.0	117.6	250.8	222.4	184.2	222.4	3492.5	17847.9	21076.8	20620.6
55°	58.1	70.8	92.1	143.1	151.6	155.9	189.9	3634.2	18943.1	21847.6	21406.9
57.5°	48.2	60.9	75.1	100.6	114.8	131.8	168.6	3649.8	20233.8	23128.4	22711.8
59°	43.9	55.3	68.0	89.3	100.6	120.4	158.7	3564.8	20688.6	23594.5	23386.3
60°	41.1	52.4	63.8	82.2	93.5	113.3	153.0	3484.0	20708.4	23577.5	23673.9
62.5°	35.4	46.8	56.7	69.4	79.3	96.3	137.4	3185.0	19869.7	22805.4	23501.0
65°	31.2	41.1	51.0	59.5	68.0	86.4	124.7	2639.6	18437.3	21560.0	22318.0
67.5°	28.3	35.4	46.8	52.4	60.9	76.5	110.5	1881.6	16647.8	20036.9	20528.5
70°	25.5	34.0	42.5	48.2	55.3	66.6	94.9	1081.0	14057.8	17806.8	18156.7
72.5°	24.1	32.6	38.3	45.3	49.6	59.5	86.4	508.6	10293.3	14264.7	15178.5
75°	21.3	29.8	35.4	42.5	46.8	53.8	73.7	243.7	6846.1	10323.1	11361.6
77.5°	12.8	24.1	32.6	38.3	41.1	46.8	60.9	140.3	4369.5	7145.1	8416.0
80°	0.0	8.5	24.1	32.6	35.4	39.7	46.8	110.5	2337.8	4081.9	4899.4
82.5°	0.0	0.0	17.0	25.5	24.1	26.9	35.4	69.4	1054.1	2667.9	3006.5
85°	0.0	0.0	5.7	19.8	17.0	12.8	24.1	24.1	230.9	1350.2	1684.6
87.5°	0.0	0.0	0.0	1.4	8.5	5.7	9.9	2.8	1.4	100.6	408.0
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: P324621

CATALOG NUMBER: GAN-SA7D-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9742.1	9742.1	9742.1	9742.1	9742.1	9742.1	9742.1	9742.1	9742.1	9742.1
2.5°	11013.0	11117.9	11295.0	11378.6	11337.5	11163.2	10955.0	10742.4	10617.8	10667.3
5°	11690.3	12230.1	12541.8	12645.2	12472.4	12081.3	11569.9	10895.5	10656.0	10590.8
7.5°	11690.3	12706.2	13349.4	13462.8	13077.4	12310.9	11351.7	10299.0	9949.0	9821.5
10°	11279.4	12662.2	13559.1	13739.0	13200.6	12054.4	10769.4	9567.9	9152.7	9021.0
12.5°	10816.1	12305.2	13250.2	13498.2	13056.1	11799.4	10365.6	9073.4	8584.6	8469.8
15°	10531.3	11866.0	12648.1	12828.0	12641.0	11650.6	10269.2	8924.6	8349.4	8238.9
17.5°	10633.3	11525.9	11807.9	11912.7	12038.8	11598.2	10531.3	9250.5	8522.3	8417.4
20°	11017.3	11167.5	11021.6	11153.3	11493.4	11649.2	11156.2	10038.3	9164.1	9023.8
22.5°	11669.0	10981.9	10572.4	10624.8	11038.6	11817.8	12111.1	11163.2	10154.4	9978.8
25°	12428.5	11132.1	10323.1	10276.3	10701.3	12040.3	12983.9	12387.4	11326.2	11132.1
27.5°	13383.4	11469.3	10272.0	10225.3	10583.7	12248.5	13709.3	13597.4	12560.2	12228.7
30°	14120.2	11800.8	10423.6	10316.0	10701.3	12393.0	14291.6	14624.6	13543.5	13323.9
32.5°	14648.6	12191.9	10670.2	10514.3	11032.9	12642.4	14740.7	15565.3	14453.1	14120.2
35°	15051.0	12616.9	11068.3	10811.9	11489.1	13020.7	15161.5	16567.0	15420.8	15056.7
37.5°	15427.9	13213.4	11690.3	11384.3	12204.6	13629.9	15606.4	17703.3	16503.3	16068.3
40°	15953.5	13889.2	12649.5	12377.5	13407.5	14460.2	16161.8	18887.8	17734.5	17187.6
42.5°	16479.2	14614.6	13631.4	13705.0	14907.9	15469.0	16878.7	20140.3	18950.2	18366.4
45°	16959.5	15362.7	15029.8	15369.8	16300.7	16575.5	17591.4	20864.3	19920.7	19356.8
47.5°	17387.4	16297.8	16419.7	17325.0	17884.7	17577.2	18124.1	21489.1	20643.3	20146.0
50°	17884.7	17507.8	18251.7	19532.5	19708.2	18484.0	18608.7	22228.7	21487.7	21088.2
52.5°	18428.8	18783.0	20280.6	21409.8	21353.1	19468.7	19096.1	23057.6	22645.3	22269.8
55°	19046.5	19813.0	22067.2	23166.7	23118.5	20568.2	19903.7	24081.9	24096.1	23756.1
57.5°	19963.2	20699.9	23280.0	24587.7	24668.5	21837.7	21272.3	25229.6	25408.1	25181.4
59°	20620.6	21275.2	23760.3	25181.4	25510.1	22819.5	22272.6	25895.5	25777.9	25571.0
60°	21108.0	21640.7	23998.3	25491.7	25998.9	23485.4	23010.8	26286.5	25821.8	25571.0
62.5°	22313.7	22437.0	24427.6	25843.1	26561.4	24964.6	25087.9	26952.4	25517.2	25107.7
65°	22876.2	22940.0	24422.0	25214.0	26017.3	26116.5	26972.3	26972.3	24773.3	24144.3
67.5°	22641.0	22333.6	23210.6	23128.4	23930.3	25432.2	27680.7	25983.3	23350.8	22537.6
70°	20728.3	19545.2	19155.6	19191.0	19804.5	22121.0	26278.0	23073.1	20658.9	19708.2
72.5°	17247.1	14409.2	13447.2	14545.2	14705.3	17000.6	22394.5	17376.1	15235.2	14344.0
75°	13872.2	10157.3	8593.1	9752.1	10024.1	12441.2	17323.6	10821.8	8899.1	8204.9
77.5°	9966.0	7291.0	6166.1	6085.3	6436.7	7890.3	12292.5	5446.3	4542.4	4239.2
80°	5661.7	4798.8	5167.2	4875.3	5052.4	4933.4	5840.2	2388.8	1956.6	1829.1
82.5°	3417.4	2836.5	3071.7	2557.4	3236.0	2818.1	2249.9	765.1	664.5	631.9
85°	2223.0	1550.0	807.6	541.2	1115.0	1800.8	503.0	208.3	160.1	127.5
87.5°	766.5	395.3	39.7	17.0	119.0	335.8	18.4	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)