

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: P324421

Luminaire Tested: **GAN-SA7D-727-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324421
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-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 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: 34022 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

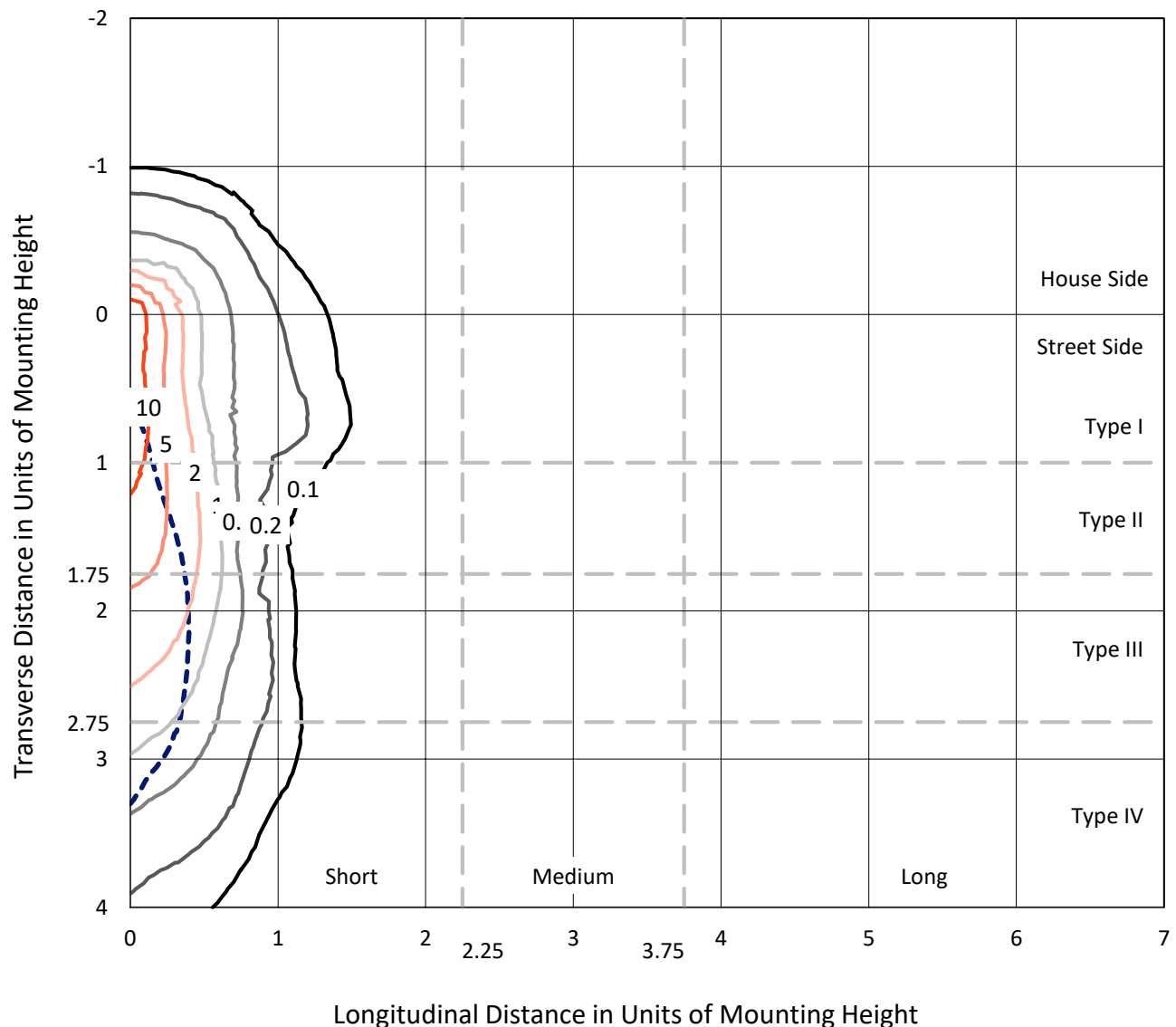
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

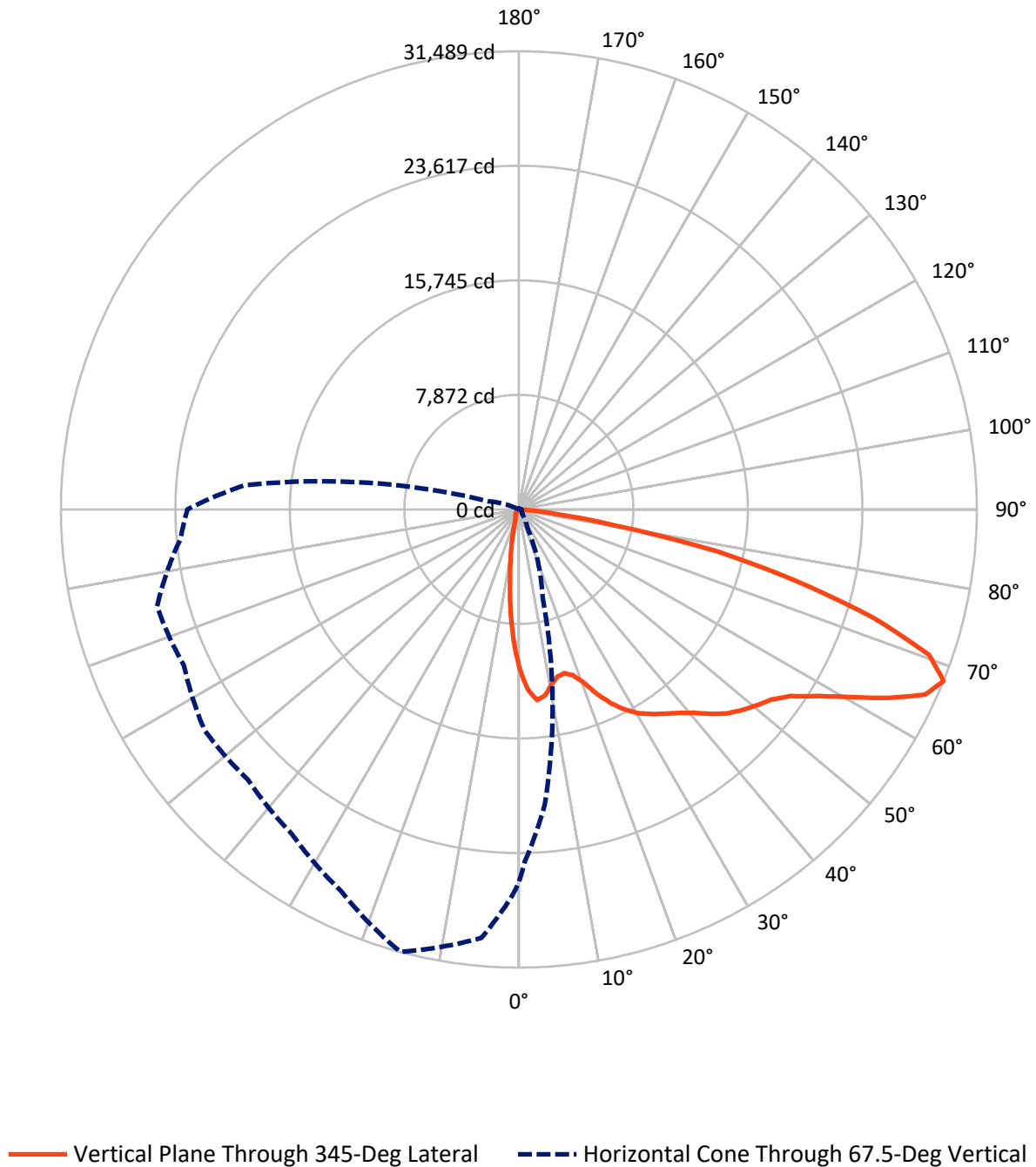
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 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	4117.8	0.0	4117.8
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	29904.2	0.0	29904.2
	% Fixture	87.9	0.0	87.9
Total	Lumens	34022.0	0.0	34022.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	850.6	2.5
10°-20°	1693.1	5.0
20°-30°	2404.2	7.1
30°-40°	3551.1	10.4
40°-50°	5121.4	15.1
50°-60°	7189.4	21.1
60°-70°	8380.8	24.6
70°-80°	4284.4	12.6
80°-90°	547.2	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°	34022.0	100.0
0°-180°	34022.0	100.0

Coefficient of Utilization



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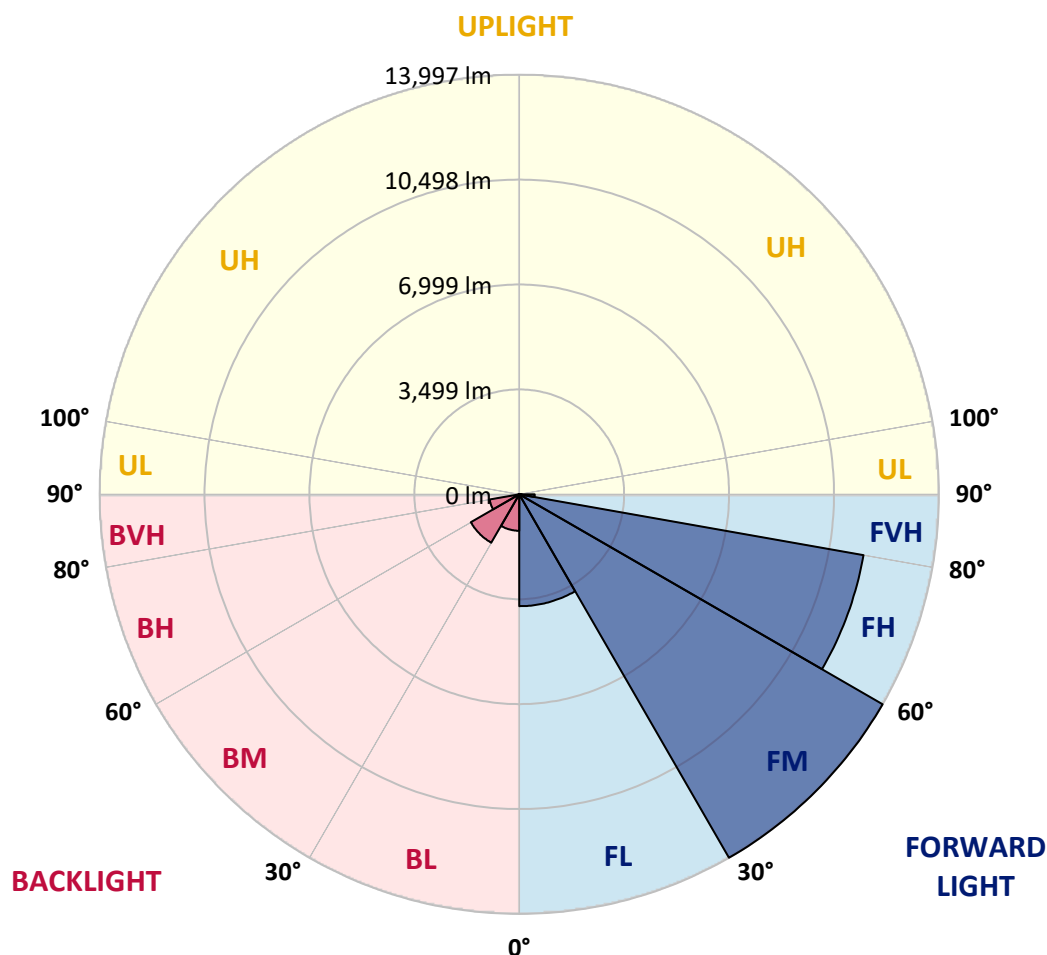
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3731.5	11.0			
FM	(30°-60°)	13997.2	41.1			
FH	(60°-80°)	11661.5	34.3			G4/12000
FVH	(80°-90°)	513.9	1.5			G4/750
BL	(0°-30°)	1216.2	3.6	B3/2500		
BM	(30°-60°)	1864.7	5.5	B2/2500		
BH	(60°-80°)	1003.6	2.9	B3/2500		G3/2500
BVH	(80°-90°)	33.2	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°	11082.6	11082.6	11082.6	11082.6	11082.6	11082.6	11082.6	11082.6	11082.6	11082.6	11082.6
2.5°	12135.1	12041.6	11938.5	11601.6	11288.9	10931.1	10639.4	10436.3	10181.6	9851.2	9767.4
5°	12048.1	11948.1	11624.2	10874.7	10218.7	9580.4	8964.7	8603.7	8155.6	7701.1	7588.3
7.5°	11172.9	11068.1	10600.7	9574.0	8690.7	7768.8	6969.3	6474.5	5968.4	5552.6	5331.8
10°	10262.2	10147.8	9622.3	8376.4	7288.5	6455.2	5868.5	5396.2	4917.5	4472.7	4118.1
12.5°	9635.2	9485.3	8914.8	7502.8	6555.1	5989.4	5441.4	4875.6	4227.7	3750.6	3360.6
15°	9372.5	9201.7	8598.8	7166.0	6295.6	5631.6	4917.5	4222.9	3463.7	2917.3	2559.5
17.5°	9575.6	9353.2	8706.8	7143.4	5970.0	5065.8	4163.2	3347.7	2524.0	1971.2	1716.5
20°	10265.4	9973.7	9153.3	7137.0	5575.1	4393.7	3249.3	2327.4	1663.4	1337.8	1204.0
22.5°	11351.8	10966.6	9794.8	7188.5	5167.4	3687.8	2346.8	1581.2	1249.1	1079.9	1000.9
25°	12663.8	12217.3	10718.3	7370.7	4809.6	3001.1	1705.3	1249.1	1054.1	930.0	863.9
27.5°	13911.3	13548.6	11885.3	7633.4	4532.3	2446.7	1384.5	1058.9	901.0	818.8	765.6
30°	15157.2	14701.1	13082.8	7946.1	4198.7	2071.1	1216.9	965.5	807.5	720.5	686.6
32.5°	16063.0	15684.2	14020.9	8171.7	3842.5	1826.1	1088.0	883.3	754.3	665.7	615.7
35°	17128.4	16699.7	14825.2	8221.7	3613.6	1671.4	978.4	794.6	654.4	575.4	522.2
37.5°	18279.2	17745.7	15753.5	8112.1	3434.7	1595.7	896.2	754.3	610.9	530.3	473.9
40°	19552.5	18949.7	16644.9	7954.1	3259.0	1569.9	833.3	723.7	577.0	494.8	436.8
42.5°	20893.5	20182.7	17416.9	7788.1	3147.8	1481.2	826.8	693.1	551.2	462.6	404.6
45°	22020.1	21299.7	18209.9	7733.3	3068.8	1384.5	854.2	672.1	533.5	436.8	380.4
47.5°	22917.9	22236.1	19022.2	7855.8	3023.7	1295.9	778.5	699.5	523.8	414.2	359.4
50°	23989.7	23217.7	20166.6	8221.7	2957.6	1207.2	704.3	601.1	523.8	399.7	341.7
52.5°	25334.0	24570.0	21443.1	8789.0	2825.5	1084.7	633.4	502.7	428.7	380.4	319.1
55°	27024.7	26470.3	23266.1	9411.2	2614.3	904.2	548.0	469.8	399.3	344.9	298.2
57.5°	28646.2	28193.3	24927.8	9836.7	2332.2	706.0	477.1	415.1	356.8	303.0	265.9
59°	29089.4	28594.6	25537.1	9856.0	2121.1	615.7	441.6	389.4	336.1	283.7	246.6
60°	29089.4	28564.0	25712.7	9752.9	1968.0	565.7	419.1	369.4	315.5	270.8	235.3
62.5°	28562.4	27824.2	25142.2	9055.0	1605.3	481.9	365.9	338.5	271.1	243.4	207.9
65°	27466.4	26391.3	23198.4	7793.0	1431.3	441.6	315.9	277.2	236.6	214.4	182.1
67.5°	25638.6	24181.5	20395.5	6295.6	1362.0	430.3	272.4	235.3	224.0	183.7	159.6
70°	22419.9	20803.3	16993.0	4949.8	1302.3	425.5	228.9	198.2	180.5	154.7	135.4
72.5°	16317.7	14631.7	12064.2	3869.9	1266.9	435.2	183.7	166.0	148.3	120.9	104.8
75°	9333.8	8229.8	6780.8	2556.3	1079.9	415.8	141.8	138.6	106.4	87.0	72.5
77.5°	4822.4	4675.8	4063.3	981.6	517.4	182.1	93.5	80.6	62.9	53.2	43.5
80°	2080.8	2058.2	1781.0	283.7	137.0	101.5	53.2	33.8	29.0	22.6	17.7
82.5°	718.9	718.9	633.4	95.1	61.2	50.0	6.4	0.0	0.0	0.0	0.0
85°	145.1	162.8	114.4	0.0	21.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11082.6	11082.6	11082.6	11082.6	11082.6	11082.6	11082.6	11082.6	11082.6	11082.6	11082.6
2.5°	9665.8	9470.8	9457.9	9335.4	9182.3	9113.0	9072.7	9143.6	9230.7	9240.3	9370.9
5°	7502.8	7298.1	7383.6	7166.0	7209.5	7166.0	7095.1	7108.0	7146.6	7025.8	7175.6
7.5°	5268.9	5114.2	5212.5	5154.5	5231.8	5262.5	5218.9	5154.5	4964.3	4941.7	5072.3
10°	3971.4	3795.7	3691.0	3581.4	3605.6	3655.5	3639.4	3592.7	3471.8	3478.2	3603.9
12.5°	3191.3	2994.7	2786.8	2517.6	2451.5	2488.6	2451.5	2424.1	2308.1	2317.7	2429.0
15°	2420.9	2259.7	2042.1	1826.1	1708.5	1719.8	1616.6	1544.1	1471.6	1384.5	1452.2
17.5°	1634.3	1536.0	1471.6	1407.1	1266.9	1234.6	1104.1	963.8	909.0	868.7	897.8
20°	1157.3	1104.1	1078.3	1075.1	994.5	954.2	826.8	739.8	712.4	704.3	722.1
22.5°	967.1	928.4	891.3	870.4	830.1	783.3	686.6	643.1	623.8	614.1	627.0
25°	841.3	812.3	773.7	738.2	722.1	672.1	602.8	570.6	557.7	548.0	554.5
27.5°	747.9	722.1	676.9	654.4	641.5	598.0	538.3	512.5	501.3	498.0	496.4
30°	673.7	649.5	607.6	581.9	559.3	520.6	485.1	459.4	448.1	444.9	441.6
32.5°	599.6	580.2	552.8	527.1	502.9	467.4	436.8	415.8	398.1	394.9	393.3
35°	506.1	486.8	472.3	470.6	448.1	414.2	391.7	364.3	349.8	344.9	346.5
37.5°	449.7	423.9	391.7	402.9	396.5	372.3	341.7	314.3	299.8	296.6	296.6
40°	414.2	386.8	349.8	330.4	349.8	344.9	296.6	269.2	254.7	253.0	249.8
42.5°	380.4	353.0	311.1	278.8	288.5	303.0	256.3	230.5	216.0	212.8	207.9
45°	356.2	327.2	280.4	243.4	224.0	254.7	219.2	187.0	178.9	172.5	169.2
47.5°	333.6	306.2	253.0	211.1	178.9	183.7	175.7	153.1	143.4	137.0	135.4
50°	314.3	285.3	228.9	180.5	148.3	135.4	141.8	120.9	112.8	106.4	103.2
52.5°	291.7	264.3	203.1	156.3	124.1	106.4	108.0	95.1	87.0	82.2	80.6
55°	274.0	246.6	182.1	137.0	109.6	87.0	77.4	74.1	69.3	66.1	64.5
57.5°	249.8	224.0	161.2	116.0	93.5	70.9	59.6	59.6	58.0	54.8	53.2
59°	235.3	212.8	148.3	104.8	85.4	61.2	53.2	54.8	53.2	50.0	48.4
60°	224.0	203.1	138.6	96.7	80.6	56.4	48.4	51.6	50.0	46.7	45.1
62.5°	198.2	183.7	119.3	80.6	70.9	45.1	40.3	43.5	43.5	41.9	40.3
65°	174.1	158.0	101.5	67.7	66.1	38.7	32.2	38.7	40.3	37.1	33.8
67.5°	151.5	135.4	88.6	54.8	61.2	30.6	24.2	32.2	43.5	33.8	30.6
70°	128.9	112.8	69.3	43.5	64.5	21.0	19.3	29.0	51.6	37.1	29.0
72.5°	99.9	87.0	48.4	32.2	69.3	14.5	14.5	24.2	58.0	40.3	27.4
75°	69.3	56.4	29.0	19.3	56.4	9.7	9.7	22.6	54.8	37.1	25.8
77.5°	40.3	30.6	9.7	1.6	29.0	0.0	1.6	16.1	38.7	22.6	11.3
80°	14.5	6.4	0.0	0.0	17.7	0.0	0.0	0.0	3.2	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°	11082.6	11082.6	11082.6	11082.6	11082.6	11082.6	11082.6	11082.6	11082.6	11082.6	11082.6
2.5°	9404.7	9622.3	9817.4	10112.3	10462.1	10865.0	11211.5	11583.9	11933.6	12078.7	12178.6
5°	7206.3	7475.4	7789.7	8223.3	8800.3	9511.1	10176.8	10929.5	11738.6	12143.2	12523.5
7.5°	5094.8	5368.8	5758.9	6219.9	6917.8	7763.9	8634.3	9673.9	10769.9	11409.8	12040.0
10°	3663.6	4000.4	4364.7	4994.9	5704.1	6506.8	7402.9	8563.4	9785.1	10494.3	11253.5
12.5°	2493.4	2877.0	3428.3	4134.2	4967.5	5754.1	6532.5	7639.8	9058.2	9760.9	10574.9
15°	1495.7	1708.5	2292.0	3109.1	4131.0	5111.0	5963.6	7074.1	8586.0	9446.6	10292.8
17.5°	921.9	1020.3	1337.8	2008.3	3081.7	4321.2	5489.7	6882.3	8653.7	9701.3	10607.1
20°	735.0	773.7	875.2	1186.3	2042.1	3450.8	4956.2	6843.6	9206.5	10495.9	11467.8
22.5°	638.3	675.3	743.0	862.3	1284.6	2583.7	4450.1	6879.1	9999.5	11687.0	12821.7
25°	562.5	594.7	659.2	757.5	941.3	1819.7	3908.6	7037.0	11032.6	13165.0	14370.6
27.5°	502.9	530.3	589.9	680.2	807.5	1270.1	3294.5	7228.8	12257.6	14676.9	15866.4
30°	448.1	472.3	525.4	609.3	701.1	976.7	2620.8	7359.4	13484.2	15866.4	16935.0
32.5°	401.3	419.1	467.4	538.3	609.3	778.5	1992.2	7338.4	14394.8	16856.0	17703.8
35°	353.0	370.7	412.6	473.9	530.3	643.1	1566.7	6946.8	15187.8	17882.7	18583.8
37.5°	299.8	322.4	362.7	417.5	456.1	565.7	1266.9	6474.5	15992.1	19056.1	19565.4
40°	254.7	277.2	312.7	372.3	396.5	536.7	973.5	5899.1	16896.3	20368.1	20642.1
42.5°	211.1	232.1	269.2	320.7	373.9	462.6	720.5	5241.5	17765.0	21489.9	21623.6
45°	170.8	191.8	230.5	282.1	399.7	383.6	557.7	4537.2	18466.2	22423.1	22466.6
47.5°	135.4	154.7	195.0	265.9	372.3	306.2	398.1	3984.3	19054.5	23151.6	23037.2
50°	104.8	120.9	162.8	304.6	325.6	253.0	301.4	3800.6	19581.5	23602.9	23306.3
52.5°	82.2	96.7	133.8	285.3	253.0	209.5	253.0	3973.0	20303.6	23976.8	23457.9
55°	66.1	80.6	104.8	162.8	172.5	177.3	216.0	4134.2	21549.5	24853.7	24352.4
57.5°	54.8	69.3	85.4	114.4	130.6	149.9	191.8	4151.9	23017.8	26310.7	25836.8
59°	50.0	62.9	77.4	101.5	114.4	137.0	180.5	4055.2	23535.2	26841.0	26604.1
60°	46.7	59.6	72.5	93.5	106.4	128.9	174.1	3963.4	23557.8	26821.6	26931.2
62.5°	40.3	53.2	64.5	79.0	90.3	109.6	156.3	3623.3	22603.6	25943.2	26734.6
65°	35.5	46.7	58.0	67.7	77.4	98.3	141.8	3002.7	20974.1	24526.5	25388.8
67.5°	32.2	40.3	53.2	59.6	69.3	87.0	125.7	2140.4	18938.4	22793.8	23353.1
70°	29.0	38.7	48.4	54.8	62.9	75.8	108.0	1229.8	15992.1	20256.9	20655.0
72.5°	27.4	37.1	43.5	51.6	56.4	67.7	98.3	578.6	11709.6	16227.4	17267.0
75°	24.2	33.8	40.3	48.4	53.2	61.2	83.8	277.2	7788.1	11743.4	12924.9
77.5°	14.5	27.4	37.1	43.5	46.7	53.2	69.3	159.6	4970.7	8128.2	9574.0
80°	0.0	9.7	27.4	37.1	40.3	45.1	53.2	125.7	2659.4	4643.5	5573.5
82.5°	0.0	0.0	19.3	29.0	27.4	30.6	40.3	79.0	1199.2	3035.0	3420.2
85°	0.0	0.0	6.4	22.6	19.3	14.5	27.4	27.4	262.7	1536.0	1916.4
87.5°	0.0	0.0	0.0	1.6	9.7	6.4	11.3	3.2	1.6	114.4	464.2
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: P324421

CATALOG NUMBER: GAN-SA7D-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11082.6	11082.6	11082.6	11082.6	11082.6	11082.6	11082.6	11082.6	11082.6	11082.6
2.5°	12528.4	12647.6	12849.1	12944.2	12897.5	12699.2	12462.3	12220.5	12078.7	12135.1
5°	13298.8	13912.9	14267.5	14385.1	14188.5	13743.7	13161.8	12394.6	12122.2	12048.1
7.5°	13298.8	14454.4	15186.2	15315.1	14876.7	14004.8	12913.6	11716.0	11317.9	11172.9
10°	12831.4	14404.5	15424.7	15629.4	15017.0	13713.0	12251.1	10884.4	10412.1	10262.2
12.5°	12304.3	13998.3	15073.4	15355.4	14852.6	13422.9	11791.8	10321.8	9765.8	9635.2
15°	11980.4	13498.7	14388.4	14593.1	14380.3	13253.7	11682.2	10152.6	9498.2	9372.5
17.5°	12096.4	13111.8	13432.6	13551.9	13695.3	13194.0	11980.4	10523.3	9694.9	9575.6
20°	12533.2	12704.1	12538.0	12687.9	13074.8	13252.1	12691.2	11419.5	10425.0	10265.4
22.5°	13274.6	12492.9	12027.1	12086.7	12557.4	13443.9	13777.5	12699.2	11551.6	11351.8
25°	14138.5	12663.8	11743.4	11690.2	12173.8	13696.9	14770.4	14091.8	12884.6	12663.8
27.5°	15224.9	13047.4	11685.4	11632.2	12040.0	13933.8	15595.6	15468.3	14288.4	13911.3
30°	16063.0	13424.5	11857.9	11735.4	12173.8	14098.2	16258.0	16636.8	15407.0	15157.2
32.5°	16664.2	13869.4	12138.3	11961.0	12550.9	14381.9	16769.0	17707.0	16441.8	16063.0
35°	17121.9	14352.9	12591.2	12299.5	13069.9	14812.3	17247.7	18846.6	17542.6	17128.4
37.5°	17550.7	15031.5	13298.8	12950.7	13883.9	15505.3	17753.8	20139.2	18774.0	18279.2
40°	18148.6	15800.3	14390.0	14080.5	15252.3	16449.8	18385.6	21486.6	20174.7	19552.5
42.5°	18746.6	16625.5	15506.9	15590.8	16959.2	17597.4	19201.1	22911.5	21557.6	20893.5
45°	19293.0	17476.5	17097.8	17484.6	18543.5	18856.2	20011.9	23735.1	22661.6	22020.1
47.5°	19779.8	18540.3	18678.9	19708.9	20345.5	19995.8	20617.9	24445.9	23483.6	22917.9
50°	20345.5	19916.8	20763.0	22220.0	22419.9	21027.3	21169.1	25287.2	24444.3	23989.7
52.5°	20964.4	21367.4	23071.0	24355.6	24291.1	22147.5	21723.6	26230.1	25761.1	25334.0
55°	21667.2	22539.1	25103.5	26354.2	26299.4	23398.2	22642.3	27395.4	27411.6	27024.7
57.5°	22710.0	23548.1	26483.2	27970.8	28062.7	24842.4	24199.3	28701.0	28904.1	28646.2
59°	23457.9	24202.5	27029.6	28646.2	29020.1	25959.3	25337.2	29458.5	29324.7	29089.4
60°	24012.3	24618.3	27300.3	28999.2	29576.2	26716.9	26176.9	29903.4	29374.7	29089.4
62.5°	25383.9	25524.2	27788.7	29398.9	30216.1	28399.6	28539.8	30660.9	29028.2	28562.4
65°	26023.8	26096.3	27782.3	28683.2	29597.1	29710.0	30683.5	30683.5	28182.0	27466.4
67.5°	25756.3	25406.5	26404.2	26310.7	27223.0	28931.5	31489.4	29558.4	26563.8	25638.6
70°	23580.4	22234.5	21791.3	21831.6	22529.5	25164.7	29893.7	26247.8	23501.4	22419.9
72.5°	19620.2	16391.8	15297.4	16546.5	16728.7	19339.8	25475.8	19766.9	17331.5	16317.7
75°	15780.9	11554.9	9775.4	11093.9	11403.3	14153.0	19707.2	12310.8	10123.6	9333.8
77.5°	11337.3	8294.2	7014.5	6922.6	7322.3	8976.0	13983.8	6195.7	5167.4	4822.4
80°	6440.7	5459.1	5878.2	5546.1	5747.6	5612.2	6643.8	2717.5	2225.9	2080.8
82.5°	3887.6	3226.8	3494.3	2909.3	3681.3	3205.8	2559.5	870.4	755.9	718.9
85°	2528.9	1763.3	918.7	615.7	1268.5	2048.6	572.2	236.9	182.1	145.1
87.5°	872.0	449.7	45.1	19.3	135.4	382.0	21.0	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

(END OF REPORT)