

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: P324321

Luminaire Tested: **GAN-SA7B-830-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324321
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7B-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23812 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 295
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

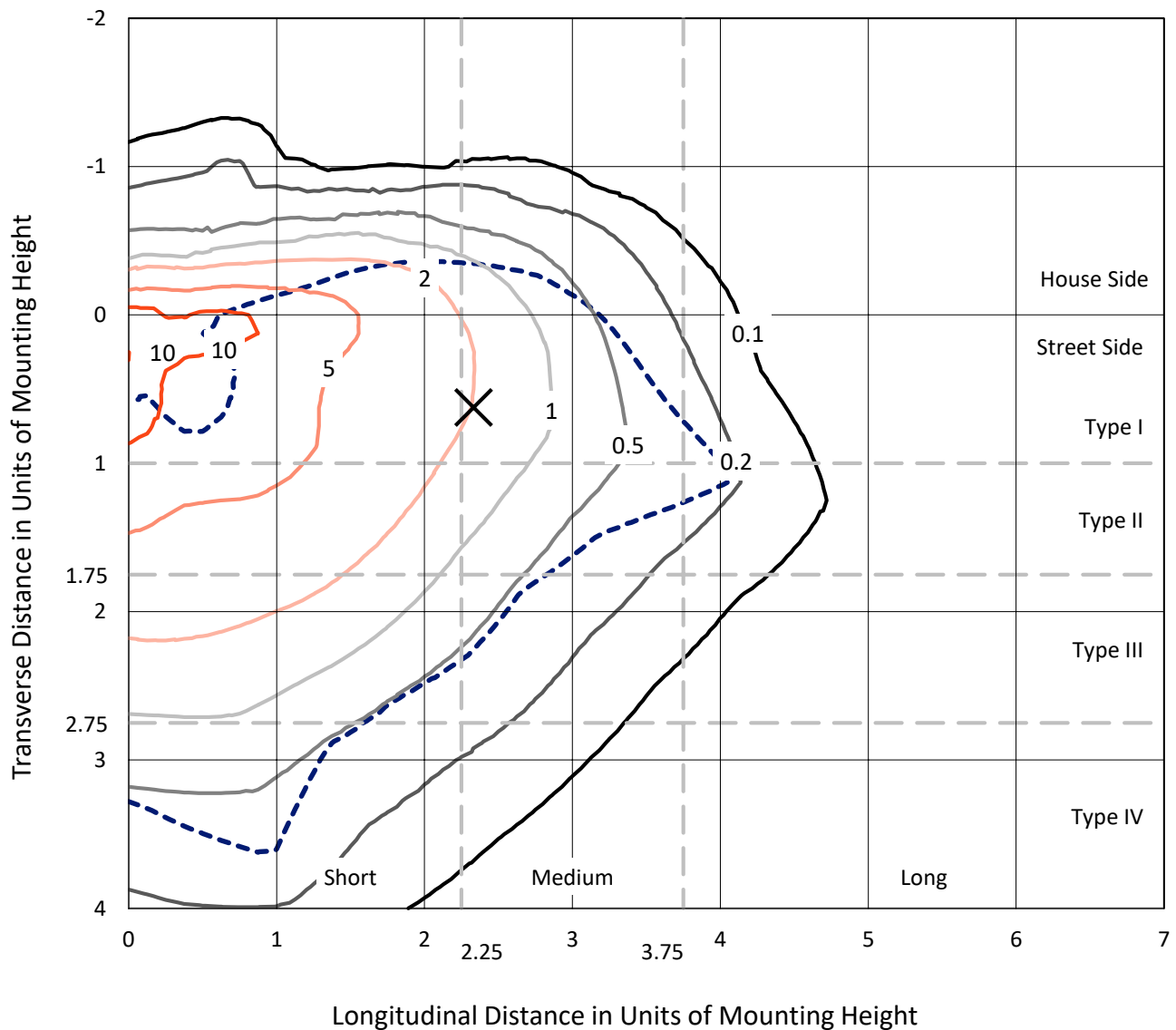


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Iso-Footcandle Lines of Horizontal Illumination

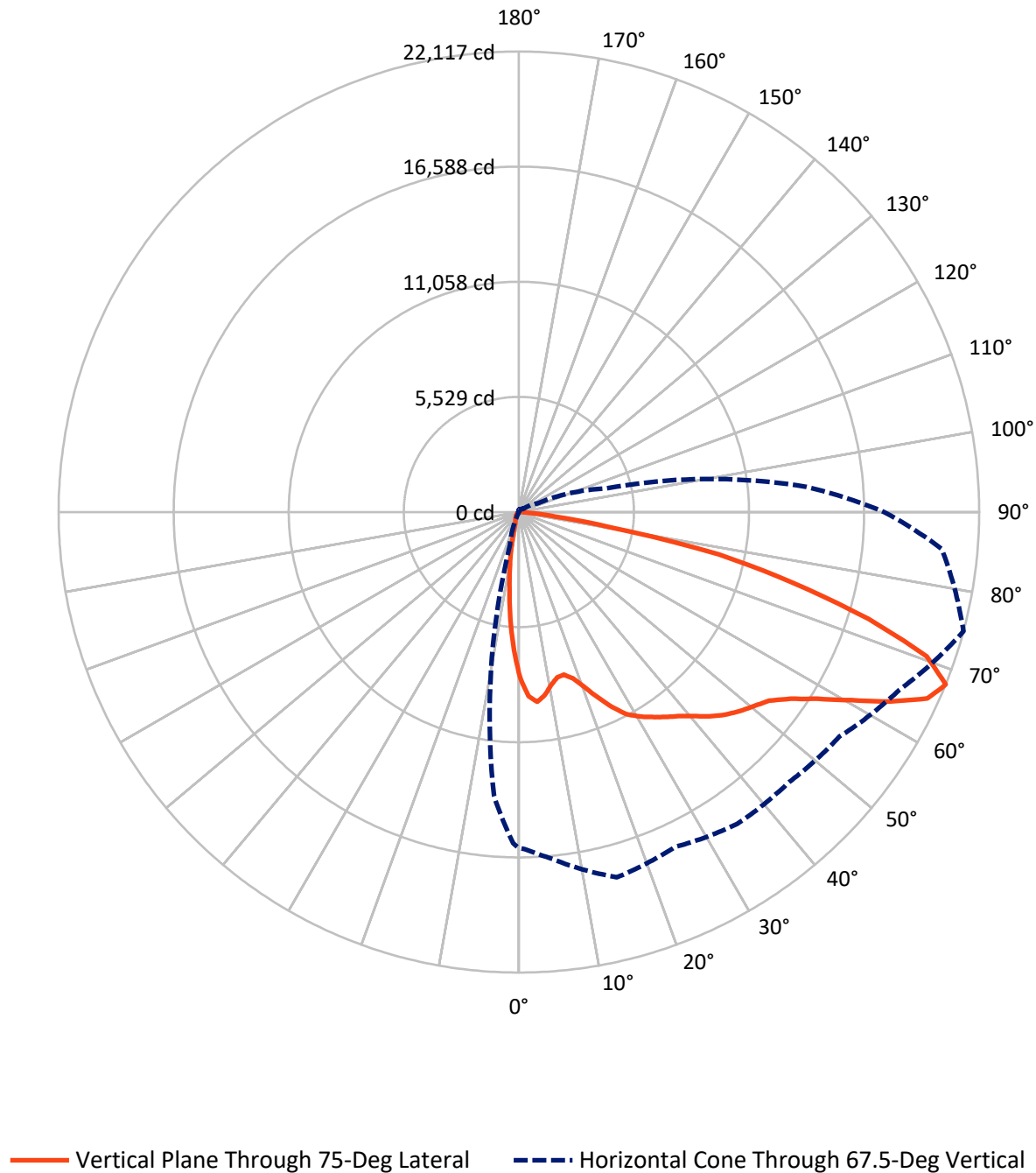
× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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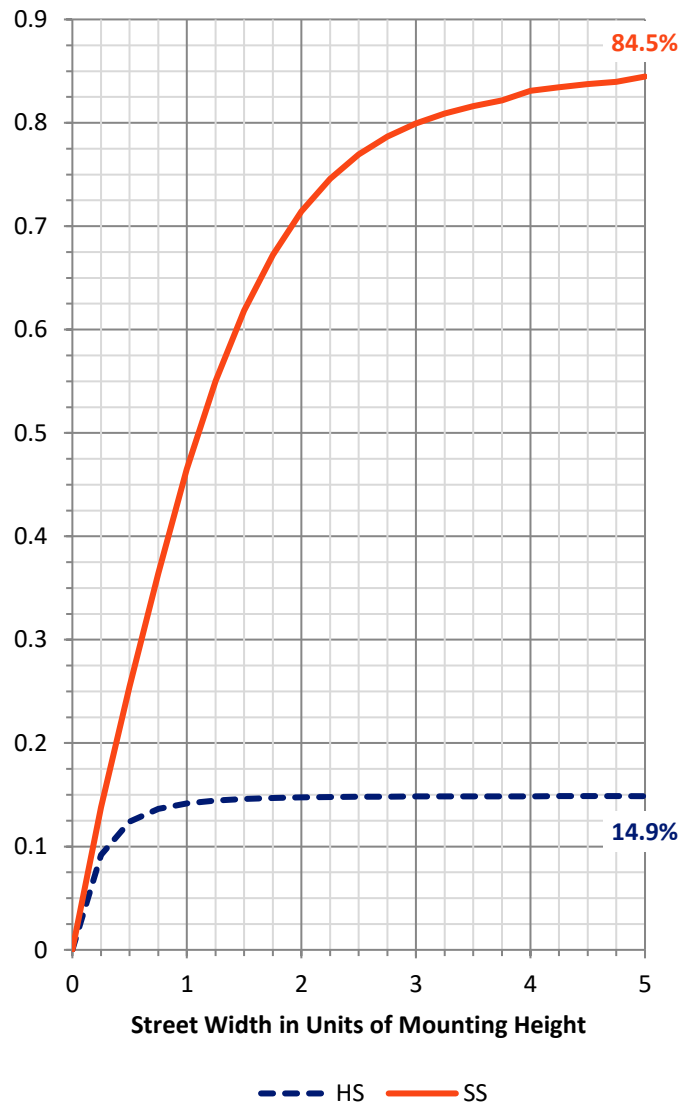
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3573.2	0.0	3573.2
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	20238.8	0.0	20238.8
	% Fixture	85.0	0.0	85.0
Total	Lumens	23812.0	0.0	23812.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	606.0	2.5
10°-20°	1193.2	5.0
20°-30°	1688.0	7.1
30°-40°	2481.8	10.4
40°-50°	3567.2	15.0
50°-60°	5021.6	21.1
60°-70°	5864.8	24.6
70°-80°	2992.0	12.6
80°-90°	397.5	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°	23812.0	100.0
0°-180°	23812.0	100.0

Coefficient of Utilization



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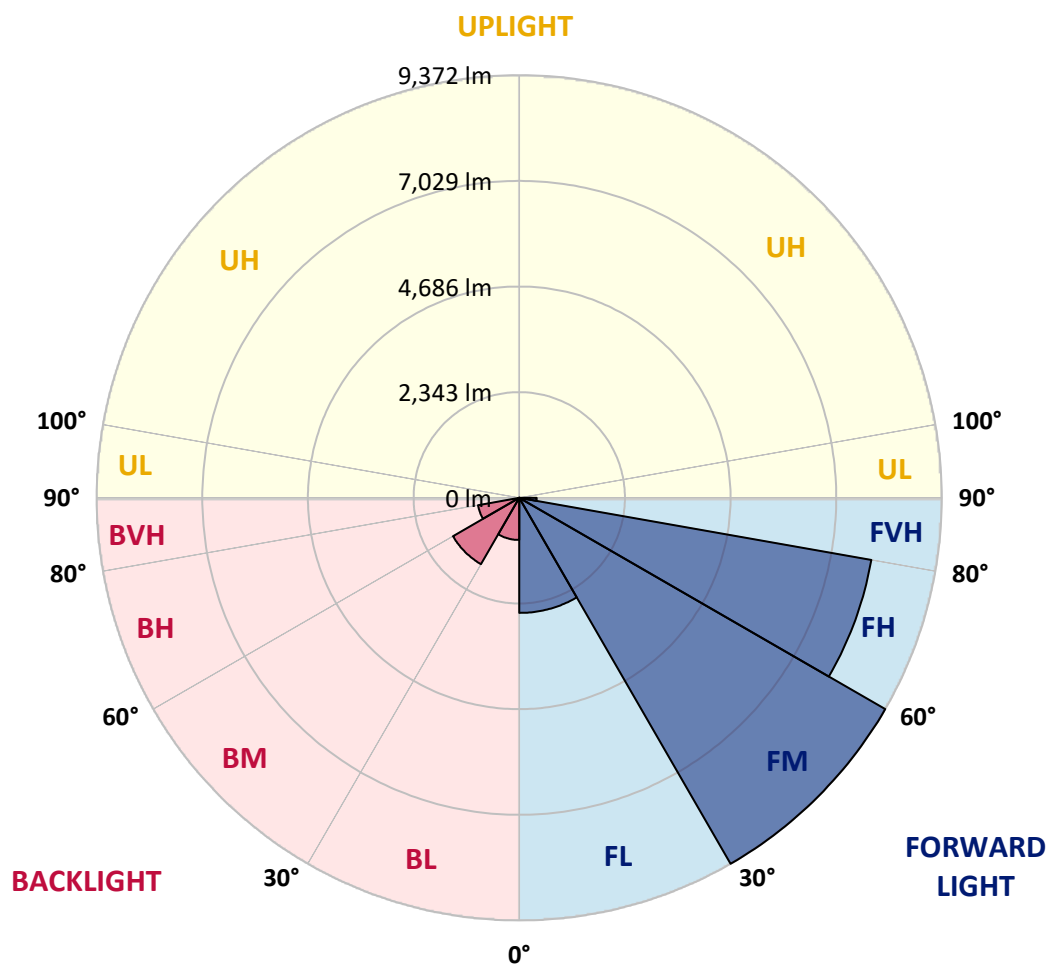
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2552.6	10.7			
FM	(30°-60°)	9372.0	39.4			
FH	(60°-80°)	7928.7	33.3			G4/12000
FVH	(80°-90°)	385.4	1.6			G3/500
BL	(0°-30°)	934.4	3.9	B2/1000		
BM	(30°-60°)	1698.6	7.1	B2/2500		
BH	(60°-80°)	928.1	3.9	B2/1000		G2/1000
BVH	(80°-90°)	12.1	0.1			G1/100
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



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7988.5	7988.5	7988.5	7988.5	7988.5	7988.5	7988.5	7988.5	7988.5	7988.5	7988.5
2.5°	8659.7	8673.2	8743.2	8905.6	9082.7	9096.2	9215.8	9092.8	9051.1	8852.6	8647.3
5°	8725.1	8777.0	9017.3	9494.4	9908.4	10041.5	10136.2	9894.8	9641.0	9156.0	8638.2
7.5°	8198.3	8285.2	8663.1	9558.7	10298.7	10625.8	10687.8	10309.9	9688.4	8889.8	8111.5
10°	7523.8	7623.0	8078.8	9179.7	10196.0	10756.6	10842.4	10347.2	9453.8	8458.9	7541.8
12.5°	6977.8	7094.0	7559.9	8753.3	9843.0	10463.4	10632.6	10222.0	9250.8	8153.2	7152.7
15°	6726.3	6859.4	7348.9	8478.1	9451.5	9940.0	10079.8	9902.7	9138.0	8104.7	7062.4
17.5°	6870.7	7015.1	7520.4	8501.8	9083.8	9292.5	9405.3	9477.5	9138.0	8396.9	7326.4
20°	7462.9	7618.5	8153.2	8742.0	8779.2	8701.4	8822.1	9075.9	9244.0	8951.8	7960.3
22.5°	8281.8	8464.5	9068.0	9153.7	8630.4	8335.9	8351.7	8749.9	9436.9	9655.7	8840.2
25°	9280.1	9503.4	10117.1	9767.4	8692.4	8118.2	8112.6	8481.5	9625.3	10360.7	9820.4
27.5°	10271.6	10517.5	11056.7	10516.4	8948.4	8078.8	8067.5	8400.2	9809.1	10987.9	10890.9
30°	11102.9	11342.1	11806.8	11058.9	9224.8	8171.3	8117.1	8487.1	9918.5	11395.1	11671.4
32.5°	11779.7	11971.5	12347.1	11432.3	9520.3	8350.6	8233.3	8719.5	10104.7	11739.1	12388.9
35°	12524.2	12726.1	12876.2	11787.6	9852.0	8608.9	8440.8	9088.3	10391.2	12088.8	13175.1
37.5°	13373.6	13574.4	13556.3	12112.5	10272.7	9036.4	8929.3	9672.6	10836.7	12435.1	14052.7
40°	14204.9	14410.2	14263.6	12467.8	10766.8	9741.4	9662.5	10550.2	11433.4	12878.4	15081.4
42.5°	14983.3	15205.5	14891.9	12804.0	11355.6	10630.3	10765.7	11680.5	12180.2	13424.4	15968.0
45°	15610.4	15837.2	15418.7	13131.1	11976.0	11708.7	12115.9	12932.6	13078.1	13885.7	16567.0
47.5°	16066.1	16280.5	15784.1	13458.2	12770.1	13027.3	13736.8	14245.6	13889.1	14286.2	16992.2
50°	16357.2	16524.1	15891.3	13867.7	13812.4	14565.9	15425.4	15673.6	14652.8	14647.1	17508.9
52.5°	16542.2	16617.7	15970.3	14295.2	14899.8	16241.0	17079.1	17156.9	15439.0	15044.2	18204.8
55°	17179.5	17240.4	16529.8	14812.9	15798.8	17708.5	18574.8	18502.6	16329.0	15821.4	19026.0
57.5°	18266.9	18331.2	17686.0	15557.4	16526.4	18615.4	19658.8	19788.6	17372.4	16913.3	19905.9
60°	18812.8	18932.4	18702.3	16500.4	17231.4	19195.2	20397.7	20811.7	18676.3	18352.6	20758.6
62.5°	18317.6	18491.4	18825.2	17546.1	17931.9	19514.5	20627.8	21178.3	20011.9	20030.0	21284.3
65°	17329.5	17468.3	18034.5	18119.1	18337.9	19475.0	20059.3	20666.1	20829.7	21570.8	21256.1
67.5°	16136.1	16188.0	16668.5	18164.2	17749.1	18288.3	18351.5	18800.4	20183.4	22116.8	20402.2
70°	14418.1	14446.3	14866.0	16653.8	15252.9	15371.3	15277.7	15369.0	17352.1	20786.8	18246.6
72.5°	11603.8	11674.8	12271.5	13830.4	11112.0	10770.2	11505.6	11465.0	13363.5	17561.9	13551.8
75°	8543.5	8666.4	9567.7	11140.2	7799.0	7054.5	7591.5	7734.7	9500.0	13584.5	8474.7
77.5°	5981.8	6073.2	6946.2	8189.3	5644.5	5044.4	4850.4	5020.7	6270.6	9827.2	4269.5
80°	3446.0	3479.9	4037.1	4728.6	3803.6	4351.8	3942.4	4059.7	3757.4	4372.1	1836.4
82.5°	2254.9	2260.5	2478.2	2814.4	2368.8	2752.3	2037.2	2604.6	2311.3	1756.3	597.8
85°	1218.2	1225.0	1437.1	1997.7	1341.2	758.0	445.6	914.8	1429.2	402.7	163.6
87.5°	134.2	123.0	433.2	726.4	372.2	68.8	23.7	102.6	229.0	25.9	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°	7988.5	7988.5	7988.5	7988.5	7988.5	7988.5	7988.5	7988.5	7988.5	7988.5	7988.5
2.5°	8542.4	8448.7	8215.2	7968.2	7769.7	7583.6	7396.3	7167.3	6990.2	6954.1	6895.5
5°	8359.6	8063.0	7573.4	7081.6	6685.7	6186.0	5869.0	5622.0	5380.6	5365.9	5317.4
7.5°	7721.2	7330.9	6641.7	5961.5	5404.3	4928.2	4447.7	4126.2	3873.6	3784.5	3731.4
10°	7107.5	6668.8	5808.1	5032.0	4534.6	4113.8	3775.4	3439.3	3134.7	2924.9	2830.2
12.5°	6678.9	6193.9	5245.2	4576.3	4219.9	3820.5	3407.7	2988.1	2637.3	2384.6	2230.1
15°	6513.1	5995.3	5056.8	4395.8	3955.9	3450.6	2922.7	2443.3	2054.1	1825.1	1686.4
17.5°	6710.5	6108.1	5042.2	4175.9	3561.1	2932.8	2349.6	1783.4	1416.8	1243.1	1153.9
20°	7211.3	6466.8	5036.5	3906.3	3091.9	2319.2	1591.6	1173.1	950.9	853.9	812.2
22.5°	7919.7	6924.8	5081.7	3640.1	2603.4	1657.0	1098.7	861.8	747.9	696.0	672.3
25°	8831.1	7567.8	5209.1	3398.7	2144.3	1236.3	856.2	721.9	641.8	601.2	584.3
27.5°	9802.3	8307.7	5407.6	3188.9	1771.0	985.9	733.2	618.1	560.6	532.4	516.6
30°	10603.2	9165.0	5608.4	2955.4	1500.2	859.5	671.2	564.0	497.4	479.4	464.7
32.5°	11303.7	9813.6	5750.6	2744.4	1323.1	763.7	606.9	504.2	459.1	424.1	408.3
35°	12029.0	10353.9	5746.0	2596.7	1201.3	691.5	552.7	451.2	397.1	356.4	344.0
37.5°	12814.1	10964.2	5647.9	2470.3	1148.3	633.9	522.3	423.0	368.9	328.2	312.5
40°	13733.4	11604.9	5547.5	2351.9	1133.6	587.7	500.8	400.4	342.9	303.4	287.6
42.5°	14629.1	12182.4	5459.5	2263.9	1070.5	586.6	481.7	383.5	322.6	284.3	266.2
45°	15345.4	12720.5	5442.6	2210.9	1003.9	606.9	471.5	372.2	306.8	268.5	251.5
47.5°	15940.9	13304.8	5550.9	2173.7	940.8	553.8	496.3	364.3	292.2	254.9	235.8
50°	16649.3	14022.2	5805.8	2112.8	874.2	498.6	568.5	366.6	279.7	241.4	221.1
52.5°	17637.5	15014.9	6180.3	2010.1	782.8	447.8	559.5	368.9	266.2	226.7	206.4
55°	18745.2	16254.5	6583.0	1839.8	655.4	381.3	479.4	353.1	240.3	210.9	191.8
57.5°	19909.3	17379.1	6822.2	1636.7	521.1	329.4	383.5	321.5	212.1	189.5	177.1
60°	20092.0	17806.7	6712.7	1387.4	414.0	286.5	284.3	327.1	189.5	166.9	157.9
62.5°	19637.4	17269.7	6183.7	1165.2	346.3	251.5	233.5	285.4	171.5	148.9	139.9
65°	18763.2	15818.0	5326.4	1050.2	321.5	215.4	194.0	200.8	150.0	129.7	121.8
67.5°	17547.2	13880.1	4373.3	984.7	318.1	185.0	165.8	152.3	129.7	112.8	106.0
70°	15061.1	11563.2	3488.9	948.7	309.1	155.7	139.9	124.1	108.3	95.9	90.2
72.5°	11084.9	8193.8	2714.0	909.2	311.3	124.1	121.8	102.6	86.9	74.4	72.2
75°	6404.8	4681.2	1780.0	736.6	296.7	95.9	101.5	72.2	60.9	51.9	51.9
77.5°	3413.3	2855.0	677.9	306.8	108.3	60.9	57.5	42.9	38.4	31.6	30.5
80°	1487.8	1256.6	204.2	85.7	59.8	32.7	21.4	19.2	16.9	13.5	12.4
82.5°	526.8	454.6	66.6	41.7	25.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	119.6	85.7	0.0	10.2	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°	7988.5	7988.5	7988.5	7988.5	7988.5	7988.5	7988.5	7988.5	7988.5	7988.5	7988.5
2.5°	6775.9	6751.1	6604.5	6610.1	6636.0	6673.3	6585.3	6625.9	6735.3	6840.2	6879.7
5°	5239.6	5245.2	5156.1	5211.4	5261.0	5294.8	5152.7	5155.0	5241.8	5360.3	5422.3
7.5°	3692.0	3682.9	3687.4	3819.4	3913.0	3845.4	3898.4	3714.5	3725.8	3810.4	3747.2
10°	2744.4	2620.4	2550.4	2649.7	2752.3	2715.1	2623.7	2564.0	2605.7	2699.3	2692.5
12.5°	2156.7	1978.5	1873.6	1802.5	1887.1	1817.2	1815.0	1763.1	1706.7	1716.8	1866.8
15°	1622.1	1492.3	1368.3	1254.3	1252.1	1228.4	1107.7	972.3	961.1	967.8	1045.7
17.5°	1115.6	1071.6	1020.8	922.7	896.8	797.5	680.2	626.0	599.0	611.4	637.3
20°	784.0	767.0	772.7	719.7	682.4	587.7	518.9	497.4	492.9	505.3	517.8
22.5°	649.7	619.3	615.9	592.2	555.0	486.2	448.9	436.5	430.9	442.2	451.2
25°	568.5	538.1	525.6	511.0	471.5	424.1	401.6	390.3	384.6	391.4	397.1
27.5°	500.8	472.6	461.4	451.2	412.8	379.0	361.0	350.8	346.3	348.6	354.2
30°	450.1	425.3	410.6	398.2	365.5	341.8	326.0	315.8	311.3	311.3	317.0
32.5°	397.1	383.5	370.0	354.2	323.7	307.9	292.2	280.9	276.4	277.5	282.0
35°	330.5	326.0	329.4	314.7	288.8	275.2	259.4	247.0	243.6	244.8	249.3
37.5°	293.3	273.0	285.4	277.5	262.8	244.8	224.5	213.2	207.6	210.9	213.2
40°	269.6	244.8	235.8	243.6	241.4	212.1	194.0	182.7	178.2	179.4	181.6
42.5°	249.3	220.0	199.7	198.5	212.1	185.0	165.8	155.7	150.0	150.0	152.3
45°	230.1	198.5	173.7	154.5	178.2	156.8	138.7	129.7	123.0	123.0	124.1
47.5°	215.4	180.5	151.2	126.3	134.2	128.6	113.9	104.9	98.1	98.1	99.3
50°	201.9	162.4	130.8	106.0	100.4	106.0	92.5	82.3	77.8	76.7	79.0
52.5°	187.2	144.4	111.7	90.2	79.0	80.1	72.2	65.4	59.8	59.8	62.0
55°	172.6	129.7	97.0	76.7	65.4	59.8	57.5	53.0	48.5	48.5	50.8
57.5°	157.9	113.9	82.3	63.2	51.9	47.4	47.4	44.0	40.6	40.6	42.9
60°	144.4	98.1	67.7	51.9	40.6	39.5	40.6	37.2	35.0	35.0	37.2
62.5°	128.6	83.5	55.3	42.9	32.7	31.6	35.0	32.7	30.5	30.5	32.7
65°	109.4	71.1	44.0	32.7	24.8	24.8	29.3	27.1	24.8	24.8	27.1
67.5°	92.5	59.8	33.8	23.7	18.0	19.2	24.8	22.6	21.4	21.4	23.7
70°	76.7	46.2	23.7	14.7	10.2	14.7	19.2	19.2	19.2	19.2	21.4
72.5°	57.5	31.6	13.5	5.6	4.5	10.2	15.8	18.0	16.9	16.9	20.3
75°	37.2	18.0	4.5	0.0	0.0	5.6	12.4	14.7	14.7	13.5	16.9
77.5°	21.4	5.6	0.0	0.0	0.0	0.0	7.9	6.8	5.6	4.5	7.9
80°	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

REPORT NUMBER: P324321

CATALOG NUMBER: GAN-SA7B-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7988.5	7988.5	7988.5	7988.5	7988.5	7988.5	7988.5	7988.5	7988.5	7988.5
2.5°	7038.7	7171.8	7359.1	7557.6	7863.3	8105.8	8343.8	8548.0	8627.0	8659.7
5°	5571.2	5766.4	6040.5	6392.4	6944.0	7440.3	7943.4	8449.9	8669.8	8725.1
7.5°	3997.6	4246.9	4595.5	5036.5	5682.9	6325.8	7028.6	7771.9	8112.6	8198.3
10°	2958.8	3263.3	3662.6	4127.4	4744.4	5405.4	6171.3	7020.7	7409.9	7523.8
12.5°	2099.2	2510.9	3045.6	3610.7	4145.4	4735.4	5510.3	6446.5	6854.9	6977.8
15°	1232.9	1631.1	2263.9	3020.8	3705.5	4303.3	5090.7	6152.1	6602.2	6726.3
17.5°	707.3	905.8	1384.1	2227.8	3157.3	3985.2	4958.7	6225.4	6755.6	6870.7
20°	540.3	603.5	797.5	1434.8	2516.6	3672.8	4958.7	6640.6	7293.7	7462.9
22.5°	472.6	518.9	597.8	856.2	1852.2	3337.8	5016.2	7240.7	8094.6	8281.8
25°	419.6	461.4	529.0	644.1	1263.4	2939.6	5152.7	7977.2	9037.6	9280.1
27.5°	375.6	415.1	476.0	564.0	864.1	2459.0	5336.6	8841.3	10077.6	10271.6
30°	336.1	373.4	428.6	490.7	666.6	1914.2	5493.4	9655.7	10894.3	11102.9
32.5°	298.9	332.8	382.4	428.6	546.0	1415.6	5510.3	10300.9	11572.2	11779.7
35°	264.0	294.4	339.5	375.6	452.3	1117.9	5247.5	10860.4	12250.1	12524.2
37.5°	230.1	259.4	298.9	326.0	398.2	911.4	4845.9	11484.2	13119.8	13373.6
40°	198.5	224.5	265.1	283.1	376.8	700.5	4409.4	12138.4	13972.6	14204.9
42.5°	169.2	194.0	233.5	268.5	330.5	523.4	3937.9	12752.1	14739.6	14983.3
45°	141.0	166.9	206.4	284.3	274.1	391.4	3433.6	13159.3	15345.4	15610.4
47.5°	113.9	143.3	197.4	270.7	218.8	287.6	3034.3	13545.1	15804.5	16066.1
50°	91.4	120.7	222.2	241.4	179.4	220.0	2867.4	13890.2	16105.6	16357.2
52.5°	74.4	101.5	209.8	185.0	150.0	181.6	2957.6	14449.7	16384.2	16542.2
55°	62.0	80.1	126.3	128.6	127.5	154.5	3069.3	15252.9	17105.0	17179.5
57.5°	54.1	64.3	88.0	99.3	107.2	137.6	3071.6	16405.7	18220.6	18266.9
60°	46.2	56.4	73.3	80.1	92.5	123.0	2959.9	16808.4	18659.4	18812.8
62.5°	40.6	49.6	60.9	66.6	77.8	110.5	2698.2	16225.2	18057.1	18317.6
65°	36.1	45.1	50.8	56.4	68.8	99.3	2267.3	15058.8	17057.7	17329.5
67.5°	31.6	39.5	45.1	50.8	62.0	88.0	1669.4	13704.1	15910.5	16136.1
70°	28.2	35.0	40.6	45.1	54.1	74.4	1012.9	11628.6	14324.5	14418.1
72.5°	27.1	31.6	37.2	40.6	47.4	65.4	513.2	8545.8	11451.5	11603.8
75°	23.7	28.2	33.8	36.1	41.7	56.4	208.7	5612.9	8298.7	8543.5
77.5°	19.2	25.9	30.5	32.7	36.1	46.2	106.0	3587.1	5823.9	5981.8
80°	6.8	19.2	25.9	27.1	30.5	33.8	69.9	1963.9	3378.4	3446.0
82.5°	0.0	12.4	20.3	19.2	21.4	25.9	45.1	934.0	2230.1	2254.9
85°	0.0	5.6	15.8	12.4	9.0	18.0	15.8	204.2	1169.7	1218.2
87.5°	0.0	0.0	1.1	5.6	4.5	6.8	2.3	1.1	106.0	134.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)