

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: P324559

Luminaire Tested: **GAN-SA5B-760-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324559
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-SA5B-760-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 800mA 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: 21172 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

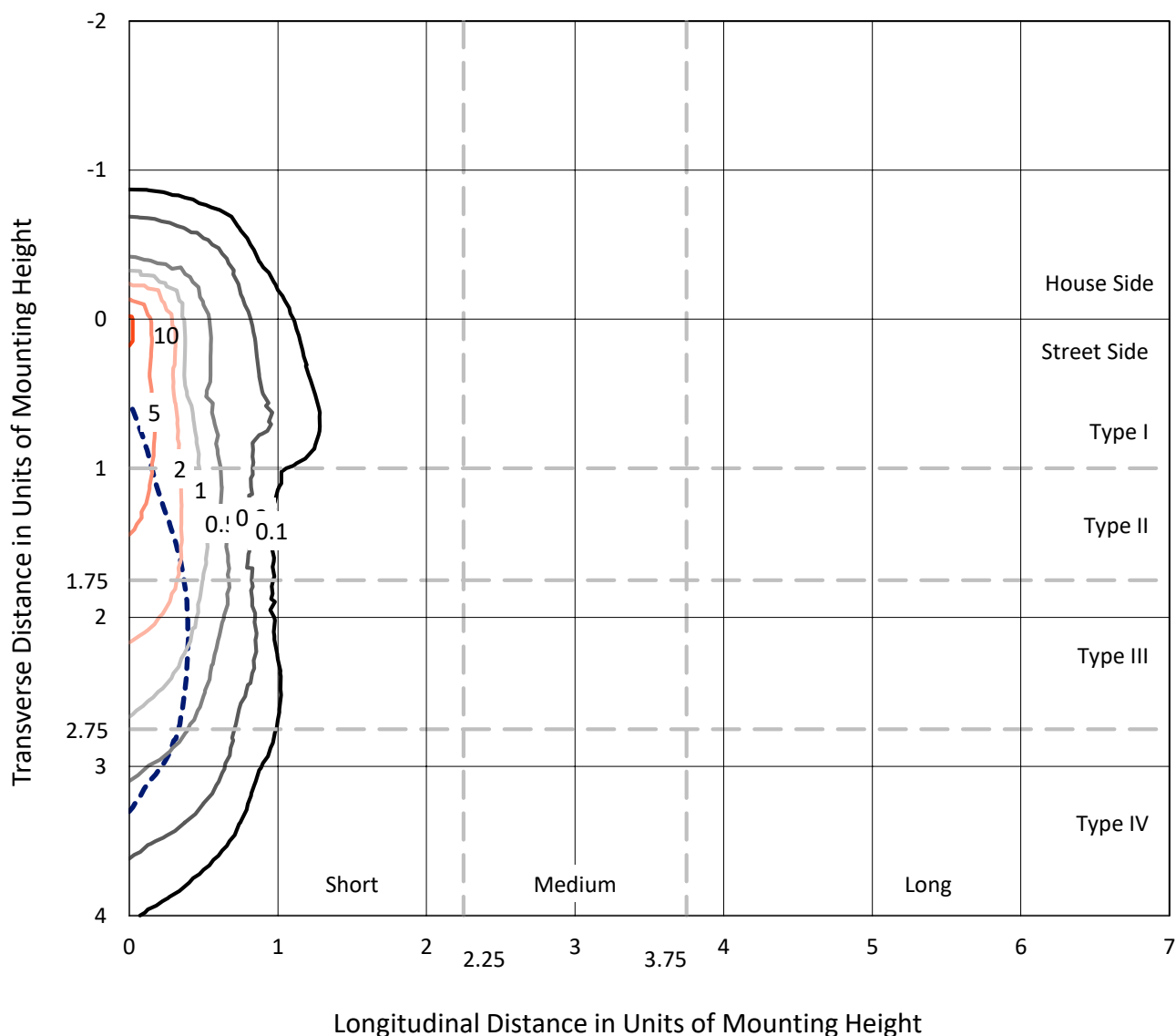
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

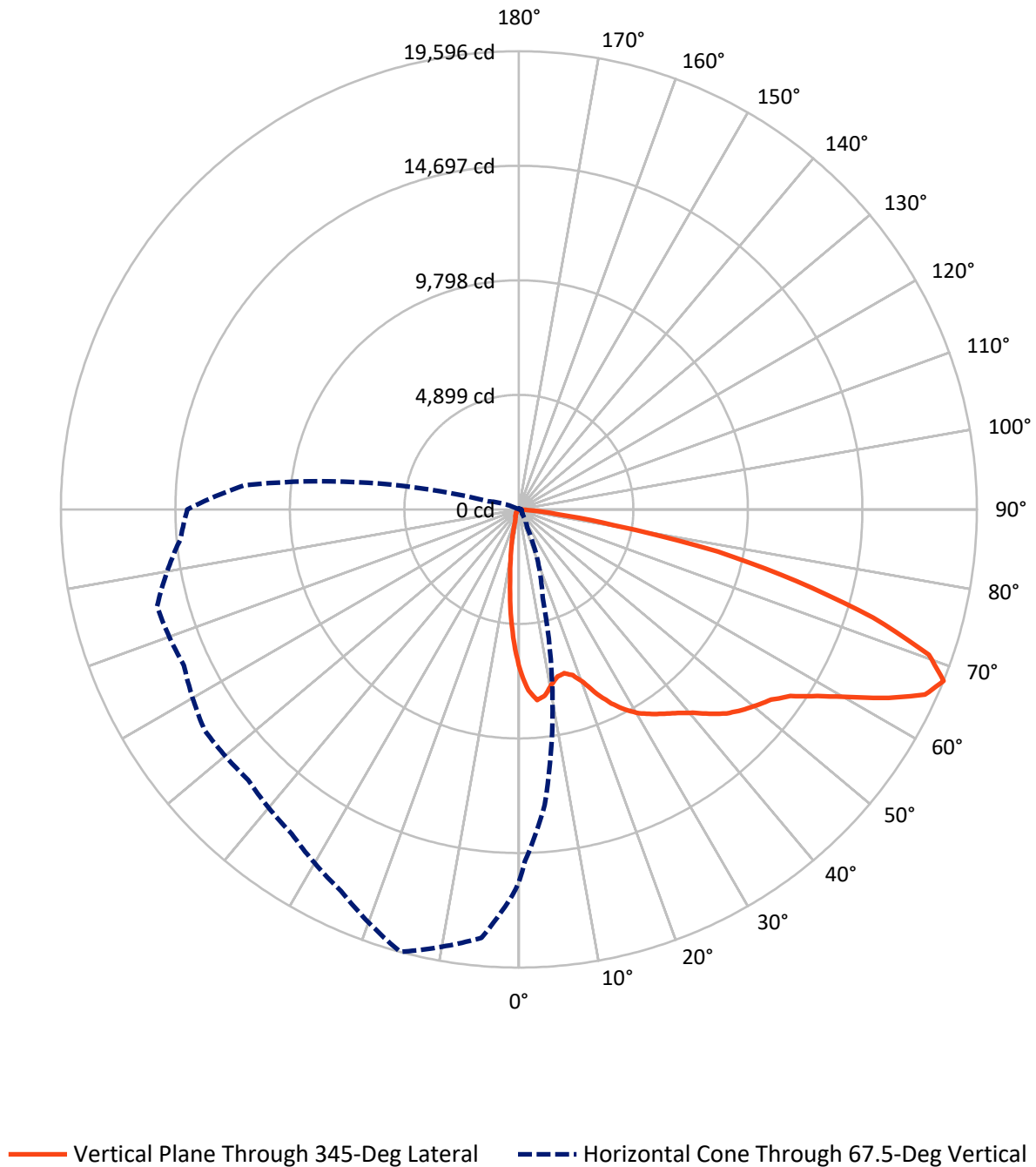
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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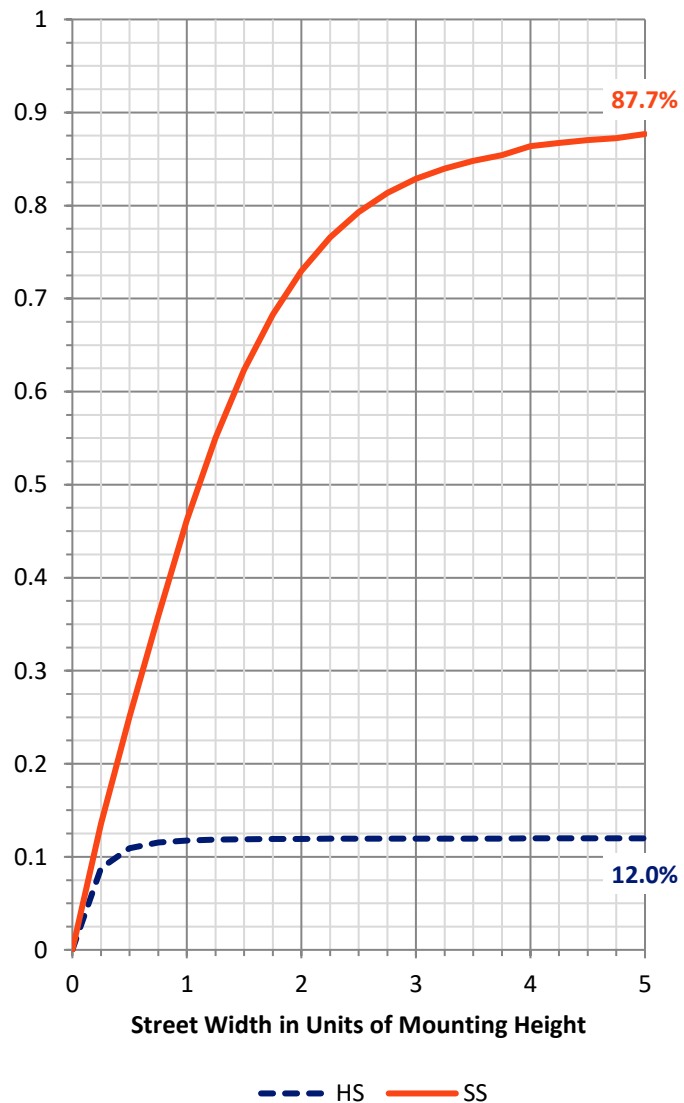
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2562.5	0.0	2562.5
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	18609.5	0.0	18609.5
	% Fixture	87.9	0.0	87.9
Total	Lumens	21172.0	0.0	21172.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.3	2.5
10°-20°	1053.6	5.0
20°-30°	1496.1	7.1
30°-40°	2209.8	10.4
40°-50°	3187.1	15.1
50°-60°	4474.0	21.1
60°-70°	5215.4	24.6
70°-80°	2666.2	12.6
80°-90°	340.5	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°	21172.0	100.0
0°-180°	21172.0	100.0

Coefficient of Utilization



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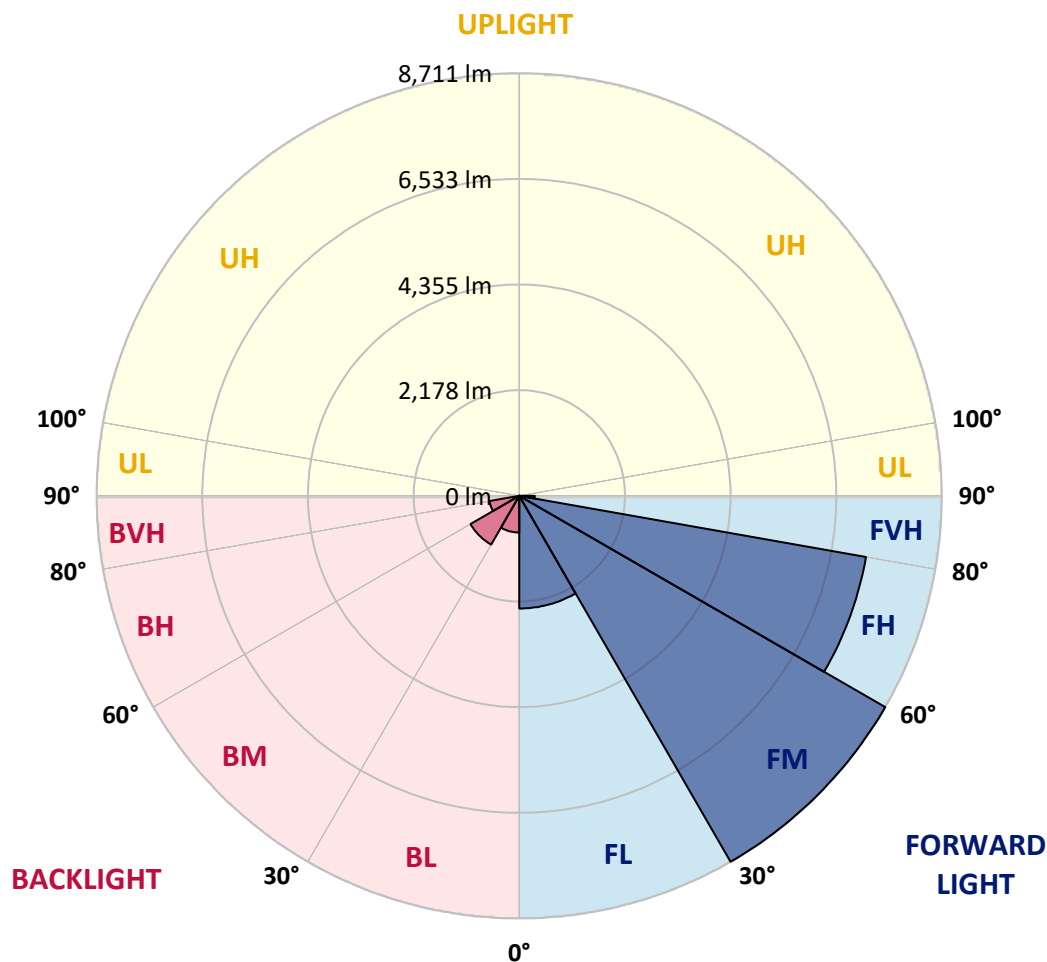
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2322.2	11.0			
FM	(30°-60°)	8710.5	41.1			
FH	(60°-80°)	7257.0	34.3			G3/7500
FVH	(80°-90°)	319.8	1.5			G3/500
BL	(0°-30°)	756.9	3.6	B2/1000		
BM	(30°-60°)	1160.4	5.5	B2/2500		
BH	(60°-80°)	624.6	2.9	B2/1000		G2/1000
BVH	(80°-90°)	20.7	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-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6896.7	6896.7	6896.7	6896.7	6896.7	6896.7	6896.7	6896.7	6896.7	6896.7	6896.7
2.5°	7551.7	7493.5	7429.3	7219.7	7025.1	6802.5	6620.9	6494.5	6336.1	6130.4	6078.3
5°	7497.5	7435.4	7233.8	6767.4	6359.1	5961.9	5578.8	5354.1	5075.3	4792.4	4722.2
7.5°	6952.9	6887.7	6596.8	5957.9	5408.3	4834.5	4337.0	4029.1	3714.2	3455.4	3318.0
10°	6386.2	6315.0	5988.0	5212.7	4535.6	4017.1	3652.0	3358.1	3060.2	2783.4	2562.7
12.5°	5996.0	5902.8	5547.7	4669.0	4079.3	3727.2	3386.2	3034.1	2630.9	2334.0	2091.3
15°	5832.5	5726.2	5351.1	4459.4	3917.8	3504.5	3060.2	2627.9	2155.5	1815.5	1592.8
17.5°	5958.9	5820.5	5418.3	4445.4	3715.2	3152.5	2590.8	2083.3	1570.7	1226.7	1068.2
20°	6388.2	6206.7	5696.1	4441.4	3469.4	2734.2	2022.1	1448.4	1035.1	832.5	749.3
22.5°	7064.2	6824.5	6095.3	4473.5	3215.7	2294.9	1460.4	984.0	777.3	672.0	622.9
25°	7880.7	7602.9	6670.1	4586.8	2993.0	1867.6	1061.2	777.3	656.0	578.7	537.6
27.5°	8657.0	8431.4	7396.2	4750.3	2820.5	1522.6	861.6	659.0	560.7	509.5	476.4
30°	9432.4	9148.5	8141.5	4944.9	2612.9	1288.9	757.3	600.8	502.5	448.3	427.3
32.5°	9996.1	9760.4	8725.2	5085.3	2391.2	1136.4	677.0	549.7	469.4	414.2	383.2
35°	10659.1	10392.3	9225.7	5116.4	2248.8	1040.1	608.8	494.5	407.2	358.1	325.0
37.5°	11375.2	11043.2	9803.5	5048.2	2137.4	993.0	557.7	469.4	380.1	330.0	294.9
40°	12167.6	11792.5	10358.1	4949.9	2028.1	976.9	518.6	450.4	359.1	307.9	271.8
42.5°	13002.1	12559.8	10838.6	4846.6	1958.9	921.8	514.5	431.3	343.0	287.9	251.8
45°	13703.2	13254.9	11332.1	4812.5	1909.7	861.6	531.6	418.3	332.0	271.8	236.7
47.5°	14261.9	13837.6	11837.6	4888.7	1881.7	806.4	484.5	435.3	326.0	257.8	223.7
50°	14928.9	14448.4	12549.7	5116.4	1840.5	751.3	438.3	498.5	326.0	248.7	212.6
52.5°	15765.4	15290.0	13344.1	5469.4	1758.3	675.0	394.2	499.5	329.0	236.7	198.6
55°	16817.6	16472.5	14478.5	5856.6	1626.9	562.7	341.0	429.3	317.0	214.6	185.6
57.5°	17826.6	17544.8	15512.6	6121.4	1451.4	439.3	296.9	346.0	289.9	188.6	165.5
59°	18102.4	17794.5	15891.8	6133.4	1320.0	383.2	274.8	285.9	283.9	176.5	153.5
60°	18102.4	17775.5	16001.1	6069.3	1224.7	352.1	260.8	254.8	295.9	168.5	146.4
62.5°	17774.5	17315.1	15646.1	5634.9	999.0	299.9	227.7	210.6	265.8	151.5	129.4
65°	17092.4	16423.4	14436.4	4849.6	890.7	274.8	196.6	172.5	184.6	133.4	113.3
67.5°	15955.0	15048.3	12692.2	3917.8	847.5	267.8	169.5	146.4	139.4	114.3	99.3
70°	13952.0	12945.9	10574.8	3080.3	810.4	264.8	142.4	123.4	112.3	96.3	84.3
72.5°	10154.5	9105.4	7507.6	2408.2	788.4	270.8	114.3	103.3	92.3	75.2	65.2
75°	5808.5	5121.4	4219.7	1590.8	672.0	258.8	88.3	86.3	66.2	54.2	45.1
77.5°	3001.0	2909.8	2528.6	610.8	322.0	113.3	58.2	50.2	39.1	33.1	27.1
80°	1294.9	1280.9	1108.3	176.5	85.3	63.2	33.1	21.1	18.1	14.0	11.0
82.5°	447.3	447.3	394.2	59.2	38.1	31.1	4.0	0.0	0.0	0.0	0.0
85°	90.3	101.3	71.2	0.0	13.0	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°	6896.7	6896.7	6896.7	6896.7	6896.7	6896.7	6896.7	6896.7	6896.7	6896.7	6896.7
2.5°	6015.1	5893.7	5885.7	5809.5	5714.2	5671.1	5646.0	5690.1	5744.3	5750.3	5831.5
5°	4669.0	4541.7	4594.8	4459.4	4486.5	4459.4	4415.3	4423.3	4447.4	4372.1	4465.4
7.5°	3278.9	3182.6	3243.8	3207.6	3255.8	3274.8	3247.8	3207.6	3089.3	3075.2	3156.5
10°	2471.4	2362.1	2296.9	2228.7	2243.7	2274.8	2264.8	2235.7	2160.5	2164.5	2242.7
12.5°	1986.0	1863.6	1734.2	1566.7	1525.6	1548.7	1525.6	1508.5	1436.3	1442.3	1511.5
15°	1506.5	1406.2	1270.8	1136.4	1063.2	1070.2	1006.0	960.9	915.8	861.6	903.7
17.5°	1017.1	955.9	915.8	875.6	788.4	768.3	687.1	599.8	565.7	540.6	558.7
20°	720.2	687.1	671.0	669.0	618.9	593.8	514.5	460.4	443.3	438.3	449.4
22.5°	601.8	577.7	554.7	541.6	516.6	487.5	427.3	400.2	388.2	382.1	390.2
25°	523.6	505.5	481.4	459.4	449.4	418.3	375.1	355.1	347.0	341.0	345.0
27.5°	465.4	449.4	421.3	407.2	399.2	372.1	335.0	319.0	311.9	309.9	308.9
30°	419.3	404.2	378.1	362.1	348.0	324.0	301.9	285.9	278.8	276.8	274.8
32.5°	373.1	361.1	344.0	328.0	312.9	290.9	271.8	258.8	247.7	245.7	244.7
35°	314.9	302.9	293.9	292.9	278.8	257.8	243.7	226.7	217.7	214.6	215.6
37.5°	279.8	263.8	243.7	250.8	246.7	231.7	212.6	195.6	186.6	184.6	184.6
40°	257.8	240.7	217.7	205.6	217.7	214.6	184.6	167.5	158.5	157.5	155.5
42.5°	236.7	219.7	193.6	173.5	179.5	188.6	159.5	143.4	134.4	132.4	129.4
45°	221.7	203.6	174.5	151.5	139.4	158.5	136.4	116.3	111.3	107.3	105.3
47.5°	207.6	190.6	157.5	131.4	111.3	114.3	109.3	95.3	89.3	85.3	84.3
50°	195.6	177.5	142.4	112.3	92.3	84.3	88.3	75.2	70.2	66.2	64.2
52.5°	181.5	164.5	126.4	97.3	77.2	66.2	67.2	59.2	54.2	51.2	50.2
55°	170.5	153.5	113.3	85.3	68.2	54.2	48.1	46.1	43.1	41.1	40.1
57.5°	155.5	139.4	100.3	72.2	58.2	44.1	37.1	37.1	36.1	34.1	33.1
59°	146.4	132.4	92.3	65.2	53.2	38.1	33.1	34.1	33.1	31.1	30.1
60°	139.4	126.4	86.3	60.2	50.2	35.1	30.1	32.1	31.1	29.1	28.1
62.5°	123.4	114.3	74.2	50.2	44.1	28.1	25.1	27.1	27.1	26.1	25.1
65°	108.3	98.3	63.2	42.1	41.1	24.1	20.1	24.1	25.1	23.1	21.1
67.5°	94.3	84.3	55.2	34.1	38.1	19.1	15.0	20.1	27.1	21.1	19.1
70°	80.2	70.2	43.1	27.1	40.1	13.0	12.0	18.1	32.1	23.1	18.1
72.5°	62.2	54.2	30.1	20.1	43.1	9.0	9.0	15.0	36.1	25.1	17.1
75°	43.1	35.1	18.1	12.0	35.1	6.0	6.0	14.0	34.1	23.1	16.0
77.5°	25.1	19.1	6.0	1.0	18.1	0.0	1.0	10.0	24.1	14.0	7.0
80°	9.0	4.0	0.0	0.0	11.0	0.0	0.0	0.0	2.0	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6896.7	6896.7	6896.7	6896.7	6896.7	6896.7	6896.7	6896.7	6896.7	6896.7	6896.7
2.5°	5852.6	5988.0	6109.4	6292.9	6510.6	6761.3	6977.0	7208.7	7426.3	7516.6	7578.8
5°	4484.5	4652.0	4847.6	5117.4	5476.5	5918.8	6333.0	6801.5	7305.0	7556.7	7793.4
7.5°	3170.5	3341.0	3583.8	3870.6	4304.9	4831.5	5373.2	6020.1	6702.2	7100.4	7492.5
10°	2279.9	2489.5	2716.2	3108.3	3549.7	4049.2	4606.9	5329.0	6089.3	6530.6	7003.1
12.5°	1551.7	1790.4	2133.4	2572.7	3091.3	3580.8	4065.2	4754.3	5637.0	6074.3	6580.8
15°	930.8	1063.2	1426.3	1934.8	2570.7	3180.6	3711.2	4402.2	5343.1	5878.7	6405.3
17.5°	573.7	634.9	832.5	1249.8	1917.8	2689.1	3416.3	4282.9	5385.2	6037.2	6600.8
20°	457.4	481.4	544.6	738.2	1270.8	2147.5	3084.3	4258.8	5729.2	6531.6	7136.5
22.5°	397.2	420.3	462.4	536.6	799.4	1607.8	2769.3	4280.9	6222.7	7272.9	7979.0
25°	350.1	370.1	410.2	471.4	585.8	1132.4	2432.3	4379.2	6865.6	8192.6	8942.9
27.5°	312.9	330.0	367.1	423.3	502.5	790.4	2050.2	4498.5	7627.9	9133.5	9873.7
30°	278.8	293.9	327.0	379.1	436.3	607.8	1630.9	4579.8	8391.2	9873.7	10538.7
32.5°	249.8	260.8	290.9	335.0	379.1	484.5	1239.7	4566.7	8957.9	10489.5	11017.1
35°	219.7	230.7	256.8	294.9	330.0	400.2	974.9	4323.0	9451.4	11128.5	11564.8
37.5°	186.6	200.6	225.7	259.8	283.9	352.1	788.4	4029.1	9951.9	11858.7	12175.6
40°	158.5	172.5	194.6	231.7	246.7	334.0	605.8	3671.0	10514.6	12675.1	12845.6
42.5°	131.4	144.4	167.5	199.6	232.7	287.9	448.3	3261.8	11055.2	13373.2	13456.5
45°	106.3	119.4	143.4	175.5	248.7	238.7	347.0	2823.5	11491.6	13954.0	13981.0
47.5°	84.3	96.3	121.4	165.5	231.7	190.6	247.7	2479.5	11857.7	14407.3	14336.1
50°	65.2	75.2	101.3	189.6	202.6	157.5	187.6	2365.1	12185.6	14688.2	14503.6
52.5°	51.2	60.2	83.3	177.5	157.5	130.4	157.5	2472.4	12635.0	14920.9	14597.9
55°	41.1	50.2	65.2	101.3	107.3	110.3	134.4	2572.7	13410.3	15466.5	15154.6
57.5°	34.1	43.1	53.2	71.2	81.2	93.3	119.4	2583.8	14324.1	16373.2	16078.4
59°	31.1	39.1	48.1	63.2	71.2	85.3	112.3	2523.6	14646.0	16703.2	16555.8
60°	29.1	37.1	45.1	58.2	66.2	80.2	108.3	2466.4	14660.1	16691.2	16759.4
62.5°	25.1	33.1	40.1	49.1	56.2	68.2	97.3	2254.8	14066.3	16144.5	16637.0
65°	22.1	29.1	36.1	42.1	48.1	61.2	88.3	1868.6	13052.3	15262.9	15799.5
67.5°	20.1	25.1	33.1	37.1	43.1	54.2	78.2	1332.0	11785.4	14184.7	14532.7
70°	18.1	24.1	30.1	34.1	39.1	47.1	67.2	765.3	9951.9	12605.9	12853.7
72.5°	17.1	23.1	27.1	32.1	35.1	42.1	61.2	360.1	7286.9	10098.4	10745.3
75°	15.0	21.1	25.1	30.1	33.1	38.1	52.2	172.5	4846.6	7308.0	8043.2
77.5°	9.0	17.1	23.1	27.1	29.1	33.1	43.1	99.3	3093.3	5058.2	5957.9
80°	0.0	6.0	17.1	23.1	25.1	28.1	33.1	78.2	1655.0	2889.7	3468.4
82.5°	0.0	0.0	12.0	18.1	17.1	19.1	25.1	49.1	746.2	1888.7	2128.4
85°	0.0	0.0	4.0	14.0	12.0	9.0	17.1	17.1	163.5	955.9	1192.6
87.5°	0.0	0.0	0.0	1.0	6.0	4.0	7.0	2.0	1.0	71.2	288.9
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: P324559

CATALOG NUMBER: GAN-SA5B-760-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6896.7	6896.7	6896.7	6896.7	6896.7	6896.7	6896.7	6896.7	6896.7	6896.7
2.5°	7796.4	7870.7	7996.0	8055.2	8026.1	7902.8	7755.3	7604.9	7516.6	7551.7
5°	8275.9	8658.0	8878.7	8951.9	8829.6	8552.7	8190.6	7713.2	7543.7	7497.5
7.5°	8275.9	8995.0	9450.4	9530.7	9257.8	8715.2	8036.2	7290.9	7043.2	6952.9
10°	7985.0	8964.0	9598.9	9726.2	9345.1	8533.7	7623.9	6773.4	6479.5	6386.2
12.5°	7657.0	8711.2	9380.2	9555.7	9242.8	8353.1	7338.1	6423.3	6077.3	5996.0
15°	7455.4	8400.3	8953.9	9081.3	8948.9	8247.8	7269.9	6318.0	5910.8	5832.5
17.5°	7527.6	8159.5	8359.1	8433.4	8522.6	8210.7	7455.4	6548.7	6033.1	5958.9
20°	7799.5	7905.8	7802.5	7895.7	8136.5	8246.8	7897.7	7106.4	6487.5	6388.2
22.5°	8260.8	7774.4	7484.5	7521.6	7814.5	8366.2	8573.8	7902.8	7188.6	7064.2
25°	8798.5	7880.7	7308.0	7274.9	7575.8	8523.6	9191.6	8769.4	8018.1	7880.7
27.5°	9474.5	8119.4	7271.9	7238.8	7492.5	8671.1	9705.2	9625.9	8891.7	8657.0
30°	9996.1	8354.1	7379.2	7303.0	7575.8	8773.4	10117.4	10353.1	9587.8	9432.4
32.5°	10370.2	8631.0	7553.7	7443.4	7810.5	8949.9	10435.4	11019.1	10231.8	9996.1
35°	10655.0	8931.9	7835.6	7654.0	8133.5	9217.7	10733.3	11728.3	10916.8	10659.1
37.5°	10921.8	9354.1	8275.9	8059.2	8640.0	9649.0	11048.2	12532.7	11683.1	11375.2
40°	11294.0	9832.6	8954.9	8762.3	9491.5	10236.8	11441.4	13371.2	12554.8	12167.6
42.5°	11666.1	10346.1	9650.0	9702.2	10553.7	10950.9	11948.9	14257.9	13415.3	13002.1
45°	12006.1	10875.7	10640.0	10880.7	11539.7	11734.3	12453.4	14770.4	14102.4	13703.2
47.5°	12309.0	11537.7	11624.0	12264.9	12661.1	12443.4	12830.6	15212.7	14613.9	14261.9
50°	12661.1	12394.3	12920.9	13827.6	13952.0	13085.4	13173.6	15736.3	15211.7	14928.9
52.5°	13046.2	13297.0	14357.2	15156.6	15116.5	13782.4	13518.7	16323.1	16031.2	15765.4
55°	13483.5	14026.2	15622.0	16400.3	16366.2	14560.8	14090.4	17048.3	17058.3	16817.6
57.5°	14132.5	14654.1	16480.6	17406.3	17463.5	15459.5	15059.3	17860.7	17987.1	17826.6
59°	14597.9	15061.3	16820.6	17826.6	18059.3	16154.6	15767.4	18332.1	18248.9	18102.4
60°	14942.9	15320.1	16989.1	18046.3	18405.3	16626.0	16290.0	18609.0	18280.0	18102.4
62.5°	15796.5	15883.8	17293.0	18295.0	18803.5	17673.1	17760.4	19080.4	18064.3	17774.5
65°	16194.7	16239.8	17289.0	17849.7	18418.4	18488.6	19094.4	19094.4	17537.7	17092.4
67.5°	16028.2	15810.5	16431.4	16373.2	16940.9	18004.1	19595.9	18394.3	16530.7	15955.0
70°	14674.1	13836.6	13560.8	13585.9	14020.2	15660.1	18602.9	16334.1	14625.0	13952.0
72.5°	12209.7	10200.7	9519.6	10297.0	10410.3	12035.2	15853.7	12301.0	10785.4	10154.5
75°	9820.5	7190.6	6083.3	6903.8	7096.3	8807.5	12263.9	7661.0	6299.9	5808.5
77.5°	7055.2	5161.5	4365.1	4308.0	4556.7	5585.8	8702.2	3855.6	3215.7	3001.0
80°	4008.1	3397.2	3658.0	3451.4	3576.8	3492.5	4134.4	1691.1	1385.2	1294.9
82.5°	2419.3	2008.0	2174.5	1810.4	2290.9	1995.0	1592.8	541.6	470.4	447.3
85°	1573.7	1097.3	571.7	383.2	789.4	1274.8	356.1	147.4	113.3	90.3
87.5°	542.6	279.8	28.1	12.0	84.3	237.7	13.0	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)