

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: P324579

Luminaire Tested: **GAN-SA5D-760-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324579
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-SA5D-760-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 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: 28747 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

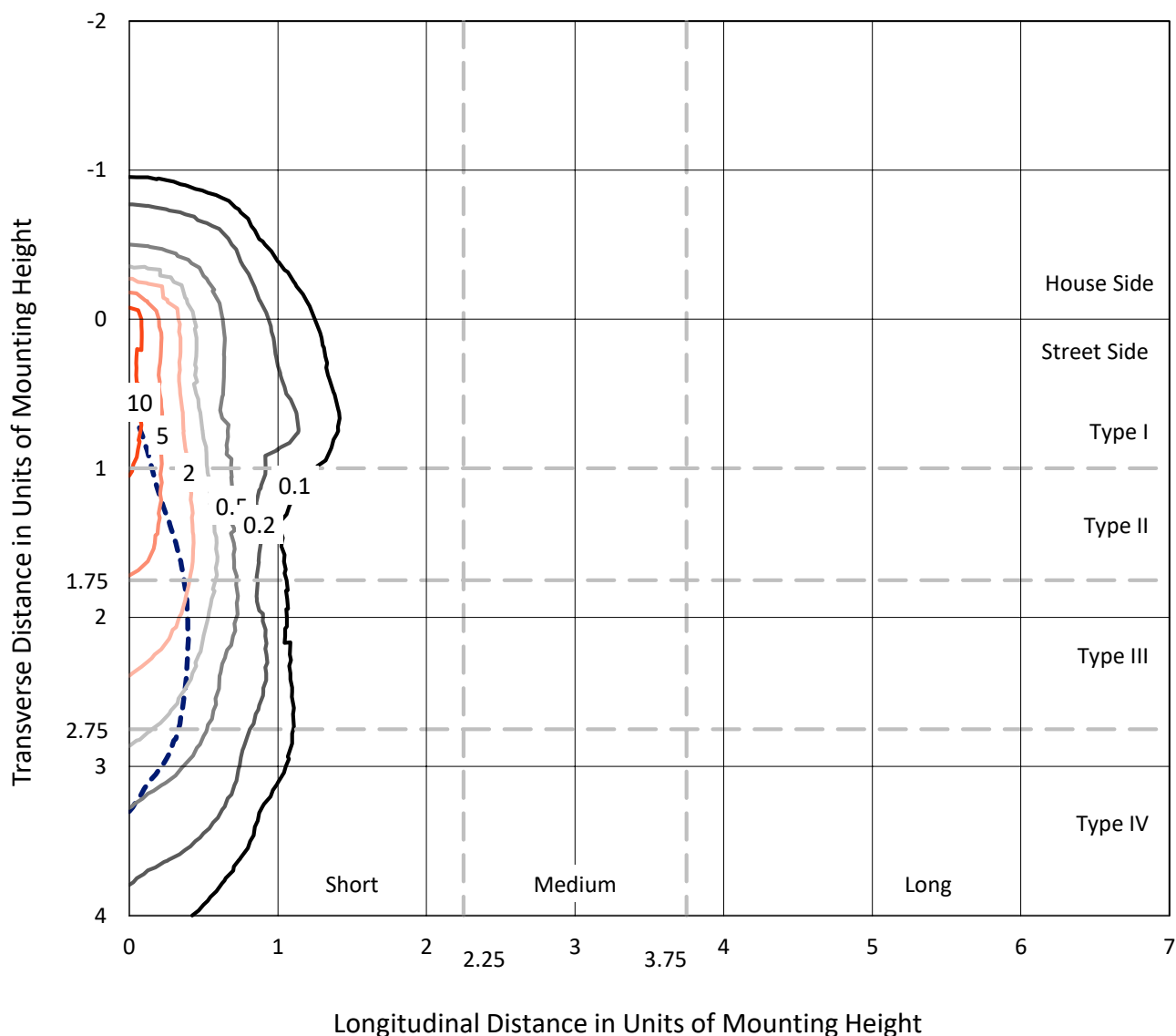
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

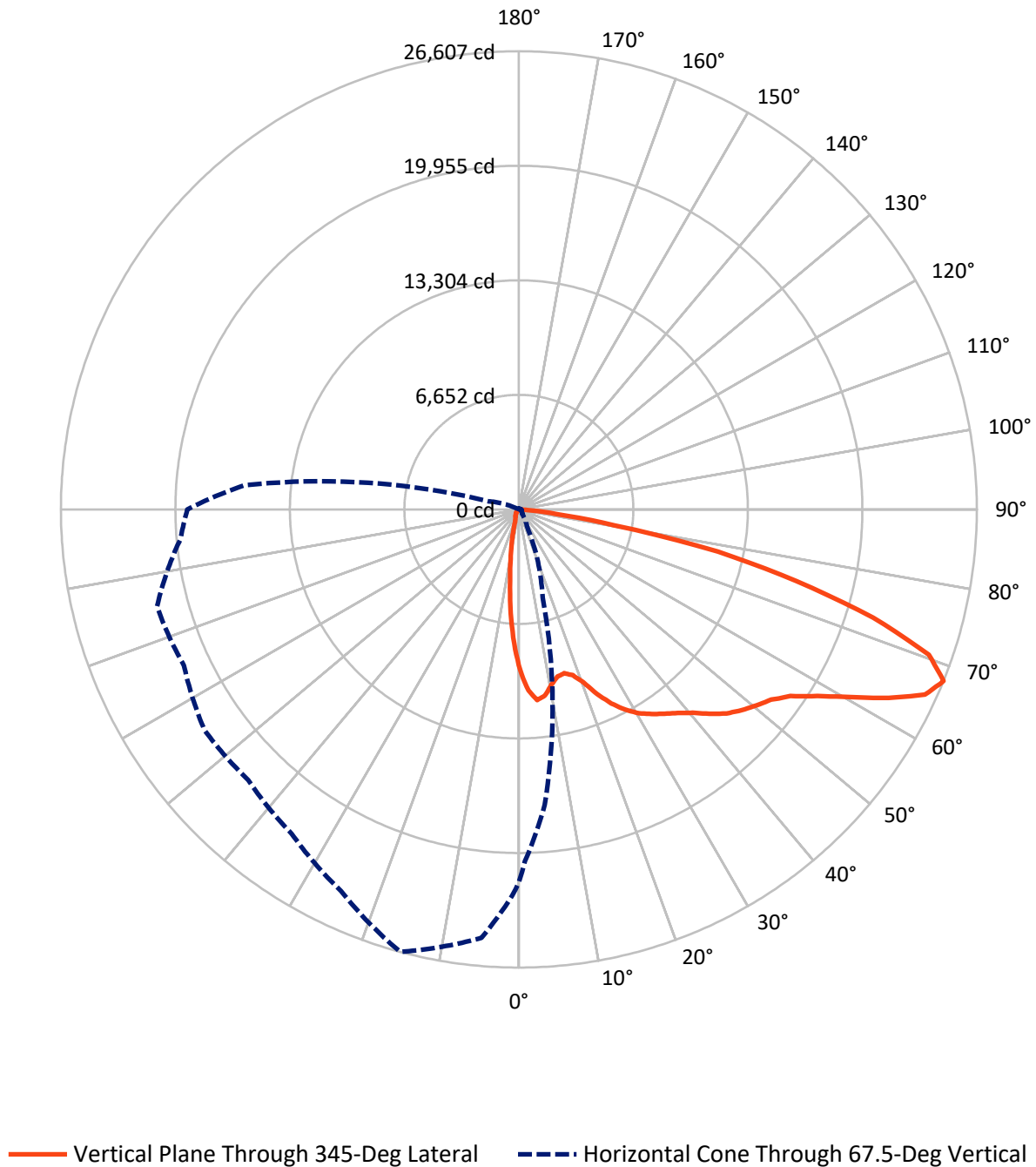
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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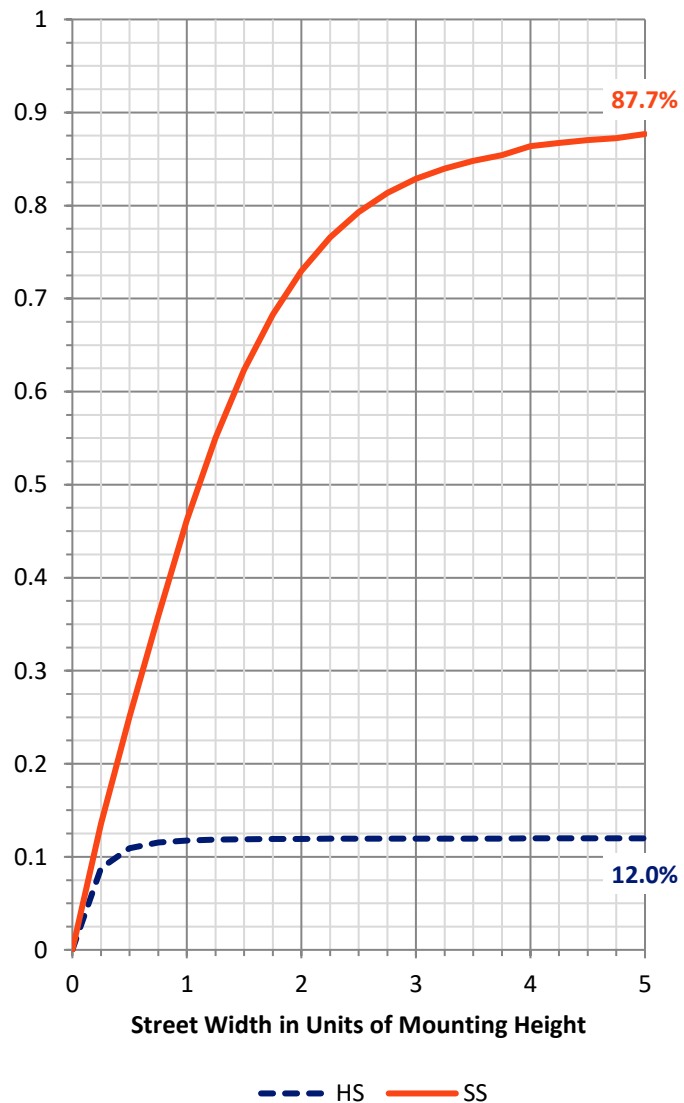
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3479.3	0.0	3479.3
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	25267.7	0.0	25267.7
	% Fixture	87.9	0.0	87.9
Total	Lumens	28747.0	0.0	28747.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	718.7	2.5
10°-20°	1430.6	5.0
20°-30°	2031.4	7.1
30°-40°	3000.5	10.4
40°-50°	4327.4	15.1
50°-60°	6074.7	21.1
60°-70°	7081.3	24.6
70°-80°	3620.1	12.6
80°-90°	462.3	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°	28747.0	100.0
0°-180°	28747.0	100.0

Coefficient of Utilization



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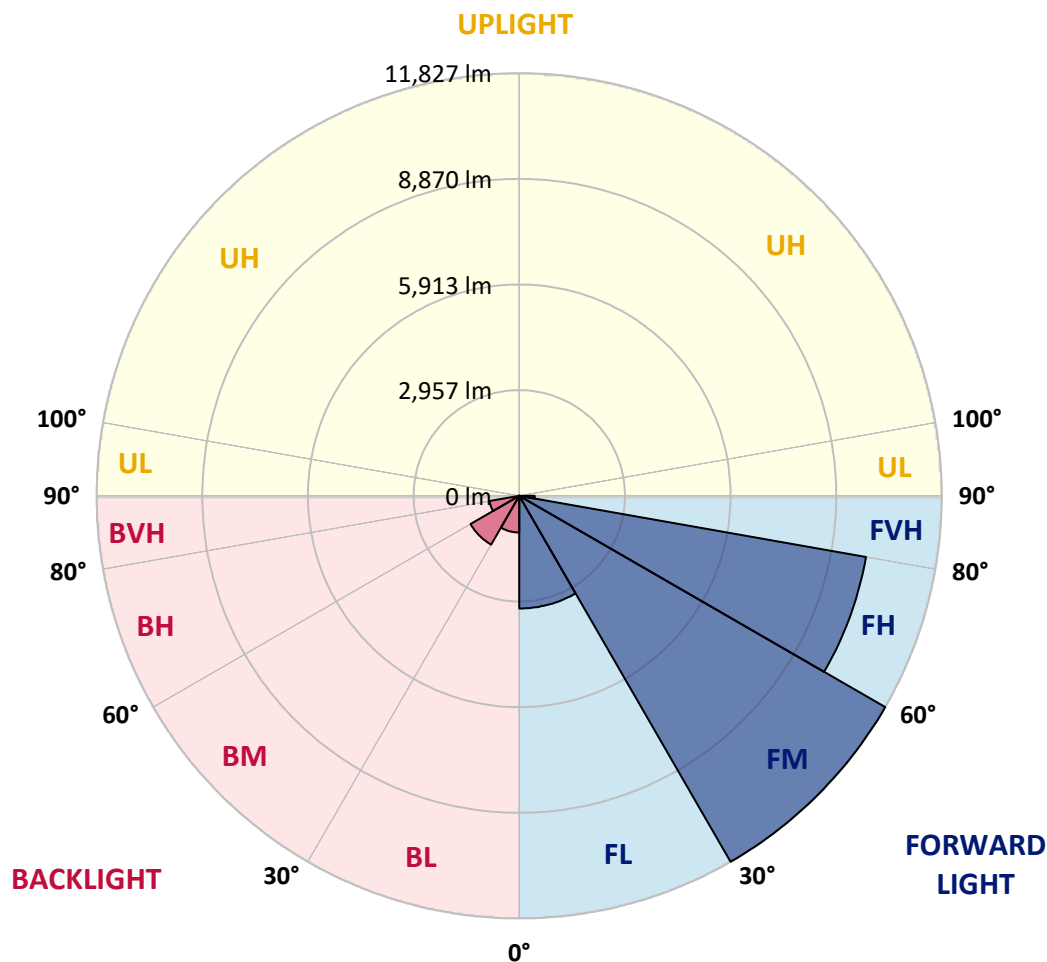
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3153.0	11.0			
FM	(30°-60°)	11827.0	41.1			
FH	(60°-80°)	9853.5	34.3			G4/12000
FVH	(80°-90°)	434.2	1.5			G3/500
BL	(0°-30°)	1027.7	3.6	B3/2500		
BM	(30°-60°)	1575.6	5.5	B2/2500		
BH	(60°-80°)	848.0	2.9	B2/1000		G2/1000
BVH	(80°-90°)	28.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	9364.3	9364.3	9364.3	9364.3	9364.3	9364.3	9364.3	9364.3	9364.3	9364.3	9364.3
2.5°	10253.6	10174.6	10087.4	9802.8	9538.6	9236.3	8989.8	8818.2	8603.0	8323.8	8253.0
5°	10180.0	10095.6	9821.9	9188.6	8634.3	8095.0	7574.8	7269.7	6891.1	6507.1	6411.7
7.5°	9440.5	9352.0	8957.1	8089.6	7343.3	6564.3	5888.8	5470.7	5043.0	4691.7	4505.1
10°	8671.1	8574.4	8130.4	7077.7	6158.4	5454.3	4958.6	4559.6	4155.1	3779.2	3479.6
12.5°	8141.3	8014.7	7532.6	6339.5	5538.8	5060.7	4597.7	4119.7	3572.2	3169.1	2839.5
15°	7919.3	7775.0	7265.6	6054.9	5319.5	4758.4	4155.1	3568.1	2926.7	2465.0	2162.7
17.5°	8090.9	7903.0	7356.9	6035.8	5044.4	4280.4	3517.7	2828.6	2132.7	1665.6	1450.4
20°	8673.8	8427.3	7734.1	6030.4	4710.7	3712.5	2745.5	1966.6	1405.5	1130.4	1017.3
22.5°	9591.7	9266.2	8276.1	6074.0	4366.2	3116.0	1982.9	1336.0	1055.5	912.5	845.7
25°	10700.3	10323.0	9056.5	6227.9	4063.8	2535.8	1440.9	1055.5	890.7	785.8	730.0
27.5°	11754.4	11448.0	10042.5	6449.9	3829.6	2067.3	1169.9	894.8	761.3	691.8	646.9
30°	12807.1	12421.7	11054.4	6714.1	3547.7	1750.0	1028.2	815.8	682.3	608.8	580.2
32.5°	13572.5	13252.4	11847.0	6904.7	3246.7	1543.0	919.3	746.3	637.4	562.5	520.2
35°	14472.7	14110.4	12526.6	6946.9	3053.3	1412.3	826.7	671.4	552.9	486.2	441.2
37.5°	15445.1	14994.3	13311.0	6854.3	2902.2	1348.3	757.2	637.4	516.2	448.1	400.4
40°	16521.0	16011.6	14064.1	6720.9	2753.7	1326.5	704.1	611.5	487.6	418.1	369.1
42.5°	17654.0	17053.5	14716.5	6580.6	2659.8	1251.6	698.6	585.6	465.8	390.9	341.8
45°	18606.0	17997.2	15386.5	6534.3	2593.0	1169.9	721.8	567.9	450.8	369.1	321.4
47.5°	19364.6	18788.5	16072.9	6637.8	2554.9	1095.0	657.8	591.1	442.6	350.0	303.7
50°	20270.2	19617.9	17039.8	6946.9	2499.0	1020.0	595.1	676.9	442.6	337.7	288.7
52.5°	21406.0	20760.5	18118.4	7426.3	2387.4	916.5	535.2	678.2	446.7	321.4	269.7
55°	22834.6	22366.1	19658.7	7952.0	2209.0	764.0	463.0	582.9	430.4	291.4	251.9
57.5°	24204.7	23822.0	21062.8	8311.5	1970.6	596.5	403.1	469.8	393.6	256.0	224.7
59°	24579.2	24161.1	21577.6	8327.9	1792.2	520.2	373.2	388.1	385.4	239.7	208.4
60°	24579.2	24135.2	21726.1	8240.7	1662.9	478.0	354.1	345.9	401.8	228.8	198.8
62.5°	24133.9	23510.1	21244.0	7651.0	1356.4	407.2	309.1	286.0	360.9	205.6	175.7
65°	23207.8	22299.4	19601.5	6584.7	1209.3	373.2	266.9	234.2	250.6	181.1	153.9
67.5°	21663.4	20432.3	17233.2	5319.5	1150.8	363.6	230.2	198.8	189.3	155.3	134.8
70°	18943.7	17577.8	14358.3	4182.3	1100.4	359.5	193.4	167.5	152.5	130.7	114.4
72.5°	13787.7	12363.1	10193.7	3269.9	1070.4	367.7	155.3	140.3	125.3	102.1	88.5
75°	7886.6	6953.8	5729.4	2159.9	912.5	351.4	119.8	117.1	89.9	73.5	61.3
77.5°	4074.7	3950.8	3433.3	829.4	437.2	153.9	79.0	68.1	53.1	44.9	36.8
80°	1758.2	1739.1	1504.9	239.7	115.8	85.8	44.9	28.6	24.5	19.1	15.0
82.5°	607.4	607.4	535.2	80.4	51.8	42.2	5.4	0.0	0.0	0.0	0.0
85°	122.6	137.5	96.7	0.0	17.7	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°	9364.3	9364.3	9364.3	9364.3	9364.3	9364.3	9364.3	9364.3	9364.3	9364.3	9364.3
2.5°	8167.2	8002.4	7991.5	7888.0	7758.6	7700.1	7666.0	7725.9	7799.5	7807.7	7918.0
5°	6339.5	6166.6	6238.8	6054.9	6091.7	6054.9	5995.0	6005.9	6038.6	5936.4	6063.1
7.5°	4452.0	4321.2	4404.3	4355.3	4420.7	4446.5	4409.8	4355.3	4194.6	4175.5	4285.8
10°	3355.7	3207.2	3118.7	3026.1	3046.5	3088.7	3075.1	3035.6	2933.5	2938.9	3045.2
12.5°	2696.5	2530.4	2354.7	2127.3	2071.4	2102.7	2071.4	2048.3	1950.2	1958.4	2052.4
15°	2045.5	1909.4	1725.5	1543.0	1443.6	1453.1	1366.0	1304.7	1243.4	1169.9	1227.1
17.5°	1380.9	1297.9	1243.4	1188.9	1070.4	1043.2	932.9	814.4	768.1	734.1	758.6
20°	977.8	932.9	911.1	908.4	840.3	806.2	698.6	625.1	602.0	595.1	610.1
22.5°	817.1	784.4	753.1	735.4	701.4	661.9	580.2	543.4	527.0	518.9	529.8
25°	710.9	686.4	653.7	623.7	610.1	567.9	509.3	482.1	471.2	463.0	468.5
27.5°	631.9	610.1	572.0	552.9	542.0	505.3	454.9	433.1	423.5	420.8	419.5
30°	569.3	548.8	513.4	491.6	472.6	439.9	409.9	388.1	378.6	375.9	373.2
32.5°	506.6	490.3	467.1	445.3	424.9	394.9	369.1	351.4	336.4	333.7	332.3
35°	427.6	411.3	399.0	397.7	378.6	350.0	330.9	307.8	295.5	291.4	292.8
37.5°	380.0	358.2	330.9	340.5	335.0	314.6	288.7	265.6	253.3	250.6	250.6
40°	350.0	326.9	295.5	279.2	295.5	291.4	250.6	227.4	215.2	213.8	211.1
42.5°	321.4	298.3	262.8	235.6	243.8	256.0	216.5	194.7	182.5	179.8	175.7
45°	301.0	276.5	237.0	205.6	189.3	215.2	185.2	158.0	151.2	145.7	143.0
47.5°	281.9	258.8	213.8	178.4	151.2	155.3	148.4	129.4	121.2	115.8	114.4
50°	265.6	241.1	193.4	152.5	125.3	114.4	119.8	102.1	95.3	89.9	87.2
52.5°	246.5	223.3	171.6	132.1	104.9	89.9	91.2	80.4	73.5	69.5	68.1
55°	231.5	208.4	153.9	115.8	92.6	73.5	65.4	62.6	58.6	55.8	54.5
57.5°	211.1	189.3	136.2	98.1	79.0	59.9	50.4	50.4	49.0	46.3	44.9
59°	198.8	179.8	125.3	88.5	72.2	51.8	44.9	46.3	44.9	42.2	40.9
60°	189.3	171.6	117.1	81.7	68.1	47.7	40.9	43.6	42.2	39.5	38.1
62.5°	167.5	155.3	100.8	68.1	59.9	38.1	34.0	36.8	36.8	35.4	34.0
65°	147.1	133.5	85.8	57.2	55.8	32.7	27.2	32.7	34.0	31.3	28.6
67.5°	128.0	114.4	74.9	46.3	51.8	25.9	20.4	27.2	36.8	28.6	25.9
70°	109.0	95.3	58.6	36.8	54.5	17.7	16.3	24.5	43.6	31.3	24.5
72.5°	84.4	73.5	40.9	27.2	58.6	12.3	12.3	20.4	49.0	34.0	23.2
75°	58.6	47.7	24.5	16.3	47.7	8.2	8.2	19.1	46.3	31.3	21.8
77.5°	34.0	25.9	8.2	1.4	24.5	0.0	1.4	13.6	32.7	19.1	9.5
80°	12.3	5.4	0.0	0.0	15.0	0.0	0.0	0.0	2.7	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°	9364.3	9364.3	9364.3	9364.3	9364.3	9364.3	9364.3	9364.3	9364.3	9364.3	9364.3
2.5°	7946.6	8130.4	8295.2	8544.4	8840.0	9180.4	9473.2	9787.8	10083.4	10205.9	10290.4
5°	6089.0	6316.4	6582.0	6948.3	7435.9	8036.4	8598.9	9234.9	9918.6	10260.4	10581.8
7.5°	4304.9	4536.4	4866.0	5255.5	5845.2	6560.2	7295.6	8174.0	9100.1	9640.7	10173.2
10°	3095.6	3380.2	3688.0	4220.5	4819.7	5497.9	6255.1	7235.7	8268.0	8867.2	9508.6
12.5°	2106.8	2431.0	2896.7	3493.2	4197.3	4861.9	5519.7	6455.3	7653.8	8247.5	8935.3
15°	1263.8	1443.6	1936.6	2627.1	3490.5	4318.5	5039.0	5977.3	7254.7	7982.0	8697.0
17.5°	779.0	862.1	1130.4	1696.9	2603.9	3651.2	4638.6	5815.2	7311.9	8197.2	8962.5
20°	621.0	653.7	739.5	1002.3	1725.5	2915.8	4187.8	5782.5	7779.1	8868.6	9689.8
22.5°	539.3	570.6	627.8	728.6	1085.4	2183.1	3760.1	5812.5	8449.1	9875.0	10833.7
25°	475.3	502.5	557.0	640.1	795.3	1537.6	3302.6	5946.0	9322.1	11123.8	12142.5
27.5°	424.9	448.1	498.4	574.7	682.3	1073.2	2783.7	6108.0	10357.1	12401.3	13406.3
30°	378.6	399.0	444.0	514.8	592.4	825.3	2214.4	6218.3	11393.5	13406.3	14309.3
32.5°	339.1	354.1	394.9	454.9	514.8	657.8	1683.3	6200.6	12162.9	14242.5	14958.9
35°	298.3	313.2	348.6	400.4	448.1	543.4	1323.7	5869.7	12833.0	15110.1	15702.5
37.5°	253.3	272.4	306.4	352.7	385.4	478.0	1070.4	5470.7	13512.6	16101.5	16531.9
40°	215.2	234.2	264.2	314.6	335.0	453.5	822.6	4984.5	14276.6	17210.1	17441.6
42.5°	178.4	196.1	227.4	271.0	316.0	390.9	608.8	4428.8	15010.6	18157.9	18271.0
45°	144.4	162.1	194.7	238.3	337.7	324.1	471.2	3833.7	15603.1	18946.5	18983.2
47.5°	114.4	130.7	164.8	224.7	314.6	258.8	336.4	3366.6	16100.1	19562.0	19465.3
50°	88.5	102.1	137.5	257.4	275.1	213.8	254.7	3211.3	16545.5	19943.4	19692.8
52.5°	69.5	81.7	113.0	241.1	213.8	177.0	213.8	3357.0	17155.6	20259.3	19820.8
55°	55.8	68.1	88.5	137.5	145.7	149.8	182.5	3493.2	18208.3	21000.2	20576.6
57.5°	46.3	58.6	72.2	96.7	110.3	126.7	162.1	3508.2	19449.0	22231.3	21830.9
59°	42.2	53.1	65.4	85.8	96.7	115.8	152.5	3426.5	19886.2	22679.4	22479.2
60°	39.5	50.4	61.3	79.0	89.9	109.0	147.1	3348.9	19905.2	22663.0	22755.6
62.5°	34.0	44.9	54.5	66.7	76.3	92.6	132.1	3061.5	19099.0	21920.8	22589.5
65°	30.0	39.5	49.0	57.2	65.4	83.1	119.8	2537.2	17722.1	20723.7	21452.3
67.5°	27.2	34.0	44.9	50.4	58.6	73.5	106.2	1808.6	16002.1	19259.7	19732.3
70°	24.5	32.7	40.9	46.3	53.1	64.0	91.2	1039.1	13512.6	17116.1	17452.5
72.5°	23.2	31.3	36.8	43.6	47.7	57.2	83.1	488.9	9894.1	13711.4	14589.8
75°	20.4	28.6	34.0	40.9	44.9	51.8	70.8	234.2	6580.6	9922.7	10920.9
77.5°	12.3	23.2	31.3	36.8	39.5	44.9	58.6	134.8	4200.0	6868.0	8089.6
80°	0.0	8.2	23.2	31.3	34.0	38.1	44.9	106.2	2247.1	3923.6	4709.4
82.5°	0.0	0.0	16.3	24.5	23.2	25.9	34.0	66.7	1013.2	2564.4	2889.9
85°	0.0	0.0	5.4	19.1	16.3	12.3	23.2	23.2	222.0	1297.9	1619.3
87.5°	0.0	0.0	0.0	1.4	8.2	5.4	9.5	2.7	1.4	96.7	392.2
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: P324579

CATALOG NUMBER: GAN-SA5D-760-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9364.3	9364.3	9364.3	9364.3	9364.3	9364.3	9364.3	9364.3	9364.3	9364.3
2.5°	10585.9	10686.7	10856.9	10937.3	10897.8	10730.2	10530.1	10325.8	10205.9	10253.6
5°	11236.9	11755.7	12055.4	12154.8	11988.6	11612.7	11121.1	10472.9	10242.7	10180.0
7.5°	11236.9	12213.3	12831.6	12940.6	12570.1	11833.4	10911.4	9899.5	9563.1	9440.5
10°	10841.9	12171.1	13033.2	13206.1	12688.6	11586.9	10351.6	9196.8	8797.7	8671.1
12.5°	10396.6	11827.9	12736.3	12974.6	12549.7	11341.7	9963.5	8721.5	8251.6	8141.3
15°	10122.8	11405.7	12157.5	12330.5	12150.7	11198.7	9870.9	8578.5	8025.6	7919.3
17.5°	10220.9	11078.9	11349.9	11450.7	11571.9	11148.3	10122.8	8891.7	8191.7	8090.9
20°	10590.0	10734.3	10594.1	10720.7	11047.6	11197.4	10723.4	9648.9	8808.6	8673.8
22.5°	11216.4	10555.9	10162.3	10212.7	10610.4	11359.4	11641.3	10730.2	9760.6	9591.7
25°	11946.4	10700.3	9922.7	9877.7	10286.3	11573.3	12480.3	11906.9	10886.9	10700.3
27.5°	12864.3	11024.4	9873.6	9828.7	10173.2	11773.4	13177.5	13070.0	12073.1	11754.4
30°	13572.5	11343.1	10019.3	9915.8	10286.3	11912.4	13737.3	14057.3	13018.2	12807.1
32.5°	14080.5	11719.0	10256.3	10106.5	10605.0	12152.0	14169.0	14961.6	13892.5	13572.5
35°	14467.2	12127.5	10639.0	10392.5	11043.5	12515.7	14573.5	15924.5	14822.7	14472.7
37.5°	14829.5	12700.9	11236.9	10942.7	11731.2	13101.3	15001.1	17016.7	15863.2	15445.1
40°	15334.8	13350.5	12158.9	11897.4	12887.5	13899.3	15535.0	18155.2	17046.6	16521.0
42.5°	15840.0	14047.8	13102.6	13173.5	14329.7	14869.0	16224.1	19359.1	18215.1	17654.0
45°	16301.7	14766.9	14446.8	14773.7	15668.4	15932.6	16909.1	20055.0	19148.0	18606.0
47.5°	16713.0	15665.7	15782.8	16653.1	17191.0	16895.5	17421.2	20655.6	19842.6	19364.6
50°	17191.0	16828.7	17543.7	18774.9	18943.7	17767.1	17886.9	21366.5	20654.3	20270.2
52.5°	17714.0	18054.4	19493.9	20579.4	20524.9	18713.6	18355.4	22163.2	21766.9	21406.0
55°	18307.7	19044.5	21211.3	22268.1	22221.8	19770.4	19131.7	23147.9	23161.5	22834.6
57.5°	19188.9	19897.1	22377.0	23634.1	23711.7	20990.6	20447.3	24251.0	24422.6	24204.7
59°	19820.8	20450.0	22838.7	24204.7	24520.6	21934.4	21408.7	24891.1	24778.0	24579.2
60°	20289.3	20801.3	23067.5	24502.9	24990.5	22574.5	22118.3	25266.9	24820.2	24579.2
62.5°	21448.2	21566.7	23480.2	24840.7	25531.2	23996.3	24114.8	25907.0	24527.4	24133.9
65°	21988.9	22050.2	23474.7	24236.0	25008.2	25103.5	25926.1	25926.1	23812.5	23207.8
67.5°	21762.8	21467.3	22310.3	22231.3	23002.1	24445.7	26607.0	24975.5	22445.1	21663.4
70°	19924.3	18787.1	18412.6	18446.7	19036.3	21263.0	25258.8	22178.2	19857.6	18943.7
72.5°	16578.2	13850.3	12925.6	13981.1	14134.9	16341.2	21525.9	16702.1	14644.3	13787.7
75°	13334.2	9763.3	8259.8	9373.8	9635.3	11958.7	16651.7	10402.0	8554.0	7886.6
77.5°	9579.5	7008.2	5926.9	5849.3	6187.0	7584.3	11815.7	5235.1	4366.2	4074.7
80°	5442.1	4612.7	4966.8	4686.2	4856.5	4742.1	5613.7	2296.1	1880.8	1758.2
82.5°	3284.9	2726.5	2952.6	2458.2	3110.5	2708.8	2162.7	735.4	638.7	607.4
85°	2136.8	1489.9	776.3	520.2	1071.8	1730.9	483.5	200.2	153.9	122.6
87.5°	736.8	380.0	38.1	16.3	114.4	322.8	17.7	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)