

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: P324581

Luminaire Tested: **GAN-SA7D-760-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324581
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-760-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 40682 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

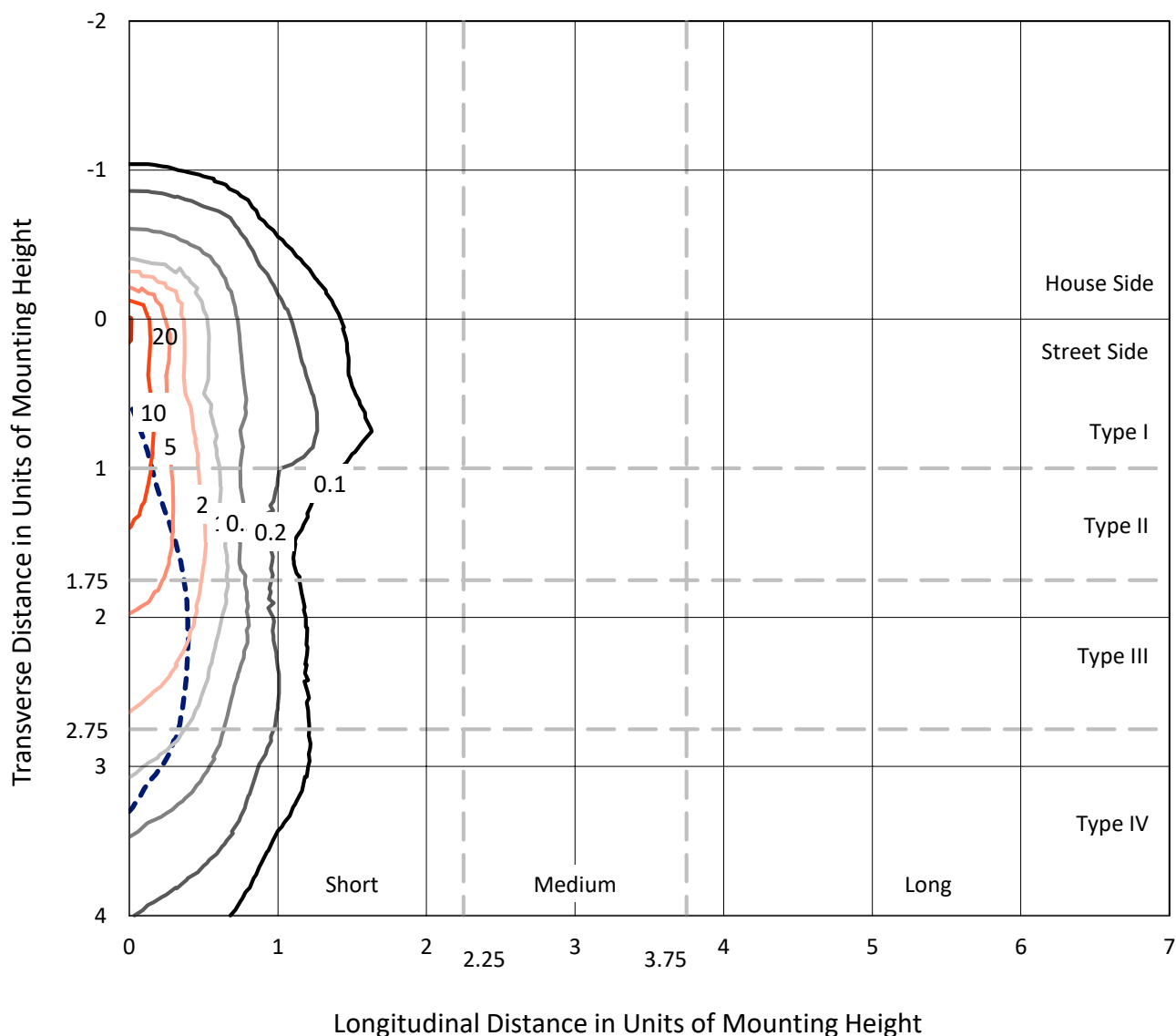
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

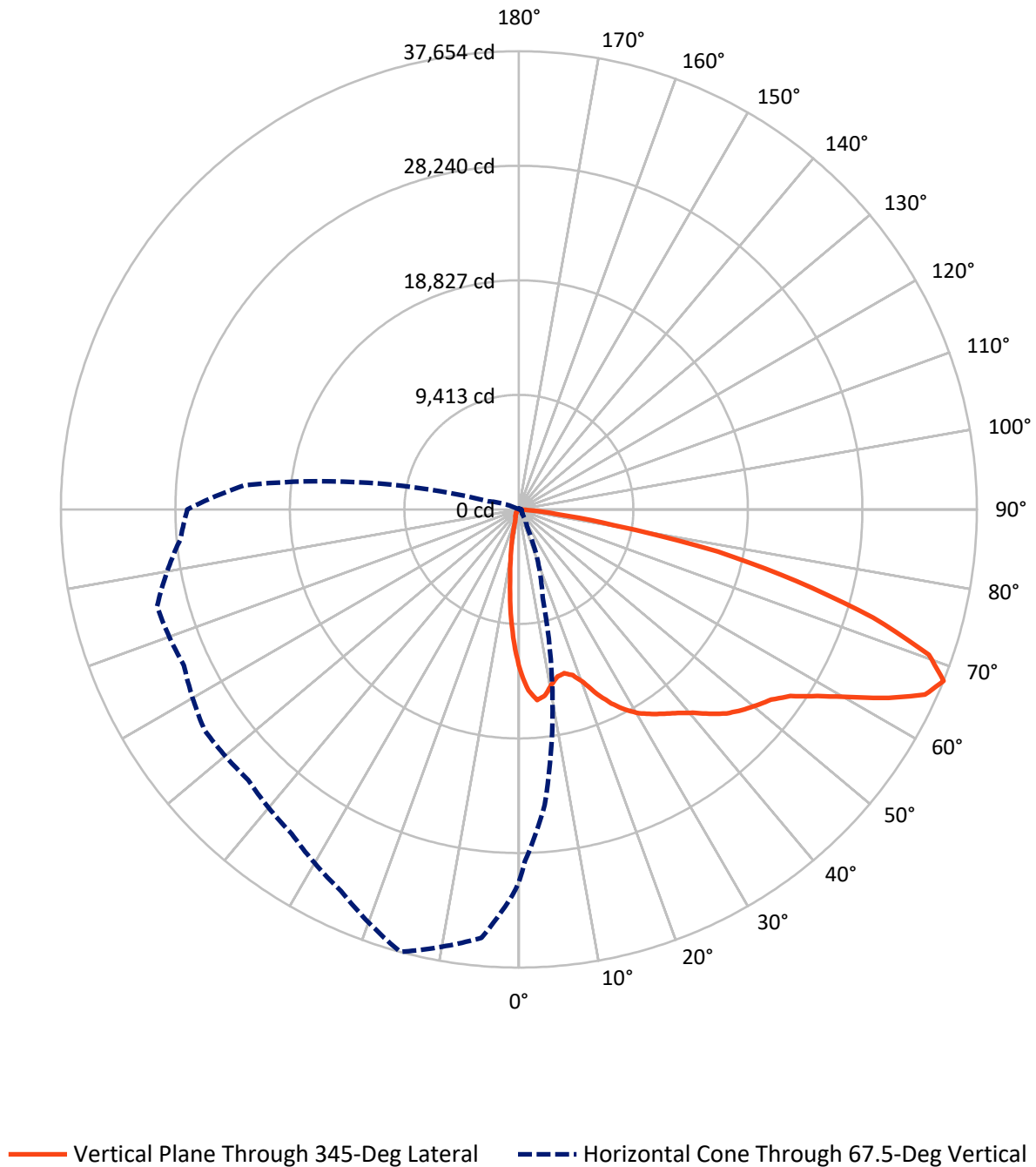
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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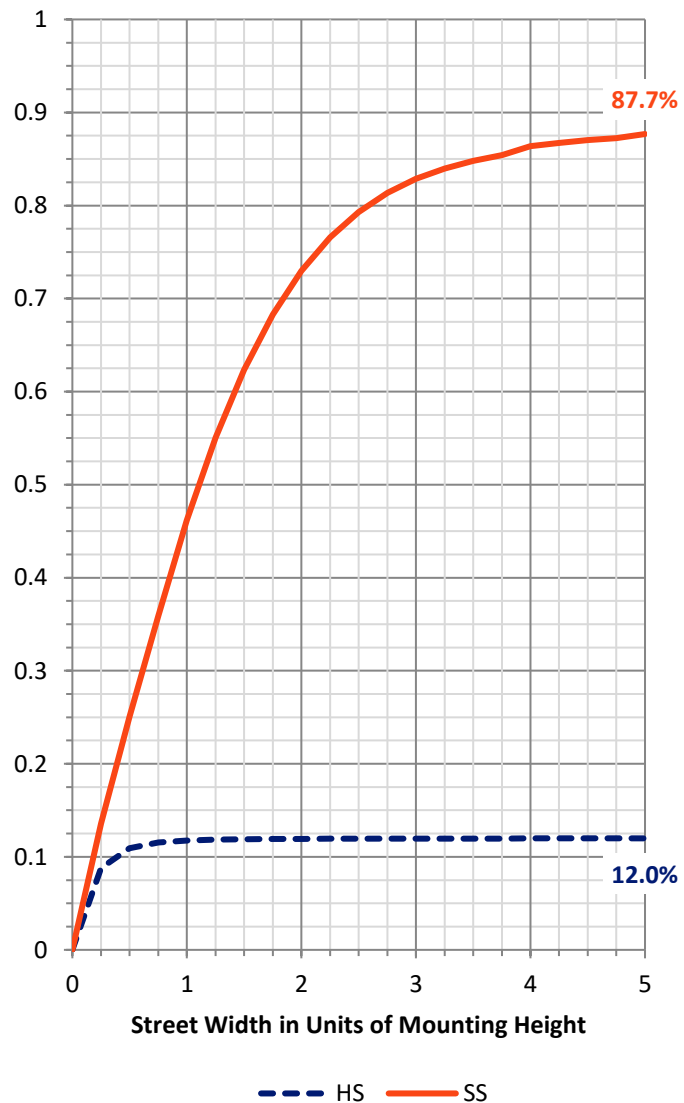
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4923.9	0.0	4923.9
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	35758.1	0.0	35758.1
	% Fixture	87.9	0.0	87.9
Total	Lumens	40682.0	0.0	40682.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1017.1	2.5
10°-20°	2024.5	5.0
20°-30°	2874.8	7.1
30°-40°	4246.2	10.4
40°-50°	6124.0	15.1
50°-60°	8596.8	21.1
60°-70°	10021.3	24.6
70°-80°	5123.1	12.6
80°-90°	654.3	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°	40682.0	100.0
0°-180°	40682.0	100.0

Coefficient of Utilization



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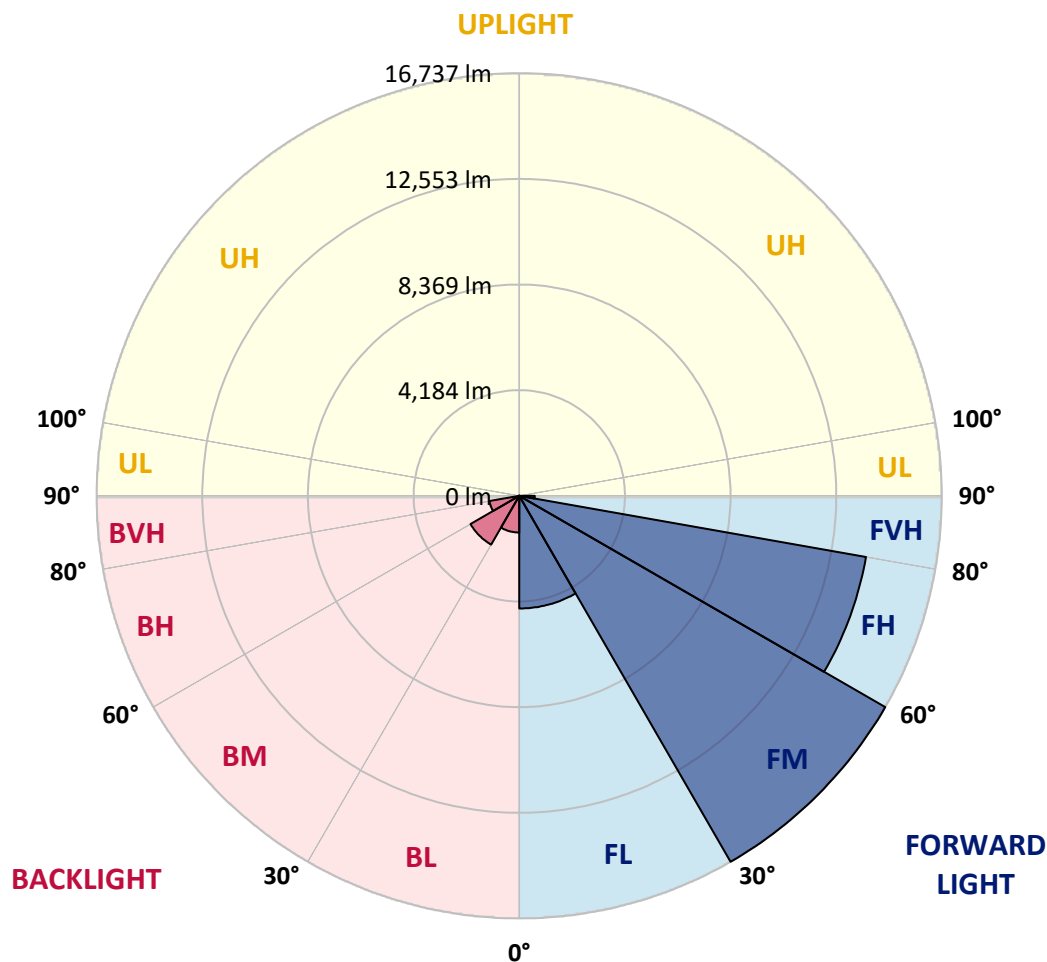
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4462.0	11.0			
FM	(30°-60°)	16737.2	41.1			
FH	(60°-80°)	13944.4	34.3			G5
FVH	(80°-90°)	614.5	1.5			G4/750
BL	(0°-30°)	1454.3	3.6	B3/2500		
BM	(30°-60°)	2229.7	5.5	B2/2500		
BH	(60°-80°)	1200.1	2.9	B3/2500		G3/2500
BVH	(80°-90°)	39.8	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-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13252.1	13252.1	13252.1	13252.1	13252.1	13252.1	13252.1	13252.1	13252.1	13252.1	13252.1
2.5°	14510.6	14398.8	14275.5	13872.7	13498.8	13070.9	12722.1	12479.2	12174.7	11779.6	11679.4
5°	14406.5	14287.0	13899.7	13003.5	12219.1	11455.8	10719.6	10287.9	9752.1	9208.6	9073.7
7.5°	13360.0	13234.7	12675.8	11448.1	10392.0	9289.6	8333.6	7741.9	7136.8	6639.5	6375.5
10°	12271.1	12134.3	11506.0	10016.2	8715.2	7718.8	7017.3	6452.6	5880.2	5348.2	4924.2
12.5°	11521.4	11342.1	10659.9	8971.6	7838.3	7161.8	6506.6	5830.1	5055.3	4484.8	4018.4
15°	11207.2	11002.9	10282.1	8568.8	7528.0	6734.0	5880.2	5049.5	4141.8	3488.4	3060.5
17.5°	11450.1	11184.1	10411.3	8541.8	7138.7	6057.5	4978.2	4003.0	3018.1	2357.1	2052.6
20°	12274.9	11926.1	10945.1	8534.1	6666.5	5253.8	3885.4	2783.0	1989.0	1599.7	1439.7
22.5°	13573.9	13113.3	11712.2	8595.7	6178.9	4409.7	2806.1	1890.7	1493.7	1291.3	1196.9
25°	15142.8	14608.9	12816.5	8813.5	5751.1	3588.6	2039.1	1493.7	1260.5	1112.0	1033.0
27.5°	16634.5	16200.8	14211.9	9127.7	5419.6	2925.6	1655.5	1266.2	1077.4	979.1	915.5
30°	18124.3	17578.9	15643.9	9501.6	5020.6	2476.6	1455.1	1154.5	965.6	861.5	821.0
32.5°	19207.4	18754.5	16765.5	9771.4	4594.7	2183.6	1300.9	1056.2	902.0	796.0	736.2
35°	20481.4	19968.7	17727.3	9831.1	4321.0	1998.6	1169.9	950.2	782.5	688.0	624.4
37.5°	21857.5	21219.5	18837.4	9700.1	4107.1	1908.0	1071.6	902.0	730.4	634.1	566.6
40°	23380.0	22659.2	19903.2	9511.2	3897.0	1877.2	996.4	865.4	690.0	591.7	522.3
42.5°	24983.5	24133.6	20826.4	9312.7	3764.0	1771.2	988.7	828.7	659.1	553.1	483.8
45°	26330.7	25469.2	21774.6	9247.2	3669.6	1655.5	1021.5	803.7	637.9	522.3	454.8
47.5°	27404.2	26589.0	22745.9	9393.6	3615.6	1549.5	930.9	836.4	626.4	495.3	429.8
50°	28685.9	27762.7	24114.3	9831.1	3536.6	1443.5	842.2	957.9	626.4	478.0	408.6
52.5°	30293.2	29379.7	25640.7	10509.5	3378.5	1297.1	757.4	959.8	632.2	454.8	381.6
55°	32315.0	31652.0	27820.5	11253.5	3126.1	1081.2	655.3	824.9	609.0	412.4	356.5
57.5°	34253.8	33712.3	29807.6	11762.3	2788.8	844.2	570.5	664.9	557.0	362.3	318.0
59°	34783.8	34192.2	30536.1	11785.4	2536.3	736.2	528.1	549.3	545.4	339.2	294.9
60°	34783.8	34155.5	30746.2	11662.1	2353.2	676.5	501.1	489.5	568.6	323.8	281.4
62.5°	34153.6	33270.9	30063.9	10827.5	1919.6	576.3	437.5	404.7	510.7	291.0	248.6
65°	32843.0	31557.5	27739.6	9318.5	1711.4	528.1	377.7	331.5	354.6	256.3	217.8
67.5°	30657.5	28915.2	24388.0	7528.0	1628.6	514.6	325.7	281.4	267.9	219.7	190.8
70°	26808.7	24875.6	20319.5	5918.7	1557.3	508.8	273.7	237.1	215.9	185.0	161.9
72.5°	19511.9	17496.0	14425.8	4627.4	1514.9	520.4	219.7	198.5	177.3	144.5	125.3
75°	11161.0	9840.8	8108.1	3056.7	1291.3	497.2	169.6	165.7	127.2	104.1	86.7
77.5°	5766.5	5591.1	4858.7	1173.7	618.7	217.8	111.8	96.4	75.2	63.6	52.0
80°	2488.1	2461.2	2129.7	339.2	163.8	121.4	63.6	40.5	34.7	27.0	21.2
82.5°	859.6	859.6	757.4	113.7	73.2	59.7	7.7	0.0	0.0	0.0	0.0
85°	173.5	194.7	136.8	0.0	25.1	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°	13252.1	13252.1	13252.1	13252.1	13252.1	13252.1	13252.1	13252.1	13252.1	13252.1	13252.1
2.5°	11558.0	11324.8	11309.4	11162.9	10979.8	10896.9	10848.7	10933.5	11037.6	11049.2	11205.3
5°	8971.6	8726.8	8828.9	8568.8	8620.8	8568.8	8484.0	8499.4	8545.6	8401.1	8580.3
7.5°	6300.3	6115.3	6232.9	6163.5	6256.0	6292.6	6240.6	6163.5	5936.1	5909.1	6065.2
10°	4748.9	4538.8	4413.5	4282.5	4311.4	4371.1	4351.8	4295.9	4151.4	4159.1	4309.4
12.5°	3816.0	3580.9	3332.3	3010.4	2931.4	2975.7	2931.4	2898.7	2759.9	2771.5	2904.4
15°	2894.8	2702.1	2441.9	2183.6	2042.9	2056.4	1933.1	1846.3	1759.6	1655.5	1736.5
17.5°	1954.3	1836.7	1759.6	1682.5	1514.9	1476.3	1320.2	1152.5	1087.0	1038.8	1073.5
20°	1383.8	1320.2	1289.4	1285.5	1189.1	1141.0	988.7	884.6	851.9	842.2	863.4
22.5°	1156.4	1110.1	1065.8	1040.7	992.6	936.7	821.0	769.0	745.9	734.3	749.7
25°	1006.0	971.4	925.1	882.7	863.4	803.7	720.8	682.3	666.8	655.3	663.0
27.5°	894.3	863.4	809.5	782.5	767.1	715.0	643.7	612.9	599.4	595.5	593.6
30°	805.6	776.7	726.6	695.8	668.8	622.5	580.1	549.3	535.8	531.9	528.1
32.5°	717.0	693.8	661.1	630.2	601.3	558.9	522.3	497.2	476.0	472.2	470.3
35°	605.2	582.0	564.7	562.8	535.8	495.3	468.3	435.6	418.2	412.4	414.4
37.5°	537.7	506.9	468.3	481.8	474.1	445.2	408.6	375.8	358.5	354.6	354.6
40°	495.3	462.6	418.2	395.1	418.2	412.4	354.6	321.9	304.5	302.6	298.7
42.5°	454.8	422.1	372.0	333.4	345.0	362.3	306.4	275.6	258.3	254.4	248.6
45°	425.9	391.2	335.3	291.0	267.9	304.5	262.1	223.6	213.9	206.2	202.4
47.5°	399.0	366.2	302.6	252.5	213.9	219.7	210.1	183.1	171.5	163.8	161.9
50°	375.8	341.1	273.7	215.9	177.3	161.9	169.6	144.5	134.9	127.2	123.3
52.5°	348.8	316.1	242.8	186.9	148.4	127.2	129.1	113.7	104.1	98.3	96.4
55°	327.6	294.9	217.8	163.8	131.1	104.1	92.5	88.7	82.9	79.0	77.1
57.5°	298.7	267.9	192.7	138.8	111.8	84.8	71.3	71.3	69.4	65.5	63.6
59°	281.4	254.4	177.3	125.3	102.1	73.2	63.6	65.5	63.6	59.7	57.8
60°	267.9	242.8	165.7	115.6	96.4	67.5	57.8	61.7	59.7	55.9	54.0
62.5°	237.1	219.7	142.6	96.4	84.8	54.0	48.2	52.0	52.0	50.1	48.2
65°	208.1	188.9	121.4	80.9	79.0	46.3	38.5	46.3	48.2	44.3	40.5
67.5°	181.2	161.9	106.0	65.5	73.2	36.6	28.9	38.5	52.0	40.5	36.6
70°	154.2	134.9	82.9	52.0	77.1	25.1	23.1	34.7	61.7	44.3	34.7
72.5°	119.5	104.1	57.8	38.5	82.9	17.3	17.3	28.9	69.4	48.2	32.8
75°	82.9	67.5	34.7	23.1	67.5	11.6	11.6	27.0	65.5	44.3	30.8
77.5°	48.2	36.6	11.6	1.9	34.7	0.0	1.9	19.3	46.3	27.0	13.5
80°	17.3	7.7	0.0	0.0	21.2	0.0	0.0	0.0	3.9	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°	13252.1	13252.1	13252.1	13252.1	13252.1	13252.1	13252.1	13252.1	13252.1	13252.1	13252.1
2.5°	11245.8	11506.0	11739.2	12091.9	12510.1	12991.9	13406.3	13851.5	14269.7	14443.2	14562.6
5°	8616.9	8938.8	9314.6	9833.1	10523.0	11373.0	12168.9	13069.0	14036.5	14520.2	14975.1
7.5°	6092.2	6419.8	6886.2	7437.4	8272.0	9283.8	10324.5	11567.6	12878.2	13643.3	14396.9
10°	4380.7	4783.5	5219.1	5972.7	6820.7	7780.5	8852.1	10239.7	11700.6	12548.6	13456.4
12.5°	2981.5	3440.2	4099.4	4943.5	5939.9	6880.4	7811.3	9135.4	10831.4	11671.7	12645.0
15°	1788.5	2042.9	2740.6	3717.8	4939.7	6111.5	7131.0	8458.9	10266.7	11295.9	12307.7
17.5°	1102.4	1220.0	1599.7	2401.4	3685.0	5167.1	6564.4	8229.6	10347.7	11600.4	12683.5
20°	878.8	925.1	1046.5	1418.5	2441.9	4126.3	5926.4	8183.3	11008.7	12550.6	13712.7
22.5°	763.2	807.5	888.5	1031.1	1536.1	3089.5	5321.3	8225.7	11956.9	13974.8	15331.6
25°	672.6	711.2	788.3	905.8	1125.5	2175.9	4673.7	8414.6	13192.3	15742.2	17183.8
27.5°	601.3	634.1	705.4	813.3	965.6	1518.7	3939.4	8643.9	14657.1	17550.0	18972.3
30°	535.8	564.7	628.3	728.5	838.4	1167.9	3133.8	8800.0	16123.8	18972.3	20250.1
32.5°	479.9	501.1	558.9	643.7	728.5	930.9	2382.1	8775.0	17212.7	20155.7	21169.4
35°	422.1	443.3	493.4	566.6	634.1	769.0	1873.3	8306.6	18160.9	21383.3	22221.7
37.5°	358.5	385.5	433.6	499.2	545.4	676.5	1514.9	7741.9	19122.6	22786.4	23395.4
40°	304.5	331.5	373.9	445.2	474.1	641.8	1164.1	7053.9	20203.8	24355.2	24682.9
42.5°	252.5	277.5	321.9	383.5	447.1	553.1	861.5	6267.6	21242.7	25696.6	25856.6
45°	204.3	229.3	275.6	337.3	478.0	458.7	666.8	5425.3	22081.0	26812.5	26864.6
47.5°	161.9	185.0	233.2	318.0	445.2	366.2	476.0	4764.3	22784.5	27683.7	27546.8
50°	125.3	144.5	194.7	364.3	389.3	302.6	360.4	4544.6	23414.7	28223.3	27868.7
52.5°	98.3	115.6	160.0	341.1	302.6	250.5	302.6	4750.8	24278.1	28670.5	28049.9
55°	79.0	96.4	125.3	194.7	206.2	212.0	258.3	4943.5	25767.9	29718.9	29119.5
57.5°	65.5	82.9	102.1	136.8	156.1	179.2	229.3	4964.7	27523.7	31461.2	30894.6
59°	59.7	75.2	92.5	121.4	136.8	163.8	215.9	4849.1	28142.4	32095.3	31811.9
60°	55.9	71.3	86.7	111.8	127.2	154.2	208.1	4739.2	28169.4	32072.1	32203.2
62.5°	48.2	63.6	77.1	94.4	107.9	131.1	186.9	4332.6	27028.4	31021.8	31968.1
65°	42.4	55.9	69.4	80.9	92.5	117.6	169.6	3590.6	25079.9	29327.7	30358.8
67.5°	38.5	48.2	63.6	71.3	82.9	104.1	150.3	2559.4	22645.7	27255.8	27924.6
70°	34.7	46.3	57.8	65.5	75.2	90.6	129.1	1470.5	19122.6	24222.3	24698.3
72.5°	32.8	44.3	52.0	61.7	67.5	80.9	117.6	691.9	14001.8	19404.0	20647.1
75°	28.9	40.5	48.2	57.8	63.6	73.2	100.2	331.5	9312.7	14042.3	15455.0
77.5°	17.3	32.8	44.3	52.0	55.9	63.6	82.9	190.8	5943.8	9719.4	11448.1
80°	0.0	11.6	32.8	44.3	48.2	54.0	63.6	150.3	3180.0	5552.5	6664.6
82.5°	0.0	0.0	23.1	34.7	32.8	36.6	48.2	94.4	1433.9	3629.1	4089.7
85°	0.0	0.0	7.7	27.0	23.1	17.3	32.8	32.8	314.1	1836.7	2291.6
87.5°	0.0	0.0	0.0	1.9	11.6	7.7	13.5	3.9	1.9	136.8	555.1
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: P324581

CATALOG NUMBER: GAN-SA7D-760-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13252.1	13252.1	13252.1	13252.1	13252.1	13252.1	13252.1	13252.1	13252.1	13252.1
2.5°	14980.9	15123.5	15364.4	15478.1	15422.2	15185.2	14901.9	14612.8	14443.2	14510.6
5°	15902.1	16636.4	17060.4	17201.1	16966.0	16434.1	15738.3	14820.9	14495.2	14406.5
7.5°	15902.1	17284.0	18159.0	18313.2	17788.9	16746.3	15441.5	14009.5	13533.5	13360.0
10°	15343.2	17224.2	18444.2	18689.0	17956.6	16397.4	14649.4	13015.0	12450.3	12271.1
12.5°	14713.0	16738.6	18024.1	18361.3	17760.0	16050.5	14100.1	12342.4	11677.5	11521.4
15°	14325.6	16141.1	17205.0	17449.7	17195.3	15848.2	13969.0	12140.0	11357.6	11207.2
17.5°	14464.4	15678.6	16062.1	16204.7	16376.2	15776.8	14325.6	12583.3	11592.7	11450.1
20°	14986.7	15190.9	14992.4	15171.7	15634.2	15846.2	15175.5	13654.9	12465.7	12274.9
22.5°	15873.2	14938.5	14381.5	14452.8	15015.6	16075.6	16474.5	15185.2	13812.9	13573.9
25°	16906.2	15142.8	14042.3	13978.7	14556.9	16378.2	17661.7	16850.3	15406.8	15142.8
27.5°	18205.2	15601.5	13972.9	13909.3	14396.9	16661.5	18648.5	18496.3	17085.5	16634.5
30°	19207.4	16052.4	14179.1	14032.6	14556.9	16858.1	19440.6	19893.5	18423.0	18124.3
32.5°	19926.3	16584.4	14514.5	14302.5	15007.9	17197.3	20051.6	21173.3	19660.3	19207.4
35°	20473.7	17162.6	15056.0	14707.2	15628.4	17711.8	20624.0	22535.9	20976.7	20481.4
37.5°	20986.3	17974.0	15902.1	15485.8	16601.7	18540.6	21229.2	24081.6	22449.1	21857.5
40°	21701.4	18893.3	17206.9	16836.9	18238.0	19670.0	21984.7	25692.8	24124.0	23380.0
42.5°	22416.4	19880.1	18542.5	18642.7	20279.0	21042.2	22959.9	27396.5	25777.6	24983.5
45°	23069.7	20897.7	20444.8	20907.3	22173.5	22547.4	23929.3	28381.4	27097.8	26330.7
47.5°	23651.8	22169.7	22335.4	23567.0	24328.3	23910.0	24654.0	29231.3	28080.7	27404.2
50°	24328.3	23815.6	24827.4	26569.7	26808.7	25143.5	25313.1	30237.3	29229.4	28685.9
52.5°	25068.3	25550.2	27587.3	29123.4	29046.3	26483.0	25976.1	31364.8	30804.0	30293.2
55°	25908.6	26951.3	30017.6	31513.2	31447.7	27978.6	27074.7	32758.2	32777.5	32315.0
57.5°	27155.6	28157.8	31667.4	33446.3	33556.1	29705.4	28936.4	34319.4	34562.2	34253.8
59°	28049.9	28940.3	32320.8	34253.8	34701.0	31041.0	30297.1	35225.2	35065.2	34783.8
60°	28712.9	29437.5	32644.5	34675.9	35365.9	31946.9	31301.2	35757.1	35125.0	34783.8
62.5°	30353.0	30520.7	33228.5	35153.9	36131.0	33959.0	34126.6	36662.9	34710.6	34153.6
65°	31118.1	31204.8	33220.8	34298.2	35390.9	35525.8	36689.9	36689.9	33698.8	32843.0
67.5°	30798.2	30380.0	31573.0	31461.2	32552.0	34595.0	37653.6	35344.7	31763.8	30657.5
70°	28196.3	26587.0	26057.0	26105.2	26939.7	30090.9	35745.6	31386.0	28101.9	26808.7
72.5°	23461.0	19600.6	18292.0	19785.6	20003.4	23125.6	30462.8	23636.4	20724.2	19511.9
75°	18870.2	13816.8	11689.0	13265.6	13635.6	16923.6	23565.0	14720.7	12105.3	11161.0
77.5°	13556.6	9917.9	8387.6	8277.7	8755.7	10733.1	16721.2	7408.5	6178.9	5766.5
80°	7701.5	6527.8	7028.8	6631.8	6872.7	6710.8	7944.3	3249.4	2661.6	2488.1
82.5°	4648.6	3858.4	4178.4	3478.8	4401.9	3833.4	3060.5	1040.7	903.9	859.6
85°	3023.9	2108.5	1098.6	736.2	1516.8	2449.6	684.2	283.3	217.8	173.5
87.5°	1042.7	537.7	54.0	23.1	161.9	456.8	25.1	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)