

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: P324563

Luminaire Tested: **GAN-SA9B-760-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324563
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-SA9B-760-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 37871 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

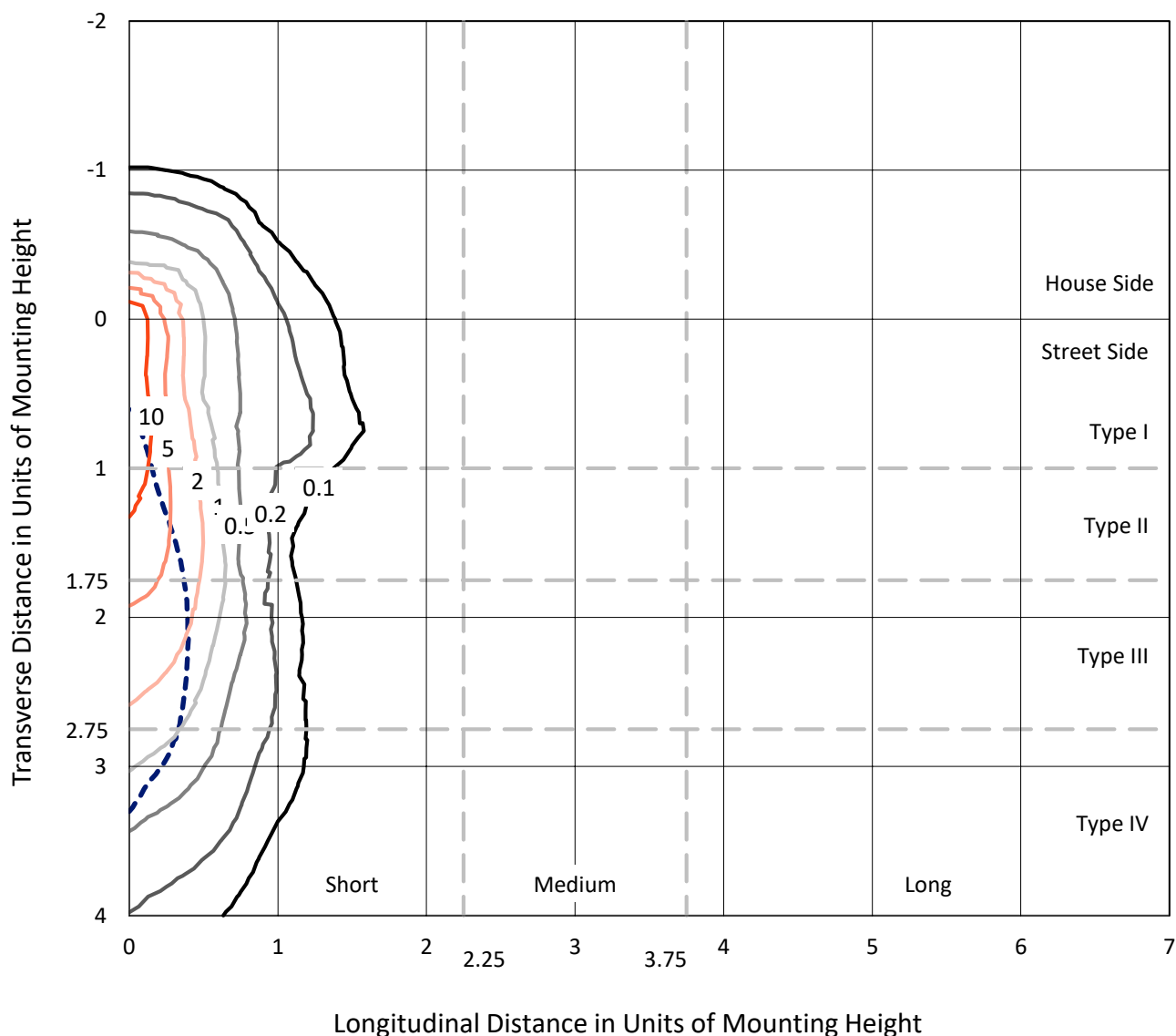
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

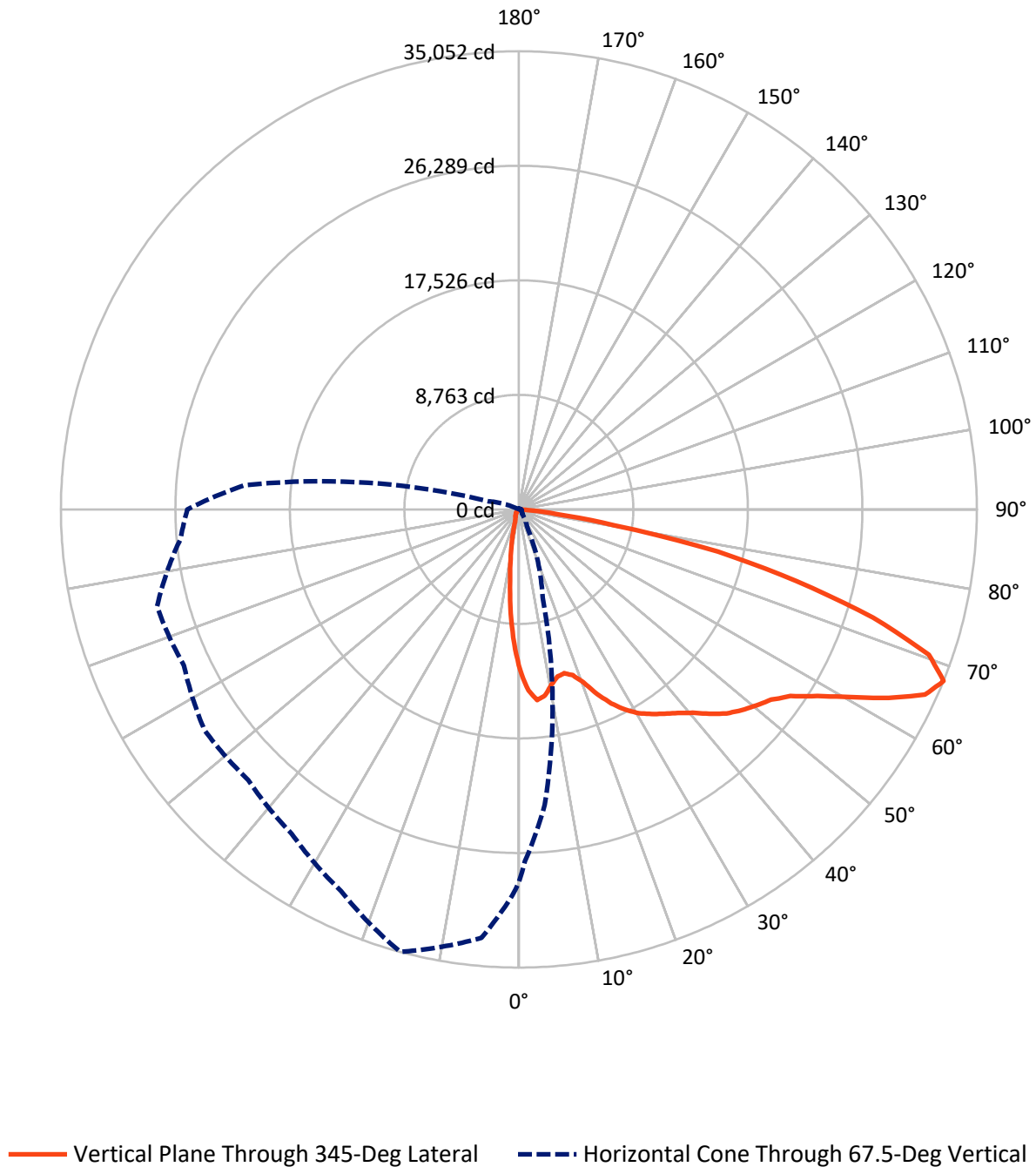
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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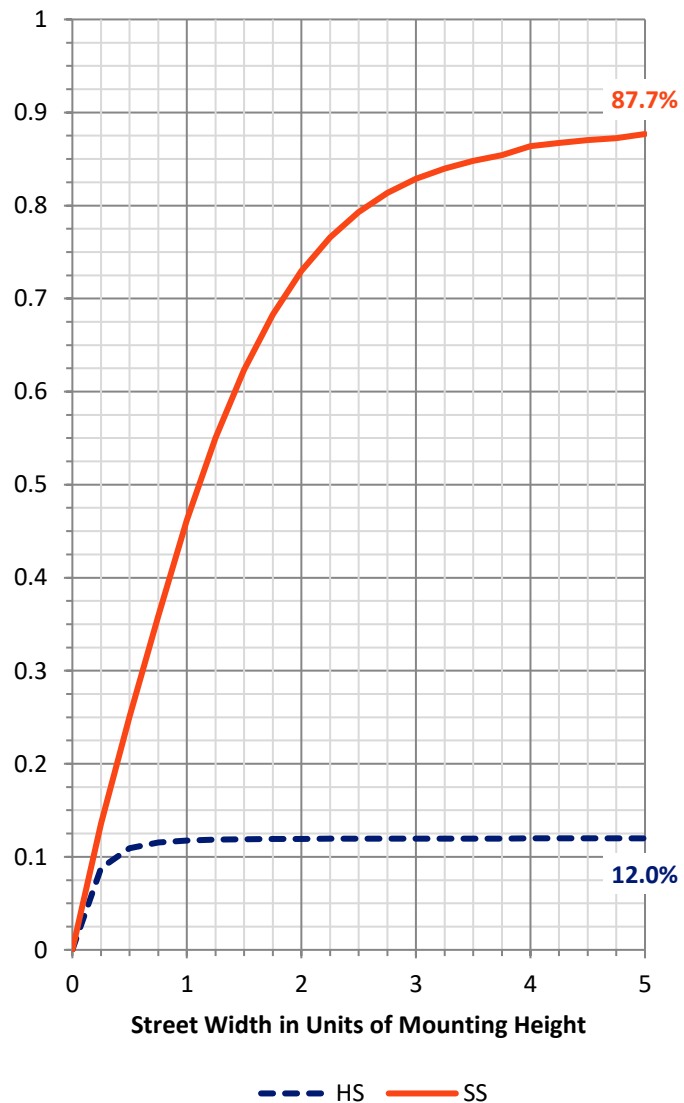
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4583.6	0.0	4583.6
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	33287.4	0.0	33287.4
	% Fixture	87.9	0.0	87.9
Total	Lumens	37871.0	0.0	37871.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	946.8	2.5
10°-20°	1884.6	5.0
20°-30°	2676.1	7.1
30°-40°	3952.8	10.4
40°-50°	5700.8	15.1
50°-60°	8002.7	21.1
60°-70°	9328.9	24.6
70°-80°	4769.1	12.6
80°-90°	609.1	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°	37871.0	100.0
0°-180°	37871.0	100.0

Coefficient of Utilization



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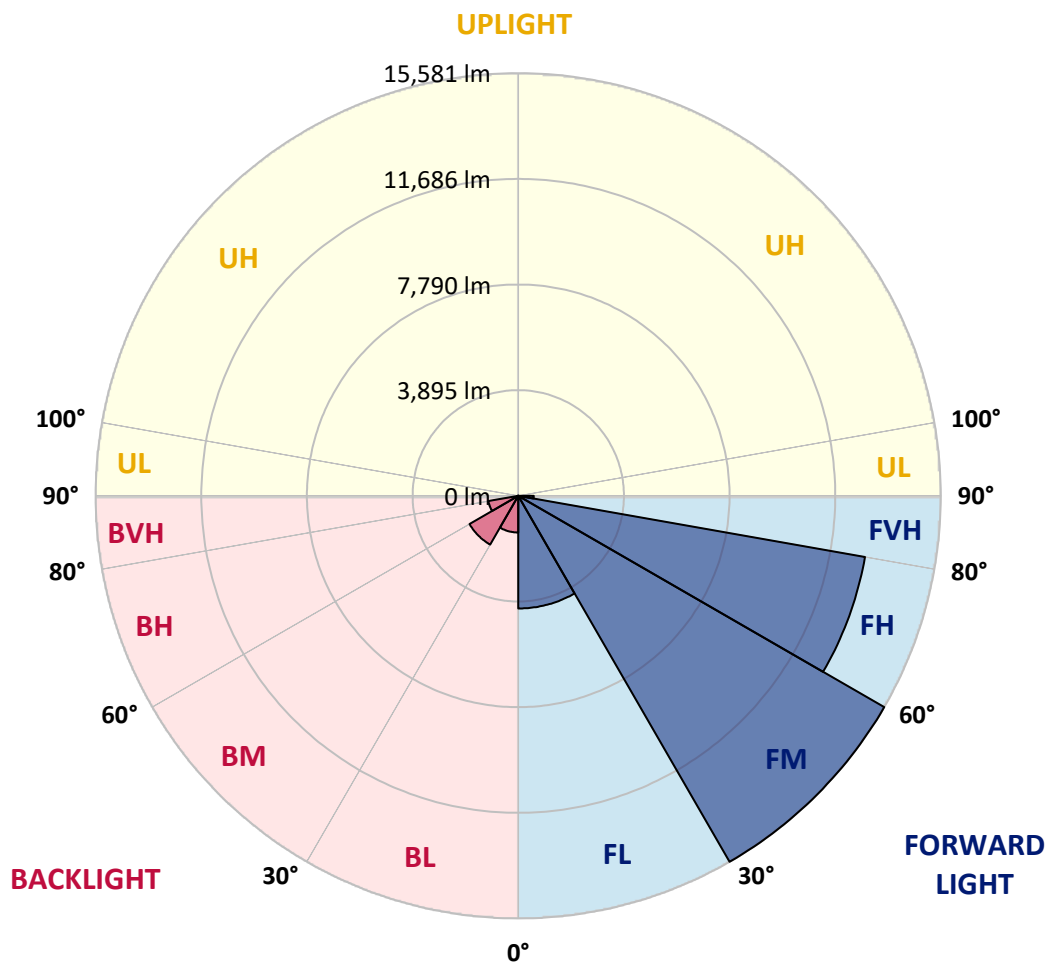
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4153.7	11.0			
FM	(30°-60°)	15580.8	41.1			
FH	(60°-80°)	12980.8	34.3			G5
FVH	(80°-90°)	572.1	1.5			G4/750
BL	(0°-30°)	1353.8	3.6	B3/2500		
BM	(30°-60°)	2075.6	5.5	B2/2500		
BH	(60°-80°)	1117.2	2.9	B3/2500		G3/2500
BVH	(80°-90°)	37.0	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°	12336.4	12336.4	12336.4	12336.4	12336.4	12336.4	12336.4	12336.4	12336.4	12336.4	12336.4
2.5°	13508.0	13403.9	13289.1	12914.1	12566.1	12167.8	11843.0	11617.0	11333.5	10965.7	10872.4
5°	13411.1	13299.9	12939.2	12105.0	11374.8	10664.3	9978.9	9577.0	9078.3	8572.3	8446.7
7.5°	12436.9	12320.3	11800.0	10657.1	9673.9	8647.7	7757.8	7207.0	6643.6	6180.8	5935.0
10°	11423.2	11295.8	10710.9	9324.1	8113.0	7185.5	6532.4	6006.7	5473.9	4978.7	4584.0
12.5°	10725.3	10558.4	9923.3	8351.7	7296.7	6667.0	6057.0	5427.2	4706.0	4174.9	3740.8
15°	10432.8	10242.7	9571.7	7976.7	7007.9	6268.7	5473.9	4700.6	3855.6	3247.4	2849.1
17.5°	10658.9	10411.3	9691.9	7951.6	6645.4	5638.9	4634.2	3726.4	2809.6	2194.2	1910.7
20°	11426.8	11102.0	10188.8	7944.4	6205.9	4890.8	3617.0	2590.7	1851.5	1489.1	1340.2
22.5°	12636.0	12207.2	10902.9	8001.8	5752.0	4105.0	2612.2	1760.0	1390.4	1202.1	1114.2
25°	14096.4	13599.5	11930.9	8204.5	5353.7	3340.7	1898.2	1390.4	1173.4	1035.2	961.7
27.5°	15485.1	15081.4	13229.9	8497.0	5045.1	2723.5	1541.2	1178.7	1002.9	911.4	852.2
30°	16872.0	16364.2	14562.9	8845.0	4673.7	2305.5	1354.6	1074.7	898.9	802.0	764.3
32.5°	17880.3	17458.6	15607.1	9096.2	4277.2	2032.7	1211.0	983.2	839.7	741.0	685.4
35°	19066.2	18588.9	16502.4	9151.8	4022.4	1860.5	1089.0	884.5	728.4	640.5	581.3
37.5°	20347.2	19753.3	17535.8	9029.8	3823.3	1776.2	997.5	839.7	680.0	590.3	527.5
40°	21764.5	21093.5	18527.9	8854.0	3627.7	1747.5	927.6	805.6	642.3	550.8	486.2
42.5°	23257.3	22466.0	19387.3	8669.2	3503.9	1648.8	920.4	771.5	613.6	514.9	450.3
45°	24511.3	23709.4	20270.0	8608.2	3416.0	1541.2	950.9	748.2	593.9	486.2	423.4
47.5°	25510.7	24751.8	21174.3	8744.6	3365.8	1442.5	866.6	778.7	583.1	461.1	400.1
50°	26703.8	25844.4	22448.1	9151.8	3292.2	1343.8	784.0	891.7	583.1	444.9	380.4
52.5°	28200.1	27349.7	23869.0	9783.4	3145.1	1207.4	705.1	893.5	588.5	423.4	355.2
55°	30082.1	29464.9	25898.2	10475.9	2910.1	1006.5	610.0	767.9	566.9	383.9	331.9
57.5°	31887.0	31382.8	27747.9	10949.5	2596.1	785.8	531.1	619.0	518.5	337.3	296.0
59°	32380.4	31829.6	28426.1	10971.1	2361.1	685.4	491.6	511.3	507.7	315.8	274.5
60°	32380.4	31795.5	28621.7	10856.3	2190.6	629.7	466.5	455.7	529.3	301.4	261.9
62.5°	31793.7	30972.0	27986.6	10079.4	1786.9	536.4	407.3	376.8	475.4	270.9	231.4
65°	30573.7	29377.0	25822.9	8674.6	1593.2	491.6	351.6	308.6	330.1	238.6	202.7
67.5°	28539.2	26917.3	22702.9	7007.9	1516.0	479.0	303.2	261.9	249.4	204.5	177.6
70°	24956.3	23156.8	18915.5	5509.8	1449.7	473.6	254.8	220.7	200.9	172.2	150.7
72.5°	18163.7	16287.1	13429.0	4307.7	1410.2	484.4	204.5	184.8	165.1	134.6	116.6
75°	10389.8	9160.8	7547.9	2845.5	1202.1	462.9	157.9	154.3	118.4	96.9	80.7
77.5°	5368.0	5204.8	4523.0	1092.6	575.9	202.7	104.1	89.7	70.0	59.2	48.4
80°	2316.2	2291.1	1982.5	315.8	152.5	113.0	59.2	37.7	32.3	25.1	19.7
82.5°	800.2	800.2	705.1	105.9	68.2	55.6	7.2	0.0	0.0	0.0	0.0
85°	161.5	181.2	127.4	0.0	23.3	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°	12336.4	12336.4	12336.4	12336.4	12336.4	12336.4	12336.4	12336.4	12336.4	12336.4	12336.4
2.5°	10759.4	10542.3	10527.9	10391.6	10221.1	10144.0	10099.1	10178.1	10275.0	10285.7	10431.0
5°	8351.7	8123.8	8218.9	7976.7	8025.1	7976.7	7897.7	7912.1	7955.2	7820.6	7987.4
7.5°	5865.0	5692.8	5802.2	5737.6	5823.7	5857.8	5809.4	5737.6	5525.9	5500.8	5646.1
10°	4420.7	4225.2	4108.5	3986.5	4013.5	4069.1	4051.1	3999.1	3864.5	3871.7	4011.7
12.5°	3552.4	3333.5	3102.0	2802.4	2728.9	2770.1	2728.9	2698.4	2569.2	2580.0	2703.7
15°	2694.8	2515.4	2273.2	2032.7	1901.8	1914.3	1799.5	1718.8	1638.0	1541.2	1616.5
17.5°	1819.2	1709.8	1638.0	1566.3	1410.2	1374.3	1229.0	1072.9	1011.9	967.0	999.3
20°	1288.2	1229.0	1200.3	1196.7	1107.0	1062.1	920.4	823.5	793.0	784.0	803.8
22.5°	1076.5	1033.4	992.2	968.8	924.0	871.9	764.3	715.9	694.3	683.6	697.9
25°	936.5	904.2	861.2	821.7	803.8	748.2	671.0	635.1	620.8	610.0	617.2
27.5°	832.5	803.8	753.5	728.4	714.1	665.6	599.2	570.5	558.0	554.4	552.6
30°	749.9	723.0	676.4	647.7	622.6	579.5	540.0	511.3	498.8	495.2	491.6
32.5°	667.4	645.9	615.4	586.7	559.8	520.3	486.2	462.9	443.1	439.6	437.8
35°	563.4	541.8	525.7	523.9	498.8	461.1	436.0	405.5	389.3	383.9	385.7
37.5°	500.6	471.9	436.0	448.5	441.4	414.4	380.4	349.9	333.7	330.1	330.1
40°	461.1	430.6	389.3	367.8	389.3	383.9	330.1	299.6	283.5	281.7	278.1
42.5°	423.4	392.9	346.3	310.4	321.1	337.3	285.3	256.6	240.4	236.8	231.4
45°	396.5	364.2	312.2	270.9	249.4	283.5	244.0	208.1	199.1	192.0	188.4
47.5°	371.4	340.9	281.7	235.0	199.1	204.5	195.6	170.4	159.7	152.5	150.7
50°	349.9	317.6	254.8	200.9	165.1	150.7	157.9	134.6	125.6	118.4	114.8
52.5°	324.7	294.2	226.1	174.0	138.1	118.4	120.2	105.9	96.9	91.5	89.7
55°	305.0	274.5	202.7	152.5	122.0	96.9	86.1	82.5	77.1	73.6	71.8
57.5°	278.1	249.4	179.4	129.2	104.1	78.9	66.4	66.4	64.6	61.0	59.2
59°	261.9	236.8	165.1	116.6	95.1	68.2	59.2	61.0	59.2	55.6	53.8
60°	249.4	226.1	154.3	107.6	89.7	62.8	53.8	57.4	55.6	52.0	50.2
62.5°	220.7	204.5	132.8	89.7	78.9	50.2	44.9	48.4	48.4	46.6	44.9
65°	193.8	175.8	113.0	75.4	73.6	43.1	35.9	43.1	44.9	41.3	37.7
67.5°	168.6	150.7	98.7	61.0	68.2	34.1	26.9	35.9	48.4	37.7	34.1
70°	143.5	125.6	77.1	48.4	71.8	23.3	21.5	32.3	57.4	41.3	32.3
72.5°	111.2	96.9	53.8	35.9	77.1	16.1	16.1	26.9	64.6	44.9	30.5
75°	77.1	62.8	32.3	21.5	62.8	10.8	10.8	25.1	61.0	41.3	28.7
77.5°	44.9	34.1	10.8	1.8	32.3	0.0	1.8	17.9	43.1	25.1	12.6
80°	16.1	7.2	0.0	0.0	19.7	0.0	0.0	0.0	3.6	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°	12336.4	12336.4	12336.4	12336.4	12336.4	12336.4	12336.4	12336.4	12336.4	12336.4	12336.4
2.5°	10468.7	10710.9	10928.0	11256.3	11645.7	12094.2	12479.9	12894.4	13283.7	13445.2	13556.4
5°	8021.5	8321.2	8671.0	9153.6	9795.9	10587.1	11328.1	12166.0	13066.6	13516.9	13940.4
7.5°	5671.2	5976.2	6410.4	6923.5	7700.4	8642.3	9611.1	10768.3	11988.3	12700.6	13402.1
10°	4078.0	4453.0	4858.5	5560.0	6349.4	7242.9	8240.4	9532.2	10892.1	11681.6	12526.6
12.5°	2775.5	3202.5	3816.1	4601.9	5529.5	6405.0	7271.6	8504.2	10083.0	10865.2	11771.3
15°	1664.9	1901.8	2551.2	3460.9	4598.3	5689.2	6638.3	7874.4	9557.3	10515.4	11457.3
17.5°	1026.2	1135.7	1489.1	2235.5	3430.4	4810.1	6110.8	7660.9	9632.7	10798.8	11807.1
20°	818.1	861.2	974.2	1320.5	2273.2	3841.2	5516.9	7617.9	10248.0	11683.3	12765.2
22.5°	710.5	751.7	827.1	959.9	1429.9	2876.0	4953.6	7657.3	11130.8	13009.2	14272.3
25°	626.1	662.0	733.8	843.2	1047.8	2025.6	4350.8	7833.2	12280.8	14654.4	15996.4
27.5°	559.8	590.3	656.6	757.1	898.9	1413.8	3667.2	8046.7	13644.3	16337.3	17661.4
30°	498.8	525.7	584.9	678.2	780.4	1087.2	2917.2	8192.0	15009.7	17661.4	18850.9
32.5°	446.7	466.5	520.3	599.2	678.2	866.6	2217.5	8168.7	16023.3	18763.0	19706.7
35°	392.9	412.6	459.3	527.5	590.3	715.9	1743.9	7732.7	16906.0	19905.8	20686.3
37.5°	333.7	358.8	403.7	464.7	507.7	629.7	1410.2	7207.0	17801.3	21211.9	21778.9
40°	283.5	308.6	348.1	414.4	441.4	597.4	1083.7	6566.5	18807.8	22672.4	22977.4
42.5°	235.0	258.4	299.6	357.0	416.2	514.9	802.0	5834.5	19774.9	23921.1	24070.0
45°	190.2	213.5	256.6	314.0	444.9	427.0	620.8	5050.5	20555.3	24959.9	25008.3
47.5°	150.7	172.2	217.1	296.0	414.4	340.9	443.1	4435.1	21210.2	25770.8	25643.4
50°	116.6	134.6	181.2	339.1	362.4	281.7	335.5	4230.5	21796.8	26273.2	25943.1
52.5°	91.5	107.6	148.9	317.6	281.7	233.2	281.7	4422.5	22600.6	26689.4	26111.7
55°	73.6	89.7	116.6	181.2	192.0	197.4	240.4	4601.9	23987.5	27665.4	27107.4
57.5°	61.0	77.1	95.1	127.4	145.3	166.9	213.5	4621.7	25621.9	29287.3	28759.8
59°	55.6	70.0	86.1	113.0	127.4	152.5	200.9	4514.0	26197.8	29877.6	29613.8
60°	52.0	66.4	80.7	104.1	118.4	143.5	193.8	4411.8	26222.9	29856.0	29978.0
62.5°	44.9	59.2	71.8	87.9	100.5	122.0	174.0	4033.2	25160.8	28878.2	29759.2
65°	39.5	52.0	64.6	75.4	86.1	109.4	157.9	3342.5	23347.0	27301.2	28261.1
67.5°	35.9	44.9	59.2	66.4	77.1	96.9	139.9	2382.6	21081.0	25372.5	25995.1
70°	32.3	43.1	53.8	61.0	70.0	84.3	120.2	1368.9	17801.3	22548.6	22991.7
72.5°	30.5	41.3	48.4	57.4	62.8	75.4	109.4	644.1	13034.3	18063.3	19220.5
75°	26.9	37.7	44.9	53.8	59.2	68.2	93.3	308.6	8669.2	13072.0	14387.1
77.5°	16.1	30.5	41.3	48.4	52.0	59.2	77.1	177.6	5533.1	9047.8	10657.1
80°	0.0	10.8	30.5	41.3	44.9	50.2	59.2	139.9	2960.3	5168.9	6204.1
82.5°	0.0	0.0	21.5	32.3	30.5	34.1	44.9	87.9	1334.8	3378.3	3807.1
85°	0.0	0.0	7.2	25.1	21.5	16.1	30.5	30.5	292.4	1709.8	2133.2
87.5°	0.0	0.0	0.0	1.8	10.8	7.2	12.6	3.6	1.8	127.4	516.7
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: P324563

CATALOG NUMBER: GAN-SA9B-760-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12336.4	12336.4	12336.4	12336.4	12336.4	12336.4	12336.4	12336.4	12336.4	12336.4
2.5°	13945.7	14078.5	14302.8	14408.6	14356.6	14135.9	13872.2	13603.1	13445.2	13508.0
5°	14803.3	15486.9	15881.6	16012.6	15793.7	15298.5	14650.8	13796.8	13493.6	13411.1
7.5°	14803.3	16089.7	16904.3	17047.8	16559.8	15589.2	14374.5	13041.5	12598.4	12436.9
10°	14283.0	16034.1	17169.8	17397.6	16715.9	15264.4	13637.1	12115.7	11590.1	11423.2
12.5°	13696.4	15582.0	16778.7	17092.6	16532.9	14941.5	13125.8	11489.6	10870.6	10725.3
15°	13335.7	15025.8	16016.2	16244.0	16007.2	14753.1	13003.8	11301.2	10572.8	10432.8
17.5°	13464.9	14595.2	14952.2	15085.0	15244.7	14686.7	13335.7	11713.8	10791.7	10658.9
20°	13951.1	14141.3	13956.5	14123.4	14553.9	14751.3	14126.9	12711.4	11604.4	11426.8
22.5°	14776.4	13906.3	13387.8	13454.1	13978.0	14964.8	15336.2	14135.9	12858.5	12636.0
25°	15738.1	14096.4	13072.0	13012.8	13551.0	15246.5	16441.4	15686.0	14342.2	14096.4
27.5°	16947.3	14523.4	13007.4	12948.2	13402.1	15510.2	17360.0	17218.2	15904.9	15485.1
30°	17880.3	14943.3	13199.4	13063.0	13551.0	15693.2	18097.3	18519.0	17150.0	16872.0
32.5°	18549.5	15438.5	13511.6	13314.2	13970.9	16009.0	18666.1	19710.3	18301.9	17880.3
35°	19059.0	15976.7	14015.7	13691.0	14548.6	16488.0	19198.9	20978.7	19527.3	19066.2
37.5°	19536.2	16732.0	14803.3	14415.8	15454.6	17259.5	19762.3	22417.6	20898.0	20347.2
40°	20201.9	17587.8	16018.0	15673.5	16977.8	18310.8	20465.6	23917.5	22457.1	21764.5
42.5°	20867.5	18506.4	17261.3	17354.6	18877.8	19588.3	21373.4	25503.5	23996.4	23257.3
45°	21475.7	19453.7	19032.1	19462.7	20641.4	20989.5	22275.9	26420.3	25225.4	24511.3
47.5°	22017.5	20637.8	20792.1	21938.6	22647.2	22257.9	22950.5	27211.5	26140.4	25510.7
50°	22647.2	22170.0	23111.9	24733.8	24956.3	23406.2	23564.0	28148.0	27209.7	26703.8
52.5°	23336.2	23784.7	25681.1	27111.0	27039.3	24653.1	24181.2	29197.6	28675.5	28200.1
55°	24118.4	25089.1	27943.5	29335.7	29274.7	26045.3	25203.9	30494.8	30512.7	30082.1
57.5°	25279.2	26212.2	29479.3	31135.3	31237.5	27652.9	26937.0	31948.0	32174.1	31887.0
59°	26111.7	26940.6	30087.5	31887.0	32303.2	28896.2	28203.7	32791.2	32642.3	32380.4
60°	26728.9	27403.5	30388.9	32279.9	32922.2	29739.4	29138.4	33286.4	32697.9	32380.4
62.5°	28255.7	28411.8	30932.5	32724.9	33634.5	31612.5	31768.6	34129.7	32312.2	31793.7
65°	28968.0	29048.7	30925.3	31928.3	32945.5	33071.1	34154.8	34154.8	31370.3	30573.7
67.5°	28670.1	28280.8	29391.4	29287.3	30302.8	32204.6	35051.8	32902.5	29569.0	28539.2
70°	26248.1	24750.0	24256.6	24301.4	25078.3	28011.7	33275.6	29217.3	26160.1	24956.3
72.5°	21839.9	18246.3	17028.0	18418.5	18621.2	21527.7	28358.0	22003.2	19292.2	18163.7
75°	17566.3	12862.1	10881.4	12349.0	12693.4	15754.2	21936.8	13703.5	11268.9	10389.8
77.5°	12619.9	9232.6	7808.0	7705.8	8150.7	9991.5	15565.8	6896.6	5752.0	5368.0
80°	7169.3	6076.7	6543.2	6173.6	6397.9	6247.1	7395.4	3024.9	2477.7	2316.2
82.5°	4327.4	3591.8	3889.7	3238.4	4097.8	3568.5	2849.1	968.8	841.4	800.2
85°	2815.0	1962.8	1022.7	685.4	1412.0	2280.3	636.9	263.7	202.7	161.5
87.5°	970.6	500.6	50.2	21.5	150.7	425.2	23.3	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)