

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: P324153

Luminaire Tested: **GAN-SA9A-740-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324153
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-SA9A-740-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 615mA 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: 30887 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

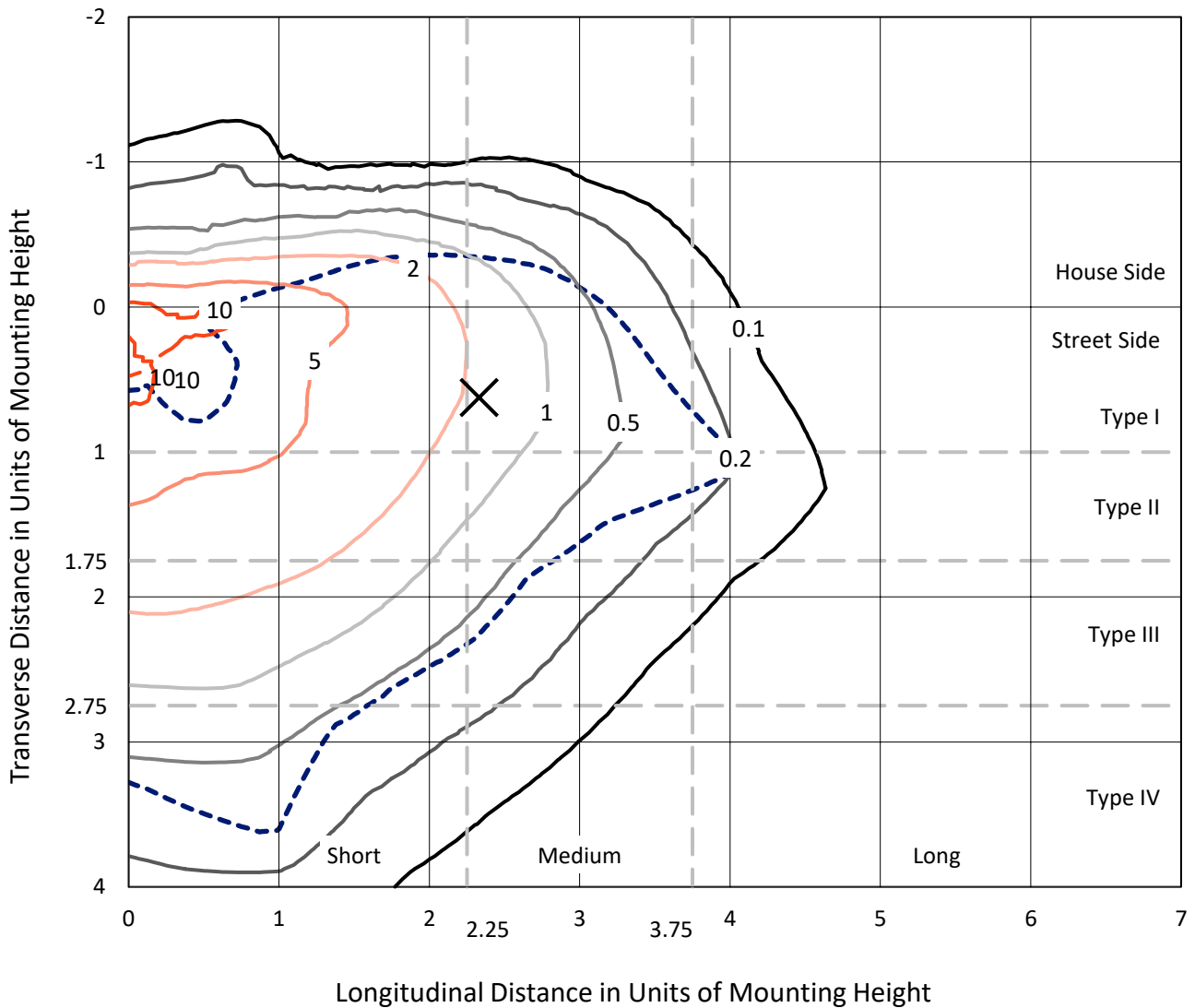
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

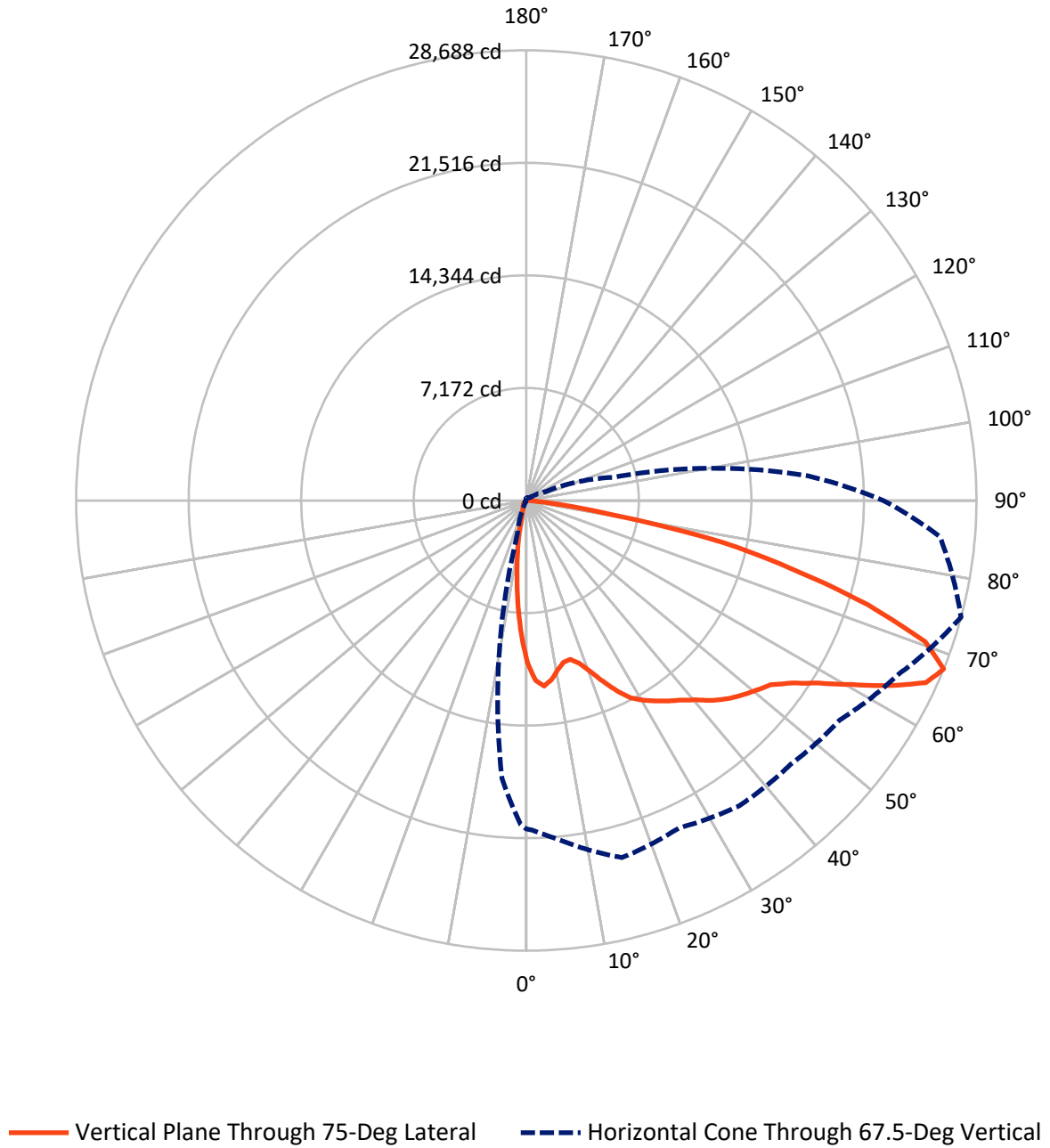
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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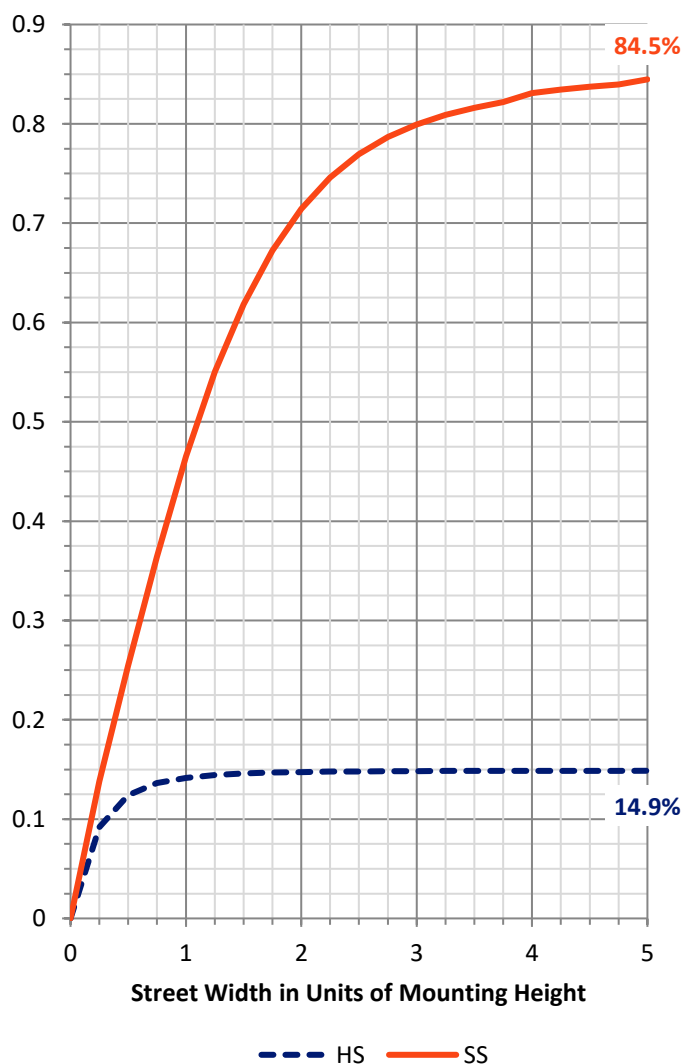
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4634.9	0.0	4634.9
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	26252.1	0.0	26252.1
	% Fixture	85.0	0.0	85.0
Total	Lumens	30887.0	0.0	30887.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	786.0	2.5
10°-20°	1547.7	5.0
20°-30°	2189.5	7.1
30°-40°	3219.2	10.4
40°-50°	4627.0	15.0
50°-60°	6513.7	21.1
60°-70°	7607.4	24.6
70°-80°	3881.0	12.6
80°-90°	515.6	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°	30887.0	100.0
0°-180°	30887.0	100.0

Coefficient of Utilization



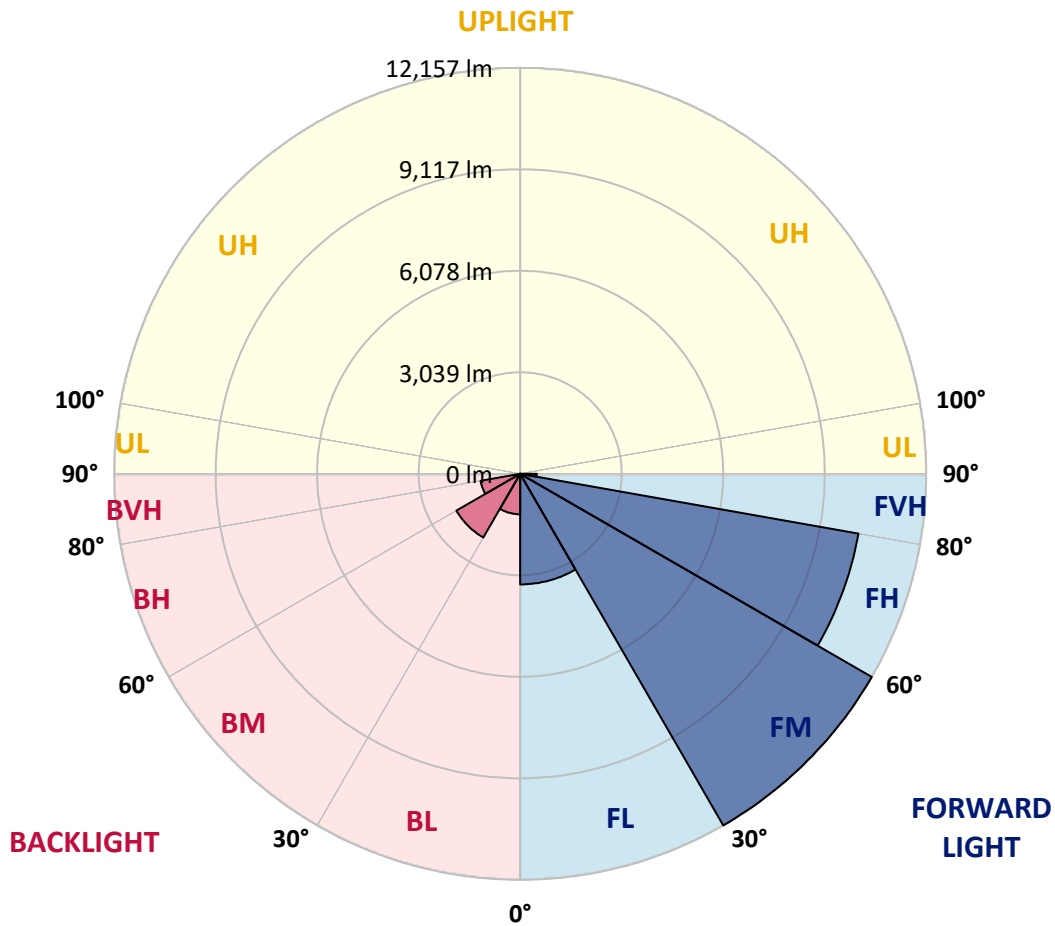
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3311.1	10.7			
FM (30°-60°)	12156.6	39.4			
FH (60°-80°)	10284.5	33.3			G4/12000
FVH (80°-90°)	499.9	1.6			G3/500
BL (0°-30°)	1212.1	3.9	B3/2500		
BM (30°-60°)	2203.3	7.1	B2/2500		
BH (60°-80°)	1203.9	3.9	B3/2500		G3/2500
BVH (80°-90°)	15.6	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10362.1	10362.1	10362.1	10362.1	10362.1	10362.1	10362.1	10362.1	10362.1	10362.1	10362.1
2.5°	11232.6	11250.2	11340.9	11551.6	11781.3	11798.9	11954.0	11794.5	11740.4	11482.8	11216.5
5°	11317.5	11384.8	11696.5	12315.4	12852.3	13025.0	13147.9	12834.8	12505.6	11876.4	11204.8
7.5°	10634.2	10746.9	11237.0	12398.8	13358.6	13782.9	13863.4	13373.2	12567.0	11531.1	10521.5
10°	9759.2	9888.0	10479.1	11907.2	13225.5	13952.6	14063.8	13421.5	12262.7	10972.2	9782.7
12.5°	9051.1	9201.8	9806.1	11354.1	12767.5	13572.2	13791.7	13259.1	11999.3	10575.7	9277.9
15°	8724.8	8897.4	9532.5	10997.1	12259.8	12893.3	13074.7	12845.0	11853.0	10512.8	9160.8
17.5°	8912.1	9099.4	9754.9	11027.8	11782.8	12053.5	12199.8	12293.4	11853.0	10891.7	9503.2
20°	9680.2	9882.1	10575.7	11339.4	11387.7	11286.8	11443.3	11772.5	11990.6	11611.6	10325.5
22.5°	10742.5	10979.5	11762.3	11873.5	11194.6	10812.7	10833.2	11349.7	12240.8	12524.6	11466.7
25°	12037.4	12327.1	13123.0	12669.5	11275.1	10530.3	10523.0	11001.5	12485.1	13439.1	12738.2
27.5°	13323.5	13642.5	14341.8	13641.0	11607.2	10479.1	10464.5	10896.1	12723.6	14252.6	14126.8
30°	14401.8	14712.0	15314.8	14344.8	11965.7	10599.1	10528.9	11008.8	12865.5	14780.8	15139.3
32.5°	15279.7	15528.5	16015.7	14829.1	12349.0	10831.7	10679.6	11310.2	13106.9	15227.0	16069.8
35°	16245.4	16507.3	16701.9	15290.0	12779.2	11166.8	10948.8	11788.6	13478.6	15680.6	17089.6
37.5°	17347.2	17607.6	17584.2	15711.4	13324.9	11721.3	11582.3	12546.5	14056.5	16129.8	18228.0
40°	18425.5	18691.8	18501.6	16172.2	13965.8	12635.8	12533.4	13684.9	14830.5	16704.8	19562.4
42.5°	19435.1	19723.3	19316.6	16608.3	14729.6	13788.8	13964.3	15151.0	15799.1	17413.0	20712.4
45°	20248.6	20542.7	19999.9	17032.6	15534.3	15187.5	15715.7	16775.1	16963.8	18011.4	21489.4
47.5°	20839.7	21117.7	20473.9	17456.9	16564.4	16898.0	17818.3	18478.2	18015.8	18530.9	22041.0
50°	21217.2	21433.8	20612.9	17988.0	17916.3	18893.7	20008.6	20330.5	19006.4	18999.1	22711.1
52.5°	21457.2	21555.2	20715.3	18542.6	19326.8	21066.5	22153.6	22254.6	20026.2	19514.1	23613.9
55°	22283.8	22362.9	21441.1	19214.1	20492.9	22970.1	24093.8	24000.1	21180.6	20522.2	24679.0
57.5°	23694.3	23777.7	22940.8	20179.8	21436.7	24146.4	25499.9	25668.1	22534.0	21938.5	25820.3
60°	24402.5	24557.6	24259.1	21403.0	22351.1	24898.5	26458.2	26995.2	24225.4	23805.5	26926.4
62.5°	23760.2	23985.5	24418.6	22759.4	23259.8	25312.6	26756.7	27470.7	25957.8	25981.2	27608.3
65°	22478.4	22658.4	23392.9	23502.7	23786.5	25261.4	26019.3	26806.5	27018.6	27979.9	27571.7
67.5°	20930.4	20997.7	21621.0	23561.2	23022.7	23722.1	23804.1	24386.4	26180.2	28688.1	26464.1
70°	18702.0	18738.6	19282.9	21602.0	19784.8	19938.4	19817.0	19935.5	22507.7	26963.0	23668.0
72.5°	15051.5	15143.6	15917.7	17939.7	14413.5	13970.2	14924.2	14871.5	17334.0	22779.9	17578.3
75°	11081.9	11241.4	12410.5	14450.1	10116.3	9150.6	9847.0	10032.9	12322.7	17620.8	10992.7
77.5°	7759.1	7877.6	9010.1	10622.5	7321.6	6543.2	6291.6	6512.5	8133.7	12747.0	5538.0
80°	4469.9	4513.8	5236.6	6133.5	4933.8	5644.9	5113.7	5265.9	4873.8	5671.2	2382.0
82.5°	2924.8	2932.2	3214.6	3650.6	3072.6	3570.1	2642.5	3378.4	2998.0	2278.1	775.5
85°	1580.2	1589.0	1864.1	2591.2	1739.7	983.2	577.9	1186.6	1853.8	522.3	212.2
87.5°	174.1	159.5	561.9	942.3	482.8	89.3	30.7	133.1	297.0	33.7	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°	10362.1	10362.1	10362.1	10362.1	10362.1	10362.1	10362.1	10362.1	10362.1	10362.1	10362.1
2.5°	11080.5	10959.0	10656.2	10335.7	10078.2	9836.8	9593.9	9296.9	9067.2	9020.3	8944.3
5°	10843.4	10458.6	9823.6	9185.7	8672.1	8023.9	7612.8	7292.4	6979.2	6960.2	6897.3
7.5°	10015.3	9509.0	8615.1	7732.8	7010.0	6392.5	5769.2	5352.2	5024.5	4908.9	4840.1
10°	9219.3	8650.2	7533.8	6527.1	5881.9	5336.1	4897.2	4461.2	4066.1	3794.0	3671.1
12.5°	8663.3	8034.2	6803.7	5936.0	5473.7	4955.7	4420.2	3875.9	3420.9	3093.1	2892.7
15°	8448.3	7776.7	6559.3	5701.9	5131.3	4475.8	3791.0	3169.2	2664.4	2367.4	2187.4
17.5°	8704.3	7923.0	6540.3	5416.6	4619.2	3804.2	3047.8	2313.2	1837.7	1612.4	1496.8
20°	9353.9	8388.3	6533.0	5066.9	4010.5	3008.2	2064.5	1521.7	1233.4	1107.6	1053.5
22.5°	10272.8	8982.3	6591.5	4721.6	3377.0	2149.4	1425.1	1117.9	970.1	902.8	872.0
25°	11455.0	9816.3	6756.8	4408.5	2781.5	1603.6	1110.5	936.4	832.5	779.9	757.9
27.5°	12714.8	10776.1	7014.4	4136.3	2297.2	1278.8	951.1	801.8	727.2	690.6	670.1
30°	13753.7	11888.1	7274.8	3833.5	1946.0	1114.9	870.6	731.6	645.3	621.8	602.8
32.5°	14662.3	12729.4	7459.2	3559.9	1716.3	990.6	787.2	654.0	595.5	550.1	529.7
35°	15603.1	13430.3	7453.3	3368.2	1558.3	896.9	716.9	585.3	515.0	462.4	446.3
37.5°	16621.4	14221.9	7326.0	3204.3	1489.5	822.3	677.4	548.7	478.5	425.8	405.3
40°	17813.9	15052.9	7195.8	3050.7	1470.5	762.3	649.6	519.4	444.8	393.6	373.1
42.5°	18975.7	15802.1	7081.7	2936.6	1388.5	760.8	624.8	497.5	418.5	368.7	345.3
45°	19904.8	16500.0	7059.7	2867.8	1302.2	787.2	611.6	482.8	398.0	348.2	326.3
47.5°	20677.3	17257.9	7200.2	2819.5	1220.3	718.4	643.8	472.6	379.0	330.7	305.8
50°	21596.2	18188.5	7530.9	2740.5	1133.9	646.7	737.4	475.5	362.9	313.1	286.8
52.5°	22877.9	19476.0	8016.6	2607.3	1015.4	580.9	725.7	478.5	345.3	294.1	267.8
55°	24314.7	21084.1	8539.0	2386.4	850.1	494.5	621.8	458.0	311.7	273.6	248.7
57.5°	25824.7	22542.8	8849.2	2123.0	676.0	427.2	497.5	417.0	275.1	245.8	229.7
60°	26061.7	23097.4	8707.2	1799.7	537.0	371.6	368.7	424.3	245.8	216.5	204.8
62.5°	25472.1	22400.9	8021.0	1511.4	449.2	326.3	302.9	370.2	222.4	193.1	181.4
65°	24338.1	20517.8	6909.0	1362.2	417.0	279.5	251.7	260.4	194.6	168.3	158.0
67.5°	22760.8	18004.1	5672.7	1277.3	412.6	240.0	215.1	197.5	168.3	146.3	137.5
70°	19536.0	14998.8	4525.5	1230.5	400.9	201.9	181.4	160.9	140.5	124.4	117.1
72.5°	14378.4	10628.4	3520.3	1179.3	403.8	160.9	158.0	133.1	112.7	96.6	93.6
75°	8307.8	6072.1	2308.9	955.4	384.8	124.4	131.7	93.6	79.0	67.3	67.3
77.5°	4427.5	3703.2	879.4	398.0	140.5	79.0	74.6	55.6	49.7	41.0	39.5
80°	1929.9	1630.0	264.8	111.2	77.5	42.4	27.8	24.9	21.9	17.6	16.1
82.5°	683.3	589.7	86.3	54.1	33.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	155.1	111.2	0.0	13.2	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°	10362.1	10362.1	10362.1	10362.1	10362.1	10362.1	10362.1	10362.1	10362.1	10362.1	10362.1
2.5°	8789.2	8757.0	8566.8	8574.1	8607.7	8656.0	8541.9	8594.6	8736.5	8872.6	8923.8
5°	6796.4	6803.7	6688.1	6759.8	6824.2	6868.0	6683.7	6686.6	6799.3	6952.9	7033.4
7.5°	4788.9	4777.2	4783.1	4954.2	5075.7	4987.9	5056.7	4818.2	4832.8	4942.5	4860.6
10°	3559.9	3398.9	3308.2	3436.9	3570.1	3521.8	3403.3	3325.8	3379.9	3501.3	3492.5
12.5°	2797.6	2566.4	2430.3	2338.1	2447.9	2357.1	2354.2	2286.9	2213.8	2226.9	2421.5
15°	2104.0	1935.8	1774.8	1627.0	1624.1	1593.4	1436.8	1261.2	1246.6	1255.4	1356.3
17.5°	1447.1	1390.0	1324.2	1196.9	1163.2	1034.5	882.3	812.1	776.9	793.0	826.7
20°	1016.9	994.9	1002.3	933.5	885.2	762.3	673.1	645.3	639.4	655.5	671.6
22.5°	842.8	803.3	798.9	768.2	719.9	630.6	582.3	566.2	558.9	573.6	585.3
25°	737.4	697.9	681.8	662.8	611.6	550.1	520.9	506.3	498.9	507.7	515.0
27.5°	649.6	613.1	598.4	585.3	535.5	491.6	468.2	455.0	449.2	452.1	459.4
30°	583.8	551.6	532.6	516.5	474.1	443.3	422.9	409.7	403.8	403.8	411.1
32.5°	515.0	497.5	479.9	459.4	419.9	399.4	379.0	364.3	358.5	359.9	365.8
35°	428.7	422.9	427.2	408.2	374.6	357.0	336.5	320.4	316.0	317.5	323.4
37.5°	380.4	354.1	370.2	359.9	340.9	317.5	291.2	276.5	269.2	273.6	276.5
40°	349.7	317.5	305.8	316.0	313.1	275.1	251.7	237.0	231.2	232.6	235.6
42.5°	323.4	285.3	259.0	257.5	275.1	240.0	215.1	201.9	194.6	194.6	197.5
45°	298.5	257.5	225.3	200.5	231.2	203.4	180.0	168.3	159.5	159.5	160.9
47.5°	279.5	234.1	196.1	163.9	174.1	166.8	147.8	136.1	127.3	127.3	128.8
50°	261.9	210.7	169.7	137.5	130.2	137.5	120.0	106.8	101.0	99.5	102.4
52.5°	242.9	187.3	144.9	117.1	102.4	103.9	93.6	84.9	77.5	77.5	80.5
55°	223.9	168.3	125.8	99.5	84.9	77.5	74.6	68.8	62.9	62.9	65.8
57.5°	204.8	147.8	106.8	81.9	67.3	61.5	61.5	57.1	52.7	52.7	55.6
60°	187.3	127.3	87.8	67.3	52.7	51.2	52.7	48.3	45.4	45.4	48.3
62.5°	166.8	108.3	71.7	55.6	42.4	41.0	45.4	42.4	39.5	39.5	42.4
65°	141.9	92.2	57.1	42.4	32.2	32.2	38.0	35.1	32.2	32.2	35.1
67.5°	120.0	77.5	43.9	30.7	23.4	24.9	32.2	29.3	27.8	27.8	30.7
70°	99.5	60.0	30.7	19.0	13.2	19.0	24.9	24.9	24.9	24.9	27.8
72.5°	74.6	41.0	17.6	7.3	5.9	13.2	20.5	23.4	21.9	21.9	26.3
75°	48.3	23.4	5.9	0.0	0.0	7.3	16.1	19.0	19.0	17.6	21.9
77.5°	27.8	7.3	0.0	0.0	0.0	0.0	10.2	8.8	7.3	5.9	10.2
80°	7.3	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: P324153
 CATALOG NUMBER: GAN-SA9A-740-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10362.1	10362.1	10362.1	10362.1	10362.1	10362.1	10362.1	10362.1	10362.1	10362.1
2.5°	9130.1	9302.7	9545.6	9803.1	10199.7	10514.2	10823.0	11087.8	11190.2	11232.6
5°	7226.5	7479.6	7835.2	8291.7	9007.2	9651.0	10303.5	10960.5	11245.8	11317.5
7.5°	5185.4	5508.8	5960.9	6533.0	7371.4	8205.4	9116.9	10081.1	10523.0	10634.2
10°	3837.9	4232.9	4750.9	5353.7	6154.0	7011.4	8004.9	9106.7	9611.5	9759.2
12.5°	2722.9	3257.0	3950.5	4683.6	5377.1	6142.3	7147.5	8361.9	8891.6	9051.1
15°	1599.2	2115.7	2936.6	3918.3	4806.5	5581.9	6603.2	7980.0	8563.8	8724.8
17.5°	917.4	1174.9	1795.3	2889.7	4095.4	5169.3	6432.0	8075.1	8762.8	8912.1
20°	700.9	782.8	1034.5	1861.1	3264.3	4764.0	6432.0	8613.6	9460.8	9680.2
22.5°	613.1	673.1	775.5	1110.5	2402.5	4329.5	6506.6	9392.0	10499.6	10742.5
25°	544.3	598.4	686.2	835.5	1638.7	3813.0	6683.7	10347.4	11722.8	12037.4
27.5°	487.2	538.4	617.5	731.6	1120.8	3189.7	6922.2	11468.2	13071.8	13323.5
30°	436.0	484.3	556.0	636.5	864.7	2483.0	7125.6	12524.6	14131.1	14401.8
32.5°	387.7	431.6	496.0	556.0	708.2	1836.3	7147.5	13361.5	15010.5	15279.7
35°	342.4	381.9	440.4	487.2	586.7	1450.0	6806.6	14087.3	15889.9	16245.4
37.5°	298.5	336.5	387.7	422.9	516.5	1182.2	6285.7	14896.4	17018.0	17347.2
40°	257.5	291.2	343.8	367.3	488.7	908.6	5719.5	15745.0	18124.1	18425.5
42.5°	219.5	251.7	302.9	348.2	428.7	678.9	5107.9	16541.0	19119.0	19435.1
45°	182.9	216.5	267.8	368.7	355.5	507.7	4453.8	17069.2	19904.8	20248.6
47.5°	147.8	185.8	256.1	351.2	283.9	373.1	3935.9	17569.6	20500.3	20839.7
50°	118.5	156.6	288.2	313.1	232.6	285.3	3719.3	18017.3	20890.9	21217.2
52.5°	96.6	131.7	272.1	240.0	194.6	235.6	3836.4	18743.0	21252.3	21457.2
55°	80.5	103.9	163.9	166.8	165.3	200.5	3981.2	19784.8	22187.3	22283.8
57.5°	70.2	83.4	114.1	128.8	139.0	178.5	3984.2	21280.1	23634.3	23694.3
60°	60.0	73.2	95.1	103.9	120.0	159.5	3839.3	21802.5	24203.5	24402.5
62.5°	52.7	64.4	79.0	86.3	101.0	143.4	3499.9	21046.0	23422.2	23760.2
65°	46.8	58.5	65.8	73.2	89.3	128.8	2940.9	19533.1	22125.8	22478.4
67.5°	41.0	51.2	58.5	65.8	80.5	114.1	2165.5	17775.9	20637.8	20930.4
70°	36.6	45.4	52.7	58.5	70.2	96.6	1313.9	15083.7	18580.6	18702.0
72.5°	35.1	41.0	48.3	52.7	61.5	84.9	665.7	11084.9	14853.9	15051.5
75°	30.7	36.6	43.9	46.8	54.1	73.2	270.7	7280.7	10764.4	11081.9
77.5°	24.9	33.7	39.5	42.4	46.8	60.0	137.5	4652.8	7554.3	7759.1
80°	8.8	24.9	33.7	35.1	39.5	43.9	90.7	2547.4	4382.1	4469.9
82.5°	0.0	16.1	26.3	24.9	27.8	33.7	58.5	1211.5	2892.7	2924.8
85°	0.0	7.3	20.5	16.1	11.7	23.4	20.5	264.8	1517.3	1580.2
87.5°	0.0	0.0	1.5	7.3	5.9	8.8	2.9	1.5	137.5	174.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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