

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: P324233

Luminaire Tested: **GAN-SA9A-760-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324233
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-760-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 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: 30886 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

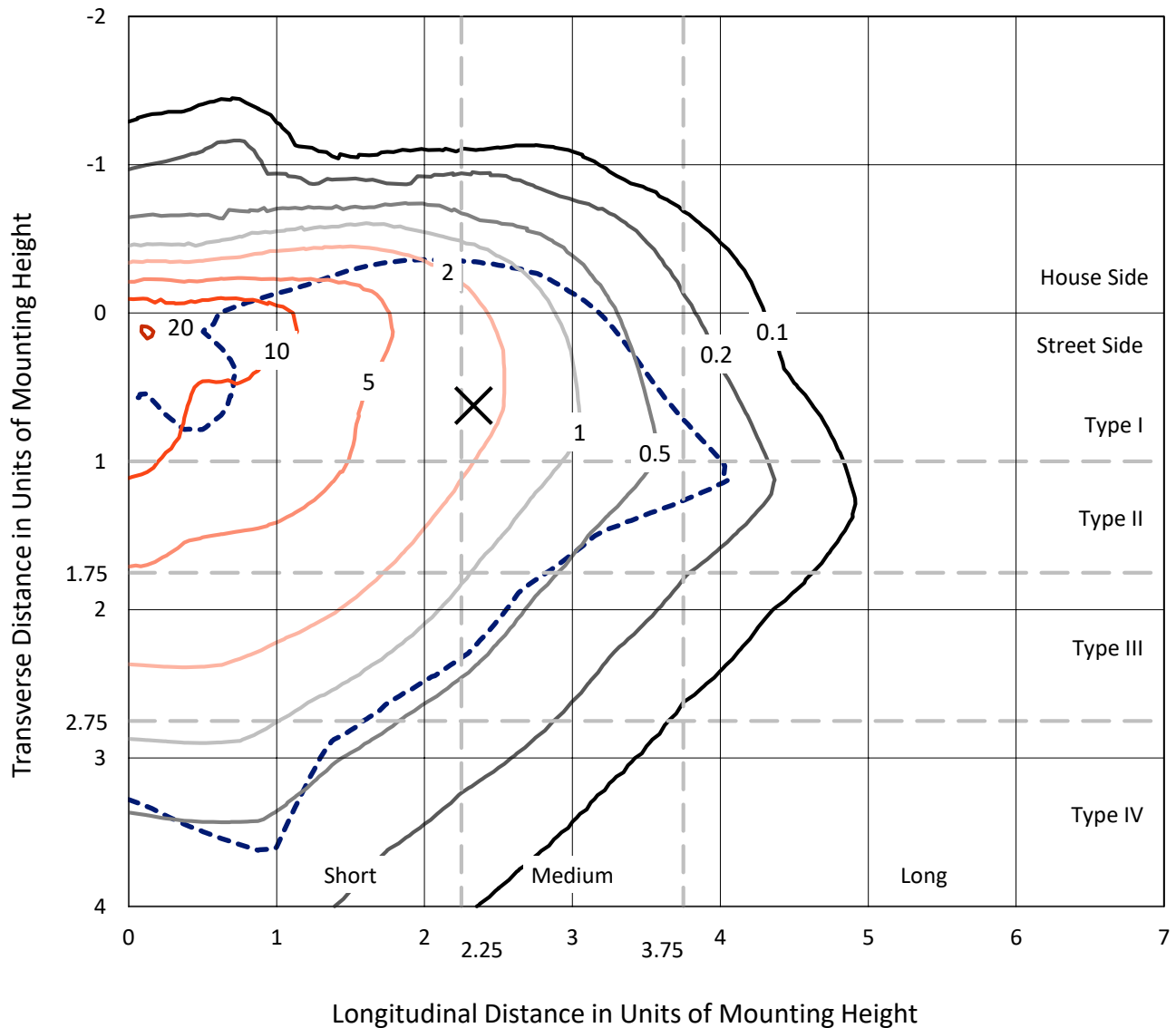
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

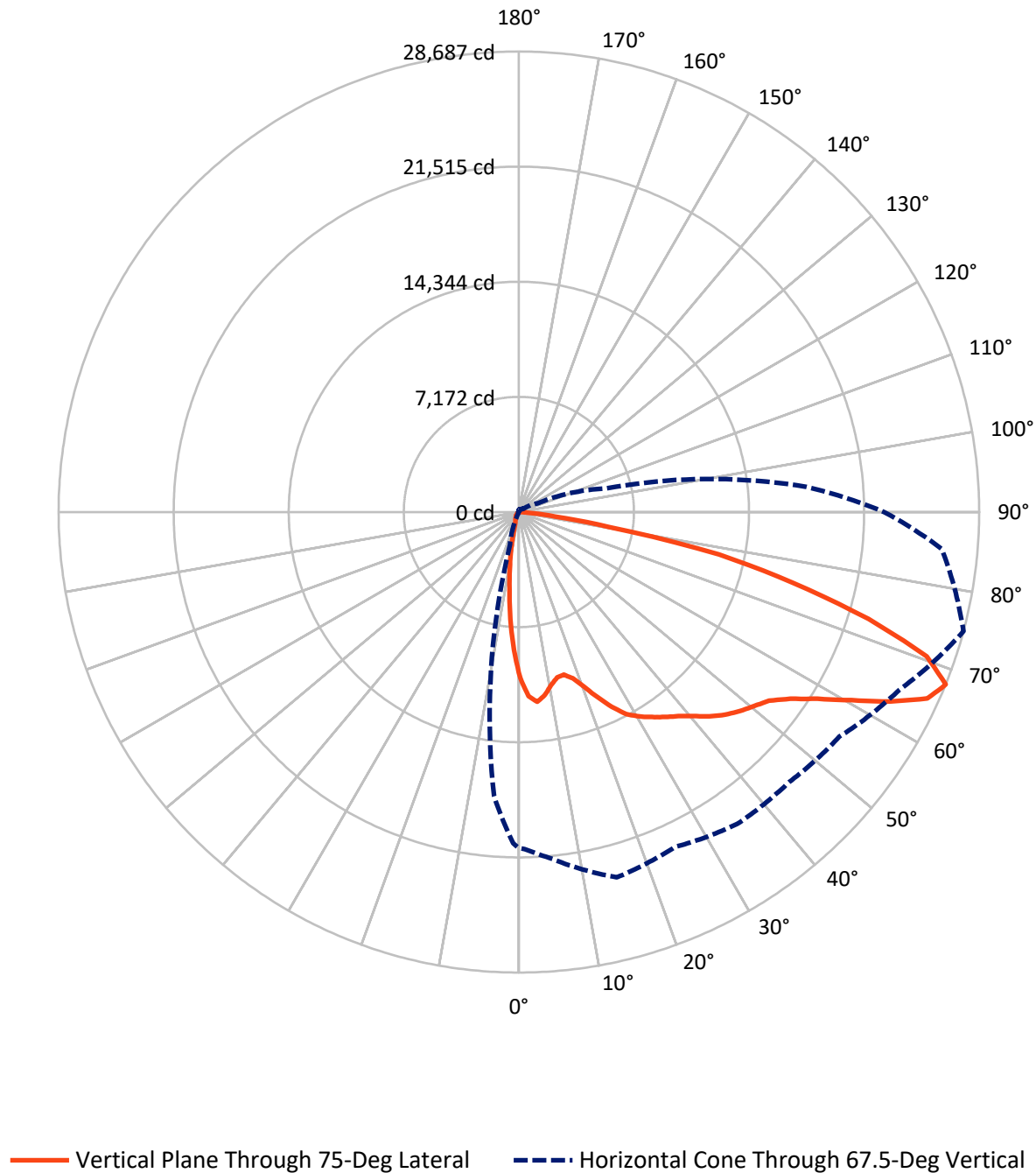
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.5 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	4634.8	0.0	4634.8
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	26251.2	0.0	26251.2
	% Fixture	85.0	0.0	85.0
Total	Lumens	30886.0	0.0	30886.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	786.0	2.5
10°-20°	1547.6	5.0
20°-30°	2189.4	7.1
30°-40°	3219.1	10.4
40°-50°	4626.9	15.0
50°-60°	6513.4	21.1
60°-70°	7607.1	24.6
70°-80°	3880.9	12.6
80°-90°	515.5	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°	30886.0	100.0
0°-180°	30886.0	100.0

Coefficient of Utilization



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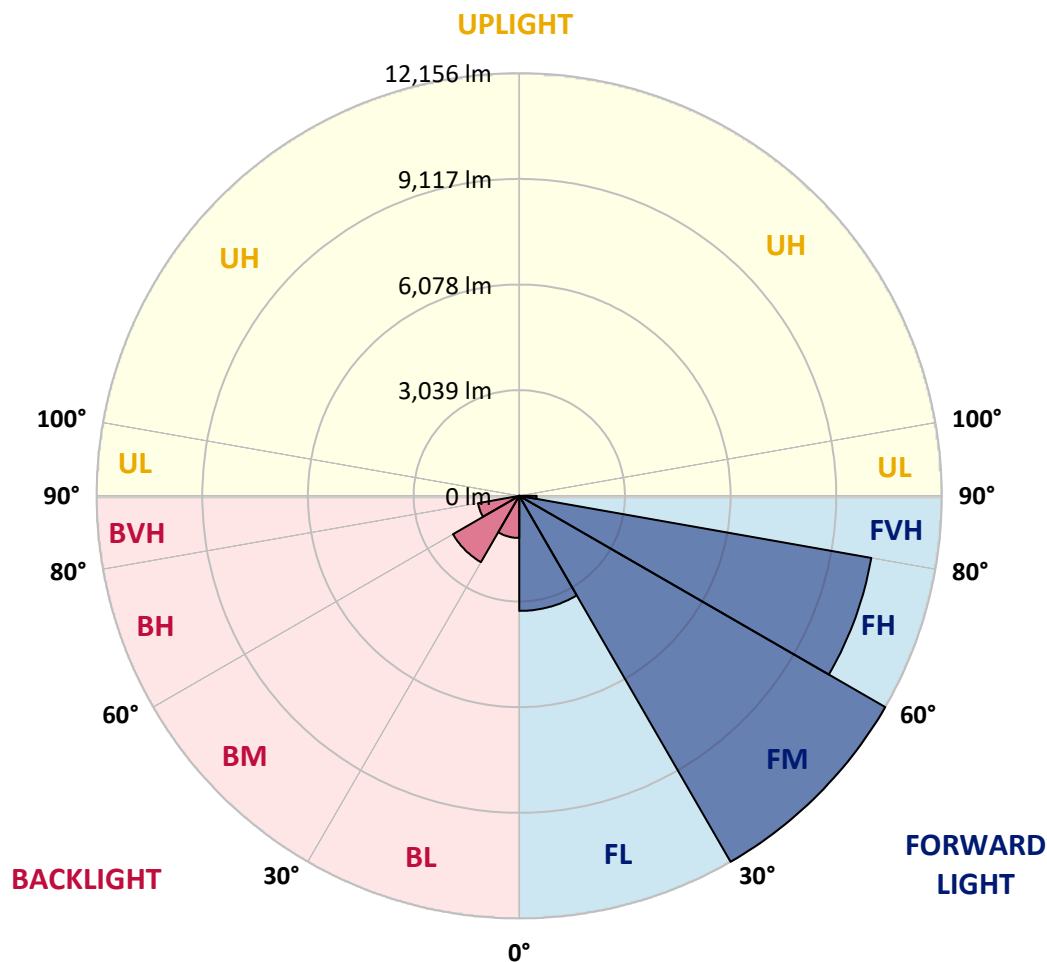
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3311.0	10.7			
FM	(30°-60°)	12156.2	39.4			
FH	(60°-80°)	10284.2	33.3			G4/12000
FVH	(80°-90°)	499.9	1.6			G3/500
BL	(0°-30°)	1212.0	3.9	B3/2500		
BM	(30°-60°)	2203.2	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°	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7
2.5°	11232.3	11249.8	11340.5	11551.2	11780.9	11798.5	11953.6	11794.1	11740.0	11482.5	11216.2
5°	11317.1	11384.4	11696.1	12315.0	12851.9	13024.6	13147.5	12834.4	12505.2	11876.0	11204.5
7.5°	10633.9	10746.5	11236.7	12398.4	13358.2	13782.5	13862.9	13372.8	12566.6	11530.7	10521.2
10°	9758.9	9887.7	10478.8	11906.8	13225.0	13952.2	14063.4	13421.1	12262.3	10971.8	9782.3
12.5°	9050.8	9201.5	9805.7	11353.7	12767.1	13571.8	13791.2	13258.7	11998.9	10575.3	9277.6
15°	8724.5	8897.2	9532.1	10996.7	12259.4	12892.9	13074.3	12844.6	11852.6	10512.4	9160.5
17.5°	8911.8	9099.1	9754.5	11027.4	11782.4	12053.1	12199.4	12293.0	11852.6	10891.4	9502.9
20°	9679.9	9881.8	10575.3	11339.1	11387.4	11286.4	11443.0	11772.2	11990.2	11611.2	10325.1
22.5°	10742.1	10979.2	11761.9	11873.1	11194.2	10812.4	10832.8	11349.3	12240.4	12524.2	11466.4
25°	12037.0	12326.7	13122.6	12669.0	11274.7	10530.0	10522.7	11001.1	12484.7	13438.6	12737.8
27.5°	13323.1	13642.0	14341.4	13640.5	11606.8	10478.8	10464.1	10895.8	12723.2	14252.1	14126.3
30°	14401.4	14711.5	15314.3	14344.3	11965.3	10598.7	10528.5	11008.4	12865.1	14780.3	15138.8
32.5°	15279.2	15528.0	16015.2	14828.6	12348.6	10831.4	10679.2	11309.8	13106.5	15226.6	16069.3
35°	16244.9	16506.8	16701.4	15289.5	12778.8	11166.4	10948.4	11788.3	13478.1	15680.1	17089.1
37.5°	17346.6	17607.0	17583.6	15710.8	13324.5	11721.0	11582.0	12546.1	14056.1	16129.3	18227.4
40°	18424.9	18691.2	18501.0	16171.7	13965.4	12635.4	12533.0	13684.4	14830.1	16704.3	19561.7
42.5°	19434.5	19722.7	19315.9	16607.7	14729.1	13788.3	13963.9	15150.5	15798.6	17412.4	20711.7
45°	20247.9	20542.0	19999.2	17032.0	15533.8	15187.1	15715.2	16774.5	16963.3	18010.8	21488.7
47.5°	20839.0	21117.0	20473.3	17456.3	16563.8	16897.4	17817.7	18477.6	18015.2	18530.3	22040.2
50°	21216.5	21433.1	20612.3	17987.4	17915.7	18893.1	20008.0	20329.9	19005.8	18998.4	22710.3
52.5°	21456.5	21554.5	20714.7	18542.0	19326.2	21065.8	22152.9	22253.9	20025.5	19513.5	23613.1
55°	22283.1	22362.1	21440.4	19213.5	20492.3	22969.3	24093.0	23999.3	21179.9	20521.5	24678.2
57.5°	23693.6	23777.0	22940.1	20179.2	21436.0	24145.7	25499.0	25667.3	22533.3	21937.8	25819.5
60°	24401.7	24556.8	24258.3	21402.3	22350.4	24897.7	26457.4	26994.3	24224.7	23804.8	26925.6
62.5°	23759.4	23984.7	24417.8	22758.6	23259.0	25311.8	26755.8	27469.8	25957.0	25980.4	27607.4
65°	22477.7	22657.7	23392.2	23501.9	23785.7	25260.5	26018.4	26805.6	27017.7	27979.0	27570.8
67.5°	20929.7	20997.1	21620.3	23560.4	23022.0	23721.4	23803.3	24385.6	26179.4	28687.1	26463.2
70°	18701.4	18738.0	19282.3	21601.3	19784.1	19937.8	19816.3	19934.8	22507.0	26962.1	23667.2
72.5°	15051.0	15143.2	15917.1	17939.2	14413.1	13969.7	14923.7	14871.0	17333.4	22779.1	17577.8
75°	11081.6	11241.1	12410.1	14449.6	10115.9	9150.3	9846.7	10032.5	12322.3	17620.2	10992.3
77.5°	7758.9	7877.4	9009.8	10622.2	7321.4	6543.0	6291.4	6512.3	8133.4	12746.6	5537.9
80°	4469.8	4513.7	5236.5	6133.3	4933.6	5644.7	5113.6	5265.7	4873.6	5671.0	2381.9
82.5°	2924.8	2932.1	3214.4	3650.5	3072.5	3570.0	2642.4	3378.3	2997.9	2278.1	775.4
85°	1580.2	1588.9	1864.0	2591.2	1739.6	983.2	577.9	1186.6	1853.8	522.3	212.2
87.5°	174.1	159.5	561.8	942.2	482.8	89.2	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°	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7
2.5°	11080.1	10958.7	10655.8	10335.4	10077.9	9836.5	9593.6	9296.6	9066.9	9020.1	8944.0
5°	10843.1	10458.3	9823.3	9185.4	8671.8	8023.7	7612.5	7292.1	6979.0	6960.0	6897.1
7.5°	10015.0	9508.7	8614.8	7732.5	7009.7	6392.3	5769.0	5352.0	5024.3	4908.7	4840.0
10°	9219.0	8649.9	7533.5	6526.9	5881.7	5336.0	4897.0	4461.0	4066.0	3793.8	3670.9
12.5°	8663.1	8033.9	6803.4	5935.8	5473.5	4955.5	4420.0	3875.8	3420.7	3093.0	2892.6
15°	8448.0	7776.4	6559.1	5701.7	5131.1	4475.6	3790.9	3169.1	2664.3	2367.3	2187.3
17.5°	8704.0	7922.7	6540.1	5416.4	4619.0	3804.1	3047.7	2313.2	1837.7	1612.3	1496.8
20°	9353.6	8388.0	6532.8	5066.7	4010.4	3008.1	2064.4	1521.6	1233.4	1107.6	1053.4
22.5°	10272.5	8982.0	6591.3	4721.4	3376.9	2149.3	1425.1	1117.8	970.0	902.7	872.0
25°	11454.7	9816.0	6756.6	4408.3	2781.4	1603.6	1110.5	936.4	832.5	779.8	757.9
27.5°	12714.4	10775.8	7014.1	4136.2	2297.1	1278.8	951.0	801.8	727.2	690.6	670.1
30°	13753.2	11887.7	7274.6	3833.3	1945.9	1114.9	870.5	731.6	645.2	621.8	602.8
32.5°	14661.8	12729.0	7458.9	3559.7	1716.2	990.5	787.2	654.0	595.5	550.1	529.6
35°	15602.6	13429.9	7453.1	3368.1	1558.2	896.9	716.9	585.2	515.0	462.3	446.2
37.5°	16620.9	14221.4	7325.8	3204.2	1489.4	822.3	677.4	548.7	478.4	425.8	405.3
40°	17813.3	15052.4	7195.6	3050.6	1470.4	762.3	649.6	519.4	444.8	393.6	373.1
42.5°	18975.0	15801.6	7081.4	2936.5	1388.5	760.8	624.7	497.5	418.4	368.7	345.3
45°	19904.1	16499.5	7059.5	2867.7	1302.2	787.2	611.6	482.8	398.0	348.2	326.3
47.5°	20676.6	17257.3	7200.0	2819.4	1220.2	718.4	643.8	472.6	378.9	330.7	305.8
50°	21595.5	18187.9	7530.6	2740.4	1133.9	646.7	737.4	475.5	362.9	313.1	286.8
52.5°	22877.1	19475.4	8016.4	2607.3	1015.4	580.9	725.7	478.4	345.3	294.1	267.7
55°	24313.9	21083.4	8538.7	2386.3	850.1	494.5	621.8	458.0	311.6	273.6	248.7
57.5°	25823.8	22542.1	8848.9	2123.0	676.0	427.2	497.5	417.0	275.1	245.8	229.7
60°	26060.9	23096.6	8707.0	1799.6	537.0	371.6	368.7	424.3	245.8	216.5	204.8
62.5°	25471.2	22400.2	8020.8	1511.4	449.2	326.3	302.9	370.2	222.4	193.1	181.4
65°	24337.3	20517.2	6908.8	1362.2	417.0	279.5	251.7	260.4	194.6	168.3	158.0
67.5°	22760.1	18003.5	5672.5	1277.3	412.6	239.9	215.1	197.5	168.3	146.3	137.5
70°	19535.4	14998.3	4525.4	1230.5	400.9	201.9	181.4	160.9	140.5	124.4	117.0
72.5°	14378.0	10628.0	3520.2	1179.3	403.8	160.9	158.0	133.1	112.7	96.6	93.6
75°	8307.5	6071.9	2308.8	955.4	384.8	124.4	131.7	93.6	79.0	67.3	67.3
77.5°	4427.4	3703.1	879.3	398.0	140.5	79.0	74.6	55.6	49.7	41.0	39.5
80°	1929.8	1629.9	264.8	111.2	77.5	42.4	27.8	24.9	21.9	17.6	16.1
82.5°	683.3	589.6	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°	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7
2.5°	8788.9	8756.7	8566.5	8573.8	8607.5	8655.7	8541.6	8594.3	8736.2	8872.3	8923.5
5°	6796.1	6803.4	6687.9	6759.6	6823.9	6867.8	6683.5	6686.4	6799.1	6952.7	7033.2
7.5°	4788.7	4777.0	4782.9	4954.1	5075.5	4987.7	5056.5	4818.0	4832.6	4942.4	4860.4
10°	3559.7	3398.8	3308.1	3436.8	3570.0	3521.7	3403.2	3325.6	3379.8	3501.2	3492.4
12.5°	2797.5	2566.3	2430.2	2338.0	2447.8	2357.1	2354.1	2286.8	2213.7	2226.8	2421.4
15°	2103.9	1935.7	1774.7	1627.0	1624.0	1593.3	1436.8	1261.2	1246.6	1255.3	1356.3
17.5°	1447.0	1390.0	1324.1	1196.8	1163.2	1034.4	882.3	812.0	776.9	793.0	826.7
20°	1016.9	994.9	1002.2	933.5	885.2	762.3	673.0	645.2	639.4	655.5	671.6
22.5°	842.7	803.2	798.9	768.1	719.8	630.6	582.3	566.2	558.9	573.5	585.2
25°	737.4	697.9	681.8	662.8	611.6	550.1	520.9	506.2	498.9	507.7	515.0
27.5°	649.6	613.0	598.4	585.2	535.5	491.6	468.2	455.0	449.2	452.1	459.4
30°	583.8	551.6	532.6	516.5	474.0	443.3	422.8	409.7	403.8	403.8	411.1
32.5°	515.0	497.5	479.9	459.4	419.9	399.4	378.9	364.3	358.5	359.9	365.8
35°	428.7	422.8	427.2	408.2	374.6	357.0	336.5	320.4	316.0	317.5	323.3
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°	323.3	285.3	259.0	257.5	275.1	239.9	215.1	201.9	194.6	194.6	197.5
45°	298.5	257.5	225.3	200.4	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	144.8	117.0	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

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CATALOG NUMBER: GAN-SA9A-760-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7	10361.7
2.5°	9129.8	9302.4	9545.3	9802.8	10199.3	10513.9	10822.6	11087.4	11189.8	11232.3
5°	7226.3	7479.4	7834.9	8291.4	9006.9	9650.7	10303.2	10960.1	11245.4	11317.1
7.5°	5185.3	5508.6	5960.7	6532.8	7371.1	8205.1	9116.6	10080.8	10522.7	10633.9
10°	3837.7	4232.8	4750.7	5353.5	6153.8	7011.2	8004.7	9106.4	9611.2	9758.9
12.5°	2722.8	3256.9	3950.4	4683.4	5376.9	6142.1	7147.3	8361.7	8891.3	9050.8
15°	1599.2	2115.7	2936.5	3918.2	4806.3	5581.8	6603.0	7979.8	8563.6	8724.5
17.5°	917.4	1174.9	1795.2	2889.6	4095.2	5169.2	6431.8	8074.9	8762.5	8911.8
20°	700.8	782.8	1034.4	1861.1	3264.2	4763.9	6431.8	8613.3	9460.5	9679.9
22.5°	613.0	673.0	775.4	1110.5	2402.4	4329.3	6506.4	9391.7	10499.3	10742.1
25°	544.3	598.4	686.2	835.4	1638.7	3812.9	6683.5	10347.1	11722.4	12037.0
27.5°	487.2	538.4	617.4	731.6	1120.7	3189.6	6922.0	11467.8	13071.4	13323.1
30°	436.0	484.3	556.0	636.5	864.7	2482.9	7125.3	12524.2	14130.7	14401.4
32.5°	387.7	431.6	496.0	556.0	708.1	1836.2	7147.3	13361.1	15010.0	15279.2
35°	342.4	381.9	440.4	487.2	586.7	1449.9	6806.4	14086.8	15889.3	16244.9
37.5°	298.5	336.5	387.7	422.8	516.5	1182.2	6285.5	14895.9	17017.4	17346.6
40°	257.5	291.2	343.8	367.2	488.7	908.6	5719.3	15744.5	18123.5	18424.9
42.5°	219.5	251.7	302.9	348.2	428.7	678.9	5107.7	16540.4	19118.4	19434.5
45°	182.9	216.5	267.7	368.7	355.5	507.7	4453.7	17068.6	19904.1	20247.9
47.5°	147.8	185.8	256.0	351.1	283.8	373.1	3935.8	17569.0	20499.6	20839.0
50°	118.5	156.6	288.2	313.1	232.6	285.3	3719.2	18016.7	20890.2	21216.5
52.5°	96.6	131.7	272.1	239.9	194.6	235.6	3836.3	18742.4	21251.6	21456.5
55°	80.5	103.9	163.9	166.8	165.3	200.4	3981.1	19784.1	22186.6	22283.1
57.5°	70.2	83.4	114.1	128.8	139.0	178.5	3984.0	21279.4	23633.6	23693.6
60°	60.0	73.2	95.1	103.9	120.0	159.5	3839.2	21801.8	24202.7	24401.7
62.5°	52.7	64.4	79.0	86.3	101.0	143.4	3499.8	21045.3	23421.4	23759.4
65°	46.8	58.5	65.8	73.2	89.2	128.8	2940.8	19532.5	22125.1	22477.7
67.5°	41.0	51.2	58.5	65.8	80.5	114.1	2165.4	17775.3	20637.1	20929.7
70°	36.6	45.4	52.7	58.5	70.2	96.6	1313.9	15083.2	18580.0	18701.4
72.5°	35.1	41.0	48.3	52.7	61.5	84.9	665.7	11084.5	14853.5	15051.0
75°	30.7	36.6	43.9	46.8	54.1	73.2	270.7	7280.4	10764.1	11081.6
77.5°	24.9	33.7	39.5	42.4	46.8	60.0	137.5	4652.7	7554.0	7758.9
80°	8.8	24.9	33.7	35.1	39.5	43.9	90.7	2547.3	4382.0	4469.8
82.5°	0.0	16.1	26.3	24.9	27.8	33.7	58.5	1211.5	2892.6	2924.8
85°	0.0	7.3	20.5	16.1	11.7	23.4	20.5	264.8	1517.2	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

(END OF REPORT)