

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: P324292

Luminaire Tested: **GAN-SA8C-827-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324292
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-SA8C-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1050mA 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: 30894 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 445
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

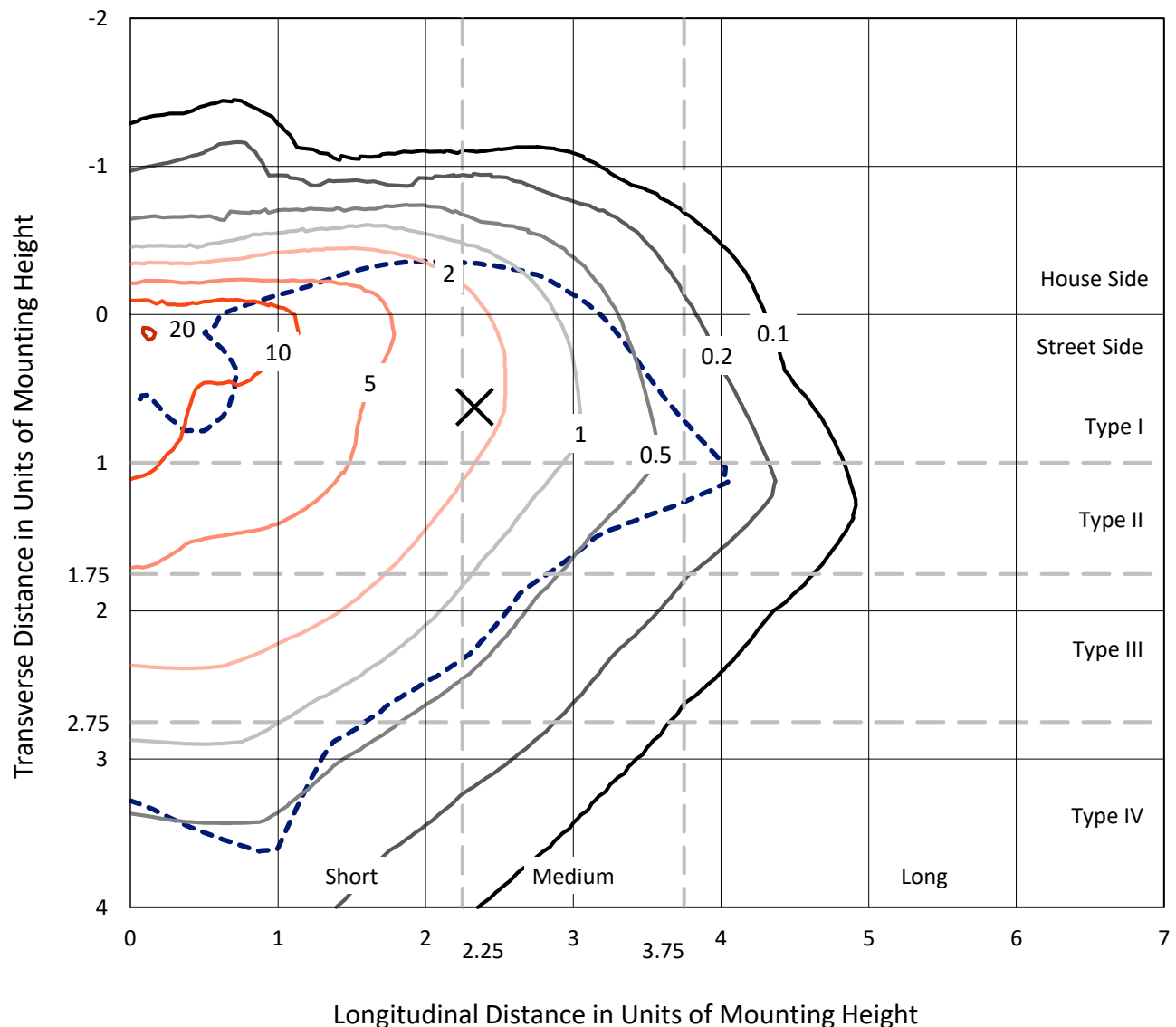


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Iso-Footcandle Lines of Horizontal Illumination

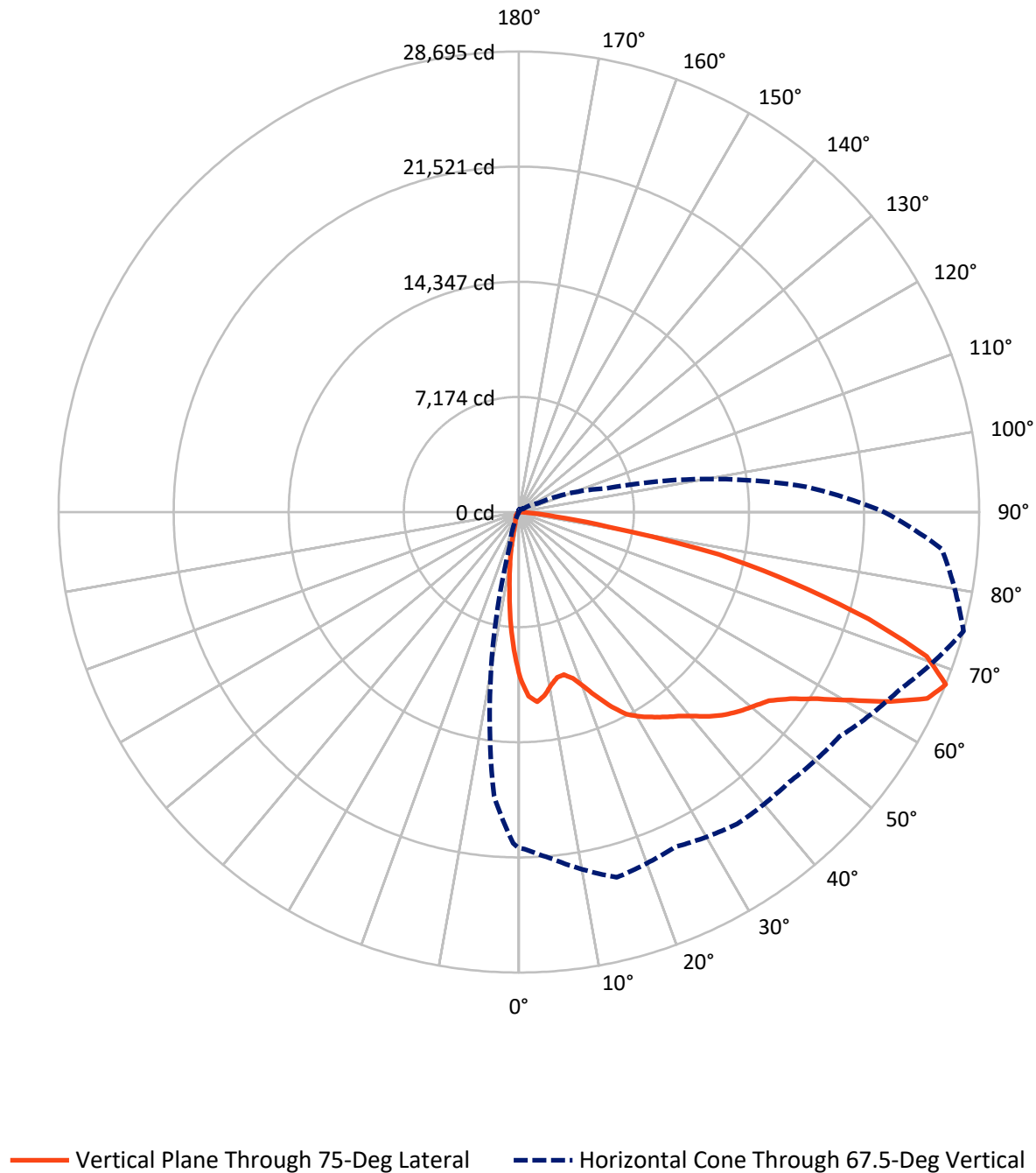
× Max cd
 - - - 1/2 Max cd



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	4636.0	0.0	4636.0
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	26258.0	0.0	26258.0
	% Fixture	85.0	0.0	85.0
Total	Lumens	30894.0	0.0	30894.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	786.2	2.5
10°-20°	1548.0	5.0
20°-30°	2190.0	7.1
30°-40°	3219.9	10.4
40°-50°	4628.1	15.0
50°-60°	6515.1	21.1
60°-70°	7609.1	24.6
70°-80°	3881.9	12.6
80°-90°	515.7	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°	30894.0	100.0
0°-180°	30894.0	100.0

Coefficient of Utilization



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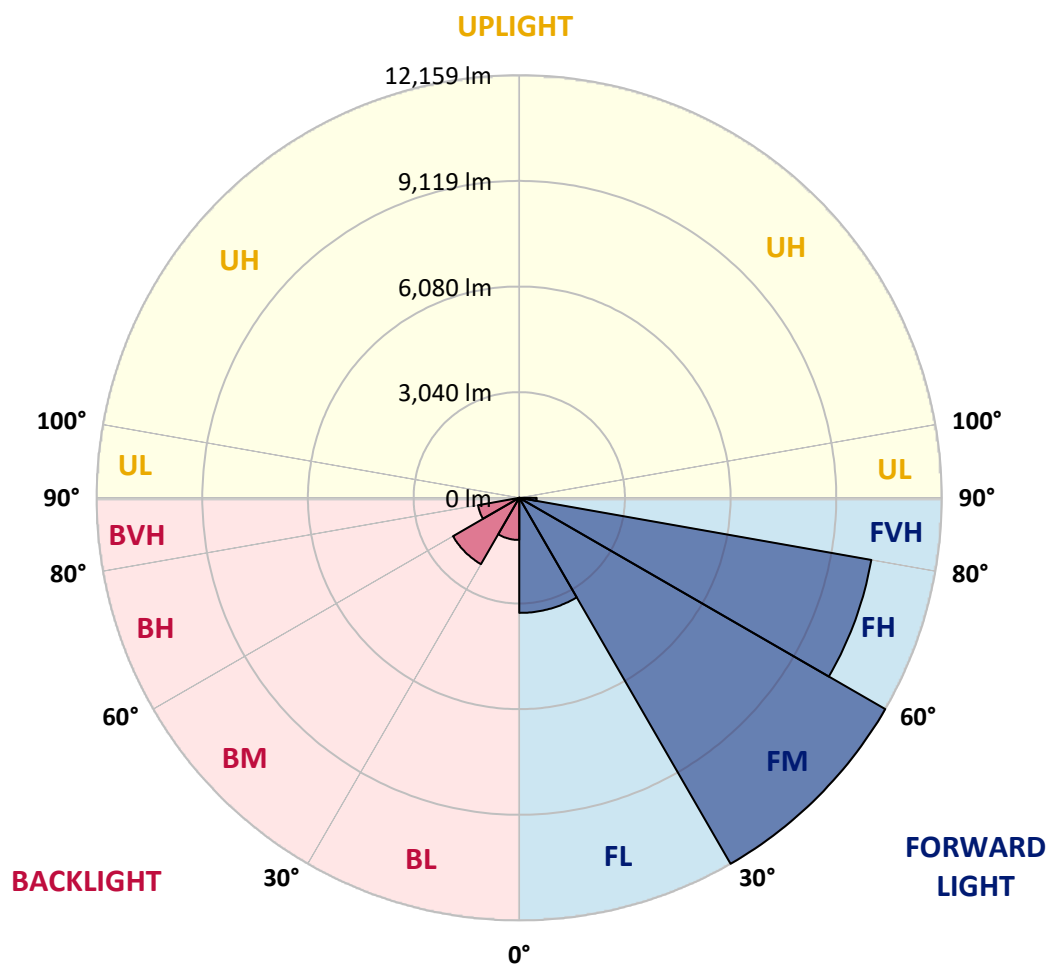
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3311.8	10.7			
FM	(30°-60°)	12159.3	39.4			
FH	(60°-80°)	10286.8	33.3			G4/12000
FVH	(80°-90°)	500.0	1.6			G4/750
BL	(0°-30°)	1212.4	3.9	B3/2500		
BM	(30°-60°)	2203.8	7.1	B2/2500		
BH	(60°-80°)	1204.2	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°	10364.4	10364.4	10364.4	10364.4	10364.4	10364.4	10364.4	10364.4	10364.4	10364.4	10364.4
2.5°	11235.2	11252.7	11343.5	11554.2	11784.0	11801.6	11956.7	11797.2	11743.0	11485.4	11219.1
5°	11320.1	11387.4	11699.1	12318.2	12855.3	13028.0	13150.9	12837.7	12508.4	11879.1	11207.4
7.5°	10636.6	10749.3	11239.6	12401.6	13361.6	13786.0	13866.5	13376.3	12569.9	11533.7	10523.9
10°	9761.5	9890.2	10481.5	11909.8	13228.5	13955.8	14067.0	13424.6	12265.5	10974.7	9784.9
12.5°	9053.1	9203.9	9808.3	11356.7	12770.4	13575.3	13794.8	13262.1	12002.0	10578.1	9280.0
15°	8726.8	8899.5	9534.6	10999.6	12262.6	12896.2	13077.7	12847.9	11855.7	10515.1	9162.9
17.5°	8914.1	9101.4	9757.1	11030.3	11785.5	12056.2	12202.5	12296.2	11855.7	10894.2	9505.3
20°	9682.4	9884.4	10578.1	11342.0	11390.3	11289.3	11445.9	11775.2	11993.3	11614.2	10327.8
22.5°	10744.9	10982.0	11765.0	11876.2	11197.1	10815.2	10835.7	11352.3	12243.5	12527.4	11469.3
25°	12040.1	12329.9	13126.0	12672.3	11277.6	10532.7	10525.4	11004.0	12487.9	13442.1	12741.1
27.5°	13326.5	13645.5	14345.1	13644.1	11609.8	10481.5	10466.9	10898.6	12726.5	14255.8	14130.0
30°	14405.1	14715.4	15318.3	14348.0	11968.4	10601.5	10531.2	11011.3	12868.4	14784.1	15142.7
32.5°	15283.2	15532.0	16019.3	14832.4	12351.8	10834.2	10682.0	11312.7	13109.9	15230.5	16073.5
35°	16249.1	16511.1	16705.7	15293.4	12782.1	11169.3	10951.3	11791.3	13481.6	15684.2	17093.5
37.5°	17351.1	17611.6	17588.2	15714.9	13328.0	11724.0	11585.0	12549.4	14059.7	16133.5	18232.1
40°	18429.7	18696.0	18505.8	16175.9	13969.0	12638.7	12536.2	13688.0	14833.9	16708.6	19566.8
42.5°	19439.5	19727.8	19320.9	16612.0	14732.9	13791.9	13967.5	15154.4	15802.7	17416.9	20717.1
45°	20253.2	20547.3	20004.4	17036.4	15537.8	15191.0	15719.3	16778.9	16967.7	18015.5	21494.2
47.5°	20844.4	21122.5	20478.6	17460.9	16568.1	16901.8	17822.3	18482.4	18019.9	18535.1	22046.0
50°	21222.0	21438.6	20617.6	17992.1	17920.4	18898.0	20013.2	20335.1	19010.7	19003.4	22716.2
52.5°	21462.0	21560.1	20720.0	18546.8	19331.2	21071.3	22158.6	22259.6	20030.7	19518.5	23619.2
55°	22288.9	22367.9	21445.9	19218.5	20497.6	22975.3	24099.2	24005.6	21185.4	20526.9	24684.6
57.5°	23699.7	23783.1	22946.0	20184.4	21441.5	24151.9	25505.6	25673.9	22539.1	21943.5	25826.1
60°	24408.0	24563.2	24264.6	21407.9	22356.2	24904.1	26464.2	27001.3	24230.9	23810.9	26932.5
62.5°	23765.6	23990.9	24424.1	22764.5	23265.0	25318.3	26762.8	27477.0	25963.7	25987.1	27614.5
65°	22483.5	22663.5	23398.2	23508.0	23791.9	25267.1	26025.2	26812.5	27024.7	27986.2	27577.9
67.5°	20935.2	21002.5	21625.9	23566.5	23028.0	23727.5	23809.5	24391.9	26186.2	28694.6	26470.1
70°	18706.3	18742.9	19287.3	21606.9	19789.3	19942.9	19821.5	19940.0	22512.8	26969.1	23673.4
72.5°	15054.9	15147.1	15921.3	17943.8	14416.8	13973.4	14927.6	14874.9	17337.9	22785.0	17582.3
75°	11084.4	11244.0	12413.3	14453.4	10118.5	9152.6	9849.3	10035.1	12325.5	17624.8	10995.2
77.5°	7760.9	7879.4	9012.1	10624.9	7323.3	6544.7	6293.0	6514.0	8135.5	12749.9	5539.3
80°	4471.0	4514.9	5237.8	6134.9	4934.9	5646.1	5114.9	5267.1	4874.9	5672.5	2382.6
82.5°	2925.5	2932.8	3215.3	3651.4	3073.3	3570.9	2643.1	3379.2	2998.7	2278.6	775.6
85°	1580.6	1589.3	1864.5	2591.8	1740.1	983.5	578.1	1186.9	1854.2	522.5	212.2
87.5°	174.2	159.5	562.0	942.5	483.0	89.3	30.7	133.2	297.1	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°	10364.4	10364.4	10364.4	10364.4	10364.4	10364.4	10364.4	10364.4	10364.4	10364.4	10364.4
2.5°	11083.0	10961.5	10658.6	10338.1	10080.5	9839.0	9596.1	9299.0	9069.2	9022.4	8946.3
5°	10845.9	10461.0	9825.8	9187.8	8674.1	8025.8	7614.5	7294.0	6980.8	6961.8	6898.9
7.5°	10017.6	9511.2	8617.0	7734.5	7011.6	6394.0	5770.5	5353.4	5025.6	4910.0	4841.2
10°	9221.4	8652.1	7535.5	6528.6	5883.2	5337.3	4898.3	4462.2	4067.0	3794.8	3671.9
12.5°	8665.3	8036.0	6805.2	5937.4	5474.9	4956.8	4421.2	3876.8	3421.6	3093.8	2893.3
15°	8450.2	7778.4	6560.8	5703.2	5132.4	4476.8	3791.9	3169.9	2665.0	2367.9	2187.9
17.5°	8706.3	7924.8	6541.8	5417.8	4620.2	3805.1	3048.4	2313.8	1838.1	1612.8	1497.1
20°	9356.1	8390.2	6534.5	5068.1	4011.4	3008.9	2065.0	1522.0	1233.7	1107.9	1053.7
22.5°	10275.1	8984.3	6593.0	4722.7	3377.7	2149.9	1425.4	1118.1	970.3	903.0	872.2
25°	11457.6	9818.5	6758.4	4409.5	2782.1	1604.0	1110.8	936.6	832.7	780.0	758.1
27.5°	12717.7	10778.6	7016.0	4137.3	2297.7	1279.1	951.3	802.0	727.4	690.8	670.3
30°	13756.8	11890.8	7276.5	3834.3	1946.4	1115.2	870.8	731.7	645.4	622.0	603.0
32.5°	14665.6	12732.3	7460.9	3560.7	1716.7	990.8	787.4	654.2	595.6	550.3	529.8
35°	15606.6	13433.3	7455.0	3368.9	1558.6	897.1	717.1	585.4	515.1	462.5	446.4
37.5°	16625.2	14225.1	7327.7	3205.0	1489.8	822.5	677.6	548.8	478.6	425.9	405.4
40°	17817.9	15056.3	7197.4	3051.4	1470.8	762.5	649.8	519.5	444.9	393.7	373.2
42.5°	18980.0	15805.6	7083.3	2937.2	1388.8	761.0	624.9	497.6	418.6	368.8	345.4
45°	19909.3	16503.7	7061.3	2868.4	1302.5	787.4	611.7	483.0	398.1	348.3	326.4
47.5°	20682.0	17261.8	7201.8	2820.1	1220.5	718.6	643.9	472.7	379.0	330.7	305.9
50°	21601.1	18192.6	7532.6	2741.1	1134.2	646.9	737.6	475.6	362.9	313.2	286.8
52.5°	22883.1	19480.5	8018.4	2607.9	1015.7	581.0	725.9	478.6	345.4	294.2	267.8
55°	24320.2	21088.8	8540.9	2386.9	850.3	494.7	622.0	458.1	311.7	273.7	248.8
57.5°	25830.5	22547.9	8851.2	2123.5	676.1	427.3	497.6	417.1	275.1	245.9	229.8
60°	26067.6	23102.6	8709.2	1800.1	537.1	371.7	368.8	424.4	245.9	216.6	204.9
62.5°	25477.8	22406.0	8022.8	1511.8	449.3	326.4	302.9	370.3	222.4	193.2	181.5
65°	24343.6	20522.5	6910.6	1362.5	417.1	279.5	251.7	260.5	194.6	168.3	158.1
67.5°	22766.0	18008.2	5673.9	1277.6	412.7	240.0	215.1	197.6	168.3	146.3	137.6
70°	19540.5	15002.2	4526.6	1230.8	401.0	202.0	181.5	161.0	140.5	124.4	117.1
72.5°	14381.7	10630.8	3521.1	1179.6	403.9	161.0	158.1	133.2	112.7	96.6	93.7
75°	8309.7	6073.5	2309.4	955.7	384.9	124.4	131.7	93.7	79.0	67.3	67.3
77.5°	4428.5	3704.1	879.6	398.1	140.5	79.0	74.6	55.6	49.8	41.0	39.5
80°	1930.3	1630.3	264.9	111.2	77.6	42.4	27.8	24.9	22.0	17.6	16.1
82.5°	683.4	589.8	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°	10364.4	10364.4	10364.4	10364.4	10364.4	10364.4	10364.4	10364.4	10364.4	10364.4	10364.4
2.5°	8791.2	8759.0	8568.7	8576.0	8609.7	8658.0	8543.8	8596.5	8738.5	8874.6	8925.8
5°	6797.9	6805.2	6689.6	6761.3	6825.7	6869.6	6685.2	6688.1	6800.8	6954.5	7035.0
7.5°	4790.0	4778.3	4784.1	4955.4	5076.8	4989.0	5057.8	4819.3	4833.9	4943.7	4861.7
10°	3560.7	3399.7	3308.9	3437.7	3570.9	3522.6	3404.1	3326.5	3380.7	3502.1	3493.3
12.5°	2798.2	2567.0	2430.9	2338.7	2448.4	2357.7	2354.7	2287.4	2214.3	2227.4	2422.1
15°	2104.5	1936.2	1775.2	1627.4	1624.5	1593.7	1437.1	1261.5	1246.9	1255.7	1356.7
17.5°	1447.4	1390.3	1324.5	1197.1	1163.5	1034.7	882.5	812.2	777.1	793.2	826.9
20°	1017.1	995.2	1002.5	933.7	885.4	762.5	673.2	645.4	639.5	655.6	671.7
22.5°	843.0	803.5	799.1	768.3	720.0	630.8	582.5	566.4	559.1	573.7	585.4
25°	737.6	698.1	682.0	663.0	611.7	550.3	521.0	506.4	499.0	507.8	515.1
27.5°	649.8	613.2	598.6	585.4	535.6	491.7	468.3	455.1	449.3	452.2	459.5
30°	583.9	551.7	532.7	516.6	474.2	443.4	422.9	409.8	403.9	403.9	411.2
32.5°	515.1	497.6	480.0	459.5	420.0	399.5	379.0	364.4	358.6	360.0	365.9
35°	428.8	422.9	427.3	408.3	374.7	357.1	336.6	320.5	316.1	317.6	323.4
37.5°	380.5	354.2	370.3	360.0	341.0	317.6	291.2	276.6	269.3	273.7	276.6
40°	349.8	317.6	305.9	316.1	313.2	275.1	251.7	237.1	231.2	232.7	235.6
42.5°	323.4	285.4	259.0	257.6	275.1	240.0	215.1	202.0	194.6	194.6	197.6
45°	298.6	257.6	225.4	200.5	231.2	203.4	180.0	168.3	159.5	159.5	161.0
47.5°	279.5	234.2	196.1	163.9	174.2	166.8	147.8	136.1	127.3	127.3	128.8
50°	262.0	210.7	169.8	137.6	130.3	137.6	120.0	106.8	101.0	99.5	102.4
52.5°	242.9	187.3	144.9	117.1	102.4	103.9	93.7	84.9	77.6	77.6	80.5
55°	223.9	168.3	125.9	99.5	84.9	77.6	74.6	68.8	62.9	62.9	65.9
57.5°	204.9	147.8	106.8	82.0	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°	142.0	92.2	57.1	42.4	32.2	32.2	38.1	35.1	32.2	32.2	35.1
67.5°	120.0	77.6	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	22.0	22.0	26.3
75°	48.3	23.4	5.9	0.0	0.0	7.3	16.1	19.0	19.0	17.6	22.0
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-SA8C-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10364.4	10364.4	10364.4	10364.4	10364.4	10364.4	10364.4	10364.4	10364.4	10364.4
2.5°	9132.2	9304.8	9547.8	9805.4	10202.0	10516.6	10825.4	11090.3	11192.7	11235.2
5°	7228.2	7481.3	7837.0	8293.6	9009.2	9653.2	10305.9	10963.0	11248.4	11320.1
7.5°	5186.6	5510.0	5962.2	6534.5	7373.0	8207.2	9119.0	10083.4	10525.4	10636.6
10°	3838.7	4233.9	4751.9	5354.9	6155.4	7013.0	8006.7	9108.7	9613.6	9761.5
12.5°	2723.5	3257.7	3951.4	4684.6	5378.3	6143.7	7149.1	8363.8	8893.6	9053.1
15°	1599.6	2116.2	2937.2	3919.2	4807.6	5583.2	6604.7	7981.9	8565.8	8726.8
17.5°	917.6	1175.2	1795.7	2890.4	4096.3	5170.5	6433.5	8077.0	8764.8	8914.1
20°	701.0	783.0	1034.7	1861.6	3265.0	4765.1	6433.5	8615.5	9462.9	9682.4
22.5°	613.2	673.2	775.6	1110.8	2403.0	4330.5	6508.1	9394.1	10502.0	10744.9
25°	544.4	598.6	686.4	835.7	1639.1	3813.8	6685.2	10349.8	11725.5	12040.1
27.5°	487.3	538.6	617.6	731.7	1121.0	3190.4	6923.8	11470.8	13074.8	13326.5
30°	436.1	484.4	556.1	636.6	864.9	2483.5	7127.2	12527.4	14134.3	14405.1
32.5°	387.8	431.7	496.1	556.1	708.3	1836.7	7149.1	13364.6	15013.9	15283.2
35°	342.5	382.0	440.5	487.3	586.9	1450.3	6808.1	14090.4	15893.5	16249.1
37.5°	298.6	336.6	387.8	422.9	516.6	1182.5	6287.1	14899.8	17021.8	17351.1
40°	257.6	291.2	343.9	367.3	488.8	908.8	5720.8	15748.6	18128.2	18429.7
42.5°	219.5	251.7	302.9	348.3	428.8	679.1	5109.0	16544.7	19123.4	19439.5
45°	182.9	216.6	267.8	368.8	355.6	507.8	4454.9	17073.0	19909.3	20253.2
47.5°	147.8	185.9	256.1	351.2	283.9	373.2	3936.8	17573.5	20504.9	20844.4
50°	118.5	156.6	288.3	313.2	232.7	285.4	3720.2	18021.4	20895.7	21222.0
52.5°	96.6	131.7	272.2	240.0	194.6	235.6	3837.3	18747.3	21257.1	21462.0
55°	80.5	103.9	163.9	166.8	165.4	200.5	3982.1	19789.3	22192.3	22288.9
57.5°	70.2	83.4	114.2	128.8	139.0	178.5	3985.1	21284.9	23639.7	23699.7
60°	60.0	73.2	95.1	103.9	120.0	159.5	3840.2	21807.4	24209.0	24408.0
62.5°	52.7	64.4	79.0	86.3	101.0	143.4	3500.7	21050.8	23427.5	23765.6
65°	46.8	58.5	65.9	73.2	89.3	128.8	2941.6	19537.5	22130.8	22483.5
67.5°	41.0	51.2	58.5	65.9	80.5	114.2	2166.0	17779.9	20642.5	20935.2
70°	36.6	45.4	52.7	58.5	70.2	96.6	1314.2	15087.1	18584.8	18706.3
72.5°	35.1	41.0	48.3	52.7	61.5	84.9	665.9	11087.4	14857.3	15054.9
75°	30.7	36.6	43.9	46.8	54.1	73.2	270.7	7282.3	10766.9	11084.4
77.5°	24.9	33.7	39.5	42.4	46.8	60.0	137.6	4653.9	7556.0	7760.9
80°	8.8	24.9	33.7	35.1	39.5	43.9	90.7	2547.9	4383.1	4471.0
82.5°	0.0	16.1	26.3	24.9	27.8	33.7	58.5	1211.8	2893.3	2925.5
85°	0.0	7.3	20.5	16.1	11.7	23.4	20.5	264.9	1517.6	1580.6
87.5°	0.0	0.0	1.5	7.3	5.9	8.8	2.9	1.5	137.6	174.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)