

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: P324149

Luminaire Tested: **GAN-SA5A-740-U-SLL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324149  
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-SA5A-740-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 17269 lumens  
Efficiency: N/A  
Efficacy: 106.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

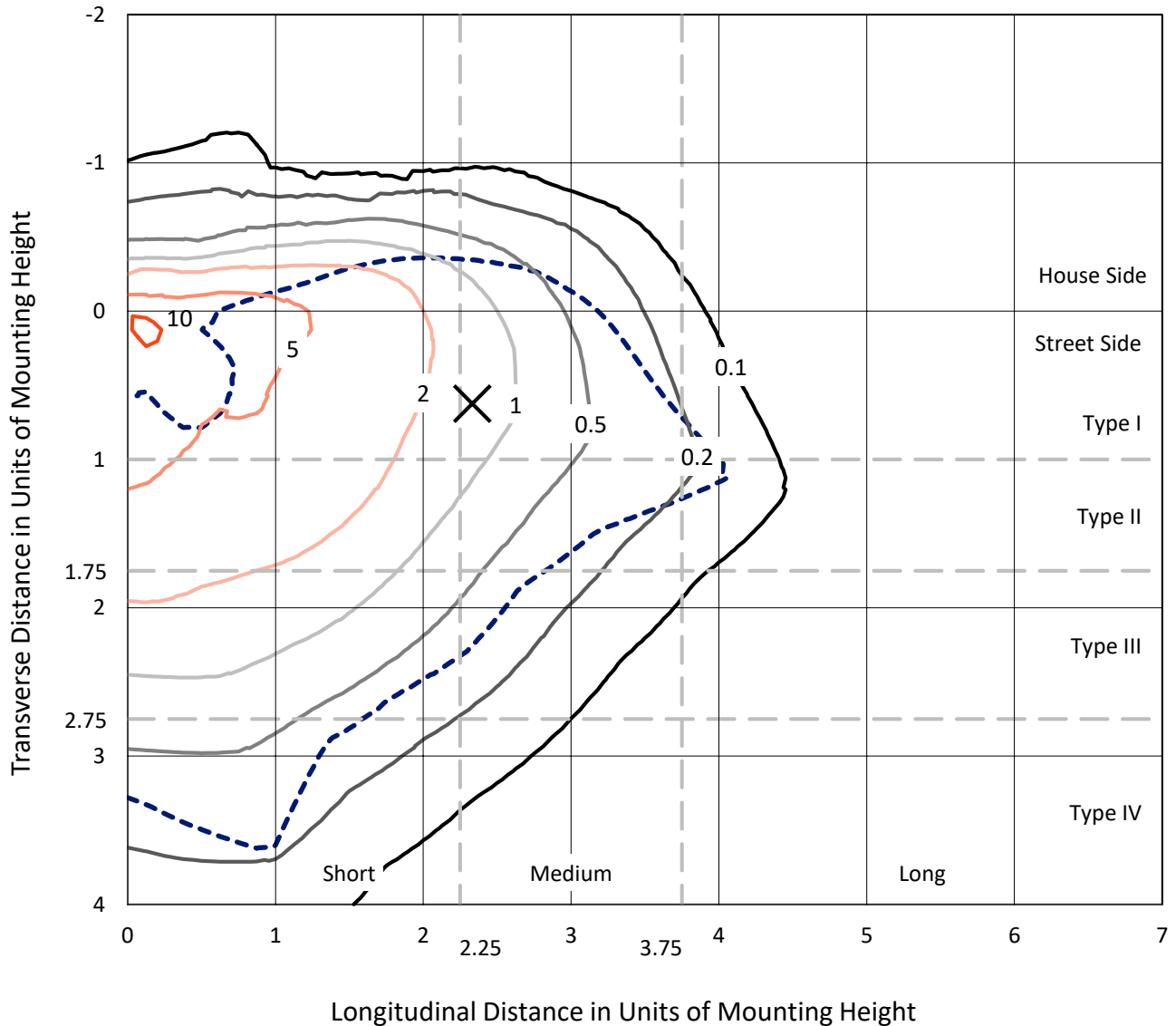
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

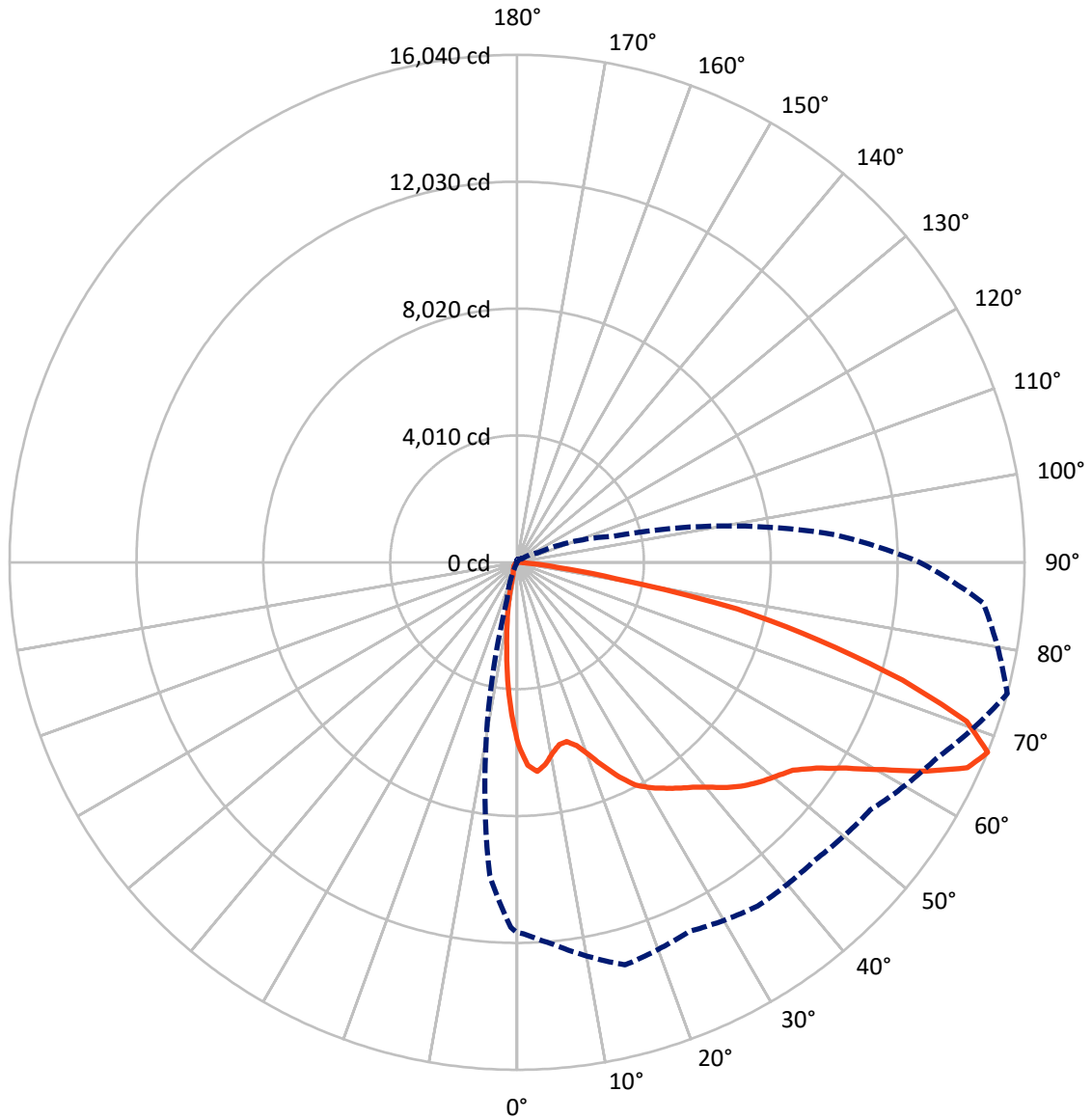
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2591.4	0.0	2591.4
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	14677.6	0.0	14677.6
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	17269.0	0.0	17269.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	439.5	2.5
10°-20°	865.3	5.0
20°-30°	1224.2	7.1
30°-40°	1799.9	10.4
40°-50°	2587.0	15.0
50°-60°	3641.8	21.1
60°-70°	4253.3	24.6
70°-80°	2169.9	12.6
80°-90°	288.3	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°	17269.0	100.0
0°-180°	17269.0	100.0

**Coefficient of Utilization**

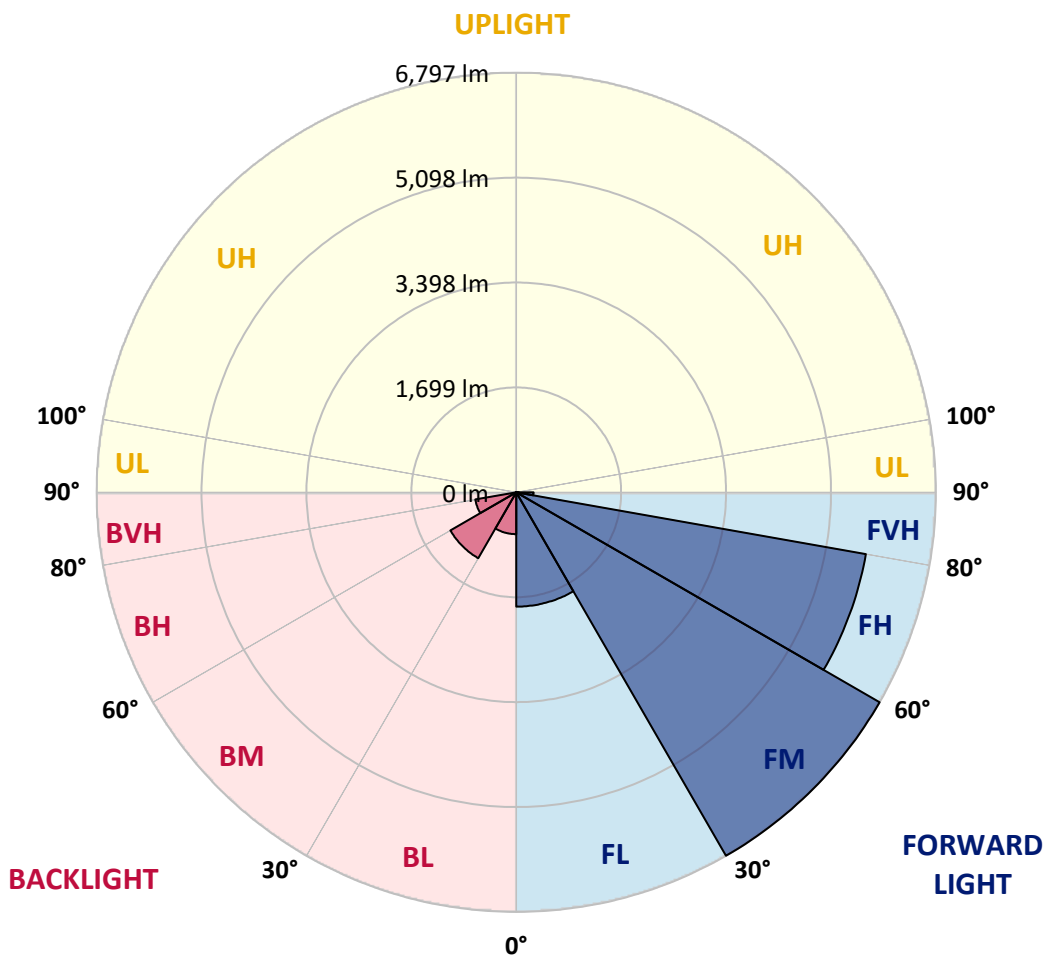


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1851.2	10.7			
FM (30°-60°)	6796.8	39.4			
FH (60°-80°)	5750.1	33.3			G3/7500
FVH (80°-90°)	279.5	1.6			G3/500
BL (0°-30°)	677.7	3.9	B2/1000		
BM (30°-60°)	1231.9	7.1	B2/2500		
BH (60°-80°)	673.1	3.9	B2/1000		G2/1000
BVH (80°-90°)	8.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5793.5	5793.5	5793.5	5793.5	5793.5	5793.5	5793.5	5793.5	5793.5	5793.5	5793.5
2.5°	6280.2	6290.0	6340.7	6458.5	6587.0	6596.8	6683.5	6594.3	6564.1	6420.1	6271.2
5°	6327.6	6365.3	6539.5	6885.6	7185.8	7282.3	7351.0	7176.0	6991.9	6640.1	6264.7
7.5°	5945.6	6008.6	6282.7	6932.2	7468.8	7706.1	7751.1	7477.0	7026.3	6447.1	5882.6
10°	5456.4	5528.4	5858.9	6657.3	7394.4	7801.0	7863.1	7504.0	6856.1	6134.6	5469.5
12.5°	5060.5	5144.7	5482.6	6348.1	7138.3	7588.3	7711.0	7413.2	6708.9	5912.9	5187.3
15°	4878.1	4974.6	5329.6	6148.5	6854.5	7208.7	7310.1	7181.7	6627.1	5877.7	5121.8
17.5°	4982.8	5087.5	5454.0	6165.7	6587.8	6739.1	6820.9	6873.3	6627.1	6089.6	5313.3
20°	5412.2	5525.1	5912.9	6339.9	6366.9	6310.5	6398.0	6582.1	6703.9	6492.1	5773.0
22.5°	6006.1	6138.7	6576.3	6638.5	6258.9	6045.4	6056.9	6345.6	6843.8	7002.5	6411.1
25°	6730.1	6892.1	7337.1	7083.5	6303.9	5887.5	5883.4	6150.9	6980.4	7513.8	7122.0
27.5°	7449.2	7627.5	8018.6	7626.7	6489.6	5858.9	5850.7	6092.0	7113.8	7968.7	7898.3
30°	8052.1	8225.5	8562.6	8020.2	6690.0	5926.0	5886.7	6155.0	7193.1	8264.0	8464.4
32.5°	8542.9	8682.0	8954.4	8291.0	6904.4	6056.0	5971.0	6323.6	7328.1	8513.5	8984.7
35°	9082.8	9229.3	9338.1	8548.7	7144.9	6243.4	6121.5	6591.1	7535.9	8767.1	9554.9
37.5°	9698.8	9844.5	9831.4	8784.3	7450.0	6553.4	6475.7	7014.8	7859.0	9018.2	10191.3
40°	10301.7	10450.6	10344.3	9041.9	7808.3	7064.7	7007.4	7651.3	8291.8	9339.7	10937.4
42.5°	10866.2	11027.4	10799.9	9285.7	8235.3	7709.3	7807.5	8470.9	8833.3	9735.7	11580.4
45°	11321.0	11485.5	11182.0	9523.0	8685.3	8491.4	8786.7	9379.0	9484.5	10070.2	12014.8
47.5°	11651.5	11807.0	11447.0	9760.2	9261.2	9447.7	9962.3	10331.2	10072.7	10360.6	12323.2
50°	11862.6	11983.7	11524.7	10057.1	10017.1	10563.5	11186.9	11366.9	10626.5	10622.4	12697.8
52.5°	11996.8	12051.6	11582.0	10367.2	10805.7	11778.3	12386.1	12442.6	11196.7	10910.4	13202.6
55°	12459.0	12503.1	11987.8	10742.7	11457.7	12842.6	13470.9	13418.5	11842.1	11474.0	13798.1
57.5°	13247.6	13294.2	12826.3	11282.6	11985.3	13500.3	14257.0	14351.1	12598.8	12265.9	14436.2
60°	13643.5	13730.2	13563.3	11966.5	12496.6	13920.8	14792.9	15093.1	13544.5	13309.7	15054.6
62.5°	13284.4	13410.3	13652.5	12724.8	13004.6	14152.3	14959.7	15359.0	14513.1	14526.2	15435.8
65°	12567.8	12668.4	13079.0	13140.4	13299.1	14123.7	14547.4	14987.6	15106.2	15643.6	15415.4
67.5°	11702.3	11739.9	12088.4	13173.1	12872.1	13263.1	13308.9	13634.5	14637.4	16039.6	14796.1
70°	10456.4	10476.8	10781.1	12077.7	11061.7	11147.6	11079.7	11146.0	12584.1	15075.1	13232.8
72.5°	8415.3	8466.9	8899.6	10030.2	8058.6	7810.8	8344.1	8314.7	9691.5	12736.3	9828.1
75°	6195.9	6285.1	6938.7	8079.1	5656.0	5116.1	5505.5	5609.4	6889.6	9851.8	6146.0
77.5°	4338.1	4404.4	5037.6	5939.1	4093.5	3658.3	3517.6	3641.2	4547.6	7126.9	3096.3
80°	2499.2	2523.7	2927.8	3429.3	2758.5	3156.1	2859.1	2944.2	2724.9	3170.8	1331.8
82.5°	1635.3	1639.4	1797.3	2041.0	1717.9	1996.1	1477.4	1888.9	1676.2	1273.7	433.6
85°	883.5	888.4	1042.2	1448.8	972.7	549.7	323.1	663.4	1036.5	292.0	118.6
87.5°	97.3	89.2	314.1	526.8	270.0	49.9	17.2	74.4	166.1	18.8	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°	5793.5	5793.5	5793.5	5793.5	5793.5	5793.5	5793.5	5793.5	5793.5	5793.5	5793.5
2.5°	6195.1	6127.2	5957.9	5778.7	5634.8	5499.8	5364.0	5197.9	5069.5	5043.3	5000.8
5°	6062.6	5847.4	5492.4	5135.7	4848.6	4486.2	4256.3	4077.2	3902.1	3891.5	3856.3
7.5°	5599.6	5316.5	4816.7	4323.4	3919.3	3574.1	3225.6	2992.4	2809.2	2744.6	2706.1
10°	5154.6	4836.3	4212.2	3649.3	3288.6	2983.4	2738.0	2494.2	2273.4	2121.2	2052.5
12.5°	4843.7	4491.9	3803.9	3318.8	3060.3	2770.7	2471.3	2167.0	1912.6	1729.4	1617.3
15°	4723.4	4348.0	3667.3	3188.0	2868.9	2502.4	2119.6	1771.9	1489.7	1323.6	1223.0
17.5°	4866.6	4429.8	3656.7	3028.4	2582.6	2126.9	1704.0	1293.3	1027.5	901.5	836.9
20°	5229.8	4689.9	3652.6	2832.9	2242.3	1681.9	1154.3	850.8	689.6	619.3	589.0
22.5°	5743.6	5022.0	3685.3	2639.9	1888.1	1201.7	796.8	625.0	542.4	504.7	487.6
25°	6404.5	5488.3	3777.8	2464.8	1555.1	896.6	620.9	523.6	465.5	436.0	423.8
27.5°	7108.9	6025.0	3921.7	2312.6	1284.3	715.0	531.7	448.3	406.6	386.1	374.7
30°	7689.7	6646.7	4067.4	2143.3	1088.0	623.4	486.7	409.0	360.8	347.7	337.0
32.5°	8197.7	7117.1	4170.4	1990.3	959.6	553.8	440.1	365.7	332.9	307.6	296.1
35°	8723.7	7508.9	4167.2	1883.2	871.2	501.5	400.8	327.2	288.0	258.5	249.5
37.5°	9293.1	7951.5	4096.0	1791.5	832.8	459.7	378.8	306.8	267.5	238.1	226.6
40°	9959.8	8416.1	4023.2	1705.6	822.1	426.2	363.2	290.4	248.7	220.1	208.6
42.5°	10609.3	8835.0	3959.4	1641.8	776.3	425.4	349.3	278.1	234.0	206.1	193.1
45°	11128.8	9225.2	3947.1	1603.4	728.1	440.1	341.9	270.0	222.5	194.7	182.4
47.5°	11560.7	9648.9	4025.6	1576.4	682.3	401.7	359.9	264.2	211.9	184.9	171.0
50°	12074.5	10169.2	4210.5	1532.2	634.0	361.6	412.3	265.9	202.9	175.1	160.3
52.5°	12791.1	10889.1	4482.1	1457.8	567.7	324.8	405.8	267.5	193.1	164.4	149.7
55°	13594.4	11788.1	4774.2	1334.2	475.3	276.5	347.7	256.1	174.2	153.0	139.1
57.5°	14438.6	12603.7	4947.6	1187.0	377.9	238.9	278.1	233.1	153.8	137.4	128.4
60°	14571.2	12913.8	4868.2	1006.2	300.2	207.8	206.1	237.2	137.4	121.1	114.5
62.5°	14241.5	12524.4	4484.6	845.0	251.1	182.4	169.3	207.0	124.3	108.0	101.4
65°	13607.5	11471.6	3862.8	761.6	233.1	156.2	140.7	145.6	108.8	94.1	88.3
67.5°	12725.6	10066.1	3171.6	714.2	230.7	134.2	120.3	110.4	94.1	81.8	76.9
70°	10922.6	8385.9	2530.2	688.0	224.1	112.9	101.4	90.0	78.5	69.5	65.4
72.5°	8039.0	5942.3	1968.2	659.4	225.8	90.0	88.3	74.4	63.0	54.0	52.4
75°	4644.9	3394.9	1290.9	534.2	215.1	69.5	73.6	52.4	44.2	37.6	37.6
77.5°	2475.4	2070.5	491.7	222.5	78.5	44.2	41.7	31.1	27.8	22.9	22.1
80°	1079.0	911.3	148.1	62.2	43.4	23.7	15.5	13.9	12.3	9.8	9.0
82.5°	382.0	329.7	48.3	30.3	18.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	86.7	62.2	0.0	7.4	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°	5793.5	5793.5	5793.5	5793.5	5793.5	5793.5	5793.5	5793.5	5793.5	5793.5	5793.5
2.5°	4914.0	4896.0	4789.7	4793.8	4812.6	4839.6	4775.8	4805.2	4884.6	4960.7	4989.3
5°	3799.9	3803.9	3739.3	3779.4	3815.4	3839.9	3736.9	3738.5	3801.5	3887.4	3932.4
7.5°	2677.5	2670.9	2674.2	2769.9	2837.8	2788.7	2827.2	2693.8	2702.0	2763.4	2717.6
10°	1990.3	1900.3	1849.6	1921.6	1996.1	1969.1	1902.8	1859.4	1889.7	1957.6	1952.7
12.5°	1564.1	1434.9	1358.8	1307.2	1368.6	1317.9	1316.2	1278.6	1237.7	1245.1	1353.9
15°	1176.4	1082.3	992.3	909.7	908.0	890.9	803.3	705.2	697.0	701.9	758.3
17.5°	809.1	777.2	740.3	669.2	650.4	578.4	493.3	454.0	434.4	443.4	462.2
20°	568.5	556.3	560.4	521.9	494.9	426.2	376.3	360.8	357.5	366.5	375.5
22.5°	471.2	449.1	446.7	429.5	402.5	352.6	325.6	316.6	312.5	320.7	327.2
25°	412.3	390.2	381.2	370.6	341.9	307.6	291.2	283.0	279.0	283.9	288.0
27.5°	363.2	342.8	334.6	327.2	299.4	274.9	261.8	254.4	251.1	252.8	256.9
30°	326.4	308.4	297.8	288.8	265.0	247.9	236.4	229.1	225.8	225.8	229.9
32.5°	288.0	278.1	268.3	256.9	234.8	223.3	211.9	203.7	200.4	201.2	204.5
35°	239.7	236.4	238.9	228.2	209.4	199.6	188.2	179.2	176.7	177.5	180.8
37.5°	212.7	198.0	207.0	201.2	190.6	177.5	162.8	154.6	150.5	153.0	154.6
40°	195.5	177.5	171.0	176.7	175.1	153.8	140.7	132.5	129.3	130.1	131.7
42.5°	180.8	159.5	144.8	144.0	153.8	134.2	120.3	112.9	108.8	108.8	110.4
45°	166.9	144.0	126.0	112.1	129.3	113.7	100.6	94.1	89.2	89.2	90.0
47.5°	156.2	130.9	109.6	91.6	97.3	93.3	82.6	76.1	71.2	71.2	72.0
50°	146.4	117.8	94.9	76.9	72.8	76.9	67.1	59.7	56.4	55.6	57.3
52.5°	135.8	104.7	81.0	65.4	57.3	58.1	52.4	47.4	43.4	43.4	45.0
55°	125.2	94.1	70.4	55.6	47.4	43.4	41.7	38.4	35.2	35.2	36.8
57.5°	114.5	82.6	59.7	45.8	37.6	34.4	34.4	31.9	29.4	29.4	31.1
60°	104.7	71.2	49.1	37.6	29.4	28.6	29.4	27.0	25.4	25.4	27.0
62.5°	93.3	60.5	40.1	31.1	23.7	22.9	25.4	23.7	22.1	22.1	23.7
65°	79.4	51.5	31.9	23.7	18.0	18.0	21.3	19.6	18.0	18.0	19.6
67.5°	67.1	43.4	24.5	17.2	13.1	13.9	18.0	16.4	15.5	15.5	17.2
70°	55.6	33.5	17.2	10.6	7.4	10.6	13.9	13.9	13.9	13.9	15.5
72.5°	41.7	22.9	9.8	4.1	3.3	7.4	11.5	13.1	12.3	12.3	14.7
75°	27.0	13.1	3.3	0.0	0.0	4.1	9.0	10.6	10.6	9.8	12.3
77.5°	15.5	4.1	0.0	0.0	0.0	0.0	5.7	4.9	4.1	3.3	5.7
80°	4.1	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-SA5A-740-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5793.5	5793.5	5793.5	5793.5	5793.5	5793.5	5793.5	5793.5	5793.5	5793.5
2.5°	5104.7	5201.2	5337.0	5481.0	5702.7	5878.5	6051.1	6199.2	6256.5	6280.2
5°	4040.4	4181.9	4380.7	4635.9	5035.9	5395.9	5760.7	6128.0	6287.6	6327.6
7.5°	2899.2	3080.0	3332.7	3652.6	4121.4	4587.6	5097.3	5636.4	5883.4	5945.6
10°	2145.8	2366.6	2656.2	2993.3	3440.7	3920.1	4475.6	5091.6	5373.8	5456.4
12.5°	1522.4	1821.0	2208.7	2618.6	3006.3	3434.2	3996.2	4675.2	4971.3	5060.5
15°	894.1	1182.9	1641.8	2190.7	2687.3	3120.9	3691.9	4461.7	4788.1	4878.1
17.5°	512.9	656.9	1003.8	1615.7	2289.7	2890.2	3596.2	4514.8	4899.3	4982.8
20°	391.8	437.7	578.4	1040.6	1825.1	2663.6	3596.2	4815.9	5289.5	5412.2
22.5°	342.8	376.3	433.6	620.9	1343.2	2420.6	3637.9	5251.1	5870.4	6006.1
25°	304.3	334.6	383.7	467.1	916.2	2131.8	3736.9	5785.3	6554.2	6730.1
27.5°	272.4	301.0	345.2	409.0	626.6	1783.4	3870.2	6411.9	7308.5	7449.2
30°	243.8	270.8	310.9	355.9	483.5	1388.2	3983.9	7002.5	7900.8	8052.1
32.5°	216.8	241.3	277.3	310.9	395.9	1026.7	3996.2	7470.5	8392.4	8542.9
35°	191.4	213.5	246.2	272.4	328.0	810.7	3805.6	7876.2	8884.1	9082.8
37.5°	166.9	188.2	216.8	236.4	288.8	661.0	3514.4	8328.6	9514.8	9698.8
40°	144.0	162.8	192.2	205.3	273.2	508.0	3197.8	8803.1	10133.2	10301.7
42.5°	122.7	140.7	169.3	194.7	239.7	379.6	2855.8	9248.1	10689.5	10866.2
45°	102.3	121.1	149.7	206.1	198.8	283.9	2490.2	9543.4	11128.8	11321.0
47.5°	82.6	103.9	143.2	196.3	158.7	208.6	2200.6	9823.2	11461.7	11651.5
50°	66.3	87.5	161.2	175.1	130.1	159.5	2079.5	10073.5	11680.2	11862.6
52.5°	54.0	73.6	152.2	134.2	108.8	131.7	2144.9	10479.3	11882.2	11996.8
55°	45.0	58.1	91.6	93.3	92.4	112.1	2225.9	11061.7	12405.0	12459.0
57.5°	39.3	46.6	63.8	72.0	77.7	99.8	2227.6	11897.8	13214.0	13247.6
60°	33.5	40.9	53.2	58.1	67.1	89.2	2146.6	12189.8	13532.2	13643.5
62.5°	29.4	36.0	44.2	48.3	56.4	80.2	1956.8	11766.9	13095.4	13284.4
65°	26.2	32.7	36.8	40.9	49.9	72.0	1644.3	10921.0	12370.6	12567.8
67.5°	22.9	28.6	32.7	36.8	45.0	63.8	1210.7	9938.5	11538.6	11702.3
70°	20.5	25.4	29.4	32.7	39.3	54.0	734.6	8433.3	10388.5	10456.4
72.5°	19.6	22.9	27.0	29.4	34.4	47.4	372.2	6197.6	8304.9	8415.3
75°	17.2	20.5	24.5	26.2	30.3	40.9	151.3	4070.6	6018.4	6195.9
77.5°	13.9	18.8	22.1	23.7	26.2	33.5	76.9	2601.4	4223.6	4338.1
80°	4.9	13.9	18.8	19.6	22.1	24.5	50.7	1424.2	2450.1	2499.2
82.5°	0.0	9.0	14.7	13.9	15.5	18.8	32.7	677.3	1617.3	1635.3
85°	0.0	4.1	11.5	9.0	6.5	13.1	11.5	148.1	848.3	883.5
87.5°	0.0	0.0	0.8	4.1	3.3	4.9	1.6	0.8	76.9	97.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)