

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: P324077

Luminaire Tested: **GAN-SA3B-727-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324077
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-SA3B-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA 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: 10816 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 124
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

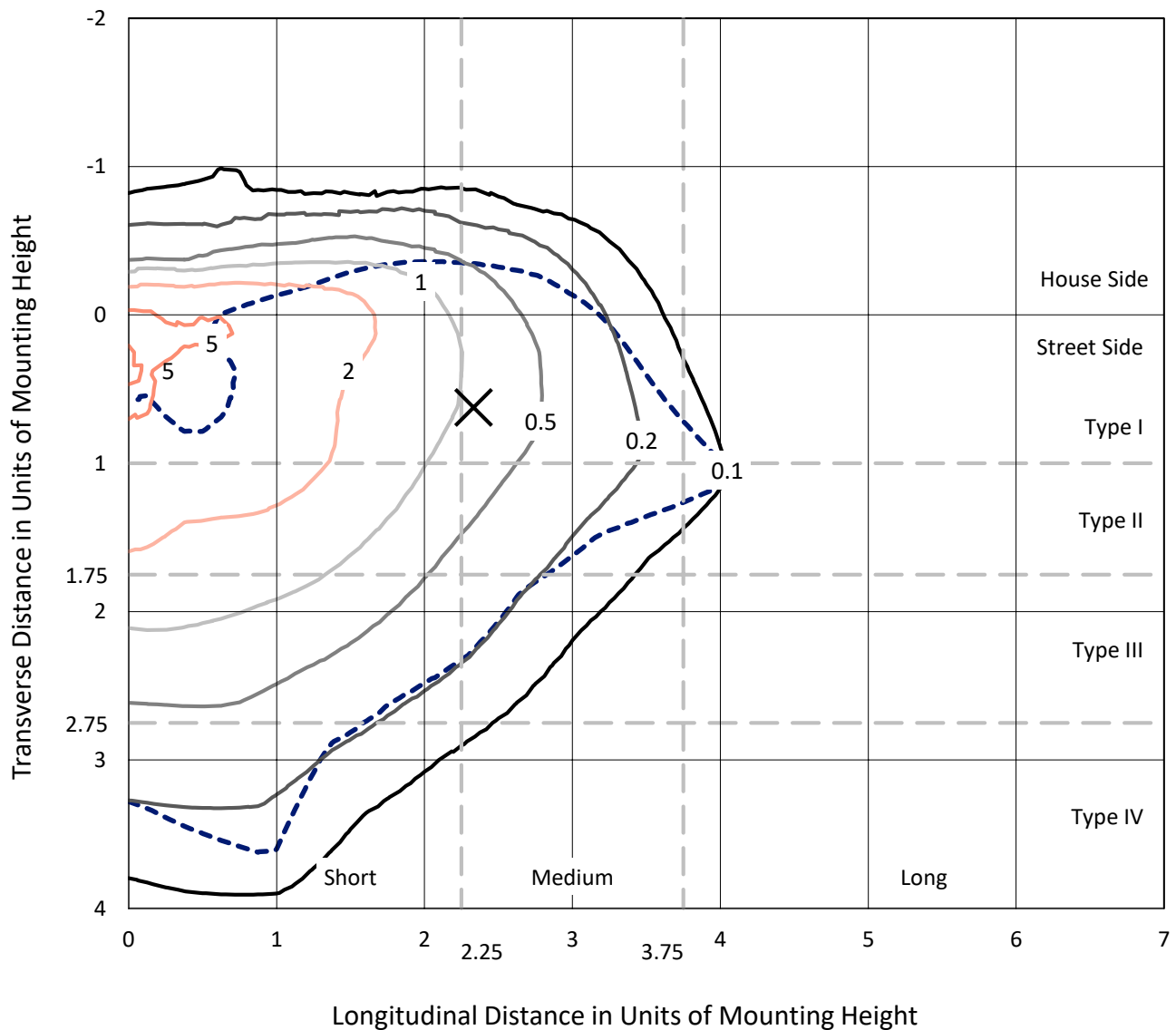


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Iso-Footcandle Lines of Horizontal Illumination

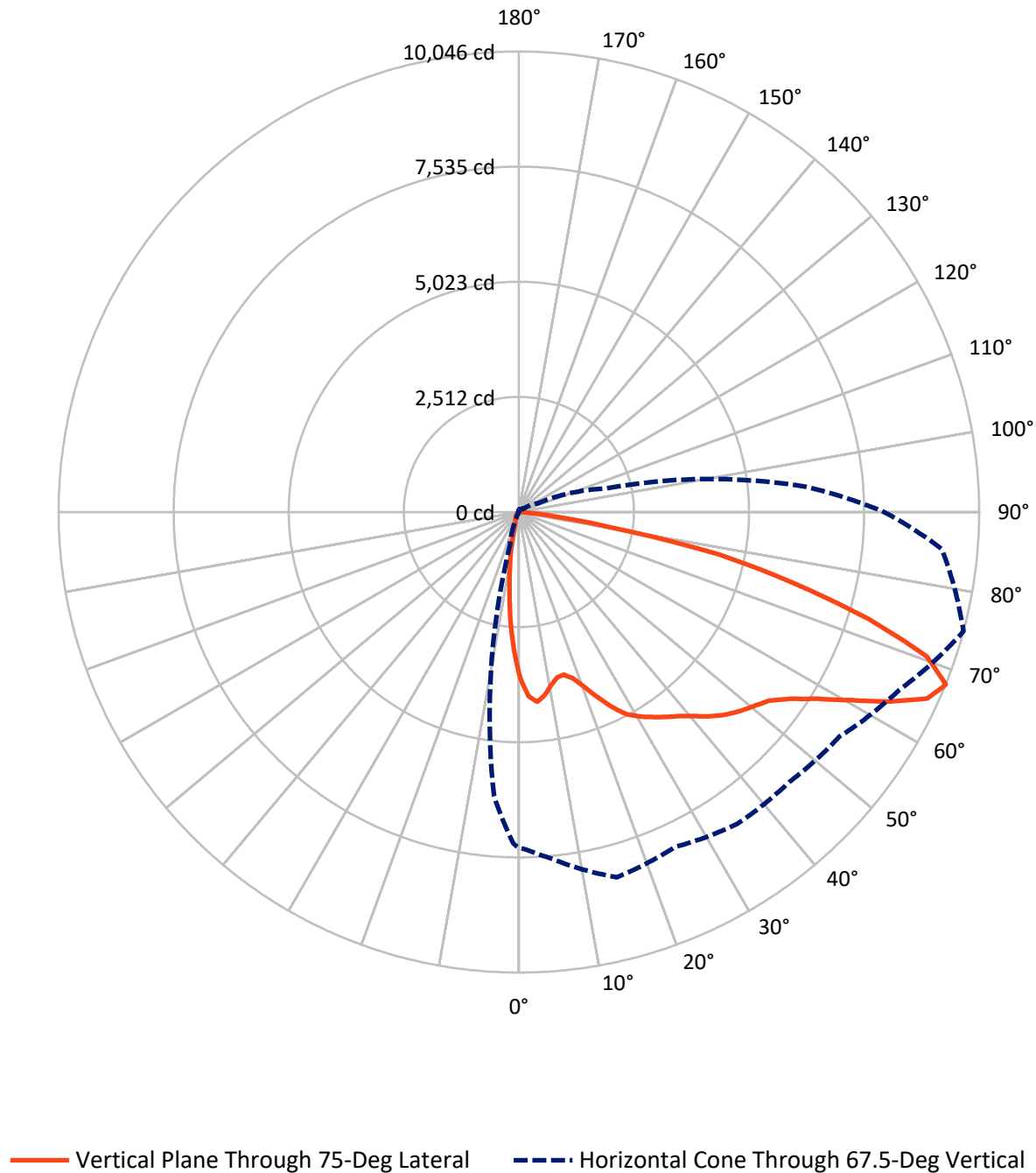
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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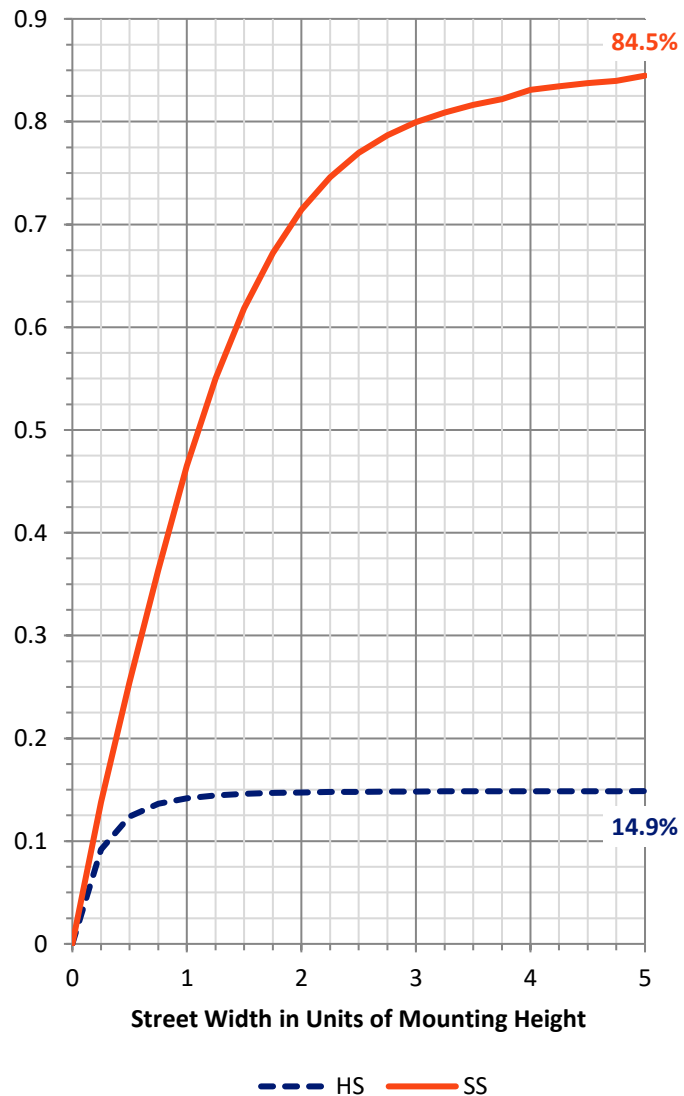
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1623.1	0.0	1623.1
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	9192.9	0.0	9192.9
	% Fixture	85.0	0.0	85.0
Total	Lumens	10816.0	0.0	10816.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.2	2.5
10°-20°	542.0	5.0
20°-30°	766.7	7.1
30°-40°	1127.3	10.4
40°-50°	1620.3	15.0
50°-60°	2280.9	21.1
60°-70°	2663.9	24.6
70°-80°	1359.1	12.6
80°-90°	180.5	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°	10816.0	100.0
0°-180°	10816.0	100.0

Coefficient of Utilization



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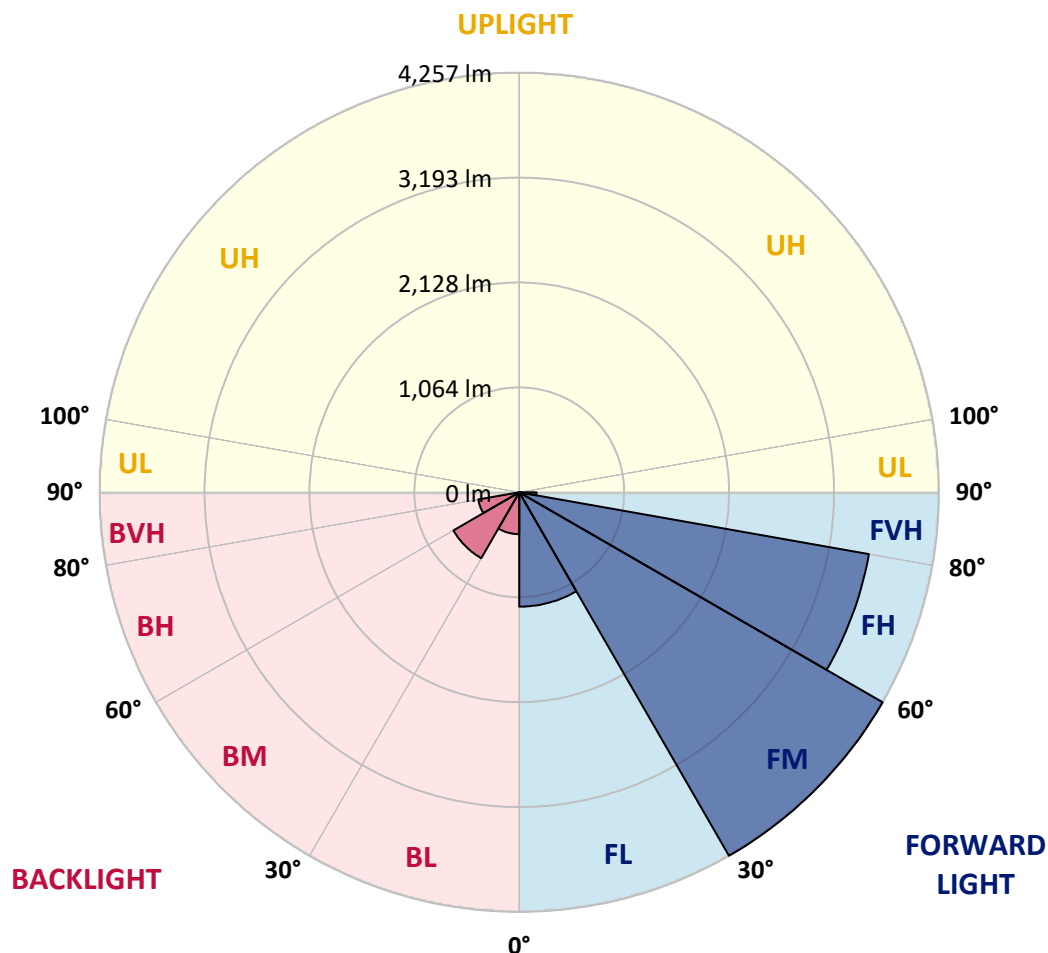
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1159.5	10.7			
FM	(30°-60°)	4257.0	39.4			
FH	(60°-80°)	3601.4	33.3			G2/5000
FVH	(80°-90°)	175.1	1.6			G2/225
BL	(0°-30°)	424.4	3.9	B1/500		
BM	(30°-60°)	771.5	7.1	B1/1000		
BH	(60°-80°)	421.6	3.9	B1/500		G1/500
BVH	(80°-90°)	5.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3628.6	3628.6	3628.6	3628.6	3628.6	3628.6	3628.6	3628.6	3628.6	3628.6	3628.6
2.5°	3933.4	3939.6	3971.4	4045.1	4125.6	4131.7	4186.0	4130.2	4111.2	4021.1	3927.8
5°	3963.2	3986.7	4095.9	4312.6	4500.6	4561.1	4604.1	4494.5	4379.2	4158.9	3923.7
7.5°	3723.9	3763.3	3935.0	4341.8	4677.9	4826.5	4854.7	4683.0	4400.7	4038.0	3684.4
10°	3417.5	3462.6	3669.6	4169.6	4631.3	4885.9	4924.9	4699.9	4294.1	3842.2	3425.7
12.5°	3169.5	3222.3	3433.9	3976.0	4470.9	4752.7	4829.6	4643.1	4201.9	3703.4	3248.9
15°	3055.2	3115.7	3338.1	3851.0	4293.1	4515.0	4578.5	4498.1	4150.7	3681.4	3207.9
17.5°	3120.8	3186.4	3416.0	3861.7	4126.1	4220.9	4272.1	4304.9	4150.7	3814.1	3327.8
20°	3389.8	3460.5	3703.4	3970.8	3987.8	3952.4	4007.2	4122.5	4198.8	4066.1	3615.8
22.5°	3761.8	3844.8	4118.9	4157.9	3920.1	3786.4	3793.6	3974.4	4286.5	4385.9	4015.4
25°	4215.2	4316.7	4595.4	4436.6	3948.3	3687.5	3684.9	3852.5	4372.0	4706.1	4460.7
27.5°	4665.6	4777.3	5022.2	4776.8	4064.6	3669.6	3664.4	3815.6	4455.5	4991.0	4946.9
30°	5043.2	5151.9	5362.9	5023.2	4190.1	3711.6	3687.0	3855.0	4505.2	5175.9	5301.5
32.5°	5350.6	5437.8	5608.4	5192.8	4324.4	3793.1	3739.8	3960.6	4589.8	5332.2	5627.3
35°	5688.8	5780.5	5848.7	5354.2	4475.0	3910.4	3834.0	4128.1	4719.9	5491.0	5984.4
37.5°	6074.6	6165.8	6157.6	5501.8	4666.1	4104.6	4055.9	4393.5	4922.3	5648.3	6383.1
40°	6452.2	6545.5	6478.9	5663.2	4890.5	4424.8	4388.9	4792.2	5193.4	5849.7	6850.3
42.5°	6805.8	6906.7	6764.3	5815.9	5158.0	4828.5	4890.0	5305.6	5532.5	6097.7	7253.1
45°	7090.6	7193.6	7003.5	5964.5	5439.8	5318.4	5503.3	5874.3	5940.4	6307.2	7525.1
47.5°	7297.6	7395.0	7169.6	6113.1	5800.5	5917.3	6239.6	6470.7	6308.8	6489.1	7718.3
50°	7429.8	7505.7	7218.2	6299.0	6273.9	6616.2	7006.6	7119.3	6655.6	6653.1	7953.0
52.5°	7513.9	7548.2	7254.1	6493.2	6767.9	7377.1	7757.7	7793.1	7012.8	6833.4	8269.1
55°	7803.3	7831.0	7508.2	6728.4	7176.2	8043.6	8437.1	8404.4	7417.0	7186.5	8642.1
57.5°	8297.3	8326.5	8033.4	7066.6	7506.7	8455.6	8929.5	8988.5	7891.0	7682.4	9041.7
60°	8545.3	8599.6	8495.0	7494.9	7826.9	8718.9	9265.1	9453.2	8483.3	8336.2	9429.1
62.5°	8320.3	8399.2	8550.9	7969.9	8145.1	8863.9	9369.7	9619.7	9089.9	9098.1	9667.9
65°	7871.5	7934.5	8191.7	8230.2	8329.6	8846.0	9111.4	9387.1	9461.4	9798.0	9655.0
67.5°	7329.4	7353.0	7571.2	8250.6	8062.1	8307.0	8335.7	8539.6	9167.8	10046.0	9267.2
70°	6549.1	6561.9	6752.5	7564.6	6928.2	6982.0	6939.5	6981.0	7881.7	9441.9	8288.0
72.5°	5270.7	5303.0	5574.0	6282.1	5047.3	4892.1	5226.1	5207.7	6070.0	7977.0	6155.6
75°	3880.7	3936.5	4345.9	5060.1	3542.5	3204.3	3448.2	3513.3	4315.2	6170.4	3849.4
77.5°	2717.1	2758.6	3155.2	3719.8	2563.9	2291.3	2203.2	2280.5	2848.2	4463.7	1939.3
80°	1565.3	1580.7	1833.8	2147.8	1727.7	1976.7	1790.7	1844.0	1706.7	1985.9	834.1
82.5°	1024.2	1026.8	1125.7	1278.4	1076.0	1250.2	925.3	1183.1	1049.8	797.8	271.6
85°	553.4	556.4	652.8	907.4	609.2	344.3	202.4	415.5	649.2	182.9	74.3
87.5°	61.0	55.8	196.7	330.0	169.1	31.3	10.8	46.6	104.0	11.8	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°	3628.6	3628.6	3628.6	3628.6	3628.6	3628.6	3628.6	3628.6	3628.6	3628.6	3628.6
2.5°	3880.2	3837.6	3731.6	3619.4	3529.2	3444.6	3359.6	3255.6	3175.1	3158.7	3132.1
5°	3797.2	3662.4	3440.0	3216.6	3036.8	2809.8	2665.8	2553.6	2444.0	2437.3	2415.3
7.5°	3507.2	3329.9	3016.8	2707.9	2454.8	2238.5	2020.3	1874.2	1759.5	1719.0	1694.9
10°	3228.4	3029.1	2638.2	2285.7	2059.7	1868.6	1714.9	1562.2	1423.9	1328.6	1285.5
12.5°	3033.7	2813.4	2382.5	2078.7	1916.8	1735.4	1547.9	1357.3	1197.9	1083.1	1012.9
15°	2958.4	2723.2	2296.9	1996.7	1796.9	1567.3	1327.5	1109.8	933.0	829.0	766.0
17.5°	3048.1	2774.5	2290.3	1896.8	1617.5	1332.2	1067.3	810.1	643.5	564.6	524.2
20°	3275.6	2937.4	2287.7	1774.3	1404.4	1053.4	722.9	532.9	431.9	387.9	368.9
22.5°	3597.3	3145.4	2308.2	1653.4	1182.5	752.7	499.0	391.4	339.7	316.1	305.4
25°	4011.3	3437.5	2366.1	1543.8	974.0	561.6	388.9	327.9	291.5	273.1	265.4
27.5°	4452.5	3773.6	2456.3	1448.5	804.4	447.8	333.0	280.8	254.6	241.8	234.7
30°	4816.2	4163.0	2547.5	1342.4	681.4	390.4	304.9	256.2	226.0	217.8	211.1
32.5°	5134.4	4457.6	2612.0	1246.6	601.0	346.9	275.7	229.0	208.5	192.6	185.5
35°	5463.9	4703.0	2610.0	1179.5	545.7	314.1	251.1	204.9	180.4	161.9	156.3
37.5°	5820.5	4980.2	2565.4	1122.1	521.6	288.0	237.2	192.1	167.5	149.1	141.9
40°	6238.1	5271.2	2519.8	1068.3	514.9	266.9	227.5	181.9	155.8	137.8	130.7
42.5°	6644.9	5533.6	2479.9	1028.3	486.2	266.4	218.8	174.2	146.5	129.1	120.9
45°	6970.2	5778.0	2472.2	1004.2	456.0	275.7	214.2	169.1	139.4	121.9	114.3
47.5°	7240.8	6043.4	2521.4	987.3	427.3	251.6	225.4	165.5	132.7	115.8	107.1
50°	7562.5	6369.2	2637.2	959.7	397.1	226.5	258.2	166.5	127.1	109.6	100.4
52.5°	8011.4	6820.1	2807.3	913.0	355.6	203.4	254.1	167.5	120.9	103.0	93.8
55°	8514.5	7383.2	2990.2	835.7	297.7	173.2	217.8	160.4	109.1	95.8	87.1
57.5°	9043.3	7894.0	3098.8	743.4	236.7	149.6	174.2	146.0	96.3	86.1	80.4
60°	9126.3	8088.2	3049.1	630.2	188.0	130.1	129.1	148.6	86.1	75.8	71.7
62.5°	8919.8	7844.3	2808.8	529.3	157.3	114.3	106.1	129.6	77.9	67.6	63.5
65°	8522.7	7184.9	2419.4	477.0	146.0	97.9	88.1	91.2	68.1	58.9	55.3
67.5°	7970.4	6304.7	1986.4	447.3	144.5	84.0	75.3	69.2	58.9	51.2	48.2
70°	6841.1	5252.3	1584.8	430.9	140.4	70.7	63.5	56.4	49.2	43.6	41.0
72.5°	5035.0	3721.8	1232.8	413.0	141.4	56.4	55.3	46.6	39.5	33.8	32.8
75°	2909.2	2126.3	808.5	334.6	134.8	43.6	46.1	32.8	27.7	23.6	23.6
77.5°	1550.4	1296.8	307.9	139.4	49.2	27.7	26.1	19.5	17.4	14.3	13.8
80°	675.8	570.8	92.7	38.9	27.2	14.9	9.7	8.7	7.7	6.1	5.6
82.5°	239.3	206.5	30.2	19.0	11.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	54.3	38.9	0.0	4.6	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°	3628.6	3628.6	3628.6	3628.6	3628.6	3628.6	3628.6	3628.6	3628.6	3628.6	3628.6
2.5°	3077.8	3066.5	2999.9	3002.5	3014.3	3031.2	2991.2	3009.6	3059.3	3107.0	3124.9
5°	2379.9	2382.5	2342.0	2367.1	2389.7	2405.1	2340.5	2341.5	2381.0	2434.8	2462.9
7.5°	1677.0	1672.9	1674.9	1734.9	1777.4	1746.7	1770.7	1687.2	1692.3	1730.8	1702.1
10°	1246.6	1190.2	1158.5	1203.6	1250.2	1233.3	1191.8	1164.6	1183.6	1226.1	1223.0
12.5°	979.6	898.7	851.0	818.8	857.2	825.4	824.4	800.8	775.2	779.8	848.0
15°	736.8	677.9	621.5	569.8	568.7	558.0	503.1	441.7	436.5	439.6	475.0
17.5°	506.7	486.7	463.7	419.1	407.3	362.2	309.0	284.4	272.1	277.7	289.5
20°	356.1	348.4	351.0	326.9	310.0	266.9	235.7	226.0	223.9	229.5	235.2
22.5°	295.1	281.3	279.8	269.0	252.1	220.8	203.9	198.3	195.7	200.8	204.9
25°	258.2	244.4	238.8	232.1	214.2	192.6	182.4	177.3	174.7	177.8	180.4
27.5°	227.5	214.7	209.6	204.9	187.5	172.2	164.0	159.3	157.3	158.3	160.9
30°	204.4	193.2	186.5	180.9	166.0	155.2	148.1	143.5	141.4	141.4	144.0
32.5°	180.4	174.2	168.1	160.9	147.0	139.9	132.7	127.6	125.5	126.0	128.1
35°	150.1	148.1	149.6	143.0	131.2	125.0	117.8	112.2	110.7	111.2	113.2
37.5°	133.2	124.0	129.6	126.0	119.4	111.2	102.0	96.8	94.3	95.8	96.8
40°	122.5	111.2	107.1	110.7	109.6	96.3	88.1	83.0	81.0	81.5	82.5
42.5°	113.2	99.9	90.7	90.2	96.3	84.0	75.3	70.7	68.1	68.1	69.2
45°	104.5	90.2	78.9	70.2	81.0	71.2	63.0	58.9	55.8	55.8	56.4
47.5°	97.9	82.0	68.7	57.4	61.0	58.4	51.7	47.7	44.6	44.6	45.1
50°	91.7	73.8	59.4	48.2	45.6	48.2	42.0	37.4	35.4	34.8	35.9
52.5°	85.1	65.6	50.7	41.0	35.9	36.4	32.8	29.7	27.2	27.2	28.2
55°	78.4	58.9	44.1	34.8	29.7	27.2	26.1	24.1	22.0	22.0	23.1
57.5°	71.7	51.7	37.4	28.7	23.6	21.5	21.5	20.0	18.4	18.4	19.5
60°	65.6	44.6	30.7	23.6	18.4	17.9	18.4	16.9	15.9	15.9	16.9
62.5°	58.4	37.9	25.1	19.5	14.9	14.3	15.9	14.9	13.8	13.8	14.9
65°	49.7	32.3	20.0	14.9	11.3	11.3	13.3	12.3	11.3	11.3	12.3
67.5°	42.0	27.2	15.4	10.8	8.2	8.7	11.3	10.2	9.7	9.7	10.8
70°	34.8	21.0	10.8	6.7	4.6	6.7	8.7	8.7	8.7	8.7	9.7
72.5°	26.1	14.3	6.1	2.6	2.0	4.6	7.2	8.2	7.7	7.7	9.2
75°	16.9	8.2	2.0	0.0	0.0	2.6	5.6	6.7	6.7	6.1	7.7
77.5°	9.7	2.6	0.0	0.0	0.0	0.0	3.6	3.1	2.6	2.0	3.6
80°	2.6	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-SA3B-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3628.6	3628.6	3628.6	3628.6	3628.6	3628.6	3628.6	3628.6	3628.6	3628.6
2.5°	3197.2	3257.6	3342.7	3432.9	3571.7	3681.9	3790.0	3882.7	3918.6	3933.4
5°	2530.6	2619.2	2743.7	2903.6	3154.1	3379.6	3608.1	3838.1	3938.1	3963.2
7.5°	1815.8	1929.1	2087.4	2287.7	2581.3	2873.4	3192.6	3530.2	3684.9	3723.9
10°	1343.9	1482.3	1663.7	1874.8	2155.0	2455.3	2803.2	3189.0	3365.7	3417.5
12.5°	953.5	1140.5	1383.4	1640.1	1882.9	2150.9	2502.9	2928.2	3113.7	3169.5
15°	560.0	740.9	1028.3	1372.1	1683.1	1954.7	2312.3	2794.4	2998.9	3055.2
17.5°	321.3	411.4	628.7	1011.9	1434.1	1810.2	2252.4	2827.8	3068.6	3120.8
20°	245.4	274.1	362.2	651.7	1143.1	1668.3	2252.4	3016.3	3313.0	3389.8
22.5°	214.7	235.7	271.6	388.9	841.3	1516.1	2278.5	3288.9	3676.7	3761.8
25°	190.6	209.6	240.3	292.6	573.9	1335.2	2340.5	3623.5	4105.1	4215.2
27.5°	170.6	188.6	216.2	256.2	392.5	1117.0	2424.0	4015.9	4577.5	4665.6
30°	152.7	169.6	194.7	222.9	302.8	869.5	2495.2	4385.9	4948.4	5043.2
32.5°	135.8	151.1	173.7	194.7	248.0	643.0	2502.9	4678.9	5256.4	5350.6
35°	119.9	133.7	154.2	170.6	205.5	507.8	2383.5	4933.1	5564.3	5688.8
37.5°	104.5	117.8	135.8	148.1	180.9	414.0	2201.1	5216.4	5959.3	6074.6
40°	90.2	102.0	120.4	128.6	171.1	318.2	2002.8	5513.6	6346.7	6452.2
42.5°	76.9	88.1	106.1	121.9	150.1	237.7	1788.7	5792.3	6695.1	6805.8
45°	64.0	75.8	93.8	129.1	124.5	177.8	1559.6	5977.3	6970.2	7090.6
47.5°	51.7	65.1	89.7	123.0	99.4	130.7	1378.3	6152.5	7178.8	7297.6
50°	41.5	54.8	100.9	109.6	81.5	99.9	1302.4	6309.3	7315.6	7429.8
52.5°	33.8	46.1	95.3	84.0	68.1	82.5	1343.4	6563.4	7442.1	7513.9
55°	28.2	36.4	57.4	58.4	57.9	70.2	1394.2	6928.2	7769.5	7803.3
57.5°	24.6	29.2	40.0	45.1	48.7	62.5	1395.2	7451.9	8276.3	8297.3
60°	21.0	25.6	33.3	36.4	42.0	55.8	1344.5	7634.8	8475.6	8545.3
62.5°	18.4	22.5	27.7	30.2	35.4	50.2	1225.6	7369.9	8202.0	8320.3
65°	16.4	20.5	23.1	25.6	31.3	45.1	1029.9	6840.1	7748.0	7871.5
67.5°	14.3	17.9	20.5	23.1	28.2	40.0	758.3	6224.7	7226.9	7329.4
70°	12.8	15.9	18.4	20.5	24.6	33.8	460.1	5282.0	6506.5	6549.1
72.5°	12.3	14.3	16.9	18.4	21.5	29.7	233.1	3881.7	5201.5	5270.7
75°	10.8	12.8	15.4	16.4	19.0	25.6	94.8	2549.5	3769.5	3880.7
77.5°	8.7	11.8	13.8	14.9	16.4	21.0	48.2	1629.3	2645.4	2717.1
80°	3.1	8.7	11.8	12.3	13.8	15.4	31.8	892.0	1534.5	1565.3
82.5°	0.0	5.6	9.2	8.7	9.7	11.8	20.5	424.2	1012.9	1024.2
85°	0.0	2.6	7.2	5.6	4.1	8.2	7.2	92.7	531.3	553.4
87.5°	0.0	0.0	0.5	2.6	2.0	3.1	1.0	0.5	48.2	61.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)