

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: P324401

Luminaire Tested: **GAN-SA7B-727-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324401
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7B-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25058 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

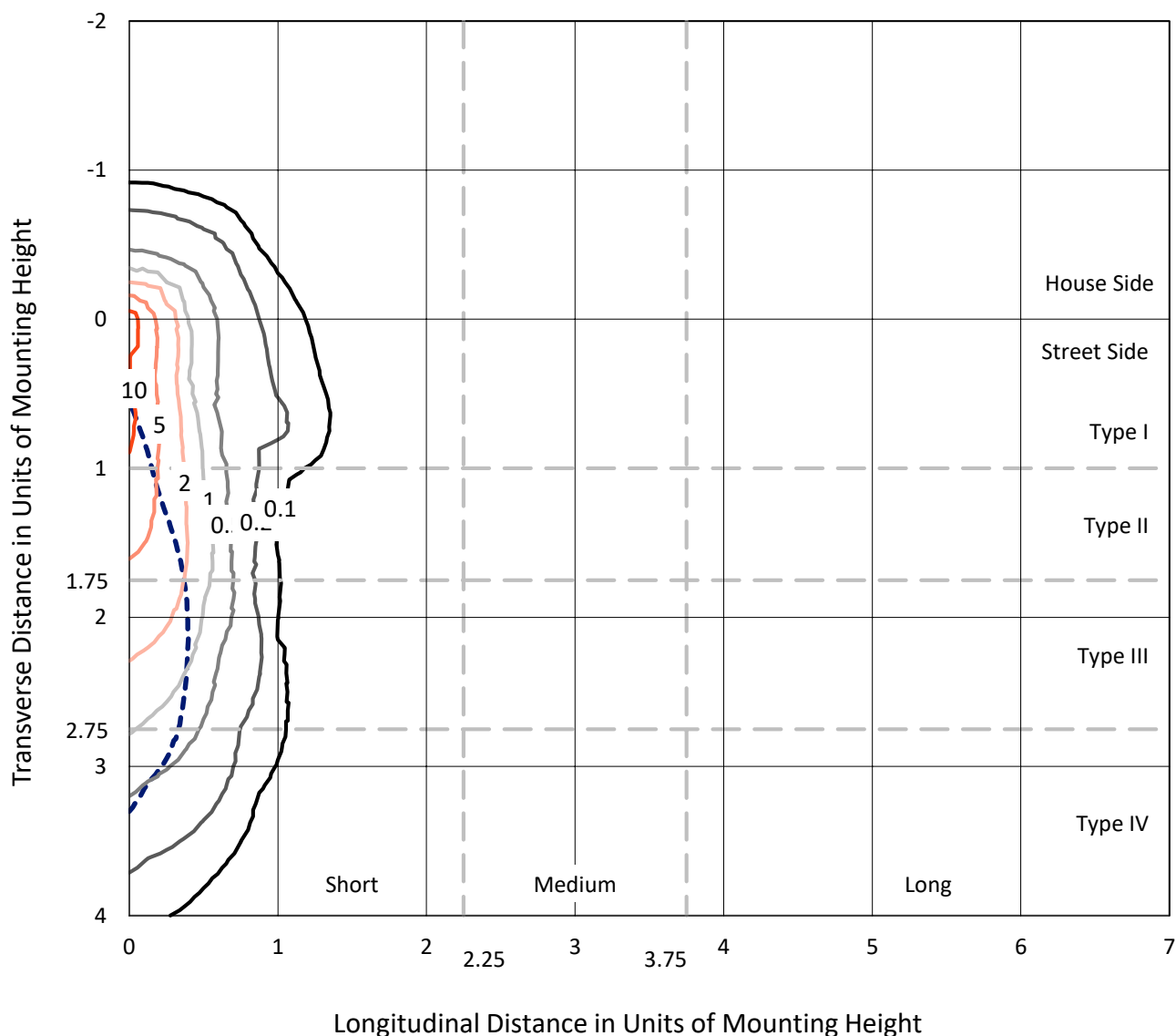
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

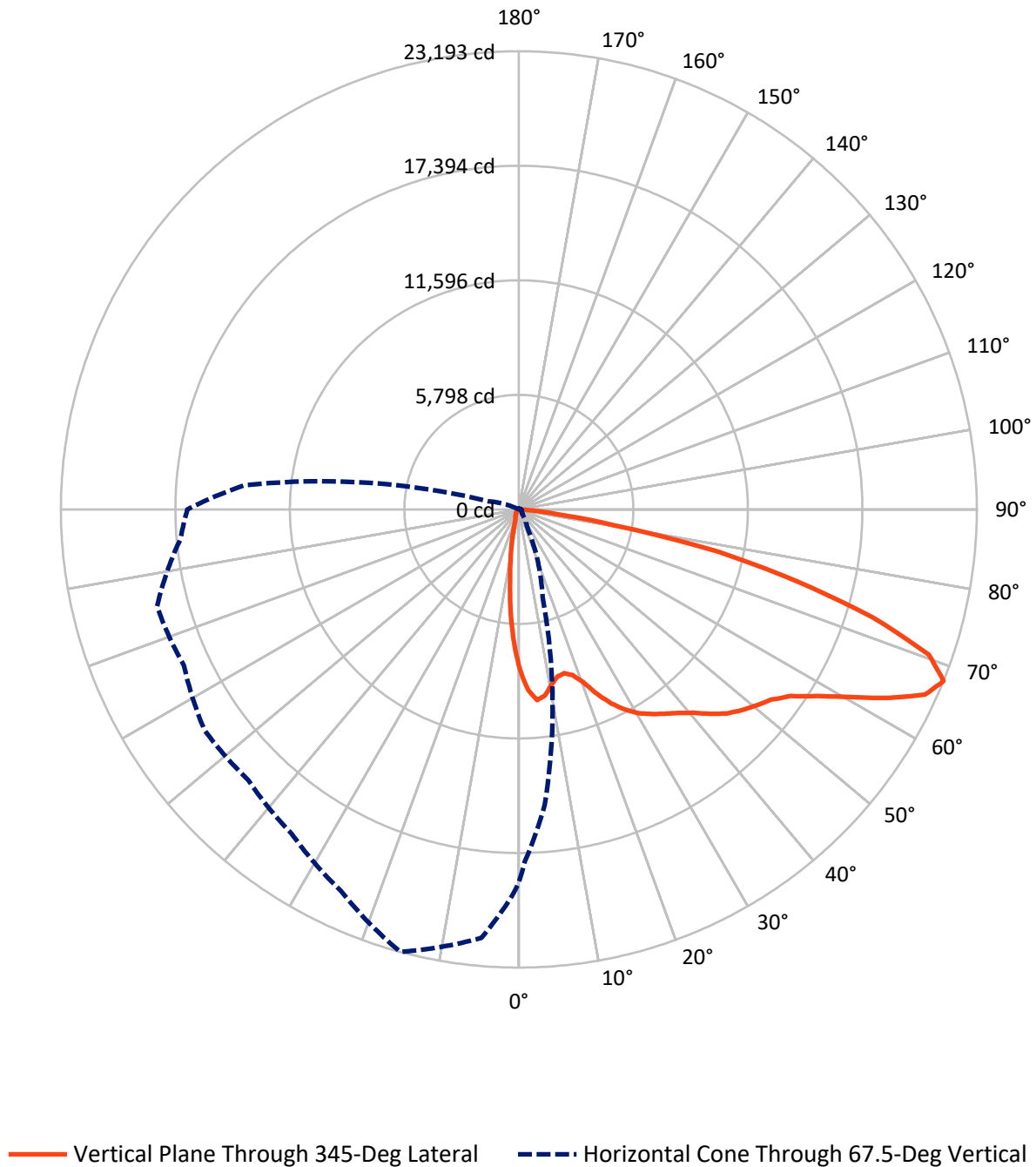
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3032.8	0.0	3032.8
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	22025.2	0.0	22025.2
	% Fixture	87.9	0.0	87.9
Total	Lumens	25058.0	0.0	25058.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	626.5	2.5
10°-20°	1247.0	5.0
20°-30°	1770.7	7.1
30°-40°	2615.5	10.4
40°-50°	3772.0	15.1
50°-60°	5295.2	21.1
60°-70°	6172.6	24.6
70°-80°	3155.6	12.6
80°-90°	403.0	1.6
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°	25058.0	100.0
0°-180°	25058.0	100.0

Coefficient of Utilization



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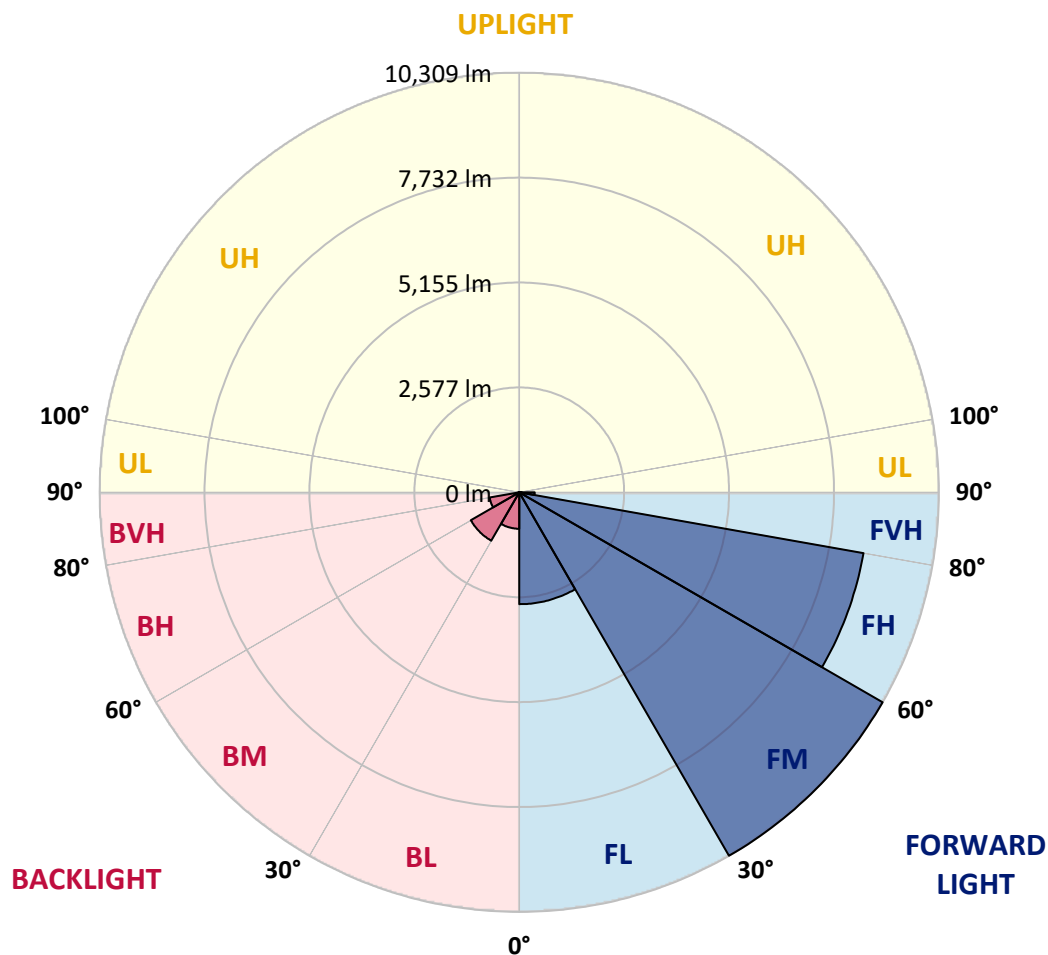
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2748.4	11.0			
FM	(30°-60°)	10309.3	41.1			
FH	(60°-80°)	8589.0	34.3			G4/12000
FVH	(80°-90°)	378.5	1.5			G3/500
BL	(0°-30°)	895.8	3.6	B2/1000		
BM	(30°-60°)	1373.4	5.5	B2/2500		
BH	(60°-80°)	739.2	2.9	B2/1000		G2/1000
BVH	(80°-90°)	24.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8162.6	8162.6	8162.6	8162.6	8162.6	8162.6	8162.6	8162.6	8162.6	8162.6	8162.6
2.5°	8937.8	8868.9	8793.0	8544.8	8314.5	8051.0	7836.1	7686.6	7499.0	7255.6	7193.9
5°	8873.7	8800.1	8561.5	8009.5	7526.3	7056.2	6602.7	6336.8	6006.8	5672.0	5588.9
7.5°	8229.1	8151.9	7807.6	7051.5	6400.9	5721.9	5133.1	4768.6	4395.9	4089.6	3927.0
10°	7558.4	7474.1	7087.1	6169.4	5368.1	4754.4	4322.3	3974.5	3621.9	3294.2	3033.1
12.5°	7096.6	6986.2	6565.9	5526.0	4828.0	4411.3	4007.7	3591.0	3113.8	2762.4	2475.1
15°	6903.1	6777.2	6333.3	5277.9	4636.9	4147.8	3621.9	3110.2	2551.1	2148.7	1885.1
17.5°	7052.6	6888.8	6412.8	5261.3	4397.1	3731.1	3066.3	2465.6	1859.0	1451.8	1264.3
20°	7560.7	7345.9	6741.6	5256.5	4106.2	3236.1	2393.2	1714.2	1225.1	985.3	886.8
22.5°	8360.8	8077.1	7214.1	5294.5	3805.9	2716.1	1728.4	1164.6	920.0	795.4	737.2
25°	9327.2	8998.3	7894.3	5428.7	3542.3	2210.4	1256.0	920.0	776.4	685.0	636.3
27.5°	10246.0	9978.9	8753.8	5622.2	3338.2	1802.0	1019.7	779.9	663.6	603.1	563.9
30°	11163.6	10827.7	9635.8	5852.5	3092.4	1525.4	896.3	711.1	594.7	530.6	505.7
32.5°	11830.8	11551.8	10326.7	6018.7	2830.1	1345.0	801.3	650.5	555.6	490.3	453.5
35°	12615.5	12299.7	10919.1	6055.5	2661.5	1231.0	720.6	585.2	482.0	423.8	384.6
37.5°	13463.1	13070.1	11602.9	5974.7	2529.7	1175.2	660.0	555.6	449.9	390.6	349.0
40°	14400.9	13956.9	12259.3	5858.4	2400.3	1156.2	613.7	533.0	425.0	364.4	321.7
42.5°	15388.6	14865.0	12828.0	5736.1	2318.4	1091.0	609.0	510.5	406.0	340.7	298.0
45°	16218.4	15687.7	13412.0	5695.8	2260.3	1019.7	629.2	495.0	392.9	321.7	280.2
47.5°	16879.6	16377.4	14010.3	5786.0	2227.0	954.4	573.4	515.2	385.8	305.1	264.7
50°	17669.0	17100.4	14853.2	6055.5	2178.4	889.1	518.8	590.0	385.8	294.4	251.7
52.5°	18659.1	18096.4	15793.4	6473.3	2081.0	798.9	466.5	591.2	389.4	280.2	235.0
55°	19904.3	19496.0	17136.0	6931.6	1925.5	666.0	403.6	508.1	375.1	254.0	219.6
57.5°	21098.6	20765.0	18359.9	7245.0	1717.8	520.0	351.4	409.6	343.1	223.2	195.9
59°	21425.0	21060.6	18808.6	7259.2	1562.2	453.5	325.3	338.3	336.0	208.9	181.6
60°	21425.0	21038.0	18938.0	7183.2	1449.5	416.7	308.6	301.5	350.2	199.4	173.3
62.5°	21036.9	20493.2	18517.8	6669.2	1182.4	354.9	269.5	249.3	314.6	179.3	153.1
65°	20229.6	19437.8	17086.1	5739.7	1054.2	325.3	232.7	204.2	218.4	157.9	134.1
67.5°	18883.4	17810.3	15021.7	4636.9	1003.1	317.0	200.6	173.3	165.0	135.3	117.5
70°	16512.8	15322.1	12515.7	3645.6	959.2	313.4	168.6	146.0	133.0	114.0	99.7
72.5°	12018.3	10776.6	8885.5	2850.3	933.1	320.5	135.3	122.3	109.2	89.0	77.2
75°	6874.6	6061.4	4994.2	1882.8	795.4	306.3	104.5	102.1	78.3	64.1	53.4
77.5°	3551.8	3443.8	2992.7	723.0	381.1	134.1	68.9	59.4	46.3	39.2	32.1
80°	1532.6	1515.9	1311.8	208.9	100.9	74.8	39.2	24.9	21.4	16.6	13.1
82.5°	529.5	529.5	466.5	70.0	45.1	36.8	4.7	0.0	0.0	0.0	0.0
85°	106.8	119.9	84.3	0.0	15.4	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8162.6	8162.6	8162.6	8162.6	8162.6	8162.6	8162.6	8162.6	8162.6	8162.6	8162.6
2.5°	7119.1	6975.5	6966.0	6875.8	6763.0	6711.9	6682.3	6734.5	6798.6	6805.7	6901.9
5°	5526.0	5375.3	5438.2	5277.9	5310.0	5277.9	5225.7	5235.2	5263.7	5174.6	5285.0
7.5°	3880.7	3766.7	3839.1	3796.4	3853.4	3875.9	3843.9	3796.4	3656.3	3639.7	3735.8
10°	2925.0	2795.7	2718.5	2637.8	2655.6	2692.4	2680.5	2646.1	2557.0	2561.8	2654.4
12.5°	2350.5	2205.7	2052.5	1854.3	1805.6	1832.9	1805.6	1785.4	1699.9	1707.1	1789.0
15°	1783.0	1664.3	1504.1	1345.0	1258.3	1266.7	1190.7	1137.3	1083.8	1019.7	1069.6
17.5°	1203.7	1131.3	1083.8	1036.4	933.1	909.3	813.2	709.9	669.5	639.9	661.2
20°	852.3	813.2	794.2	791.8	732.4	702.8	609.0	544.9	524.7	518.8	531.8
22.5°	712.3	683.8	656.5	641.0	611.4	576.9	505.7	473.7	459.4	452.3	461.8
25°	619.7	598.3	569.8	543.7	531.8	495.0	444.0	420.2	410.7	403.6	408.4
27.5°	550.8	531.8	498.6	482.0	472.5	440.4	396.5	377.5	369.2	366.8	365.6
30°	496.2	478.4	447.5	428.5	411.9	383.4	357.3	338.3	330.0	327.6	325.3
32.5°	441.6	427.4	407.2	388.2	370.4	344.3	321.7	306.3	293.2	290.8	289.7
35°	372.8	358.5	347.8	346.6	330.0	305.1	288.5	268.3	257.6	254.0	255.2
37.5°	331.2	312.2	288.5	296.8	292.0	274.2	251.7	231.5	220.8	218.4	218.4
40°	305.1	284.9	257.6	243.4	257.6	254.0	218.4	198.2	187.6	186.4	184.0
42.5°	280.2	260.0	229.1	205.4	212.5	223.2	188.8	169.8	159.1	156.7	153.1
45°	262.4	241.0	206.6	179.3	165.0	187.6	161.4	137.7	131.8	127.0	124.6
47.5°	245.7	225.6	186.4	155.5	131.8	135.3	129.4	112.8	105.7	100.9	99.7
50°	231.5	210.1	168.6	133.0	109.2	99.7	104.5	89.0	83.1	78.3	76.0
52.5°	214.9	194.7	149.6	115.2	91.4	78.3	79.5	70.0	64.1	60.5	59.4
55°	201.8	181.6	134.1	100.9	80.7	64.1	57.0	54.6	51.0	48.7	47.5
57.5°	184.0	165.0	118.7	85.5	68.9	52.2	43.9	43.9	42.7	40.4	39.2
59°	173.3	156.7	109.2	77.2	62.9	45.1	39.2	40.4	39.2	36.8	35.6
60°	165.0	149.6	102.1	71.2	59.4	41.5	35.6	38.0	36.8	34.4	33.2
62.5°	146.0	135.3	87.8	59.4	52.2	33.2	29.7	32.1	32.1	30.9	29.7
65°	128.2	116.3	74.8	49.9	48.7	28.5	23.7	28.5	29.7	27.3	24.9
67.5°	111.6	99.7	65.3	40.4	45.1	22.6	17.8	23.7	32.1	24.9	22.6
70°	95.0	83.1	51.0	32.1	47.5	15.4	14.2	21.4	38.0	27.3	21.4
72.5°	73.6	64.1	35.6	23.7	51.0	10.7	10.7	17.8	42.7	29.7	20.2
75°	51.0	41.5	21.4	14.2	41.5	7.1	7.1	16.6	40.4	27.3	19.0
77.5°	29.7	22.6	7.1	1.2	21.4	0.0	1.2	11.9	28.5	16.6	8.3
80°	10.7	4.7	0.0	0.0	13.1	0.0	0.0	0.0	2.4	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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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8162.6	8162.6	8162.6	8162.6	8162.6	8162.6	8162.6	8162.6	8162.6	8162.6	8162.6
2.5°	6926.8	7087.1	7230.7	7448.0	7705.6	8002.3	8257.6	8531.8	8789.4	8896.2	8969.8
5°	5307.6	5505.8	5737.3	6056.7	6481.6	7005.2	7495.4	8049.8	8645.8	8943.7	9223.9
7.5°	3752.5	3954.3	4241.6	4581.1	5095.1	5718.3	6359.4	7125.1	7932.3	8403.6	8867.7
10°	2698.3	2946.4	3214.7	3678.9	4201.2	4792.4	5452.4	6307.1	7207.0	7729.3	8288.4
12.5°	1836.5	2119.0	2525.0	3044.9	3658.7	4238.0	4811.4	5626.9	6671.6	7189.2	7788.7
15°	1101.6	1258.3	1688.1	2289.9	3042.6	3764.3	4392.3	5210.2	6323.8	6957.7	7580.9
17.5°	679.0	751.4	985.3	1479.1	2269.8	3182.7	4043.3	5069.0	6373.6	7145.2	7812.4
20°	541.3	569.8	644.6	873.7	1504.1	2541.6	3650.4	5040.5	6780.8	7730.5	8446.3
22.5°	470.1	497.4	547.3	635.1	946.1	1902.9	3277.6	5066.6	7364.9	8607.8	9443.5
25°	414.3	438.0	485.5	557.9	693.3	1340.3	2878.8	5182.9	8125.8	9696.3	10584.3
27.5°	370.4	390.6	434.5	501.0	594.7	935.4	2426.5	5324.2	9028.0	10809.9	11686.0
30°	330.0	347.8	387.0	448.7	516.4	719.4	1930.2	5420.4	9931.4	11686.0	12473.0
32.5°	295.6	308.6	344.3	396.5	448.7	573.4	1467.3	5404.9	10602.1	12414.8	13039.3
35°	260.0	273.0	303.9	349.0	390.6	473.7	1153.9	5116.5	11186.2	13171.0	13687.4
37.5°	220.8	237.4	267.1	307.5	336.0	416.7	933.1	4768.6	11778.5	14035.3	14410.4
40°	187.6	204.2	230.3	274.2	292.0	395.3	717.0	4344.8	12444.5	15001.6	15203.4
42.5°	155.5	170.9	198.2	236.2	275.4	340.7	530.6	3860.5	13084.4	15827.8	15926.3
45°	125.8	141.3	169.8	207.7	294.4	282.5	410.7	3341.7	13600.8	16515.1	16547.2
47.5°	99.7	114.0	143.6	195.9	274.2	225.6	293.2	2934.5	14034.1	17051.7	16967.4
50°	77.2	89.0	119.9	224.4	239.8	186.4	222.0	2799.2	14422.3	17384.1	17165.7
52.5°	60.5	71.2	98.5	210.1	186.4	154.3	186.4	2926.2	14954.1	17659.5	17277.3
55°	48.7	59.4	77.2	119.9	127.0	130.6	159.1	3044.9	15871.7	18305.3	17936.1
57.5°	40.4	51.0	62.9	84.3	96.2	110.4	141.3	3058.0	16953.2	19378.5	19029.4
59°	36.8	46.3	57.0	74.8	84.3	100.9	133.0	2986.8	17334.2	19769.0	19594.5
60°	34.4	43.9	53.4	68.9	78.3	95.0	128.2	2919.1	17350.9	19754.8	19835.5
62.5°	29.7	39.2	47.5	58.2	66.5	80.7	115.2	2668.6	16648.1	19107.8	19690.7
65°	26.1	34.4	42.7	49.9	57.0	72.4	104.5	2211.6	15447.9	18064.3	18699.4
67.5°	23.7	29.7	39.2	43.9	51.0	64.1	92.6	1576.5	13948.6	16788.2	17200.1
70°	21.4	28.5	35.6	40.4	46.3	55.8	79.5	905.8	11778.5	14919.7	15212.9
72.5°	20.2	27.3	32.1	38.0	41.5	49.9	72.4	426.2	8624.4	11951.9	12717.6
75°	17.8	24.9	29.7	35.6	39.2	45.1	61.7	204.2	5736.1	8649.3	9519.5
77.5°	10.7	20.2	27.3	32.1	34.4	39.2	51.0	117.5	3661.1	5986.6	7051.5
80°	0.0	7.1	20.2	27.3	29.7	33.2	39.2	92.6	1958.7	3420.1	4105.0
82.5°	0.0	0.0	14.2	21.4	20.2	22.6	29.7	58.2	883.2	2235.3	2519.1
85°	0.0	0.0	4.7	16.6	14.2	10.7	20.2	20.2	193.5	1131.3	1411.5
87.5°	0.0	0.0	0.0	1.2	7.1	4.7	8.3	2.4	1.2	84.3	341.9
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-SA7B-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8162.6	8162.6	8162.6	8162.6	8162.6	8162.6	8162.6	8162.6	8162.6	8162.6
2.5°	9227.4	9315.3	9463.7	9533.7	9499.3	9353.3	9178.8	9000.7	8896.2	8937.8
5°	9794.9	10247.2	10508.3	10595.0	10450.2	10122.5	9694.0	9128.9	8928.3	8873.7
7.5°	9794.9	10646.0	11185.0	11280.0	10957.1	10314.8	9511.2	8629.1	8335.9	8229.1
10°	9450.6	10609.2	11360.7	11511.4	11060.3	10100.0	9023.3	8016.6	7668.8	7558.4
12.5°	9062.4	10310.1	11101.9	11309.6	10939.3	9886.3	8684.9	7602.3	7192.7	7096.6
15°	8823.8	9942.1	10597.4	10748.1	10591.4	9761.6	8604.2	7477.6	6995.7	6903.1
17.5°	8909.3	9657.2	9893.4	9981.3	10086.9	9717.7	8823.8	7750.7	7140.5	7052.6
20°	9231.0	9356.8	9234.6	9345.0	9629.9	9760.5	9347.3	8410.7	7678.3	7560.7
22.5°	9777.1	9201.3	8858.2	8902.2	9248.8	9901.7	10147.5	9353.3	8508.0	8360.8
25°	10413.4	9327.2	8649.3	8610.1	8966.3	10088.1	10878.7	10378.9	9489.8	9327.2
27.5°	11213.5	9609.7	8606.6	8567.4	8867.7	10262.6	11486.5	11392.7	10523.8	10246.0
30°	11830.8	9887.5	8733.6	8643.4	8966.3	10383.7	11974.4	12253.4	11347.6	11163.6
32.5°	12273.6	10215.1	8940.2	8809.6	9244.1	10592.6	12350.7	13041.6	12109.8	11830.8
35°	12610.7	10571.3	9273.7	9058.9	9626.3	10909.6	12703.3	13880.9	12920.6	12615.5
37.5°	12926.5	11071.0	9794.9	9538.5	10225.8	11420.0	13076.1	14833.0	13827.5	13463.1
40°	13366.9	11637.3	10598.6	10370.6	11233.7	12115.7	13541.4	15825.4	14859.1	14400.9
42.5°	13807.3	12245.1	11421.2	11483.0	12490.8	12960.9	14142.1	16874.8	15877.7	15388.6
45°	14209.8	12871.9	12592.9	12877.8	13657.7	13888.0	14739.2	17481.4	16690.8	16218.4
47.5°	14568.3	13655.4	13757.5	14516.0	14984.9	14727.3	15185.6	18005.0	17296.3	16879.6
50°	14984.9	14669.2	15292.4	16365.6	16512.8	15487.1	15591.6	18624.6	18003.8	17669.0
52.5°	15440.8	15737.6	16992.4	17938.5	17891.0	16312.1	15999.9	19319.1	18973.6	18659.1
55°	15958.4	16600.6	18489.3	19410.5	19370.1	17233.3	16676.6	20177.4	20189.3	19904.3
57.5°	16726.4	17343.7	19505.5	20601.2	20668.8	18297.0	17823.3	21138.9	21288.5	21098.6
59°	17277.3	17825.7	19907.9	21098.6	21374.0	19119.7	18661.4	21696.9	21598.4	21425.0
60°	17685.6	18132.0	20107.3	21358.6	21783.5	19677.6	19279.9	22024.5	21635.2	21425.0
62.5°	18695.9	18799.1	20467.0	21653.0	22254.8	20917.0	21020.2	22582.5	21379.9	21036.9
65°	19167.1	19220.6	20462.3	21125.9	21799.0	21882.1	22599.1	22599.1	20756.7	20229.6
67.5°	18970.1	18712.5	19447.3	19378.5	20050.4	21308.7	23192.6	21770.5	19564.8	18883.4
70°	17367.5	16376.2	16049.8	16079.5	16593.5	18534.4	22017.4	19332.2	17309.3	16512.8
72.5°	14450.7	12073.0	11266.9	12186.9	12321.1	14244.2	18763.5	14558.8	12765.0	12018.3
75°	11623.0	8510.4	7199.8	8170.9	8398.8	10424.0	14514.8	9067.2	7456.3	6874.6
77.5°	8350.2	6108.9	5166.3	5098.7	5393.1	6611.0	10299.4	4563.3	3805.9	3551.8
80°	4743.7	4020.8	4329.4	4084.9	4233.2	4133.5	4893.3	2001.5	1639.4	1532.6
82.5°	2863.3	2376.6	2573.7	2142.7	2711.4	2361.2	1885.1	641.0	556.8	529.5
85°	1862.6	1298.7	676.7	453.5	934.3	1508.8	421.4	174.5	134.1	106.8
87.5°	642.2	331.2	33.2	14.2	99.7	281.3	15.4	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

(END OF REPORT)