

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: P324398

Luminaire Tested: **GAN-SA4B-727-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324398
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-SA4B-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 14292 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

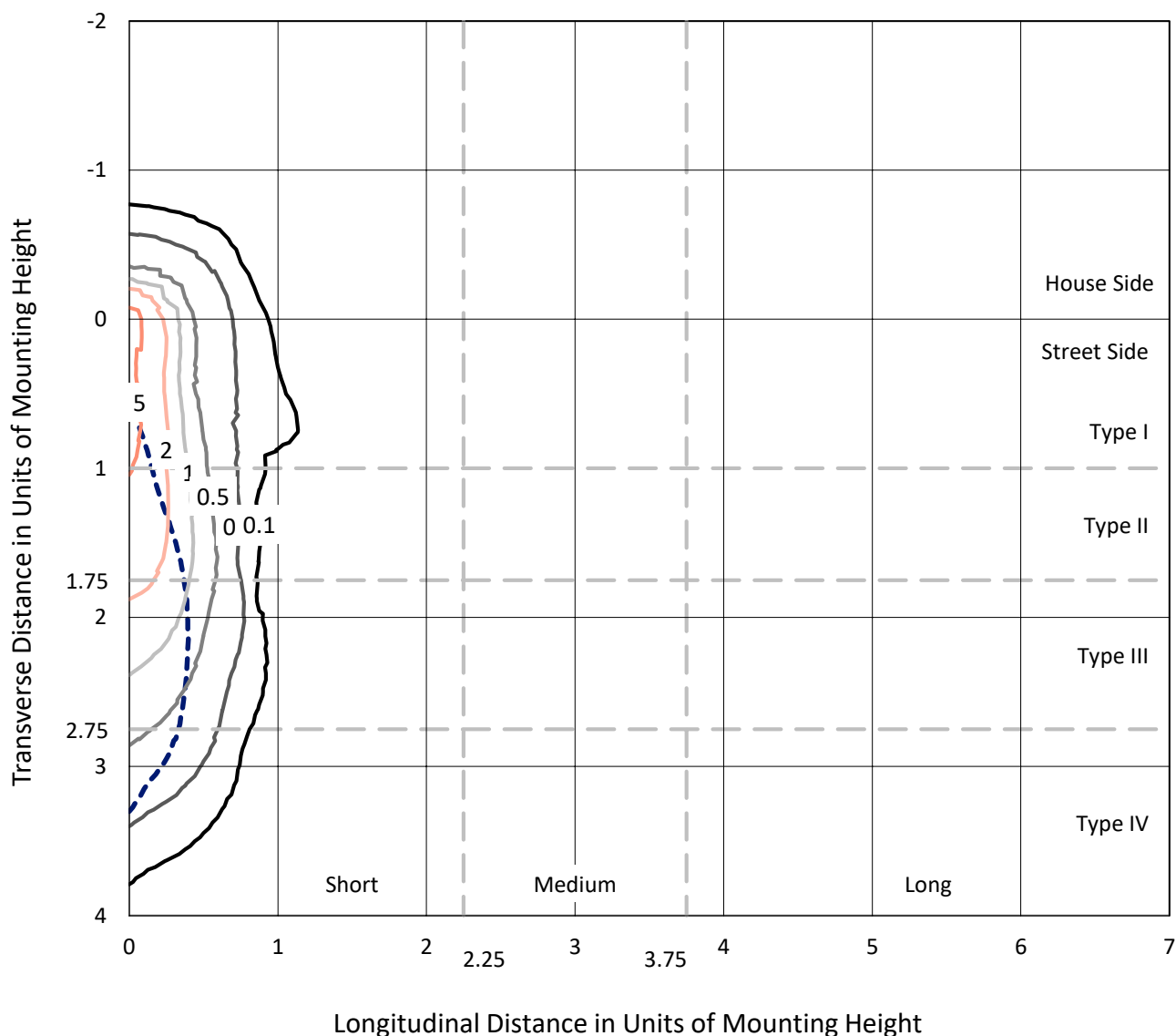
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

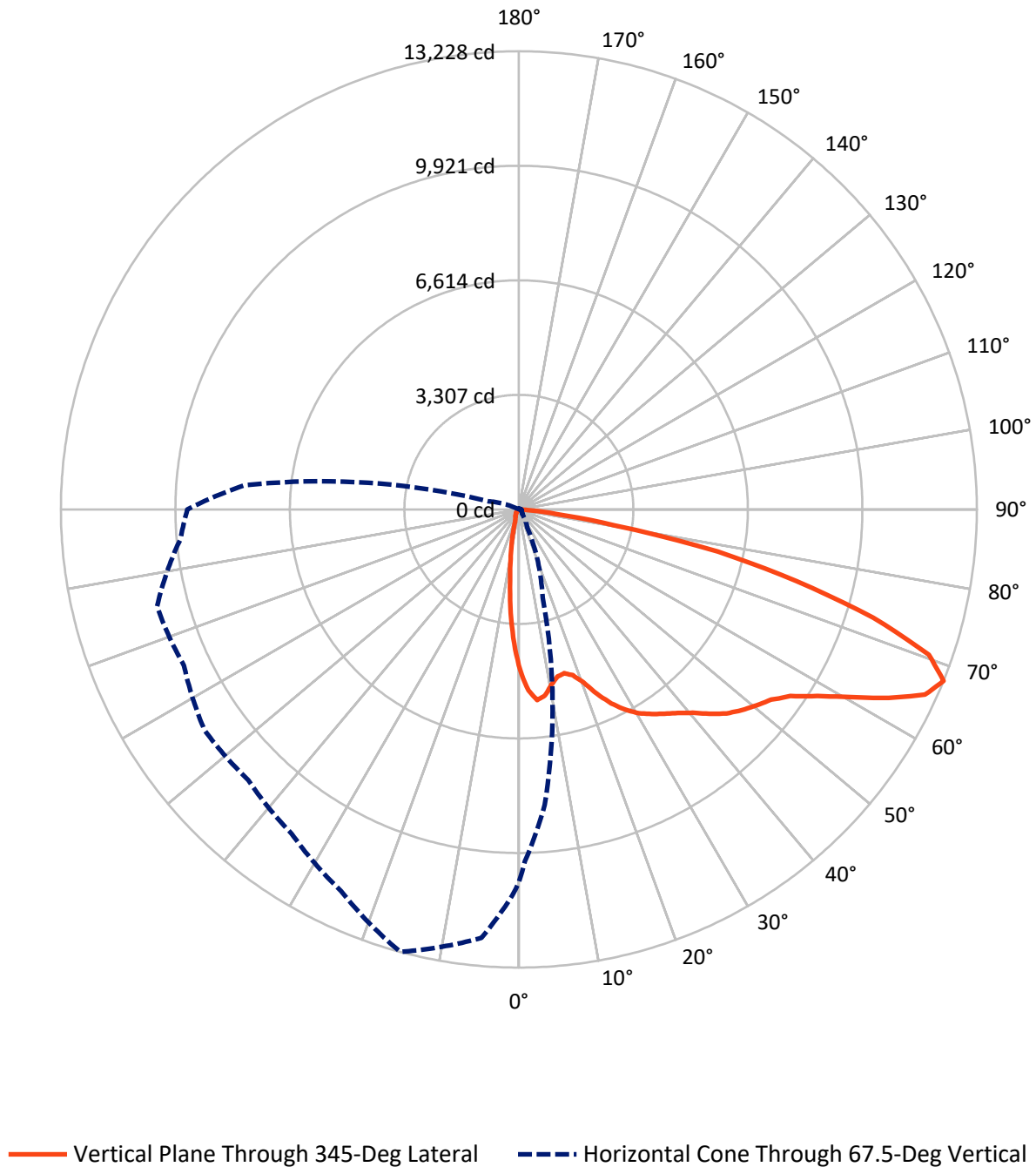
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	1729.8	0.0	1729.8
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	12562.2	0.0	12562.2
	% Fixture	87.9	0.0	87.9
Total	Lumens	14292.0	0.0	14292.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.3	2.5
10°-20°	711.2	5.0
20°-30°	1009.9	7.1
30°-40°	1491.7	10.4
40°-50°	2151.4	15.1
50°-60°	3020.1	21.1
60°-70°	3520.6	24.6
70°-80°	1799.8	12.6
80°-90°	229.9	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°	14292.0	100.0
0°-180°	14292.0	100.0

Coefficient of Utilization



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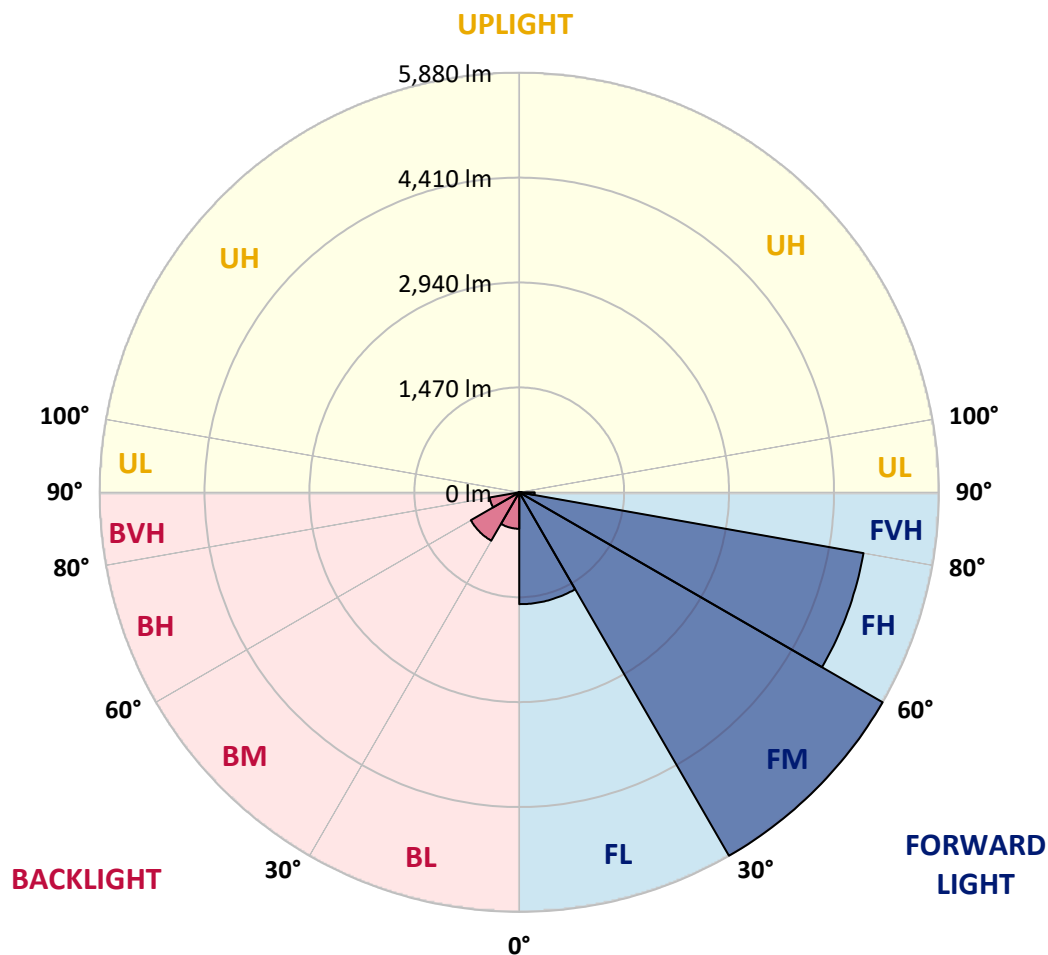
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1567.6	11.0			
FM	(30°-60°)	5880.0	41.1			
FH	(60°-80°)	4898.8	34.3			G2/5000
FVH	(80°-90°)	215.9	1.5			G2/225
BL	(0°-30°)	510.9	3.6	B2/1000		
BM	(30°-60°)	783.3	5.5	B1/1000		
BH	(60°-80°)	421.6	2.9	B1/500		G1/500
BVH	(80°-90°)	14.0	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-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6
2.5°	5097.7	5058.5	5015.1	4873.6	4742.3	4591.9	4469.4	4384.1	4277.1	4138.3	4103.1
5°	5061.2	5019.2	4883.1	4568.2	4292.7	4024.6	3765.9	3614.2	3426.0	3235.1	3187.7
7.5°	4693.5	4649.5	4453.1	4021.8	3650.8	3263.5	2927.7	2719.8	2507.2	2332.5	2239.8
10°	4311.0	4262.9	4042.2	3518.8	3061.7	2711.7	2465.2	2266.9	2065.8	1878.9	1729.9
12.5°	4047.6	3984.6	3744.9	3151.8	2753.7	2516.0	2285.8	2048.2	1776.0	1575.6	1411.7
15°	3937.2	3865.4	3612.2	3010.3	2644.7	2365.7	2065.8	1773.9	1455.0	1225.5	1075.2
17.5°	4022.5	3929.1	3657.6	3000.8	2507.9	2128.1	1748.9	1406.3	1060.3	828.1	721.1
20°	4312.3	4189.8	3845.1	2998.1	2342.0	1845.7	1365.0	977.7	698.7	562.0	505.8
22.5°	4768.7	4606.8	4114.6	3019.8	2170.7	1549.2	985.8	664.2	524.7	453.6	420.5
25°	5319.8	5132.3	4502.6	3096.3	2020.4	1260.7	716.3	524.7	442.8	390.7	362.9
27.5°	5843.9	5691.5	4992.8	3206.6	1903.9	1027.8	581.6	444.8	378.5	344.0	321.6
30°	6367.2	6175.6	5495.8	3338.0	1763.8	870.0	511.2	405.6	339.2	302.7	288.4
32.5°	6747.8	6588.7	5889.9	3432.8	1614.2	767.1	457.0	371.0	316.9	279.6	258.6
35°	7195.3	7015.2	6227.8	3453.8	1518.0	702.1	411.0	333.8	274.9	241.7	219.4
37.5°	7678.7	7454.6	6617.8	3407.7	1442.9	670.3	376.5	316.9	256.6	222.8	199.1
40°	8213.6	7960.4	6992.2	3341.4	1369.1	659.5	350.0	304.0	242.4	207.9	183.5
42.5°	8777.0	8478.4	7316.5	3271.6	1322.3	622.2	347.3	291.1	231.6	194.3	169.9
45°	9250.2	8947.6	7649.6	3248.6	1289.2	581.6	358.9	282.3	224.1	183.5	159.8
47.5°	9627.4	9341.0	7990.9	3300.1	1270.2	544.4	327.0	293.9	220.1	174.0	151.0
50°	10077.6	9753.3	8471.6	3453.8	1242.4	507.1	295.9	336.5	220.1	167.9	143.5
52.5°	10642.3	10321.4	9007.9	3692.1	1186.9	455.7	266.1	337.2	222.1	159.8	134.1
55°	11352.6	11119.7	9773.6	3953.5	1098.2	379.8	230.2	289.8	214.0	144.9	125.3
57.5°	12033.7	11843.5	10471.7	4132.2	979.7	296.6	200.4	233.6	195.7	127.3	111.7
59°	12219.9	12012.1	10727.6	4140.3	891.0	258.6	185.5	193.0	191.6	119.2	103.6
60°	12219.9	11999.2	10801.4	4097.0	826.7	237.7	176.0	172.0	199.7	113.7	98.9
62.5°	11998.5	11688.4	10561.7	3803.8	674.4	202.4	153.7	142.2	179.4	102.2	87.3
65°	11538.1	11086.5	9745.2	3273.7	601.2	185.5	132.7	116.5	124.6	90.1	76.5
67.5°	10770.3	10158.2	8567.8	2644.7	572.1	180.8	114.4	98.9	94.1	77.2	67.0
70°	9418.2	8739.1	7138.4	2079.3	547.1	178.7	96.1	83.3	75.8	65.0	56.9
72.5°	6854.7	6146.5	5067.9	1625.7	532.2	182.8	77.2	69.7	62.3	50.8	44.0
75°	3921.0	3457.2	2848.5	1073.8	453.6	174.7	59.6	58.2	44.7	36.6	30.5
77.5°	2025.8	1964.2	1706.9	412.3	217.3	76.5	39.3	33.9	26.4	22.3	18.3
80°	874.1	864.6	748.2	119.2	57.6	42.7	22.3	14.2	12.2	9.5	7.4
82.5°	302.0	302.0	266.1	39.9	25.7	21.0	2.7	0.0	0.0	0.0	0.0
85°	60.9	68.4	48.1	0.0	8.8	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°	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6
2.5°	4060.4	3978.5	3973.1	3921.6	3857.3	3828.2	3811.3	3841.1	3877.6	3881.7	3936.5
5°	3151.8	3065.8	3101.7	3010.3	3028.6	3010.3	2980.5	2985.9	3002.2	2951.4	3014.4
7.5°	2213.4	2148.4	2189.7	2165.3	2197.8	2210.7	2192.4	2165.3	2085.4	2075.9	2130.8
10°	1668.3	1594.5	1550.5	1504.5	1514.6	1535.6	1528.8	1509.2	1458.4	1461.1	1513.9
12.5°	1340.6	1258.0	1170.7	1057.6	1029.8	1045.4	1029.8	1018.3	969.6	973.6	1020.4
15°	1017.0	949.3	857.9	767.1	717.7	722.4	679.1	648.6	618.2	581.6	610.0
17.5°	686.6	645.3	618.2	591.1	532.2	518.6	463.8	404.9	381.9	364.9	377.1
20°	486.1	463.8	453.0	451.6	417.8	400.8	347.3	310.8	299.3	295.9	303.3
22.5°	406.2	390.0	374.4	365.6	348.7	329.1	288.4	270.2	262.0	258.0	263.4
25°	353.4	341.2	325.0	310.1	303.3	282.3	253.2	239.7	234.3	230.2	232.9
27.5°	314.2	303.3	284.4	274.9	269.5	251.2	226.1	215.3	210.6	209.2	208.5
30°	283.0	272.9	255.3	244.4	234.9	218.7	203.8	193.0	188.2	186.9	185.5
32.5°	251.9	243.7	232.2	221.4	211.2	196.4	183.5	174.7	167.2	165.9	165.2
35°	212.6	204.5	198.4	197.7	188.2	174.0	164.5	153.0	146.9	144.9	145.6
37.5°	188.9	178.1	164.5	169.3	166.6	156.4	143.5	132.0	125.9	124.6	124.6
40°	174.0	162.5	146.9	138.8	146.9	144.9	124.6	113.1	107.0	106.3	104.9
42.5°	159.8	148.3	130.7	117.1	121.2	127.3	107.7	96.8	90.7	89.4	87.3
45°	149.6	137.4	117.8	102.2	94.1	107.0	92.1	78.5	75.2	72.4	71.1
47.5°	140.2	128.6	106.3	88.7	75.2	77.2	73.8	64.3	60.3	57.6	56.9
50°	132.0	119.8	96.1	75.8	62.3	56.9	59.6	50.8	47.4	44.7	43.3
52.5°	122.6	111.0	85.3	65.7	52.1	44.7	45.4	39.9	36.6	34.5	33.9
55°	115.1	103.6	76.5	57.6	46.0	36.6	32.5	31.1	29.1	27.8	27.1
57.5°	104.9	94.1	67.7	48.7	39.3	29.8	25.1	25.1	24.4	23.0	22.3
59°	98.9	89.4	62.3	44.0	35.9	25.7	22.3	23.0	22.3	21.0	20.3
60°	94.1	85.3	58.2	40.6	33.9	23.7	20.3	21.7	21.0	19.6	19.0
62.5°	83.3	77.2	50.1	33.9	29.8	19.0	16.9	18.3	18.3	17.6	16.9
65°	73.1	66.4	42.7	28.4	27.8	16.2	13.5	16.2	16.9	15.6	14.2
67.5°	63.6	56.9	37.2	23.0	25.7	12.9	10.2	13.5	18.3	14.2	12.9
70°	54.2	47.4	29.1	18.3	27.1	8.8	8.1	12.2	21.7	15.6	12.2
72.5°	42.0	36.6	20.3	13.5	29.1	6.1	6.1	10.2	24.4	16.9	11.5
75°	29.1	23.7	12.2	8.1	23.7	4.1	4.1	9.5	23.0	15.6	10.8
77.5°	16.9	12.9	4.1	0.7	12.2	0.0	0.7	6.8	16.2	9.5	4.7
80°	6.1	2.7	0.0	0.0	7.4	0.0	0.0	0.0	1.4	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°	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6
2.5°	3950.8	4042.2	4124.1	4248.0	4394.9	4564.2	4709.8	4866.2	5013.1	5074.0	5116.0
5°	3027.2	3140.3	3272.3	3454.5	3696.8	3995.4	4275.1	4591.3	4931.2	5101.1	5260.9
7.5°	2140.2	2255.3	2419.2	2612.8	2906.0	3261.5	3627.1	4063.8	4524.2	4793.0	5057.8
10°	1539.0	1680.5	1833.5	2098.3	2396.2	2733.4	3109.8	3597.3	4110.5	4408.5	4727.4
12.5°	1047.4	1208.6	1440.1	1736.7	2086.8	2417.2	2744.2	3209.4	3805.2	4100.4	4442.3
15°	628.3	717.7	962.8	1306.1	1735.4	2147.0	2505.2	2971.7	3606.8	3968.4	4323.8
17.5°	387.3	428.6	562.0	843.6	1294.6	1815.2	2306.1	2891.1	3635.2	4075.3	4455.9
20°	308.7	325.0	367.7	498.3	857.9	1449.6	2082.0	2874.9	3867.5	4409.1	4817.4
22.5°	268.1	283.7	312.1	362.2	539.6	1085.4	1869.4	2889.8	4200.6	4909.5	5386.2
25°	236.3	249.8	276.9	318.2	395.4	764.4	1641.9	2956.1	4634.6	5530.4	6036.8
27.5°	211.2	222.8	247.8	285.7	339.2	533.5	1383.9	3036.7	5149.2	6165.5	6665.2
30°	188.2	198.4	220.7	255.9	294.5	410.3	1100.9	3091.5	5664.4	6665.2	7114.1
32.5°	168.6	176.0	196.4	226.1	255.9	327.0	836.9	3082.7	6047.0	7080.9	7437.0
35°	148.3	155.7	173.3	199.1	222.8	270.2	658.1	2918.2	6380.1	7512.2	7806.7
37.5°	125.9	135.4	152.3	175.4	191.6	237.7	532.2	2719.8	6718.0	8005.1	8219.1
40°	107.0	116.5	131.4	156.4	166.6	225.5	409.0	2478.1	7097.8	8556.2	8671.3
42.5°	88.7	97.5	113.1	134.7	157.1	194.3	302.7	2201.9	7462.8	9027.5	9083.7
45°	71.8	80.6	96.8	118.5	167.9	161.1	234.3	1906.0	7757.3	9419.5	9437.8
47.5°	56.9	65.0	81.9	111.7	156.4	128.6	167.2	1673.7	8004.4	9725.6	9677.5
50°	44.0	50.8	68.4	128.0	136.8	106.3	126.6	1596.6	8225.8	9915.1	9790.6
52.5°	34.5	40.6	56.2	119.8	106.3	88.0	106.3	1669.0	8529.2	10072.2	9854.2
55°	27.8	33.9	44.0	68.4	72.4	74.5	90.7	1736.7	9052.5	10440.6	10230.0
57.5°	23.0	29.1	35.9	48.1	54.8	63.0	80.6	1744.2	9669.4	11052.6	10853.6
59°	21.0	26.4	32.5	42.7	48.1	57.6	75.8	1703.5	9886.7	11275.4	11175.9
60°	19.6	25.1	30.5	39.3	44.7	54.2	73.1	1664.9	9896.2	11267.3	11313.3
62.5°	16.9	22.3	27.1	33.2	37.9	46.0	65.7	1522.1	9495.4	10898.3	11230.7
65°	14.9	19.6	24.4	28.4	32.5	41.3	59.6	1261.4	8810.8	10303.1	10665.3
67.5°	13.5	16.9	22.3	25.1	29.1	36.6	52.8	899.2	7955.7	9575.2	9810.2
70°	12.2	16.2	20.3	23.0	26.4	31.8	45.4	516.6	6718.0	8509.5	8676.8
72.5°	11.5	15.6	18.3	21.7	23.7	28.4	41.3	243.1	4919.0	6816.8	7253.5
75°	10.2	14.2	16.9	20.3	22.3	25.7	35.2	116.5	3271.6	4933.2	5429.5
77.5°	6.1	11.5	15.6	18.3	19.6	22.3	29.1	67.0	2088.1	3414.5	4021.8
80°	0.0	4.1	11.5	15.6	16.9	19.0	22.3	52.8	1117.2	1950.7	2341.3
82.5°	0.0	0.0	8.1	12.2	11.5	12.9	16.9	33.2	503.7	1274.9	1436.8
85°	0.0	0.0	2.7	9.5	8.1	6.1	11.5	11.5	110.4	645.3	805.0
87.5°	0.0	0.0	0.0	0.7	4.1	2.7	4.7	1.4	0.7	48.1	195.0
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-SA4B-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6	4655.6
2.5°	5262.9	5313.0	5397.7	5437.6	5418.0	5334.7	5235.2	5133.6	5074.0	5097.7
5°	5586.6	5844.5	5993.5	6042.9	5960.3	5773.4	5529.0	5206.7	5092.3	5061.2
7.5°	5586.6	6072.0	6379.4	6433.6	6249.4	5883.1	5424.8	4921.7	4754.4	4693.5
10°	5390.2	6051.1	6479.6	6565.6	6308.3	5760.6	5146.5	4572.3	4373.9	4311.0
12.5°	5168.8	5880.4	6332.0	6450.5	6239.3	5638.7	4953.5	4336.0	4102.4	4047.6
15°	5032.7	5670.5	6044.3	6130.3	6040.9	5567.6	4907.5	4264.9	3990.0	3937.2
17.5°	5081.5	5508.0	5642.8	5692.9	5753.1	5542.6	5032.7	4420.6	4072.6	4022.5
20°	5265.0	5336.7	5267.0	5330.0	5492.5	5566.9	5331.3	4797.1	4379.3	4312.3
22.5°	5576.4	5248.0	5052.4	5077.4	5275.1	5647.5	5787.7	5334.7	4852.6	4768.7
25°	5939.3	5319.8	4933.2	4910.9	5114.0	5753.8	6204.7	5919.7	5412.6	5319.8
27.5°	6395.7	5481.0	4908.8	4886.5	5057.8	5853.3	6551.4	6497.9	6002.3	5843.9
30°	6747.8	5639.4	4981.3	4929.8	5114.0	5922.4	6829.7	6988.8	6472.2	6367.2
32.5°	7000.3	5826.3	5099.1	5024.6	5272.4	6041.6	7044.3	7438.4	6906.9	6747.8
35°	7192.6	6029.4	5289.3	5166.8	5490.4	6222.4	7245.4	7917.1	7369.3	7195.3
37.5°	7372.7	6314.4	5586.6	5440.3	5832.4	6513.5	7458.0	8460.1	7886.6	7678.7
40°	7623.9	6637.4	6045.0	5915.0	6407.2	6910.3	7723.4	9026.1	8475.0	8213.6
42.5°	7875.1	6984.1	6514.2	6549.4	7124.2	7392.3	8066.0	9624.7	9055.9	8777.0
45°	8104.6	7341.6	7182.4	7344.9	7789.8	7921.1	8406.6	9970.7	9519.7	9250.2
47.5°	8309.1	7788.4	7846.7	8279.3	8546.8	8399.8	8661.2	10269.3	9865.0	9627.4
50°	8546.8	8366.7	8722.1	9334.2	9418.2	8833.2	8892.8	10622.7	10268.6	10077.6
52.5°	8806.8	8976.0	9691.7	10231.3	10204.3	9303.7	9125.7	11018.8	10821.7	10642.3
55°	9102.0	9468.3	10545.5	11070.9	11047.9	9829.2	9511.6	11508.3	11515.1	11352.6
57.5°	9540.0	9892.1	11125.1	11750.0	11788.6	10435.8	10165.7	12056.7	12142.1	12033.7
59°	9854.2	10167.0	11354.6	12033.7	12190.8	10905.0	10643.7	12375.0	12318.8	12219.9
60°	10087.1	10341.7	11468.4	12182.0	12424.4	11223.3	10996.4	12561.8	12339.8	12219.9
62.5°	10663.3	10722.2	11673.5	12349.9	12693.2	11930.1	11989.0	12880.1	12194.2	11998.5
65°	10932.1	10962.6	11670.8	12049.3	12433.2	12480.6	12889.5	12889.5	11838.7	11538.1
67.5°	10819.7	10672.8	11091.9	11052.6	11435.9	12153.6	13228.1	12416.9	11158.9	10770.3
70°	9905.7	9340.3	9154.1	9171.0	9464.2	10571.2	12557.8	11026.2	9872.5	9418.2
72.5°	8242.1	6885.9	6426.2	6950.9	7027.4	8124.3	10701.9	8303.7	7280.6	6854.7
75°	6629.3	4854.0	4106.5	4660.3	4790.3	5945.4	8278.6	5171.5	4252.7	3921.0
77.5°	4762.6	3484.2	2946.6	2908.1	3076.0	3770.7	5874.3	2602.7	2170.7	2025.8
80°	2705.6	2293.3	2469.3	2329.8	2414.5	2357.6	2790.9	1141.6	935.0	874.1
82.5°	1633.1	1355.5	1467.9	1222.1	1546.4	1346.7	1075.2	365.6	317.5	302.0
85°	1062.3	740.7	385.9	258.6	532.9	860.6	240.4	99.5	76.5	60.9
87.5°	366.3	188.9	19.0	8.1	56.9	160.5	8.8	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

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