

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: P324409

Luminaire Tested: **GAN-SA5C-727-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324409
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-SA5C-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA 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: 21916 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

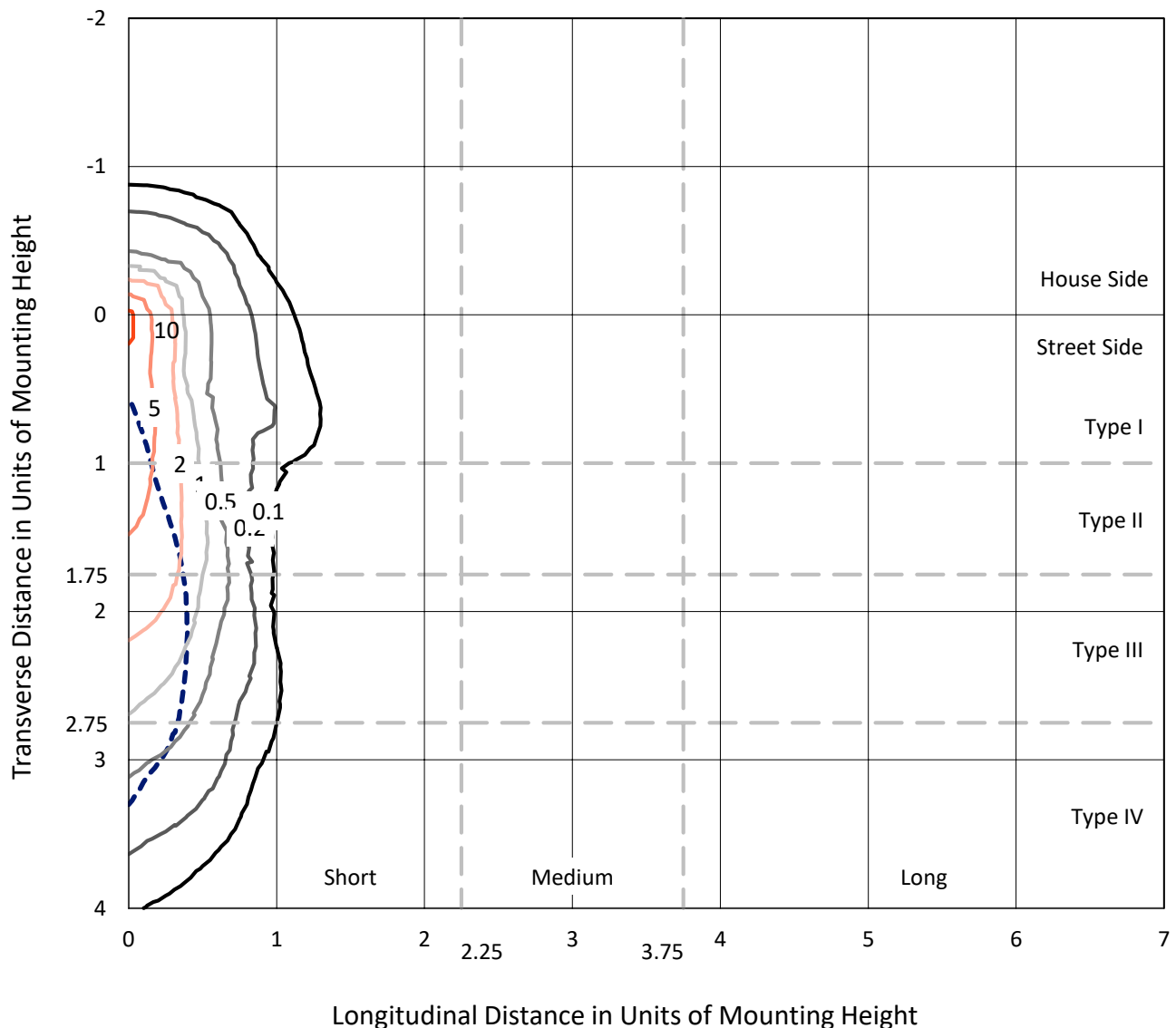
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

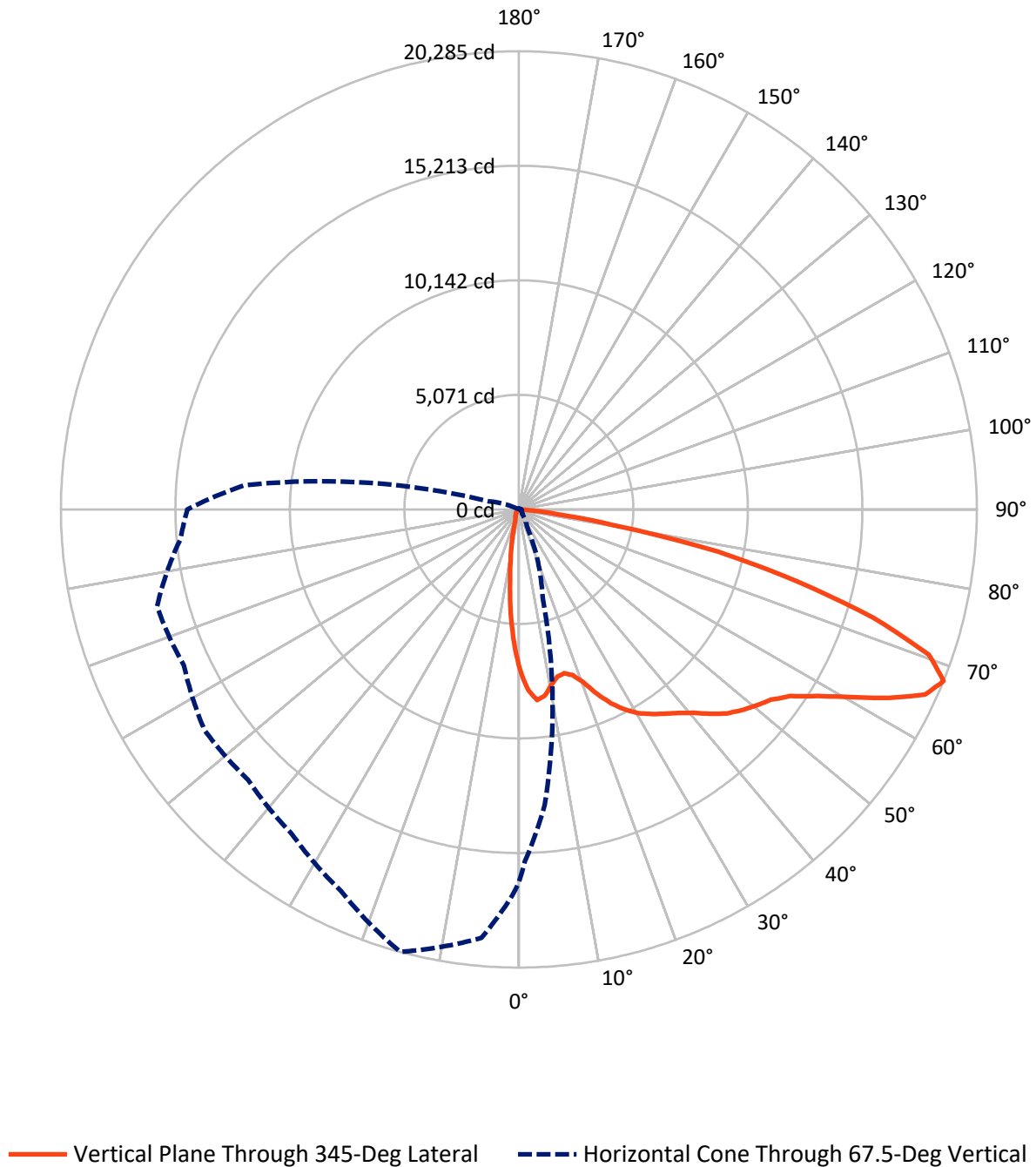
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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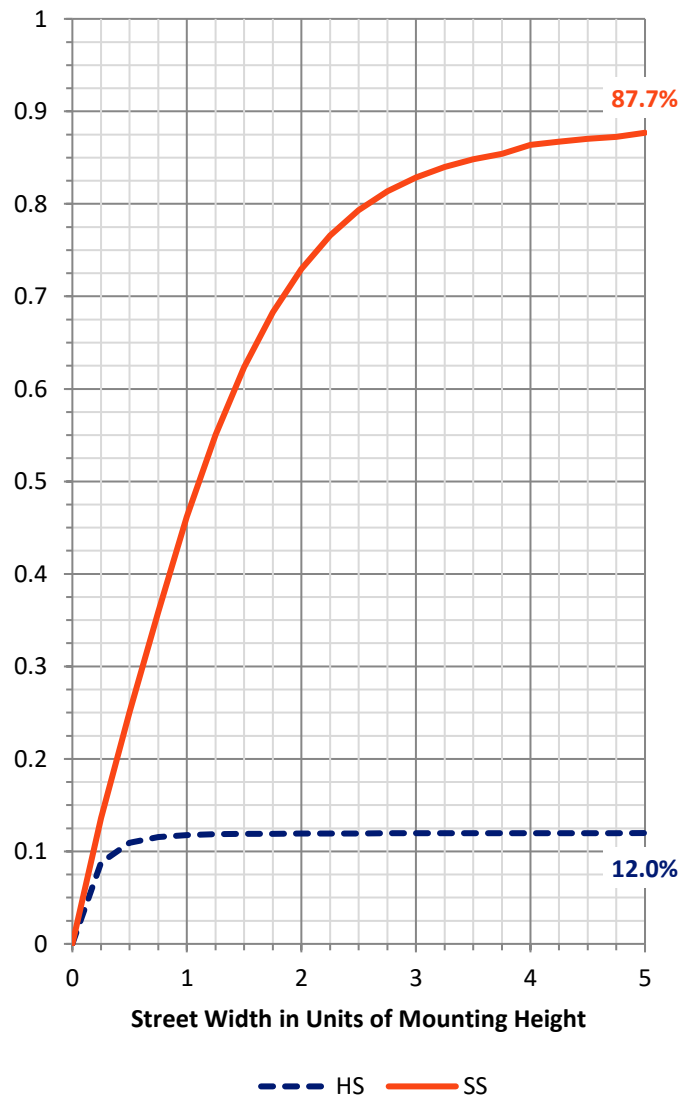
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2652.6	0.0	2652.6
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	19263.4	0.0	19263.4
	% Fixture	87.9	0.0	87.9
Total	Lumens	21916.0	0.0	21916.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	547.9	2.5
10°-20°	1090.6	5.0
20°-30°	1548.7	7.1
30°-40°	2287.5	10.4
40°-50°	3299.1	15.1
50°-60°	4631.2	21.1
60°-70°	5398.6	24.6
70°-80°	2759.9	12.6
80°-90°	352.5	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°	21916.0	100.0
0°-180°	21916.0	100.0

Coefficient of Utilization



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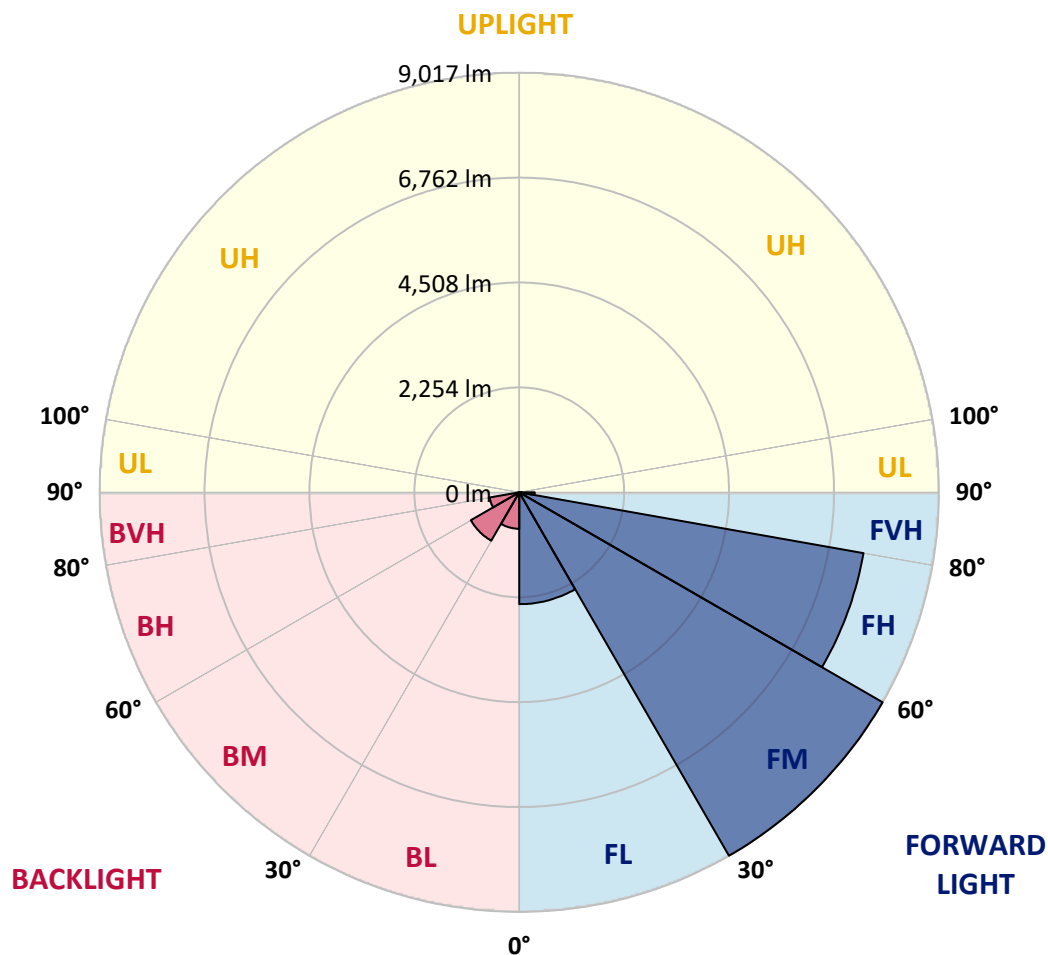
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2403.8	11.0			
FM	(30°-60°)	9016.6	41.1			
FH	(60°-80°)	7512.0	34.3			G4/12000
FVH	(80°-90°)	331.1	1.5			G3/500
BL	(0°-30°)	783.5	3.6	B2/1000		
BM	(30°-60°)	1201.2	5.5	B2/2500		
BH	(60°-80°)	646.5	2.9	B2/1000		G2/1000
BVH	(80°-90°)	21.4	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°	7139.1	7139.1	7139.1	7139.1	7139.1	7139.1	7139.1	7139.1	7139.1	7139.1	7139.1
2.5°	7817.1	7756.9	7690.4	7473.4	7272.0	7041.5	6853.6	6722.8	6558.7	6345.9	6291.9
5°	7761.0	7696.6	7488.0	7005.2	6582.6	6171.4	5774.8	5542.2	5253.6	4960.8	4888.1
7.5°	7197.2	7129.8	6828.7	6167.3	5598.3	5004.4	4489.4	4170.7	3844.7	3576.8	3434.6
10°	6610.6	6536.9	6198.4	5395.9	4695.0	4158.2	3780.3	3476.1	3167.7	2881.2	2652.8
12.5°	6206.7	6110.2	5742.6	4833.1	4222.6	3858.2	3505.2	3140.7	2723.4	2416.0	2164.8
15°	6037.5	5927.4	5539.1	4616.1	4055.5	3627.7	3167.7	2720.2	2231.2	1879.3	1648.8
17.5°	6168.3	6025.0	5608.7	4601.6	3845.7	3263.3	2681.8	2156.5	1625.9	1269.8	1105.8
20°	6612.7	6424.8	5896.3	4597.4	3591.4	2830.3	2093.1	1499.3	1071.5	861.8	775.6
22.5°	7312.5	7064.3	6309.5	4630.7	3328.7	2375.5	1511.7	1018.5	804.7	695.6	644.8
25°	8157.6	7870.0	6904.4	4748.0	3098.2	1933.2	1098.5	804.7	679.0	599.1	556.5
27.5°	8961.2	8727.6	7656.2	4917.2	2919.6	1576.1	891.9	682.1	580.4	527.4	493.2
30°	9763.8	9470.0	8427.6	5118.6	2704.7	1334.2	783.9	621.9	520.2	464.1	442.3
32.5°	10347.3	10103.3	9031.8	5264.0	2475.2	1176.4	700.8	569.0	485.9	428.8	396.6
35°	11033.6	10757.4	9549.9	5296.2	2327.8	1076.7	630.2	511.9	421.5	370.7	336.4
37.5°	11774.9	11431.3	10148.0	5225.6	2212.5	1027.9	577.3	485.9	393.5	341.6	305.2
40°	12595.2	12206.9	10722.1	5123.8	2099.4	1011.3	536.8	466.2	371.7	318.7	281.4
42.5°	13459.0	13001.1	11219.5	5016.9	2027.7	954.2	532.6	446.5	355.1	298.0	260.6
45°	14184.7	13720.6	11730.3	4981.6	1976.9	891.9	550.3	433.0	343.7	281.4	245.0
47.5°	14763.1	14323.9	12253.6	5060.5	1947.8	834.8	501.5	450.6	337.4	266.8	231.5
50°	15453.5	14956.2	12990.7	5296.2	1905.2	777.7	453.7	516.0	337.4	257.5	220.1
52.5°	16319.4	15827.3	13813.1	5661.6	1820.1	698.8	408.0	517.1	340.6	245.0	205.6
55°	17408.6	17051.4	14987.3	6062.4	1684.1	582.5	353.0	444.4	328.1	222.2	192.1
57.5°	18453.0	18161.3	16057.8	6336.5	1502.4	454.8	307.3	358.2	300.1	195.2	171.3
59°	18738.6	18419.8	16450.2	6349.0	1366.4	396.6	284.5	295.9	293.8	182.7	158.9
60°	18738.6	18400.1	16563.4	6282.5	1267.7	364.4	269.9	263.7	306.3	174.4	151.6
62.5°	18399.1	17923.5	16195.9	5833.0	1034.1	310.4	235.7	218.0	275.1	156.8	133.9
65°	17693.0	17000.5	14943.7	5020.0	922.0	284.5	203.5	178.6	191.0	138.1	117.3
67.5°	16515.6	15577.1	13138.2	4055.5	877.3	277.2	175.5	151.6	144.3	118.4	102.8
70°	14442.2	13400.9	10946.4	3188.5	838.9	274.1	147.4	127.7	116.3	99.7	87.2
72.5°	10511.4	9425.4	7771.4	2492.9	816.1	280.3	118.4	106.9	95.5	77.9	67.5
75°	6012.6	5301.4	4368.0	1646.7	695.6	267.9	91.4	89.3	68.5	56.1	46.7
77.5°	3106.5	3012.0	2617.5	632.3	333.3	117.3	60.2	51.9	40.5	34.3	28.0
80°	1340.4	1325.9	1147.3	182.7	88.3	65.4	34.3	21.8	18.7	14.5	11.4
82.5°	463.1	463.1	408.0	61.3	39.5	32.2	4.2	0.0	0.0	0.0	0.0
85°	93.4	104.9	73.7	0.0	13.5	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°	7139.1	7139.1	7139.1	7139.1	7139.1	7139.1	7139.1	7139.1	7139.1	7139.1	7139.1
2.5°	6226.5	6100.8	6092.5	6013.6	5915.0	5870.3	5844.4	5890.1	5946.1	5952.4	6036.5
5°	4833.1	4701.3	4756.3	4616.1	4644.2	4616.1	4570.4	4578.7	4603.7	4525.8	4622.3
7.5°	3394.1	3294.4	3357.7	3320.4	3370.2	3389.9	3361.9	3320.4	3197.9	3183.3	3267.4
10°	2558.3	2445.1	2377.6	2307.0	2322.6	2354.8	2344.4	2314.3	2236.4	2240.6	2321.6
12.5°	2055.8	1929.1	1795.2	1621.8	1579.2	1603.1	1579.2	1561.5	1486.8	1493.0	1564.7
15°	1559.5	1455.6	1315.5	1176.4	1100.6	1107.8	1041.4	994.7	947.9	891.9	935.5
17.5°	1052.8	989.5	947.9	906.4	816.1	795.3	711.2	620.9	585.6	559.6	578.3
20°	745.5	711.2	694.6	692.5	640.6	614.7	532.6	476.6	458.9	453.7	465.1
22.5°	623.0	598.0	574.2	560.7	534.7	504.6	442.3	414.3	401.8	395.6	403.9
25°	542.0	523.3	498.4	475.5	465.1	433.0	388.3	367.5	359.2	353.0	357.2
27.5°	481.8	465.1	436.1	421.5	413.2	385.2	346.8	330.2	322.9	320.8	319.8
30°	434.0	418.4	391.4	374.8	360.3	335.4	312.5	295.9	288.6	286.6	284.5
32.5°	386.2	373.8	356.1	339.5	323.9	301.1	281.4	267.9	256.5	254.4	253.3
35°	326.0	313.6	304.2	303.2	288.6	266.8	252.3	234.6	225.3	222.2	223.2
37.5°	289.7	273.1	252.3	259.6	255.4	239.8	220.1	202.5	193.1	191.0	191.0
40°	266.8	249.2	225.3	212.8	225.3	222.2	191.0	173.4	164.0	163.0	160.9
42.5°	245.0	227.4	200.4	179.6	185.8	195.2	165.1	148.5	139.1	137.1	133.9
45°	229.5	210.8	180.7	156.8	144.3	164.0	141.2	120.4	115.2	111.1	109.0
47.5°	214.9	197.3	163.0	136.0	115.2	118.4	113.2	98.6	92.4	88.3	87.2
50°	202.5	183.8	147.4	116.3	95.5	87.2	91.4	77.9	72.7	68.5	66.4
52.5°	187.9	170.3	130.8	100.7	79.9	68.5	69.6	61.3	56.1	53.0	51.9
55°	176.5	158.9	117.3	88.3	70.6	56.1	49.8	47.8	44.6	42.6	41.5
57.5°	160.9	144.3	103.8	74.8	60.2	45.7	38.4	38.4	37.4	35.3	34.3
59°	151.6	137.1	95.5	67.5	55.0	39.5	34.3	35.3	34.3	32.2	31.1
60°	144.3	130.8	89.3	62.3	51.9	36.3	31.1	33.2	32.2	30.1	29.1
62.5°	127.7	118.4	76.8	51.9	45.7	29.1	26.0	28.0	28.0	27.0	26.0
65°	112.1	101.7	65.4	43.6	42.6	24.9	20.8	24.9	26.0	23.9	21.8
67.5°	97.6	87.2	57.1	35.3	39.5	19.7	15.6	20.8	28.0	21.8	19.7
70°	83.1	72.7	44.6	28.0	41.5	13.5	12.5	18.7	33.2	23.9	18.7
72.5°	64.4	56.1	31.1	20.8	44.6	9.3	9.3	15.6	37.4	26.0	17.7
75°	44.6	36.3	18.7	12.5	36.3	6.2	6.2	14.5	35.3	23.9	16.6
77.5°	26.0	19.7	6.2	1.0	18.7	0.0	1.0	10.4	24.9	14.5	7.3
80°	9.3	4.2	0.0	0.0	11.4	0.0	0.0	0.0	2.1	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°	7139.1	7139.1	7139.1	7139.1	7139.1	7139.1	7139.1	7139.1	7139.1	7139.1	7139.1
2.5°	6058.3	6198.4	6324.1	6514.1	6739.4	6998.9	7222.2	7462.0	7687.3	7780.7	7845.1
5°	4642.1	4815.5	5017.9	5297.2	5668.9	6126.8	6555.6	7040.5	7561.7	7822.3	8067.3
7.5°	3281.9	3458.5	3709.7	4006.7	4456.2	5001.3	5562.0	6231.7	6937.7	7349.9	7755.8
10°	2360.0	2577.0	2811.6	3217.6	3674.4	4191.5	4768.7	5516.3	6303.3	6760.1	7249.2
12.5°	1606.2	1853.3	2208.4	2663.1	3199.9	3706.6	4208.1	4921.4	5835.0	6287.7	6812.0
15°	963.5	1100.6	1476.4	2002.8	2661.1	3292.3	3841.6	4556.9	5530.8	6085.3	6630.3
17.5°	593.9	657.2	861.8	1293.7	1985.2	2783.6	3536.3	4433.4	5574.4	6249.3	6832.8
20°	473.4	498.4	563.8	764.2	1315.5	2222.9	3192.7	4408.5	5930.6	6761.2	7387.2
22.5°	411.2	435.0	478.6	555.5	827.5	1664.3	2866.6	4431.3	6441.4	7528.4	8259.4
25°	362.4	383.1	424.6	488.0	606.3	1172.2	2517.8	4533.1	7106.9	8480.5	9257.2
27.5°	323.9	341.6	380.0	438.1	520.2	818.2	2122.2	4656.6	7896.0	9454.4	10220.7
30°	288.6	304.2	338.5	392.5	451.6	629.2	1688.2	4740.7	8686.1	10220.7	10909.0
32.5°	258.5	269.9	301.1	346.8	392.5	501.5	1283.3	4727.2	9272.7	10858.2	11404.3
35°	227.4	238.8	265.8	305.2	341.6	414.3	1009.2	4474.9	9783.6	11519.5	11971.2
37.5°	193.1	207.7	233.6	268.9	293.8	364.4	816.1	4170.7	10301.6	12275.4	12603.5
40°	164.0	178.6	201.4	239.8	255.4	345.7	627.1	3800.0	10884.1	13120.5	13297.0
42.5°	136.0	149.5	173.4	206.6	240.9	298.0	464.1	3376.4	11443.7	13843.2	13929.3
45°	110.1	123.6	148.5	181.7	257.5	247.1	359.2	2922.7	11895.4	14444.3	14472.3
47.5°	87.2	99.7	125.6	171.3	239.8	197.3	256.5	2566.6	12274.3	14913.6	14839.9
50°	67.5	77.9	104.9	196.2	209.7	163.0	194.2	2448.2	12613.9	15204.3	15013.3
52.5°	53.0	62.3	86.2	183.8	163.0	135.0	163.0	2559.3	13079.0	15445.2	15110.9
55°	42.6	51.9	67.5	104.9	111.1	114.2	139.1	2663.1	13881.6	16010.0	15687.1
57.5°	35.3	44.6	55.0	73.7	84.1	96.6	123.6	2674.6	14827.4	16948.6	16643.4
59°	32.2	40.5	49.8	65.4	73.7	88.3	116.3	2612.3	15160.7	17290.2	17137.6
60°	30.1	38.4	46.7	60.2	68.5	83.1	112.1	2553.1	15175.3	17277.7	17348.3
62.5°	26.0	34.3	41.5	50.9	58.1	70.6	100.7	2334.0	14560.6	16711.9	17221.7
65°	22.8	30.1	37.4	43.6	49.8	63.3	91.4	1934.3	13510.9	15799.2	16354.7
67.5°	20.8	26.0	34.3	38.4	44.6	56.1	81.0	1378.8	12199.6	14683.1	15043.4
70°	18.7	24.9	31.1	35.3	40.5	48.8	69.6	792.2	10301.6	13048.9	13305.3
72.5°	17.7	23.9	28.0	33.2	36.3	43.6	63.3	372.7	7543.0	10453.2	11122.9
75°	15.6	21.8	26.0	31.1	34.3	39.5	54.0	178.6	5016.9	7564.8	8325.8
77.5°	9.3	17.7	23.9	28.0	30.1	34.3	44.6	102.8	3202.0	5236.0	6167.3
80°	0.0	6.2	17.7	23.9	26.0	29.1	34.3	81.0	1713.1	2991.2	3590.3
82.5°	0.0	0.0	12.5	18.7	17.7	19.7	26.0	50.9	772.5	1955.0	2203.2
85°	0.0	0.0	4.2	14.5	12.5	9.3	17.7	17.7	169.2	989.5	1234.5
87.5°	0.0	0.0	0.0	1.0	6.2	4.2	7.3	2.1	1.0	73.7	299.0
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-SA5C-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7139.1	7139.1	7139.1	7139.1	7139.1	7139.1	7139.1	7139.1	7139.1	7139.1
2.5°	8070.4	8147.2	8277.0	8338.3	8308.2	8180.5	8027.8	7872.1	7780.7	7817.1
5°	8566.7	8962.3	9190.7	9266.5	9139.8	8853.3	8478.5	7984.2	7808.8	7761.0
7.5°	8566.7	9311.1	9782.5	9865.6	9583.2	9021.5	8318.6	7547.1	7290.7	7197.2
10°	8265.6	9279.0	9936.2	10068.0	9673.5	8833.5	7891.8	7011.4	6707.2	6610.6
12.5°	7926.1	9017.3	9709.8	9891.5	9567.6	8646.7	7595.9	6649.0	6290.8	6206.7
15°	7717.4	8695.5	9268.6	9400.4	9263.4	8537.6	7525.3	6540.0	6118.5	6037.5
17.5°	7792.2	8446.3	8652.9	8729.7	8822.1	8499.2	7717.4	6778.8	6245.2	6168.3
20°	8073.5	8183.6	8076.6	8173.2	8422.4	8536.6	8175.3	7356.1	6715.5	6612.7
22.5°	8551.1	8047.6	7747.5	7785.9	8089.1	8660.2	8875.1	8180.5	7441.2	7312.5
25°	9107.6	8157.6	7564.8	7530.5	7842.0	8823.2	9514.6	9077.5	8299.9	8157.6
27.5°	9807.4	8404.7	7527.4	7493.1	7755.8	8975.8	10046.2	9964.2	9204.2	8961.2
30°	10347.3	8647.7	7638.5	7559.6	7842.0	9081.7	10473.0	10717.0	9924.8	9763.8
32.5°	10734.6	8934.3	7819.2	7704.9	8085.0	9264.4	10802.1	11406.4	10591.3	10347.3
35°	11029.5	9245.7	8110.9	7923.0	8419.3	9541.6	11110.5	12140.4	11300.5	11033.6
37.5°	11305.6	9682.8	8566.7	8342.4	8943.6	9988.1	11436.5	12973.1	12093.7	11774.9
40°	11690.8	10178.1	9269.6	9070.3	9825.1	10596.5	11843.5	13841.1	12995.9	12595.2
42.5°	12076.0	10709.7	9989.1	10043.1	10924.6	11335.8	12368.8	14758.9	13886.8	13459.0
45°	12428.0	11257.9	11013.9	11263.1	11945.2	12146.6	12891.1	15289.5	14598.0	14184.7
47.5°	12741.6	11943.1	12032.4	12695.9	13106.0	12880.7	13281.5	15747.3	15127.5	14763.1
50°	13106.0	12829.8	13374.9	14313.5	14442.2	13545.2	13636.5	16289.3	15746.3	15453.5
52.5°	13504.7	13764.3	14861.7	15689.2	15647.7	14266.8	13993.7	16896.7	16594.6	16319.4
55°	13957.4	14519.1	16170.9	16976.6	16941.3	15072.5	14585.5	17647.4	17657.7	17408.6
57.5°	14629.1	15169.0	17059.7	18018.0	18077.2	16002.7	15588.5	18488.3	18619.2	18453.0
59°	15110.9	15590.6	17411.7	18453.0	18693.9	16722.3	16321.5	18976.3	18890.2	18738.6
60°	15468.0	15858.4	17586.1	18680.4	19052.1	17210.2	16862.4	19262.9	18922.3	18738.6
62.5°	16351.6	16441.9	17900.7	18937.9	19464.3	18294.2	18384.5	19750.9	18699.1	18399.1
65°	16763.8	16810.5	17896.5	18476.9	19065.6	19138.3	19765.4	19765.4	18154.0	17693.0
67.5°	16591.4	16366.1	17008.8	16948.6	17536.3	18636.8	20284.5	19040.7	17111.6	16515.6
70°	15189.8	14322.8	14037.3	14063.3	14512.8	16210.4	19256.7	16908.1	15138.9	14442.2
72.5°	12638.8	10559.1	9854.2	10658.8	10776.1	12458.1	16410.8	12733.3	11164.4	10511.4
75°	10165.6	7443.3	6297.1	7146.4	7345.7	9117.0	12694.8	7930.3	6521.3	6012.6
77.5°	7303.1	5342.9	4518.5	4459.3	4716.8	5782.1	9008.0	3991.1	3328.7	3106.5
80°	4148.9	3516.6	3786.5	3572.7	3702.4	3615.2	4279.7	1750.5	1433.8	1340.4
82.5°	2504.3	2078.6	2251.0	1874.1	2371.4	2065.1	1648.8	560.7	486.9	463.1
85°	1629.0	1135.9	591.8	396.6	817.1	1319.6	368.6	152.6	117.3	93.4
87.5°	561.7	289.7	29.1	12.5	87.2	246.1	13.5	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)