

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: P324098

Luminaire Tested: **GAN-SA4D-727-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324098
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-SA4D-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA 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: 19405 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

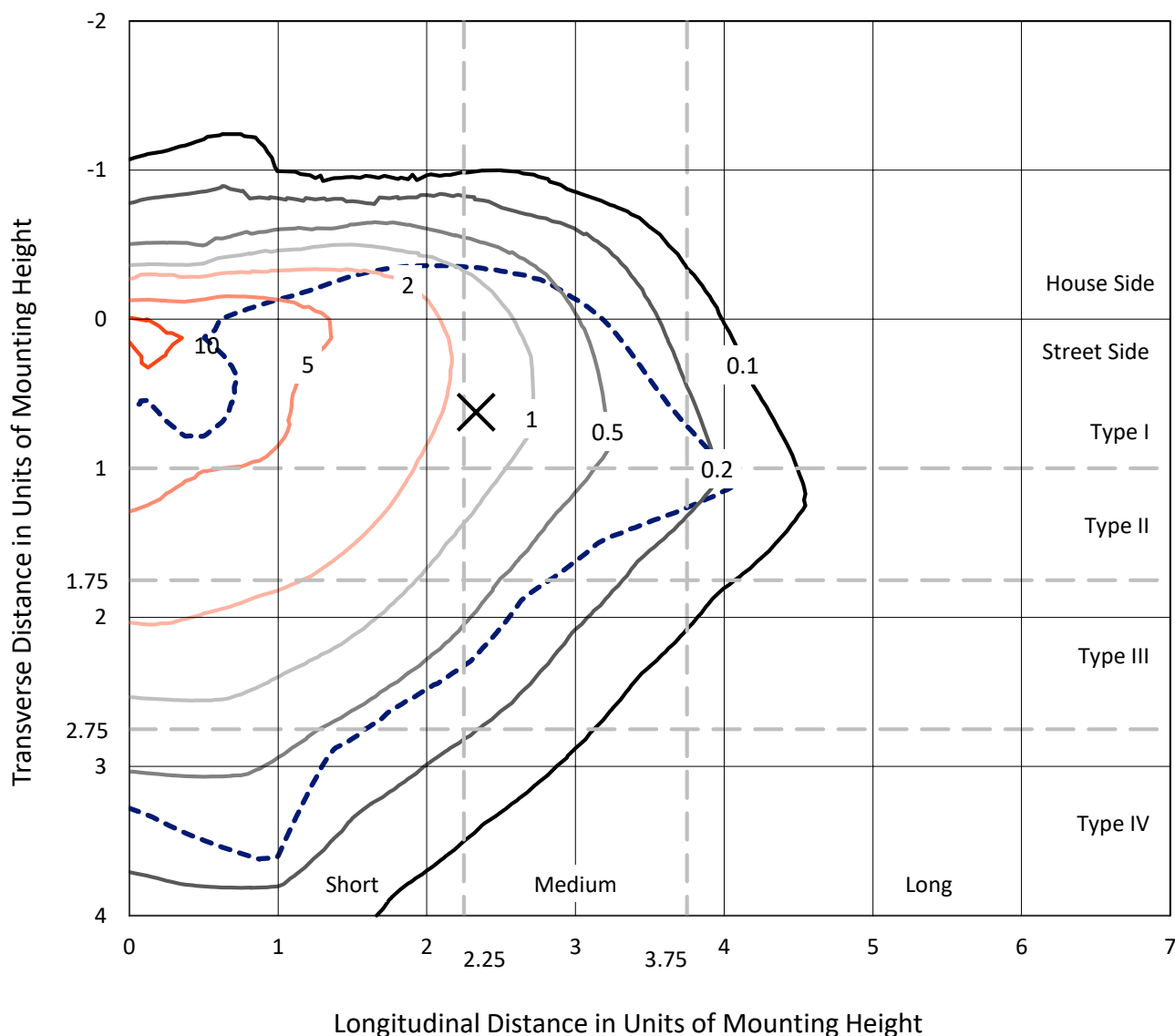
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

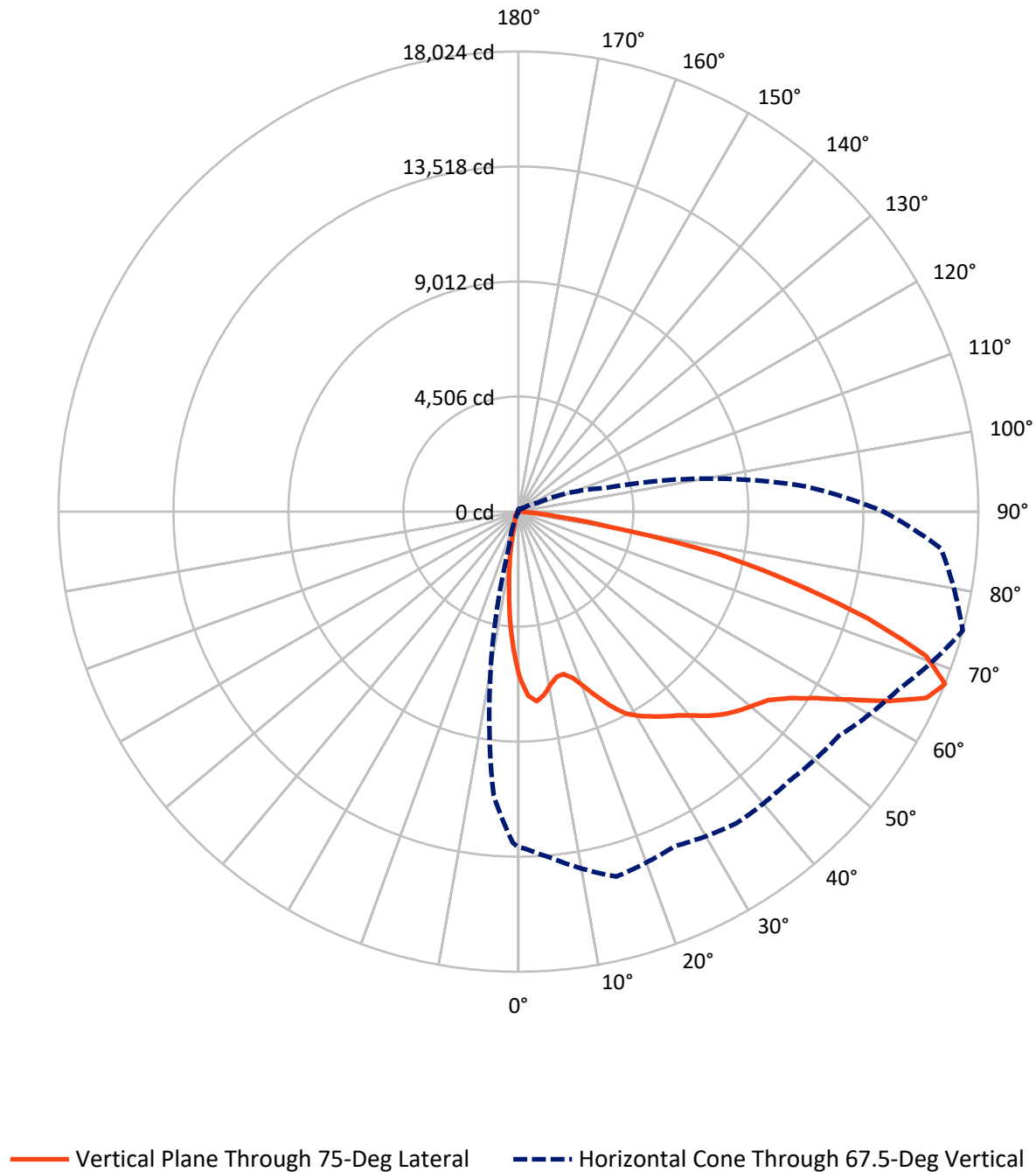
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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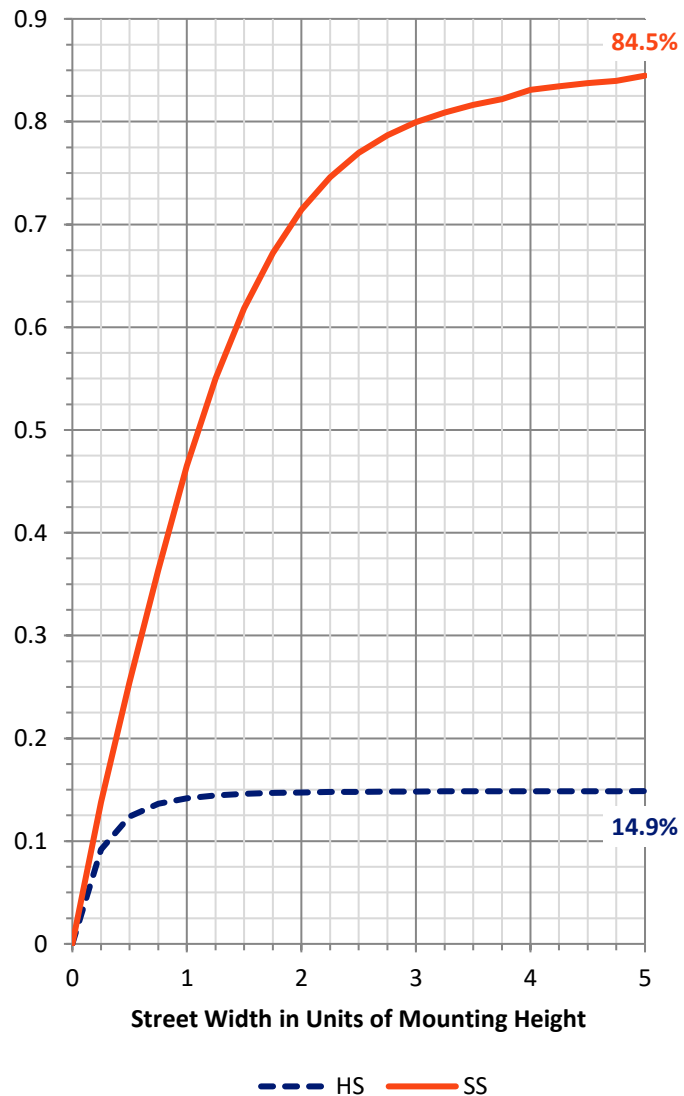
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2911.9	0.0	2911.9
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	16493.1	0.0	16493.1
	% Fixture	85.0	0.0	85.0
Total	Lumens	19405.0	0.0	19405.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.8	2.5
10°-20°	972.3	5.0
20°-30°	1375.6	7.1
30°-40°	2022.5	10.4
40°-50°	2907.0	15.0
50°-60°	4092.3	21.1
60°-70°	4779.4	24.6
70°-80°	2438.3	12.6
80°-90°	323.9	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°	19405.0	100.0
0°-180°	19405.0	100.0

Coefficient of Utilization



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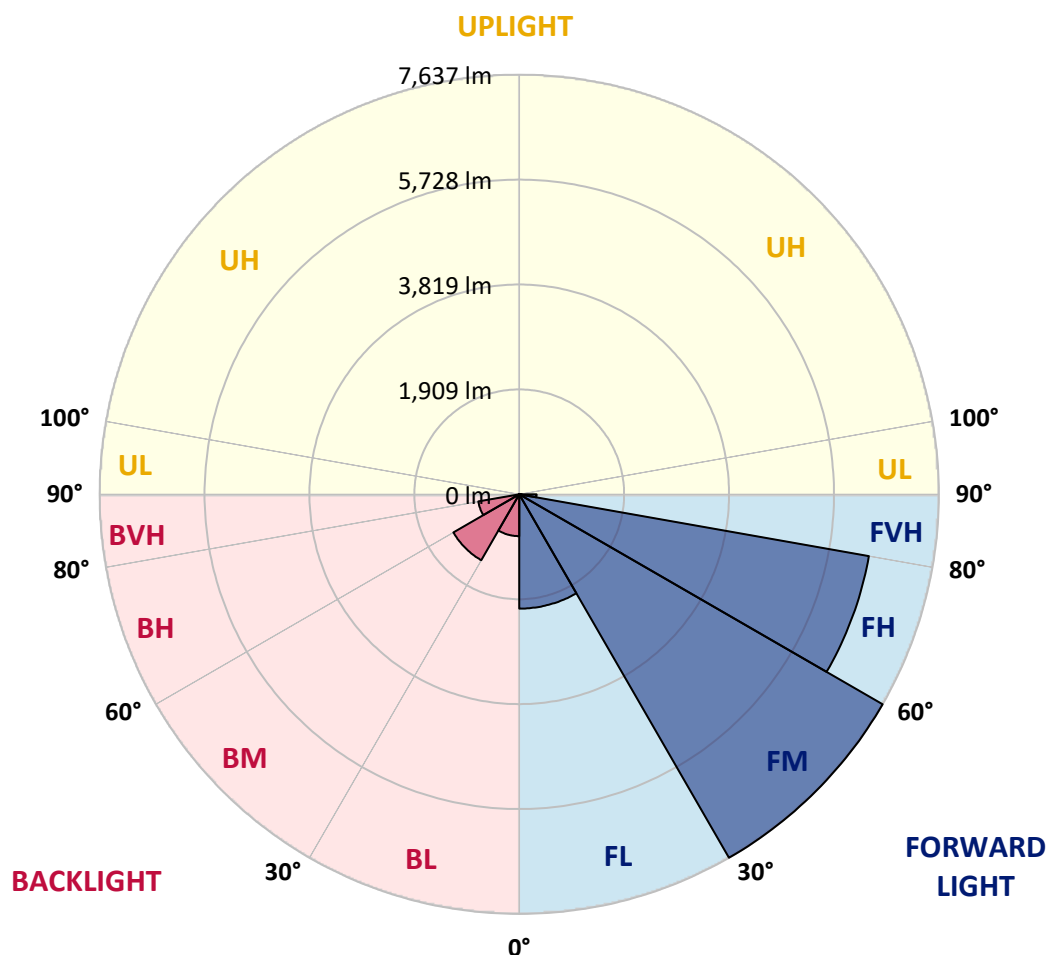
CATALOG NUMBER: GAN-SA4D-727-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2080.2	10.7			
FM	(30°-60°)	7637.5	39.4			
FH	(60°-80°)	6461.3	33.3			G3/7500
FVH	(80°-90°)	314.1	1.6			G3/500
BL	(0°-30°)	761.5	3.9	B2/1000		
BM	(30°-60°)	1384.2	7.1	B2/2500		
BH	(60°-80°)	756.4	3.9	B2/1000		G2/1000
BVH	(80°-90°)	9.8	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°	6510.0	6510.0	6510.0	6510.0	6510.0	6510.0	6510.0	6510.0	6510.0	6510.0	6510.0
2.5°	7057.0	7068.0	7125.0	7257.4	7401.7	7412.7	7510.2	7410.0	7376.0	7214.2	7046.9
5°	7110.3	7152.6	7348.4	7737.2	8074.6	8183.1	8260.3	8063.6	7856.7	7461.5	7039.5
7.5°	6681.0	6751.8	7059.8	7789.6	8392.6	8659.2	8709.8	8401.8	7895.3	7244.5	6610.2
10°	6131.3	6212.2	6583.6	7480.8	8309.0	8765.9	8835.7	8432.2	7704.1	6893.4	6146.0
12.5°	5686.4	5781.1	6160.7	7133.3	8021.3	8526.9	8664.7	8330.1	7538.7	6644.3	5828.9
15°	5481.4	5589.9	5988.8	6909.0	7702.3	8100.3	8214.3	8070.0	7446.7	6604.7	5755.4
17.5°	5599.1	5716.7	6128.6	6928.3	7402.6	7572.7	7664.6	7723.4	7446.7	6842.8	5970.5
20°	6081.7	6208.5	6644.3	7124.1	7154.4	7091.0	7189.4	7396.2	7533.2	7295.1	6487.1
22.5°	6749.0	6898.0	7389.8	7459.6	7033.1	6793.2	6806.0	7130.5	7690.3	7868.7	7204.1
25°	7562.6	7744.6	8244.6	7959.7	7083.7	6615.8	6611.2	6911.8	7843.9	8443.2	8002.9
27.5°	8370.6	8571.0	9010.4	8570.1	7292.3	6583.6	6574.4	6845.6	7993.7	8954.3	8875.2
30°	9048.1	9242.9	9621.7	9012.2	7517.5	6659.0	6614.8	6916.3	8082.9	9286.1	9511.4
32.5°	9599.6	9755.9	10062.0	9316.5	7758.4	6805.1	6709.5	7105.7	8234.5	9566.5	10096.0
35°	10206.3	10370.8	10493.1	9606.0	8028.6	7015.6	6878.7	7406.3	8468.0	9851.5	10736.7
37.5°	10898.5	11062.1	11047.4	9870.8	8371.5	7364.0	7276.7	7882.5	8831.1	10133.7	11451.9
40°	11576.0	11743.3	11623.8	10160.3	8774.1	7938.5	7874.2	8597.6	9317.4	10494.9	12290.2
42.5°	12210.2	12391.3	12135.8	10434.3	9254.0	8662.9	8773.2	9518.7	9925.9	10939.9	13012.7
45°	12721.3	12906.1	12565.1	10700.9	9759.6	9541.7	9873.5	10539.1	10657.6	11315.8	13500.9
47.5°	13092.7	13267.4	12862.9	10967.4	10406.7	10616.3	11194.5	11609.1	11318.6	11642.2	13847.4
50°	13329.9	13465.9	12950.2	11301.1	11256.1	11870.1	12570.6	12772.8	11940.9	11936.3	14268.4
52.5°	13480.6	13542.2	13014.6	11649.5	12142.2	13235.2	13918.2	13981.6	12581.6	12259.9	14835.6
55°	14000.0	14049.6	13470.5	12071.4	12874.9	14431.1	15137.1	15078.3	13306.9	12893.2	15504.8
57.5°	14886.1	14938.5	14412.7	12678.1	13467.8	15170.2	16020.5	16126.2	14157.2	13783.1	16221.8
60°	15331.1	15428.5	15241.0	13446.6	14042.3	15642.7	16622.6	16959.9	15219.8	14956.0	16916.7
62.5°	14927.5	15069.1	15341.2	14298.8	14613.1	15902.8	16810.1	17258.7	16308.2	16322.9	17345.1
65°	14122.3	14235.3	14696.8	14765.7	14944.1	15870.6	16346.8	16841.4	16974.7	17578.6	17322.1
67.5°	13149.7	13192.0	13583.6	14802.5	14464.2	14903.6	14955.1	15320.9	16447.9	18023.5	16626.3
70°	11749.7	11772.7	12114.6	13571.6	12429.9	12526.5	12450.2	12524.6	14140.6	16939.7	14869.6
72.5°	9456.2	9514.1	10000.4	11270.8	9055.4	8776.9	9376.2	9343.1	10890.2	14311.6	11043.7
75°	6962.3	7062.5	7797.0	9078.4	6355.6	5748.9	6186.5	6303.2	7741.8	11070.4	6906.2
77.5°	4874.7	4949.2	5660.7	6673.7	4599.9	4110.8	3952.7	4091.5	5110.0	8008.4	3479.3
80°	2808.3	2835.9	3290.0	3853.4	3099.7	3546.4	3212.7	3308.3	3062.0	3563.0	1496.5
82.5°	1837.6	1842.2	2019.6	2293.5	1930.4	2242.9	1660.1	2122.5	1883.5	1431.3	487.2
85°	992.8	998.3	1171.1	1628.0	1093.0	617.7	363.1	745.5	1164.7	328.2	133.3
87.5°	109.4	100.2	353.0	592.0	303.3	56.1	19.3	83.7	186.6	21.1	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°	6510.0	6510.0	6510.0	6510.0	6510.0	6510.0	6510.0	6510.0	6510.0	6510.0	6510.0
2.5°	6961.4	6885.1	6694.8	6493.5	6331.7	6180.0	6027.4	5840.8	5696.5	5667.1	5619.3
5°	6812.5	6570.7	6171.8	5771.0	5448.3	5041.1	4782.8	4581.5	4384.8	4372.8	4333.3
7.5°	6292.2	5974.1	5412.5	4858.2	4404.1	4016.2	3624.6	3362.6	3156.7	3084.0	3040.8
10°	5792.1	5434.5	4733.2	4100.7	3695.3	3352.5	3076.7	2802.8	2554.6	2383.6	2306.4
12.5°	5442.8	5047.5	4274.5	3729.3	3438.9	3113.5	2777.0	2435.1	2149.2	1943.3	1817.3
15°	5307.7	4885.8	4120.9	3582.3	3223.8	2811.9	2381.7	1991.1	1673.9	1487.3	1374.3
17.5°	5468.5	4977.7	4109.0	3403.0	2902.0	2390.0	1914.8	1453.3	1154.6	1013.0	940.4
20°	5876.7	5270.0	4104.4	3183.3	2519.6	1890.0	1297.0	956.0	774.9	695.9	661.9
22.5°	6454.0	5643.2	4141.2	2966.4	2121.6	1350.4	895.3	702.3	609.5	567.2	547.9
25°	7196.7	6167.2	4245.0	2769.7	1747.5	1007.5	697.7	588.3	523.0	490.0	476.2
27.5°	7988.2	6770.2	4406.8	2598.7	1443.2	803.4	597.5	503.7	456.9	433.9	421.0
30°	8640.8	7468.8	4570.5	2408.4	1222.6	700.5	546.9	459.6	405.4	390.7	378.7
32.5°	9211.7	7997.4	4686.3	2236.5	1078.3	622.3	494.6	410.9	374.1	345.6	332.8
35°	9802.8	8437.7	4682.6	2116.1	979.0	563.5	450.4	367.7	323.6	290.5	280.4
37.5°	10442.5	8935.0	4602.6	2013.1	935.8	516.6	425.6	344.7	300.6	267.5	254.6
40°	11191.7	9457.1	4520.8	1916.6	923.8	478.9	408.1	326.3	279.4	247.3	234.4
42.5°	11921.6	9927.8	4449.1	1844.9	872.4	478.0	392.5	312.5	262.9	231.6	216.9
45°	12505.3	10366.3	4435.3	1801.7	818.1	494.6	384.2	303.3	250.0	218.8	205.0
47.5°	12990.7	10842.4	4523.6	1771.4	766.6	451.3	404.5	296.9	238.1	207.7	192.1
50°	13568.0	11427.1	4731.3	1721.7	712.4	406.3	463.3	298.8	228.0	196.7	180.2
52.5°	14373.2	12236.0	5036.5	1638.1	638.0	364.9	455.9	300.6	216.9	184.8	168.2
55°	15275.9	13246.2	5364.7	1499.3	534.1	310.7	390.7	287.7	195.8	171.9	156.3
57.5°	16224.6	14162.7	5559.6	1333.8	424.7	268.4	312.5	262.0	172.8	154.4	144.3
60°	16373.5	14511.1	5470.4	1130.7	337.4	233.5	231.6	266.6	154.4	136.0	128.7
62.5°	16003.0	14073.5	5039.3	949.6	282.2	205.0	190.3	232.6	139.7	121.3	114.0
65°	15290.6	12890.5	4340.6	855.8	262.0	175.6	158.1	163.6	122.3	105.7	99.3
67.5°	14299.7	11311.2	3563.9	802.5	259.2	150.8	135.1	124.1	105.7	91.9	86.4
70°	12273.7	9423.1	2843.2	773.1	251.9	126.9	114.0	101.1	88.2	78.1	73.5
72.5°	9033.4	6677.3	2211.7	740.9	253.7	101.1	99.3	83.7	70.8	60.7	58.8
75°	5219.4	3814.8	1450.6	600.3	241.8	78.1	82.7	58.8	49.6	42.3	42.3
77.5°	2781.6	2326.6	552.5	250.0	88.2	49.6	46.9	34.9	31.3	25.7	24.8
80°	1212.5	1024.0	166.4	69.9	48.7	26.7	17.5	15.6	13.8	11.0	10.1
82.5°	429.3	370.5	54.2	34.0	21.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	97.4	69.9	0.0	8.3	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°	6510.0	6510.0	6510.0	6510.0	6510.0	6510.0	6510.0	6510.0	6510.0	6510.0	6510.0
2.5°	5521.9	5501.6	5382.1	5386.7	5407.9	5438.2	5366.5	5399.6	5488.8	5574.3	5606.4
5°	4269.9	4274.5	4201.8	4246.9	4287.3	4314.9	4199.1	4200.9	4271.7	4368.2	4418.8
7.5°	3008.7	3001.3	3005.0	3112.5	3188.8	3133.7	3176.9	3027.1	3036.2	3105.2	3053.7
10°	2236.5	2135.4	2078.4	2159.3	2242.9	2212.6	2138.1	2089.4	2123.4	2199.7	2194.2
12.5°	1757.6	1612.3	1526.9	1468.9	1537.9	1480.9	1479.1	1436.8	1390.8	1399.1	1521.3
15°	1321.9	1216.2	1115.0	1022.2	1020.4	1001.1	902.7	792.4	783.2	788.7	852.1
17.5°	909.1	873.3	831.9	751.9	730.8	649.9	554.3	510.2	488.1	498.2	519.4
20°	638.9	625.1	629.7	586.5	556.1	478.9	422.8	405.4	401.7	411.8	421.9
22.5°	529.5	504.7	501.9	482.6	452.3	396.2	365.9	355.7	351.1	360.3	367.7
25°	463.3	438.5	428.4	416.4	384.2	345.6	327.2	318.1	313.5	319.0	323.6
27.5°	408.1	385.2	376.0	367.7	336.4	308.9	294.2	285.9	282.2	284.0	288.6
30°	366.8	346.6	334.6	324.5	297.8	278.5	265.7	257.4	253.7	253.7	258.3
32.5°	323.6	312.5	301.5	288.6	263.8	251.0	238.1	228.9	225.2	226.1	229.8
35°	269.3	265.7	268.4	256.5	235.3	224.3	211.4	201.3	198.6	199.5	203.2
37.5°	239.0	222.5	232.6	226.1	214.2	199.5	182.9	173.7	169.1	171.9	173.7
40°	219.7	199.5	192.1	198.6	196.7	172.8	158.1	148.9	145.2	146.2	148.0
42.5°	203.2	179.3	162.7	161.8	172.8	150.8	135.1	126.9	122.3	122.3	124.1
45°	187.5	161.8	141.6	125.9	145.2	127.8	113.1	105.7	100.2	100.2	101.1
47.5°	175.6	147.1	123.2	103.0	109.4	104.8	92.8	85.5	80.0	80.0	80.9
50°	164.5	132.4	106.6	86.4	81.8	86.4	75.4	67.1	63.4	62.5	64.3
52.5°	152.6	117.7	91.0	73.5	64.3	65.3	58.8	53.3	48.7	48.7	50.6
55°	140.6	105.7	79.1	62.5	53.3	48.7	46.9	43.2	39.5	39.5	41.4
57.5°	128.7	92.8	67.1	51.5	42.3	38.6	38.6	35.9	33.1	33.1	34.9
60°	117.7	80.0	55.2	42.3	33.1	32.2	33.1	30.3	28.5	28.5	30.3
62.5°	104.8	68.0	45.0	34.9	26.7	25.7	28.5	26.7	24.8	24.8	26.7
65°	89.2	57.9	35.9	26.7	20.2	20.2	23.9	22.1	20.2	20.2	22.1
67.5°	75.4	48.7	27.6	19.3	14.7	15.6	20.2	18.4	17.5	17.5	19.3
70°	62.5	37.7	19.3	12.0	8.3	12.0	15.6	15.6	15.6	15.6	17.5
72.5°	46.9	25.7	11.0	4.6	3.7	8.3	12.9	14.7	13.8	13.8	16.5
75°	30.3	14.7	3.7	0.0	0.0	4.6	10.1	12.0	12.0	11.0	13.8
77.5°	17.5	4.6	0.0	0.0	0.0	0.0	6.4	5.5	4.6	3.7	6.4
80°	4.6	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-SA4D-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6510.0	6510.0	6510.0	6510.0	6510.0	6510.0	6510.0	6510.0	6510.0	6510.0
2.5°	5736.0	5844.5	5997.1	6158.9	6408.0	6605.6	6799.6	6966.0	7030.3	7057.0
5°	4540.1	4699.1	4922.5	5209.3	5658.8	6063.3	6473.3	6886.0	7065.3	7110.3
7.5°	3257.8	3460.9	3745.0	4104.4	4631.1	5155.1	5727.8	6333.6	6611.2	6681.0
10°	2411.2	2659.4	2984.8	3363.5	3866.3	4405.0	5029.2	5721.3	6038.5	6131.3
12.5°	1710.7	2046.2	2481.9	2942.5	3378.2	3859.0	4490.5	5253.4	5586.2	5686.4
15°	1004.7	1329.2	1844.9	2461.7	3019.7	3506.9	4148.5	5013.5	5380.3	5481.4
17.5°	576.4	738.1	1127.9	1815.5	2572.9	3247.7	4041.0	5073.3	5505.3	5599.1
20°	440.3	491.8	649.9	1169.3	2050.8	2993.0	4041.0	5411.6	5943.8	6081.7
22.5°	385.2	422.8	487.2	697.7	1509.4	2720.0	4087.9	5900.6	6596.5	6749.0
25°	342.0	376.0	431.1	524.9	1029.5	2395.5	4199.1	6500.9	7364.9	7562.6
27.5°	306.1	338.3	387.9	459.6	704.1	2003.9	4348.9	7205.0	8212.5	8370.6
30°	273.9	304.3	349.3	399.9	543.3	1559.9	4476.7	7868.7	8878.0	9048.1
32.5°	243.6	271.2	311.6	349.3	444.9	1153.6	4490.5	8394.5	9430.5	9599.6
35°	215.1	239.9	276.7	306.1	368.6	911.0	4276.3	8850.4	9982.9	10206.3
37.5°	187.5	211.4	243.6	265.7	324.5	742.7	3949.0	9358.8	10691.7	10898.5
40°	161.8	182.9	216.0	230.7	307.0	570.8	3593.3	9891.9	11386.6	11576.0
42.5°	137.9	158.1	190.3	218.8	269.3	426.5	3209.1	10392.0	12011.7	12210.2
45°	114.9	136.0	168.2	231.6	223.4	319.0	2798.2	10723.8	12505.3	12721.3
47.5°	92.8	116.7	160.9	220.6	178.3	234.4	2472.8	11038.2	12879.4	13092.7
50°	74.5	98.4	181.1	196.7	146.2	179.3	2336.7	11319.5	13124.9	13329.9
52.5°	60.7	82.7	171.0	150.8	122.3	148.0	2410.2	11775.4	13351.9	13480.6
55°	50.6	65.3	103.0	104.8	103.9	125.9	2501.2	12429.9	13939.3	14000.0
57.5°	44.1	52.4	71.7	80.9	87.3	112.1	2503.1	13369.4	14848.5	14886.1
60°	37.7	46.0	59.8	65.3	75.4	100.2	2412.1	13697.6	15206.0	15331.1
62.5°	33.1	40.4	49.6	54.2	63.4	90.1	2198.8	13222.3	14715.2	14927.5
65°	29.4	36.8	41.4	46.0	56.1	80.9	1847.7	12271.8	13900.7	14122.3
67.5°	25.7	32.2	36.8	41.4	50.6	71.7	1360.5	11167.8	12965.9	13149.7
70°	23.0	28.5	33.1	36.8	44.1	60.7	825.5	9476.4	11673.4	11749.7
72.5°	22.1	25.7	30.3	33.1	38.6	53.3	418.3	6964.1	9332.1	9456.2
75°	19.3	23.0	27.6	29.4	34.0	46.0	170.1	4574.1	6762.8	6962.3
77.5°	15.6	21.1	24.8	26.7	29.4	37.7	86.4	2923.2	4746.0	4874.7
80°	5.5	15.6	21.1	22.1	24.8	27.6	57.0	1600.4	2753.1	2808.3
82.5°	0.0	10.1	16.5	15.6	17.5	21.1	36.8	761.1	1817.3	1837.6
85°	0.0	4.6	12.9	10.1	7.4	14.7	12.9	166.4	953.3	992.8
87.5°	0.0	0.0	0.9	4.6	3.7	5.5	1.8	0.9	86.4	109.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)