

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: P324096

Luminaire Tested: **GAN-SA2D-727-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324096
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-SA2D-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 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: 9842 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 129
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

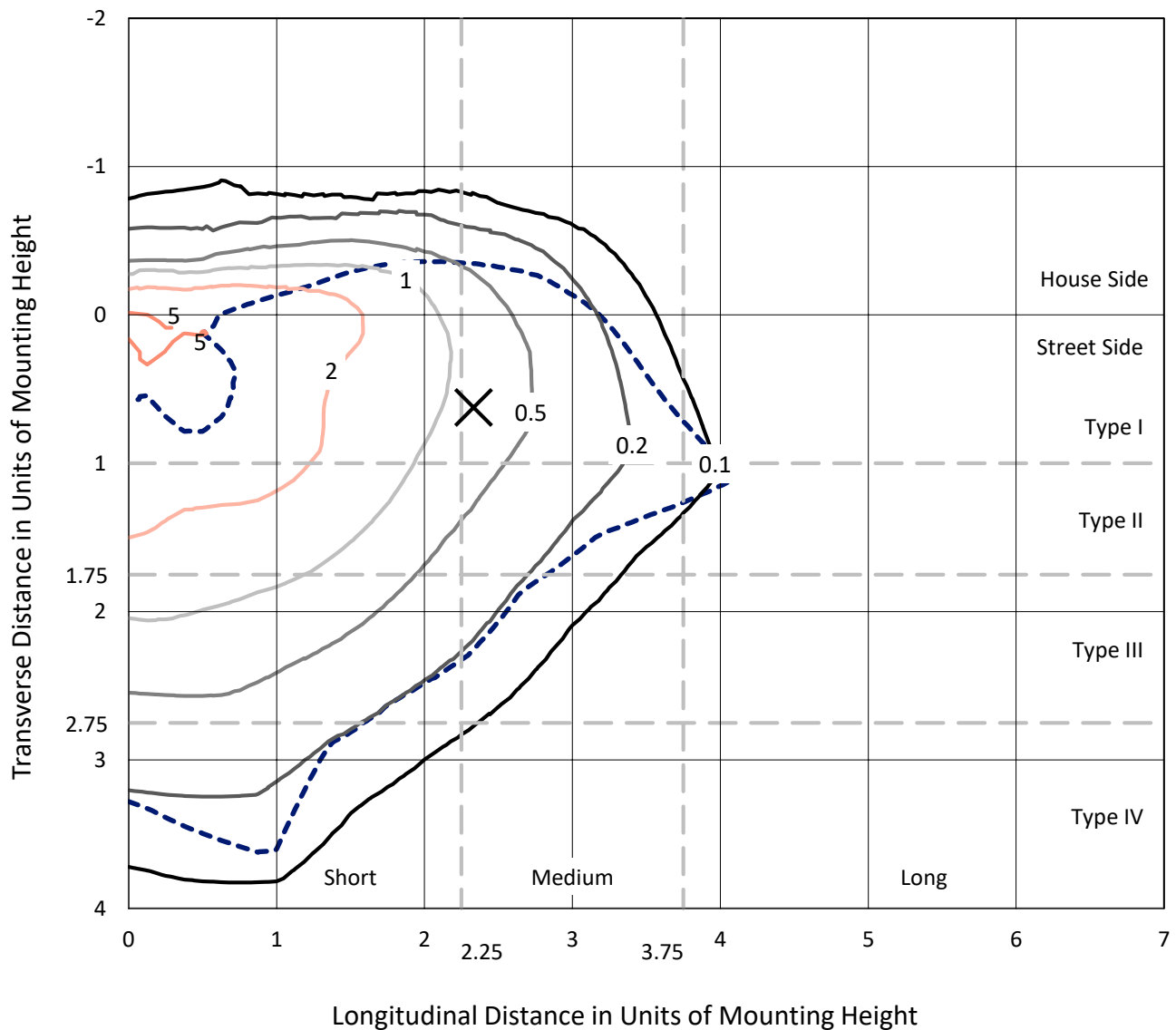


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Iso-Footcandle Lines of Horizontal Illumination

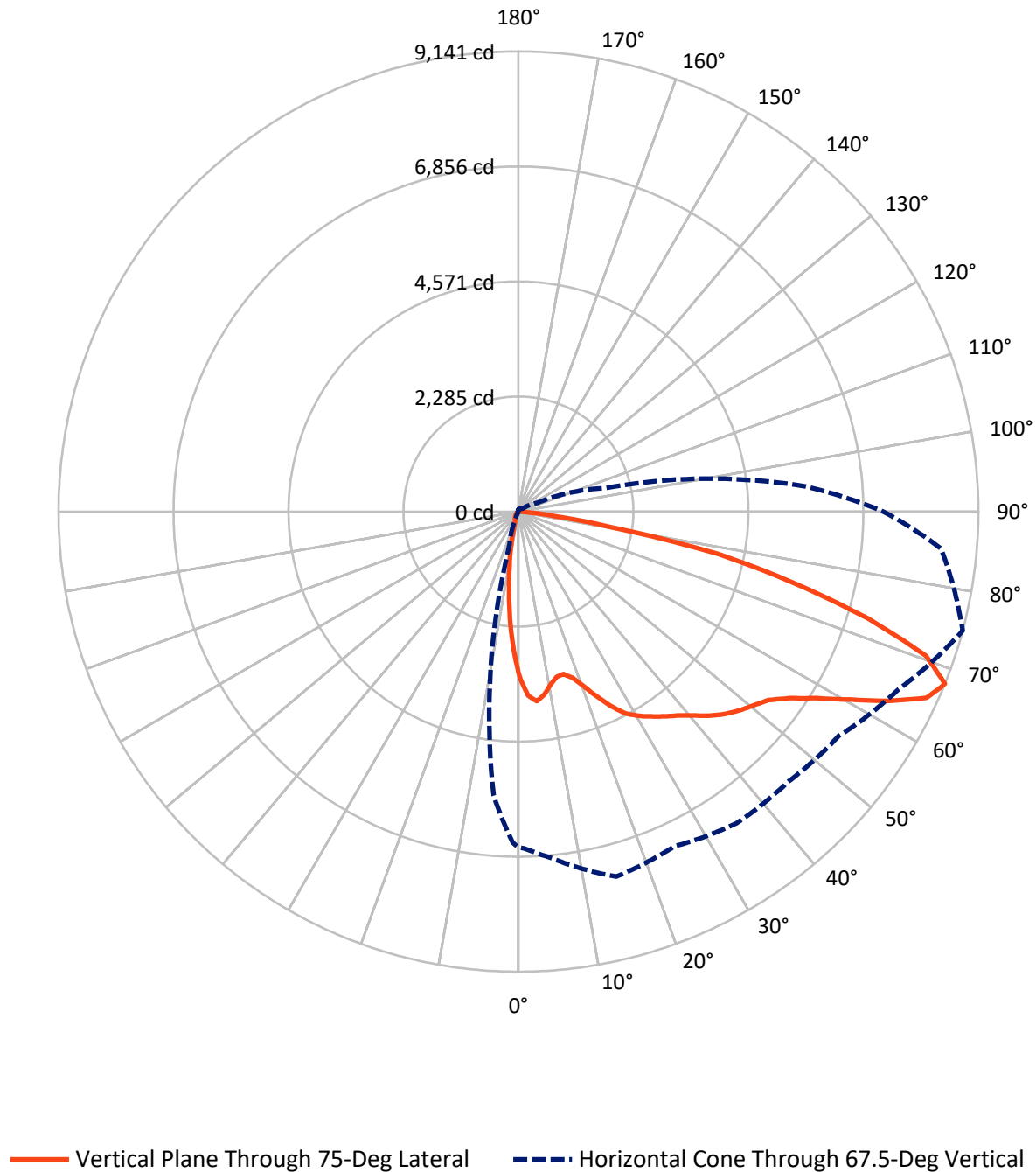
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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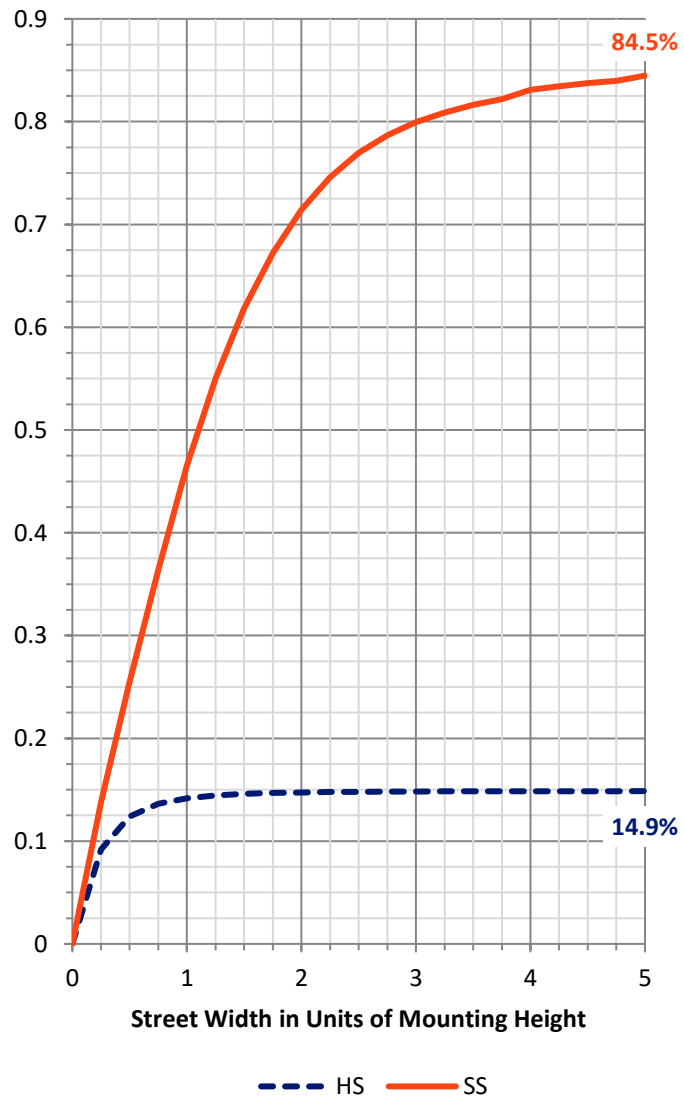
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1476.9	0.0	1476.9
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	8365.1	0.0	8365.1
	% Fixture	85.0	0.0	85.0
Total	Lumens	9842.0	0.0	9842.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.5	2.5
10°-20°	493.2	5.0
20°-30°	697.7	7.1
30°-40°	1025.8	10.4
40°-50°	1474.4	15.0
50°-60°	2075.5	21.1
60°-70°	2424.1	24.6
70°-80°	1236.7	12.6
80°-90°	164.3	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°	9842.0	100.0
0°-180°	9842.0	100.0

Coefficient of Utilization



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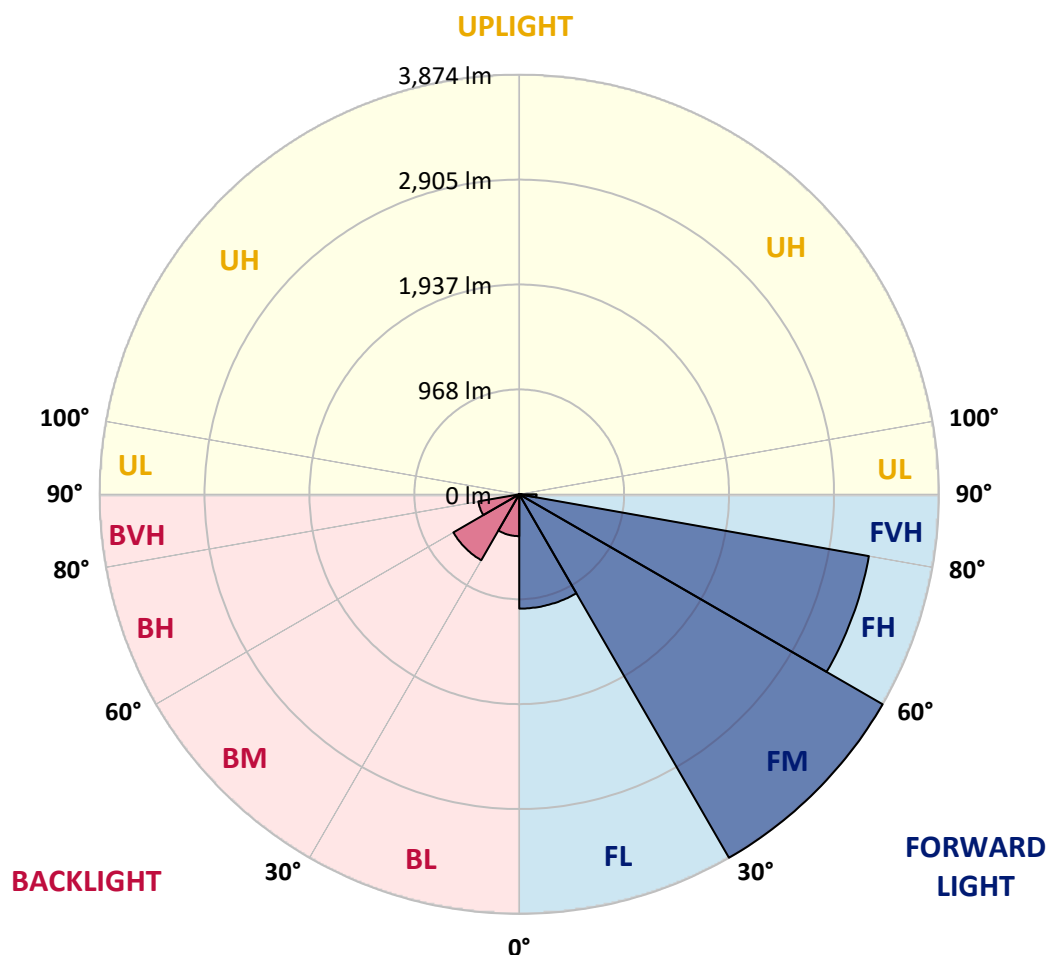
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1055.1	10.7			
FM	(30°-60°)	3873.6	39.4			
FH	(60°-80°)	3277.1	33.3			G2/5000
FVH	(80°-90°)	159.3	1.6			G2/225
BL	(0°-30°)	386.2	3.9	B1/500		
BM	(30°-60°)	702.1	7.1	B1/1000		
BH	(60°-80°)	383.6	3.9	B1/500		G1/500
BVH	(80°-90°)	5.0	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°	3301.8	3301.8	3301.8	3301.8	3301.8	3301.8	3301.8	3301.8	3301.8	3301.8	3301.8
2.5°	3579.2	3584.8	3613.7	3680.9	3754.1	3759.7	3809.1	3758.3	3741.0	3659.0	3574.1
5°	3606.3	3627.7	3727.0	3924.2	4095.3	4150.4	4189.5	4089.7	3984.8	3784.4	3570.4
7.5°	3388.5	3424.4	3580.6	3950.8	4256.7	4391.9	4417.5	4261.3	4004.4	3674.3	3352.6
10°	3109.7	3150.8	3339.1	3794.2	4214.2	4445.9	4481.4	4276.7	3907.5	3496.2	3117.2
12.5°	2884.1	2932.1	3124.7	3617.9	4068.3	4324.7	4394.7	4225.0	3823.5	3369.9	2956.3
15°	2780.1	2835.1	3037.5	3504.2	3906.5	4108.4	4166.2	4093.0	3776.9	3349.8	2919.0
17.5°	2839.8	2899.5	3108.3	3514.0	3754.5	3840.8	3887.4	3917.2	3776.9	3470.6	3028.1
20°	3084.6	3148.9	3369.9	3613.3	3628.6	3596.5	3646.4	3751.3	3820.7	3700.0	3290.2
22.5°	3423.0	3498.6	3748.0	3783.4	3567.1	3445.4	3451.9	3616.5	3900.5	3990.9	3653.8
25°	3835.7	3928.0	4181.6	4037.1	3592.7	3355.4	3353.1	3505.6	3978.3	4282.3	4059.0
27.5°	4245.5	4347.1	4570.0	4346.6	3698.6	3339.1	3334.5	3472.0	4054.3	4541.5	4501.4
30°	4589.1	4687.9	4880.0	4570.9	3812.8	3377.4	3355.0	3507.9	4099.5	4709.8	4824.1
32.5°	4868.8	4948.1	5103.3	4725.2	3935.0	3451.5	3403.0	3603.9	4176.5	4852.0	5120.6
35°	5176.5	5260.0	5322.0	4872.1	4072.0	3558.2	3488.8	3756.4	4294.9	4996.6	5445.5
37.5°	5527.6	5610.6	5603.1	5006.4	4245.9	3734.9	3690.7	3997.9	4479.0	5139.7	5808.3
40°	5871.2	5956.1	5895.4	5153.2	4450.1	4026.3	3993.7	4360.6	4725.7	5322.9	6233.5
42.5°	6192.9	6284.7	6155.1	5292.1	4693.5	4393.7	4449.7	4827.8	5034.3	5548.6	6599.9
45°	6452.1	6545.8	6372.9	5427.4	4949.9	4839.4	5007.7	5345.3	5405.4	5739.3	6847.5
47.5°	6640.5	6729.1	6523.9	5562.6	5278.2	5384.5	5677.7	5888.0	5740.7	5904.8	7023.3
50°	6760.8	6829.8	6568.2	5731.8	5709.0	6020.4	6375.7	6478.2	6056.3	6054.0	7236.8
52.5°	6837.2	6868.5	6600.8	5908.5	6158.4	6712.7	7059.1	7091.3	6381.3	6218.1	7524.4
55°	7100.6	7125.8	6832.1	6122.5	6530.0	7319.3	7677.4	7647.5	6749.1	6539.3	7863.9
57.5°	7550.1	7576.7	7310.0	6430.2	6830.7	7694.2	8125.4	8179.0	7180.4	6990.6	8227.5
60°	7775.7	7825.2	7730.1	6820.0	7122.1	7933.8	8430.8	8601.9	7719.3	7585.5	8580.0
62.5°	7571.1	7642.9	7780.9	7252.2	7411.6	8065.7	8525.9	8753.4	8271.3	8278.8	8797.2
65°	7162.7	7220.0	7454.0	7489.0	7579.5	8049.4	8290.9	8541.8	8609.4	8915.7	8785.6
67.5°	6669.4	6690.8	6889.4	7507.7	7336.1	7558.9	7585.1	7770.6	8342.2	9141.3	8432.7
70°	5959.3	5971.0	6144.4	6883.4	6304.3	6353.3	6314.6	6352.3	7172.0	8591.6	7541.7
72.5°	4796.1	4825.5	5072.1	5716.4	4592.8	4451.5	4755.5	4738.7	5523.4	7258.7	5601.3
75°	3531.2	3582.0	3954.5	4604.5	3223.5	2915.8	3137.7	3196.9	3926.6	5614.8	3502.8
77.5°	2472.4	2510.2	2871.0	3384.8	2333.0	2085.0	2004.8	2075.2	2591.8	4061.8	1764.7
80°	1424.3	1438.3	1668.6	1954.4	1572.1	1798.7	1629.5	1678.0	1553.0	1807.1	759.0
82.5°	932.0	934.3	1024.3	1163.2	979.1	1137.6	842.0	1076.5	955.3	725.9	247.1
85°	503.5	506.3	594.0	825.7	554.3	313.3	184.2	378.1	590.7	166.4	67.6
87.5°	55.5	50.8	179.0	300.3	153.9	28.4	9.8	42.4	94.6	10.7	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°	3301.8	3301.8	3301.8	3301.8	3301.8	3301.8	3301.8	3301.8	3301.8	3301.8	3301.8
2.5°	3530.7	3492.0	3395.5	3293.4	3211.4	3134.4	3057.1	2962.4	2889.2	2874.3	2850.0
5°	3455.2	3332.6	3130.3	2927.0	2763.3	2556.8	2425.8	2323.7	2223.9	2217.8	2197.8
7.5°	3191.3	3030.0	2745.1	2464.0	2233.7	2036.9	1838.3	1705.5	1601.0	1564.2	1542.3
10°	2937.7	2756.3	2400.6	2079.8	1874.2	1700.3	1560.5	1421.5	1295.6	1208.9	1169.8
12.5°	2760.5	2560.1	2168.0	1891.5	1744.2	1579.1	1408.5	1235.0	1090.0	985.6	921.7
15°	2692.0	2478.0	2090.1	1816.9	1635.1	1426.2	1208.0	1009.8	849.0	754.4	697.0
17.5°	2773.6	2524.6	2084.0	1726.0	1471.9	1212.2	971.2	737.1	585.6	513.8	477.0
20°	2980.6	2672.9	2081.7	1614.5	1277.9	958.6	657.8	484.9	393.0	352.9	335.7
22.5°	3273.4	2862.2	2100.4	1504.5	1076.1	684.9	454.1	356.2	309.1	287.7	277.9
25°	3650.1	3127.9	2153.0	1404.7	886.3	511.0	353.9	298.4	265.3	248.5	241.5
27.5°	4051.5	3433.8	2235.1	1318.0	732.0	407.5	303.0	255.5	231.7	220.1	213.5
30°	4382.5	3788.1	2318.1	1221.5	620.1	355.3	277.4	233.1	205.6	198.1	192.1
32.5°	4672.1	4056.2	2376.8	1134.3	546.9	315.6	250.8	208.4	189.8	175.3	168.8
35°	4971.8	4279.5	2375.0	1073.3	496.5	285.8	228.5	186.5	164.1	147.3	142.2
37.5°	5296.3	4531.7	2334.4	1021.0	474.6	262.0	215.9	174.8	152.5	135.7	129.1
40°	5676.3	4796.5	2292.9	972.1	468.6	242.9	207.0	165.5	141.7	125.4	118.9
42.5°	6046.5	5035.3	2256.5	935.7	442.4	242.4	199.1	158.5	133.3	117.5	110.0
45°	6342.6	5257.6	2249.5	913.8	414.9	250.8	194.9	153.9	126.8	111.0	104.0
47.5°	6588.7	5499.2	2294.3	898.4	388.8	228.9	205.1	150.6	120.8	105.4	97.4
50°	6881.5	5795.7	2399.7	873.2	361.3	206.1	235.0	151.5	115.6	99.8	91.4
52.5°	7289.9	6206.0	2554.5	830.8	323.6	185.1	231.2	152.5	110.0	93.7	85.3
55°	7747.8	6718.3	2720.9	760.4	270.9	157.6	198.1	145.9	99.3	87.2	79.3
57.5°	8228.9	7183.2	2819.7	676.5	215.4	136.1	158.5	132.9	87.7	78.3	73.2
60°	8304.4	7359.9	2774.5	573.5	171.1	118.4	117.5	135.2	78.3	69.0	65.3
62.5°	8116.6	7137.9	2555.9	481.6	143.1	104.0	96.5	118.0	70.9	61.5	57.8
65°	7755.2	6537.9	2201.5	434.1	132.9	89.0	80.2	83.0	62.0	53.6	50.4
67.5°	7252.6	5736.9	1807.6	407.0	131.5	76.5	68.5	62.9	53.6	46.6	43.8
70°	6225.1	4779.3	1442.0	392.1	127.7	64.3	57.8	51.3	44.8	39.6	37.3
72.5°	4581.6	3386.7	1121.7	375.8	128.7	51.3	50.4	42.4	35.9	30.8	29.8
75°	2647.2	1934.8	735.7	304.4	122.6	39.6	42.0	29.8	25.2	21.4	21.4
77.5°	1410.8	1180.0	280.2	126.8	44.8	25.2	23.8	17.7	15.9	13.1	12.6
80°	615.0	519.4	84.4	35.4	24.7	13.5	8.9	7.9	7.0	5.6	5.1
82.5°	217.7	187.9	27.5	17.3	10.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	49.4	35.4	0.0	4.2	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°	3301.8	3301.8	3301.8	3301.8	3301.8	3301.8	3301.8	3301.8	3301.8	3301.8	3301.8
2.5°	2800.6	2790.4	2729.8	2732.1	2742.8	2758.2	2721.8	2738.6	2783.8	2827.2	2843.5
5°	2165.6	2168.0	2131.1	2154.0	2174.5	2188.5	2129.7	2130.7	2166.6	2215.5	2241.2
7.5°	1526.0	1522.2	1524.1	1578.6	1617.3	1589.4	1611.3	1535.3	1539.9	1574.9	1548.8
10°	1134.3	1083.0	1054.1	1095.2	1137.6	1122.2	1084.4	1059.7	1077.0	1115.7	1112.9
12.5°	891.4	817.8	774.4	745.0	780.0	751.1	750.2	728.7	705.4	709.6	771.6
15°	670.4	616.8	565.5	518.4	517.5	507.7	457.8	401.9	397.2	400.0	432.2
17.5°	461.1	442.9	421.9	381.4	370.7	329.6	281.1	258.8	247.6	252.7	263.4
20°	324.0	317.0	319.4	297.5	282.1	242.9	214.5	205.6	203.7	208.9	214.0
22.5°	268.5	256.0	254.6	244.8	229.4	200.9	185.6	180.4	178.1	182.8	186.5
25°	235.0	222.4	217.3	211.2	194.9	175.3	166.0	161.3	159.0	161.8	164.1
27.5°	207.0	195.3	190.7	186.5	170.6	156.7	149.2	145.0	143.1	144.1	146.4
30°	186.0	175.8	169.7	164.6	151.1	141.3	134.7	130.5	128.7	128.7	131.0
32.5°	164.1	158.5	152.9	146.4	133.8	127.3	120.8	116.1	114.2	114.7	116.6
35°	136.6	134.7	136.1	130.1	119.4	113.8	107.2	102.1	100.7	101.2	103.0
37.5°	121.2	112.8	118.0	114.7	108.6	101.2	92.8	88.1	85.8	87.2	88.1
40°	111.4	101.2	97.4	100.7	99.8	87.7	80.2	75.5	73.7	74.1	75.1
42.5°	103.0	90.9	82.5	82.1	87.7	76.5	68.5	64.3	62.0	62.0	62.9
45°	95.1	82.1	71.8	63.9	73.7	64.8	57.3	53.6	50.8	50.8	51.3
47.5°	89.0	74.6	62.5	52.2	55.5	53.1	47.1	43.4	40.6	40.6	41.0
50°	83.5	67.1	54.1	43.8	41.5	43.8	38.2	34.0	32.2	31.7	32.6
52.5°	77.4	59.7	46.2	37.3	32.6	33.1	29.8	27.0	24.7	24.7	25.6
55°	71.3	53.6	40.1	31.7	27.0	24.7	23.8	21.9	20.0	20.0	21.0
57.5°	65.3	47.1	34.0	26.1	21.4	19.6	19.6	18.2	16.8	16.8	17.7
60°	59.7	40.6	28.0	21.4	16.8	16.3	16.8	15.4	14.5	14.5	15.4
62.5°	53.1	34.5	22.8	17.7	13.5	13.1	14.5	13.5	12.6	12.6	13.5
65°	45.2	29.4	18.2	13.5	10.3	10.3	12.1	11.2	10.3	10.3	11.2
67.5°	38.2	24.7	14.0	9.8	7.5	7.9	10.3	9.3	8.9	8.9	9.8
70°	31.7	19.1	9.8	6.1	4.2	6.1	7.9	7.9	7.9	7.9	8.9
72.5°	23.8	13.1	5.6	2.3	1.9	4.2	6.5	7.5	7.0	7.0	8.4
75°	15.4	7.5	1.9	0.0	0.0	2.3	5.1	6.1	6.1	5.6	7.0
77.5°	8.9	2.3	0.0	0.0	0.0	0.0	3.3	2.8	2.3	1.9	3.3
80°	2.3	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-SA2D-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3301.8	3301.8	3301.8	3301.8	3301.8	3301.8	3301.8	3301.8	3301.8	3301.8
2.5°	2909.3	2964.3	3041.7	3123.7	3250.1	3350.3	3448.7	3533.1	3565.7	3579.2
5°	2302.7	2383.4	2496.6	2642.1	2870.1	3075.2	3283.2	3492.5	3583.4	3606.3
7.5°	1652.3	1755.3	1899.4	2081.7	2348.9	2614.6	2905.1	3212.3	3353.1	3388.5
10°	1222.9	1348.8	1513.8	1705.9	1961.0	2234.2	2550.7	2901.8	3062.6	3109.7
12.5°	867.6	1037.8	1258.8	1492.4	1713.4	1957.2	2277.5	2664.5	2833.3	2884.1
15°	509.6	674.2	935.7	1248.6	1531.6	1778.7	2104.1	2542.8	2728.8	2780.1
17.5°	292.3	374.4	572.1	920.8	1305.0	1647.2	2049.5	2573.1	2792.2	2839.8
20°	223.3	249.4	329.6	593.0	1040.2	1518.0	2049.5	2744.7	3014.6	3084.6
22.5°	195.3	214.5	247.1	353.9	765.5	1379.6	2073.3	2992.7	3345.6	3423.0
25°	173.4	190.7	218.7	266.2	522.2	1215.0	2129.7	3297.2	3735.4	3835.7
27.5°	155.3	171.6	196.7	233.1	357.1	1016.4	2205.7	3654.3	4165.3	4245.5
30°	138.9	154.3	177.2	202.8	275.5	791.2	2270.5	3990.9	4502.8	4589.1
32.5°	123.6	137.5	158.1	177.2	225.7	585.1	2277.5	4257.6	4783.0	4868.8
35°	109.1	121.7	140.3	155.3	187.0	462.0	2168.9	4488.8	5063.2	5176.5
37.5°	95.1	107.2	123.6	134.7	164.6	376.7	2002.9	4746.7	5422.7	5527.6
40°	82.1	92.8	109.6	117.0	155.7	289.5	1822.5	5017.1	5775.2	5871.2
42.5°	69.9	80.2	96.5	111.0	136.6	216.3	1627.6	5270.7	6092.2	6192.9
45°	58.3	69.0	85.3	117.5	113.3	161.8	1419.2	5439.0	6342.6	6452.1
47.5°	47.1	59.2	81.6	111.9	90.4	118.9	1254.2	5598.5	6532.3	6640.5
50°	37.8	49.9	91.8	99.8	74.1	90.9	1185.2	5741.1	6656.8	6760.8
52.5°	30.8	42.0	86.7	76.5	62.0	75.1	1222.4	5972.4	6772.0	6837.2
55°	25.6	33.1	52.2	53.1	52.7	63.9	1268.6	6304.3	7069.9	7100.6
57.5°	22.4	26.6	36.4	41.0	44.3	56.9	1269.5	6780.8	7531.0	7550.1
60°	19.1	23.3	30.3	33.1	38.2	50.8	1223.4	6947.3	7712.3	7775.7
62.5°	16.8	20.5	25.2	27.5	32.2	45.7	1115.2	6706.2	7463.4	7571.1
65°	14.9	18.6	21.0	23.3	28.4	41.0	937.1	6224.1	7050.3	7162.7
67.5°	13.1	16.3	18.6	21.0	25.6	36.4	690.0	5664.2	6576.1	6669.4
70°	11.7	14.5	16.8	18.6	22.4	30.8	418.7	4806.3	5920.6	5959.3
72.5°	11.2	13.1	15.4	16.8	19.6	27.0	212.1	3532.1	4733.1	4796.1
75°	9.8	11.7	14.0	14.9	17.3	23.3	86.3	2319.9	3430.0	3531.2
77.5°	7.9	10.7	12.6	13.5	14.9	19.1	43.8	1482.6	2407.1	2472.4
80°	2.8	7.9	10.7	11.2	12.6	14.0	28.9	811.7	1396.4	1424.3
82.5°	0.0	5.1	8.4	7.9	8.9	10.7	18.6	386.0	921.7	932.0
85°	0.0	2.3	6.5	5.1	3.7	7.5	6.5	84.4	483.5	503.5
87.5°	0.0	0.0	0.5	2.3	1.9	2.8	0.9	0.5	43.8	55.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)