

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: P324256

Luminaire Tested: **GAN-SA2D-760-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324256
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-760-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 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: 11770 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

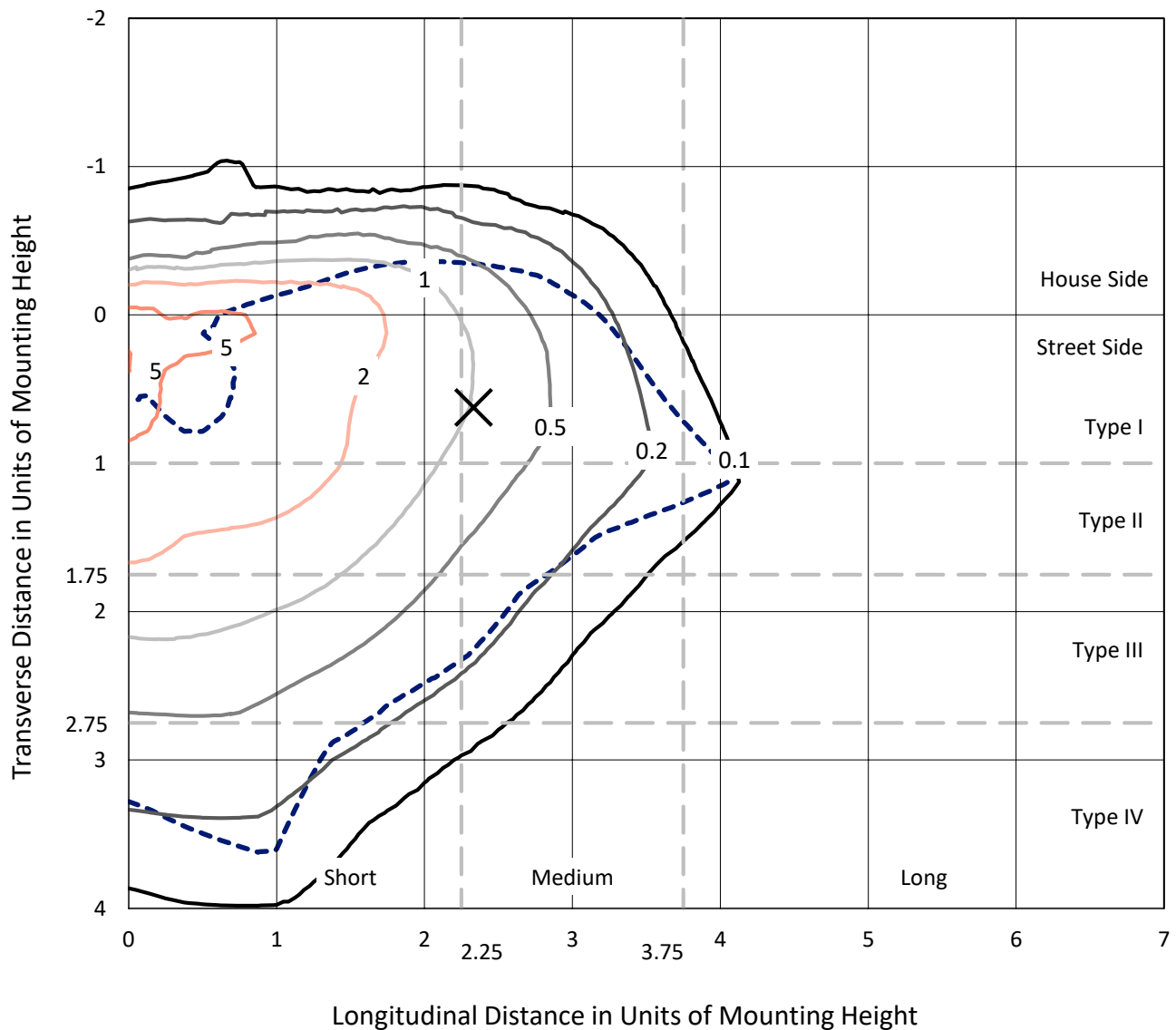
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

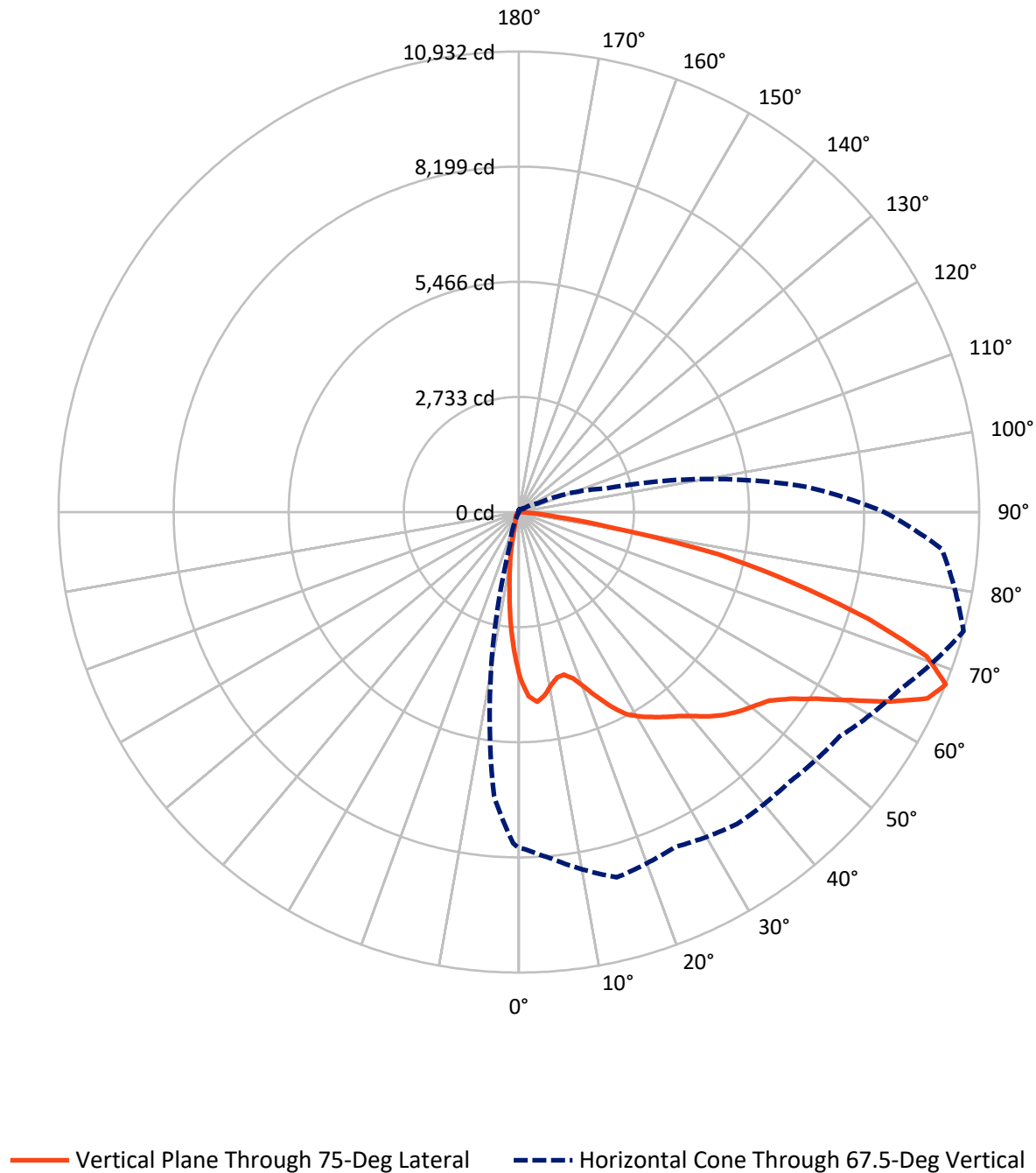
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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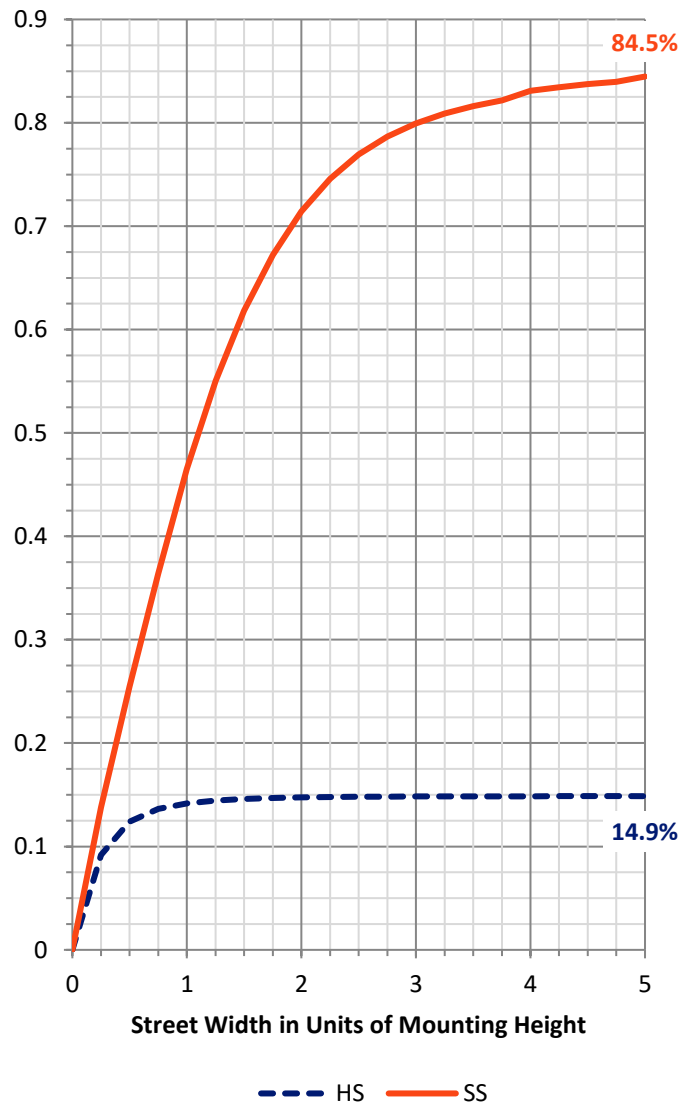
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1766.2	0.0	1766.2
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	10003.8	0.0	10003.8
	% Fixture	85.0	0.0	85.0
Total	Lumens	11770.0	0.0	11770.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.5	2.5
10°-20°	589.8	5.0
20°-30°	834.3	7.1
30°-40°	1226.7	10.4
40°-50°	1763.2	15.0
50°-60°	2482.1	21.1
60°-70°	2898.9	24.6
70°-80°	1478.9	12.6
80°-90°	196.5	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°	11770.0	100.0
0°-180°	11770.0	100.0

Coefficient of Utilization



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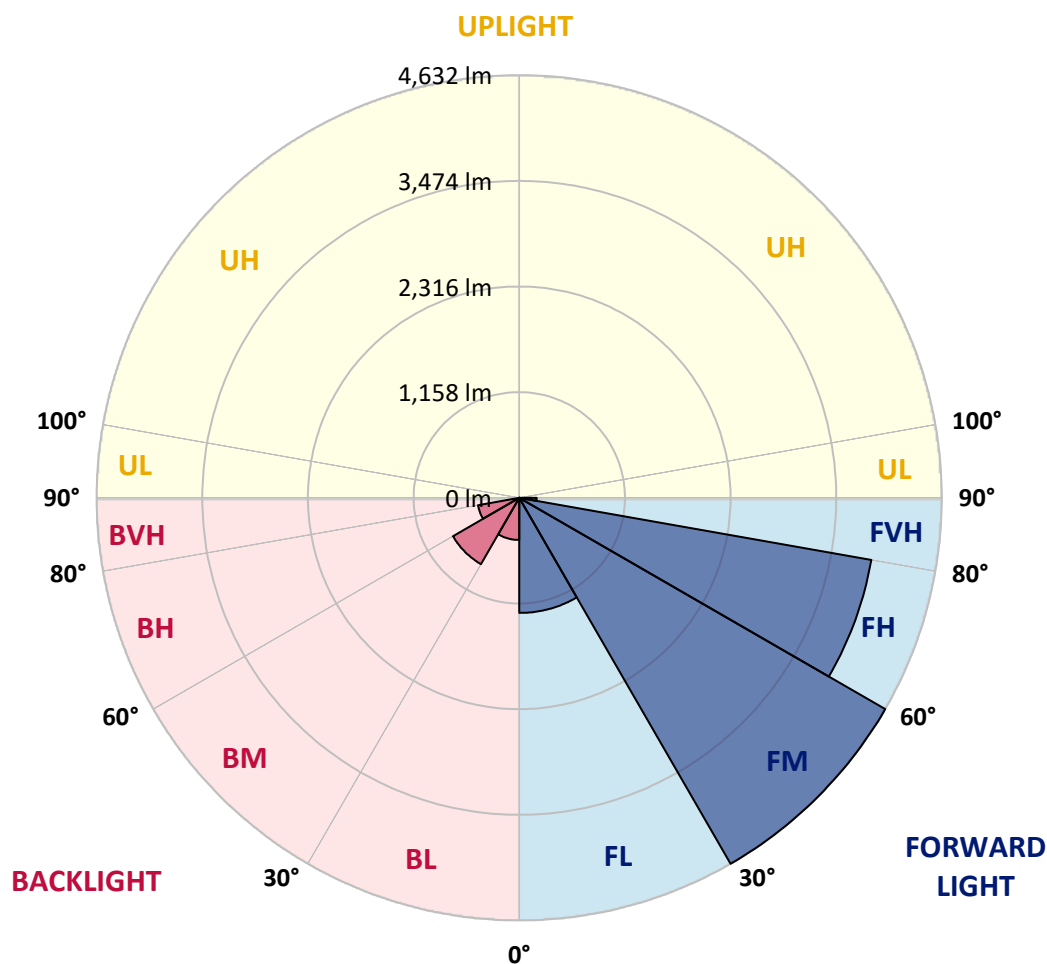
CATALOG NUMBER: GAN-SA2D-760-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1261.7	10.7			
FM	(30°-60°)	4632.5	39.4			
FH	(60°-80°)	3919.1	33.3			G2/5000
FVH	(80°-90°)	190.5	1.6			G2/225
BL	(0°-30°)	461.9	3.9	B1/500		
BM	(30°-60°)	839.6	7.1	B1/1000		
BH	(60°-80°)	458.8	3.9	B1/500		G1/500
BVH	(80°-90°)	6.0	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°	3948.6	3948.6	3948.6	3948.6	3948.6	3948.6	3948.6	3948.6	3948.6	3948.6	3948.6
2.5°	4280.4	4287.1	4321.6	4401.9	4489.5	4496.2	4555.3	4494.5	4473.9	4375.7	4274.2
5°	4312.7	4338.4	4457.1	4693.0	4897.6	4963.4	5010.2	4890.9	4765.5	4525.7	4269.8
7.5°	4052.3	4095.3	4282.1	4724.8	5090.5	5252.2	5282.9	5096.1	4788.9	4394.1	4009.4
10°	3718.9	3768.0	3993.2	4537.4	5039.8	5316.9	5359.3	5114.5	4672.9	4181.1	3727.8
12.5°	3449.1	3506.5	3736.8	4326.7	4865.3	5171.9	5255.6	5052.6	4572.5	4030.0	3535.5
15°	3324.7	3390.5	3632.5	4190.6	4671.8	4913.2	4982.3	4894.8	4516.8	4006.1	3490.9
17.5°	3396.1	3467.5	3717.2	4202.3	4490.0	4593.2	4648.9	4684.6	4516.8	4150.5	3621.3
20°	3688.8	3765.8	4030.0	4321.1	4339.5	4301.0	4360.7	4486.1	4569.2	4424.8	3934.7
22.5°	4093.6	4183.9	4482.2	4524.6	4265.9	4120.4	4128.2	4325.0	4664.5	4772.7	4369.6
25°	4587.0	4697.4	5000.7	4827.9	4296.6	4012.8	4010.0	4192.3	4757.7	5121.2	4854.1
27.5°	5077.1	5198.7	5465.2	5198.1	4423.1	3993.2	3987.7	4152.1	4848.5	5431.2	5383.2
30°	5488.1	5606.3	5836.0	5466.3	4559.7	4039.0	4012.2	4195.1	4902.6	5632.5	5769.1
32.5°	5822.6	5917.4	6103.0	5650.9	4705.8	4127.6	4069.6	4309.9	4994.6	5802.5	6123.7
35°	6190.6	6290.4	6364.5	5826.5	4869.7	4255.3	4172.2	4492.3	5136.2	5975.4	6512.3
37.5°	6610.4	6709.7	6700.7	5987.1	5077.7	4466.6	4413.6	4781.1	5356.5	6146.5	6946.1
40°	7021.3	7122.8	7050.3	6162.7	5321.9	4815.1	4776.1	5214.9	5651.4	6365.7	7454.6
42.5°	7406.1	7515.9	7360.9	6328.9	5612.9	5254.4	5321.3	5773.5	6020.5	6635.5	7892.8
45°	7716.1	7828.1	7621.3	6490.5	5919.6	5787.5	5988.7	6392.4	6464.3	6863.6	8188.9
47.5°	7941.3	8047.3	7801.9	6652.2	6312.1	6439.3	6790.0	7041.4	6865.2	7061.5	8399.1
50°	8085.2	8167.7	7854.9	6854.6	6827.3	7199.8	7624.6	7747.3	7242.7	7239.9	8654.4
52.5°	8176.6	8214.0	7893.9	7065.9	7364.8	8027.7	8442.0	8480.5	7631.3	7436.2	8998.4
55°	8491.6	8521.7	8170.5	7321.9	7809.2	8753.1	9181.3	9145.6	8071.2	7820.3	9404.3
57.5°	9029.1	9060.9	8742.0	7689.9	8168.8	9201.4	9717.1	9781.3	8587.0	8360.0	9839.2
60°	9299.0	9358.1	9244.3	8156.0	8517.3	9488.0	10082.3	10287.0	9231.5	9071.5	10260.8
62.5°	9054.2	9140.1	9305.1	8672.8	8863.5	9645.8	10196.1	10468.2	9891.7	9900.6	10520.6
65°	8565.8	8634.4	8914.3	8956.1	9064.2	9626.3	9915.1	10215.0	10295.9	10662.2	10506.6
67.5°	7975.9	8001.5	8239.1	8978.4	8773.2	9039.7	9070.9	9292.8	9976.4	10932.1	10084.6
70°	7126.7	7140.7	7348.1	8231.8	7539.3	7597.9	7551.6	7596.7	8576.9	10274.7	9019.1
72.5°	5735.6	5770.7	6065.7	6836.2	5492.5	5323.6	5687.1	5667.0	6605.4	8680.6	6698.5
75°	4223.0	4283.7	4729.2	5506.5	3855.0	3487.0	3752.4	3823.2	4695.8	6714.7	4188.9
77.5°	2956.7	3001.9	3433.4	4047.9	2790.0	2493.4	2397.5	2481.7	3099.5	4857.5	2110.4
80°	1703.3	1720.1	1995.5	2337.3	1880.1	2151.1	1948.7	2006.7	1857.2	2161.1	907.7
82.5°	1114.6	1117.3	1225.0	1391.1	1170.9	1360.4	1007.0	1287.4	1142.4	868.1	295.5
85°	602.2	605.5	710.3	987.4	662.9	374.7	220.2	452.2	706.4	199.0	80.8
87.5°	66.3	60.8	214.1	359.1	184.0	34.0	11.7	50.7	113.2	12.8	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°	3948.6	3948.6	3948.6	3948.6	3948.6	3948.6	3948.6	3948.6	3948.6	3948.6	3948.6
2.5°	4222.4	4176.1	4060.7	3938.6	3840.5	3748.5	3655.9	3542.7	3455.2	3437.4	3408.4
5°	4132.1	3985.4	3743.5	3500.4	3304.7	3057.7	2901.0	2778.9	2659.6	2652.3	2628.3
7.5°	3816.5	3623.6	3282.9	2946.7	2671.3	2436.0	2198.5	2039.6	1914.7	1870.6	1844.4
10°	3513.2	3296.3	2870.9	2487.3	2241.4	2033.4	1866.2	1700.0	1549.5	1445.8	1398.9
12.5°	3301.3	3061.6	2592.6	2262.0	2085.8	1888.5	1684.4	1477.0	1303.6	1178.7	1102.3
15°	3219.3	2963.4	2499.5	2172.8	1955.4	1705.6	1444.6	1207.7	1015.3	902.1	833.6
17.5°	3316.9	3019.2	2492.3	2064.1	1760.2	1449.7	1161.4	881.5	700.3	614.4	570.4
20°	3564.5	3196.5	2489.5	1930.8	1528.3	1146.3	786.7	579.9	470.0	422.1	401.4
22.5°	3914.6	3422.9	2511.8	1799.2	1286.8	819.1	543.1	426.0	369.7	344.0	332.3
25°	4365.1	3740.7	2574.8	1679.9	1059.9	611.1	423.2	356.8	317.3	297.2	288.8
27.5°	4845.2	4106.4	2672.9	1576.2	875.4	487.3	362.4	305.5	277.1	263.2	255.4
30°	5241.1	4530.2	2772.2	1460.8	741.6	424.9	331.7	278.8	245.9	237.0	229.7
32.5°	5587.3	4850.8	2842.4	1356.5	654.0	377.5	300.0	249.2	226.9	209.6	201.8
35°	5945.8	5117.8	2840.2	1283.5	593.8	341.8	273.2	223.0	196.3	176.2	170.1
37.5°	6333.9	5419.5	2791.7	1221.1	567.6	313.3	258.1	209.1	182.3	162.2	154.4
40°	6788.3	5736.2	2742.1	1162.5	560.3	290.5	247.6	197.9	169.5	150.0	142.2
42.5°	7231.0	6021.6	2698.6	1119.0	529.1	289.9	238.1	189.6	159.5	140.5	131.6
45°	7585.0	6287.6	2690.2	1092.8	496.2	300.0	233.1	184.0	151.7	132.7	124.3
47.5°	7879.4	6576.4	2743.7	1074.4	465.0	273.8	245.3	180.1	144.4	126.0	116.5
50°	8229.6	6931.0	2869.8	1044.3	432.1	246.4	281.0	181.2	138.3	119.3	109.3
52.5°	8718.0	7421.7	3054.9	993.6	386.9	221.4	276.5	182.3	131.6	112.1	102.0
55°	9265.5	8034.4	3253.9	909.4	323.9	188.5	237.0	174.5	118.8	104.3	94.8
57.5°	9840.9	8590.3	3372.1	809.0	257.6	162.8	189.6	158.9	104.8	93.7	87.5
60°	9931.2	8801.6	3318.0	685.8	204.6	141.6	140.5	161.7	93.7	82.5	78.1
62.5°	9706.5	8536.2	3056.5	576.0	171.2	124.3	115.4	141.1	84.7	73.6	69.1
65°	9274.4	7818.7	2632.8	519.1	158.9	106.5	95.9	99.2	74.2	64.1	60.2
67.5°	8673.4	6860.8	2161.7	486.7	157.2	91.4	82.0	75.3	64.1	55.8	52.4
70°	7444.5	5715.5	1724.5	468.9	152.8	76.9	69.1	61.3	53.5	47.4	44.6
72.5°	5479.1	4050.1	1341.5	449.4	153.9	61.3	60.2	50.7	42.9	36.8	35.7
75°	3165.8	2313.9	879.8	364.1	146.6	47.4	50.2	35.7	30.1	25.6	25.6
77.5°	1687.2	1411.2	335.1	151.7	53.5	30.1	28.4	21.2	19.0	15.6	15.1
80°	735.4	621.1	100.9	42.4	29.6	16.2	10.6	9.5	8.4	6.7	6.1
82.5°	260.4	224.7	32.9	20.6	12.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	59.1	42.4	0.0	5.0	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°	3948.6	3948.6	3948.6	3948.6	3948.6	3948.6	3948.6	3948.6	3948.6	3948.6	3948.6
2.5°	3349.3	3337.0	3264.5	3267.3	3280.1	3298.5	3255.0	3275.1	3329.2	3381.0	3400.6
5°	2589.9	2592.6	2548.6	2575.9	2600.5	2617.2	2546.9	2548.0	2591.0	2649.5	2680.2
7.5°	1824.9	1820.4	1822.7	1887.9	1934.2	1900.7	1926.9	1836.0	1841.6	1883.4	1852.2
10°	1356.5	1295.2	1260.6	1309.7	1360.4	1342.0	1296.9	1267.3	1288.0	1334.2	1330.9
12.5°	1066.1	978.0	926.1	891.0	932.8	898.2	897.1	871.5	843.6	848.6	922.8
15°	801.8	737.7	676.3	620.0	618.9	607.2	547.5	480.6	475.0	478.4	516.9
17.5°	551.4	529.7	504.6	456.1	443.3	394.2	336.2	309.4	296.1	302.2	315.0
20°	387.5	379.1	381.9	355.7	337.3	290.5	256.5	245.9	243.7	249.8	255.9
22.5°	321.2	306.1	304.4	292.7	274.3	240.3	221.9	215.8	213.0	218.6	223.0
25°	281.0	266.0	259.8	252.6	233.1	209.6	198.5	192.9	190.1	193.5	196.3
27.5°	247.6	233.6	228.0	223.0	204.1	187.3	178.4	173.4	171.2	172.3	175.1
30°	222.5	210.2	203.0	196.8	180.6	168.9	161.1	156.1	153.9	153.9	156.7
32.5°	196.3	189.6	182.9	175.1	160.0	152.2	144.4	138.8	136.6	137.2	139.4
35°	163.4	161.1	162.8	155.6	142.7	136.0	128.2	122.1	120.4	121.0	123.2
37.5°	145.0	134.9	141.1	137.2	129.9	121.0	111.0	105.4	102.6	104.3	105.4
40°	133.3	121.0	116.5	120.4	119.3	104.8	95.9	90.3	88.1	88.7	89.8
42.5°	123.2	108.7	98.7	98.1	104.8	91.4	82.0	76.9	74.2	74.2	75.3
45°	113.7	98.1	85.9	76.4	88.1	77.5	68.6	64.1	60.8	60.8	61.3
47.5°	106.5	89.2	74.7	62.4	66.3	63.6	56.3	51.9	48.5	48.5	49.1
50°	99.8	80.3	64.7	52.4	49.6	52.4	45.7	40.7	38.5	37.9	39.0
52.5°	92.6	71.4	55.2	44.6	39.0	39.6	35.7	32.3	29.6	29.6	30.7
55°	85.3	64.1	48.0	37.9	32.3	29.6	28.4	26.2	24.0	24.0	25.1
57.5°	78.1	56.3	40.7	31.2	25.6	23.4	23.4	21.7	20.1	20.1	21.2
60°	71.4	48.5	33.5	25.6	20.1	19.5	20.1	18.4	17.3	17.3	18.4
62.5°	63.6	41.3	27.3	21.2	16.2	15.6	17.3	16.2	15.1	15.1	16.2
65°	54.1	35.1	21.7	16.2	12.3	12.3	14.5	13.4	12.3	12.3	13.4
67.5°	45.7	29.6	16.7	11.7	8.9	9.5	12.3	11.2	10.6	10.6	11.7
70°	37.9	22.9	11.7	7.2	5.0	7.2	9.5	9.5	9.5	9.5	10.6
72.5°	28.4	15.6	6.7	2.8	2.2	5.0	7.8	8.9	8.4	8.4	10.0
75°	18.4	8.9	2.2	0.0	0.0	2.8	6.1	7.2	7.2	6.7	8.4
77.5°	10.6	2.8	0.0	0.0	0.0	0.0	3.9	3.3	2.8	2.2	3.9
80°	2.8	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-760-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3948.6	3948.6	3948.6	3948.6	3948.6	3948.6	3948.6	3948.6	3948.6	3948.6
2.5°	3479.2	3545.0	3637.5	3735.6	3886.7	4006.6	4124.3	4225.2	4264.2	4280.4
5°	2753.8	2850.2	2985.7	3159.7	3432.3	3677.7	3926.3	4176.7	4285.4	4312.7
7.5°	1976.0	2099.2	2271.5	2489.5	2809.0	3126.8	3474.2	3841.6	4010.0	4052.3
10°	1462.5	1613.0	1810.4	2040.1	2345.1	2671.8	3050.4	3470.2	3662.6	3718.9
12.5°	1037.6	1241.1	1505.4	1784.7	2049.0	2340.6	2723.7	3186.5	3388.3	3449.1
15°	609.4	806.2	1119.0	1493.1	1831.6	2127.1	2516.3	3040.9	3263.4	3324.7
17.5°	349.6	447.7	684.1	1101.2	1560.6	1969.9	2451.0	3077.2	3339.2	3396.1
20°	267.1	298.3	394.2	709.2	1243.9	1815.4	2451.0	3282.4	3605.2	3688.8
22.5°	233.6	256.5	295.5	423.2	915.5	1649.8	2479.5	3579.0	4001.0	4093.6
25°	207.4	228.0	261.5	318.4	624.5	1453.0	2546.9	3943.1	4467.2	4587.0
27.5°	185.7	205.2	235.3	278.8	427.1	1215.5	2637.8	4370.1	4981.2	5077.1
30°	166.2	184.6	211.9	242.5	329.5	946.2	2715.3	4772.7	5384.9	5488.1
32.5°	147.8	164.5	189.0	211.9	269.9	699.7	2723.7	5091.6	5720.0	5822.6
35°	130.5	145.5	167.8	185.7	223.6	552.5	2593.8	5368.2	6055.1	6190.6
37.5°	113.7	128.2	147.8	161.1	196.8	450.5	2395.3	5676.5	6485.0	6610.4
40°	98.1	111.0	131.0	139.9	186.2	346.2	2179.5	5999.9	6906.5	7021.3
42.5°	83.6	95.9	115.4	132.7	163.4	258.7	1946.4	6303.2	7285.6	7406.1
45°	69.7	82.5	102.0	140.5	135.5	193.5	1697.2	6504.5	7585.0	7716.1
47.5°	56.3	70.8	97.6	133.8	108.2	142.2	1499.8	6695.2	7812.0	7941.3
50°	45.2	59.7	109.8	119.3	88.7	108.7	1417.3	6865.8	7960.8	8085.2
52.5°	36.8	50.2	103.7	91.4	74.2	89.8	1461.9	7142.3	8098.5	8176.6
55°	30.7	39.6	62.4	63.6	63.0	76.4	1517.1	7539.3	8454.8	8491.6
57.5°	26.8	31.8	43.5	49.1	53.0	68.0	1518.2	8109.1	9006.3	9029.1
60°	22.9	27.9	36.2	39.6	45.7	60.8	1463.0	8308.2	9223.1	9299.0
62.5°	20.1	24.5	30.1	32.9	38.5	54.6	1333.7	8019.9	8925.4	9054.2
65°	17.8	22.3	25.1	27.9	34.0	49.1	1120.7	7443.4	8431.4	8565.8
67.5°	15.6	19.5	22.3	25.1	30.7	43.5	825.2	6773.8	7864.4	7975.9
70°	13.9	17.3	20.1	22.3	26.8	36.8	500.7	5747.9	7080.4	7126.7
72.5°	13.4	15.6	18.4	20.1	23.4	32.3	253.7	4224.1	5660.3	5735.6
75°	11.7	13.9	16.7	17.8	20.6	27.9	103.1	2774.4	4102.0	4223.0
77.5°	9.5	12.8	15.1	16.2	17.8	22.9	52.4	1773.0	2878.7	2956.7
80°	3.3	9.5	12.8	13.4	15.1	16.7	34.6	970.7	1669.9	1703.3
82.5°	0.0	6.1	10.0	9.5	10.6	12.8	22.3	461.7	1102.3	1114.6
85°	0.0	2.8	7.8	6.1	4.5	8.9	7.8	100.9	578.2	602.2
87.5°	0.0	0.0	0.6	2.8	2.2	3.3	1.1	0.6	52.4	66.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)