

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: P324459

Luminaire Tested: **GAN-SA5D-730-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324459
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-SA5D-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA 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: 26180 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

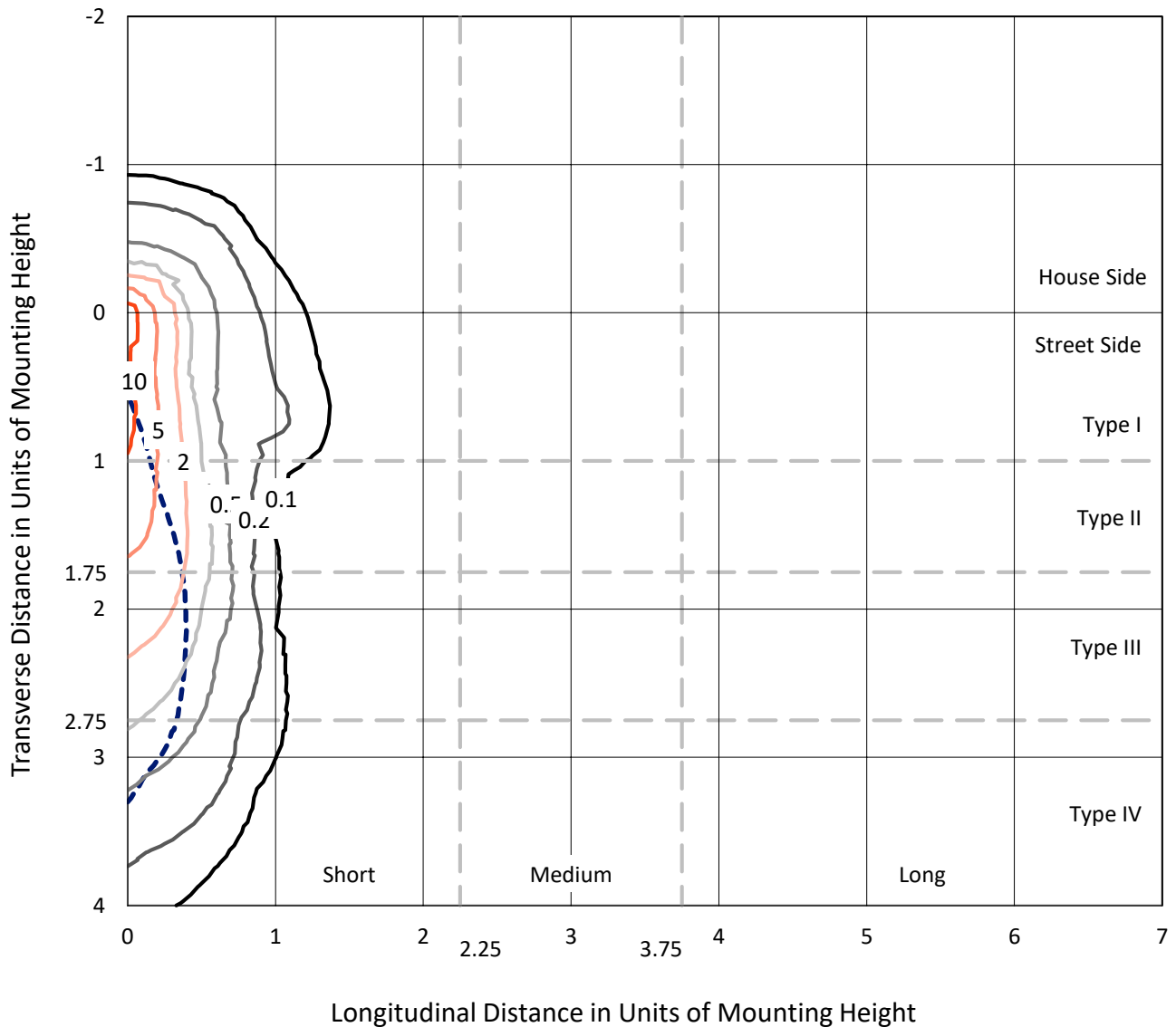
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

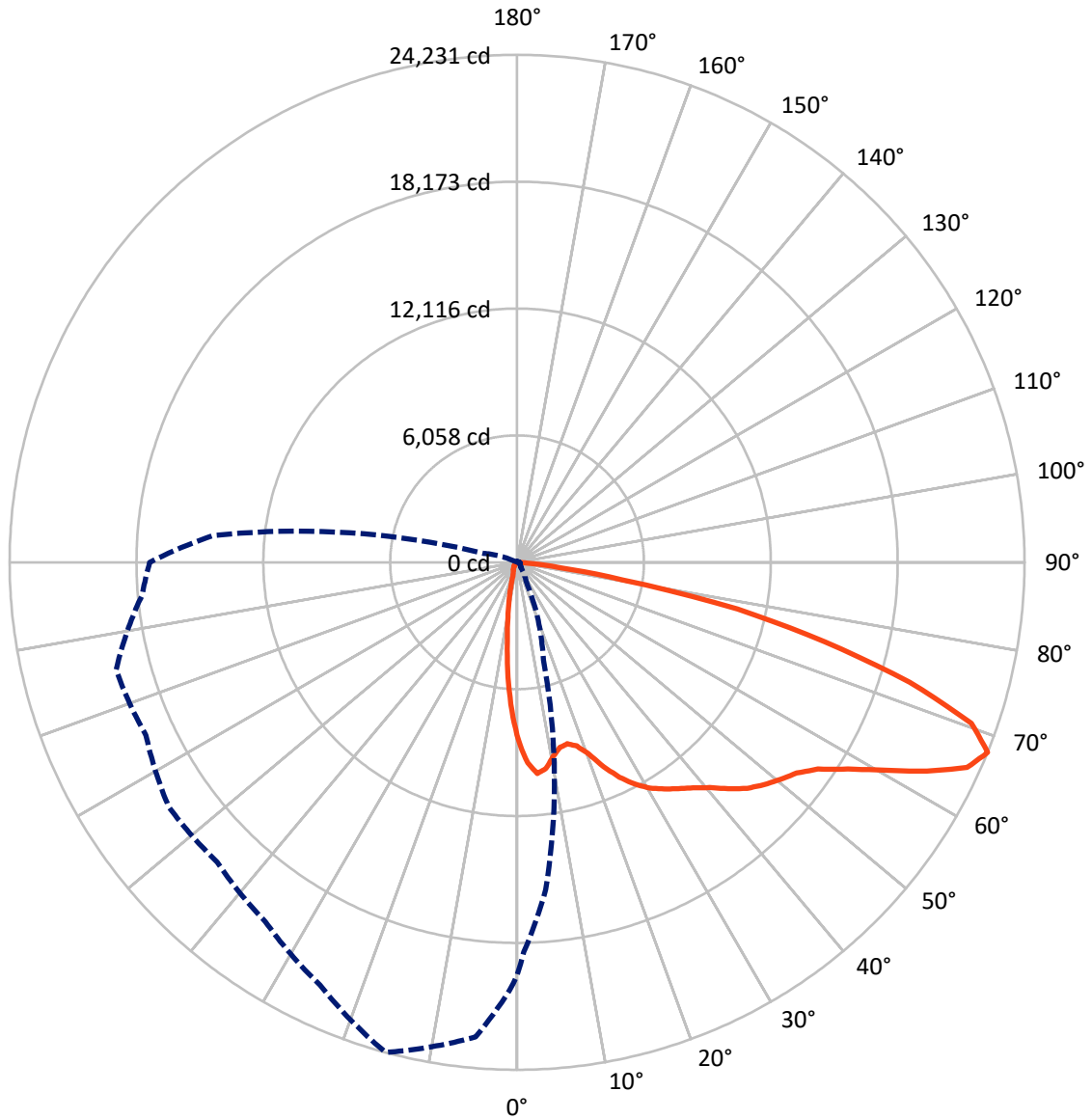
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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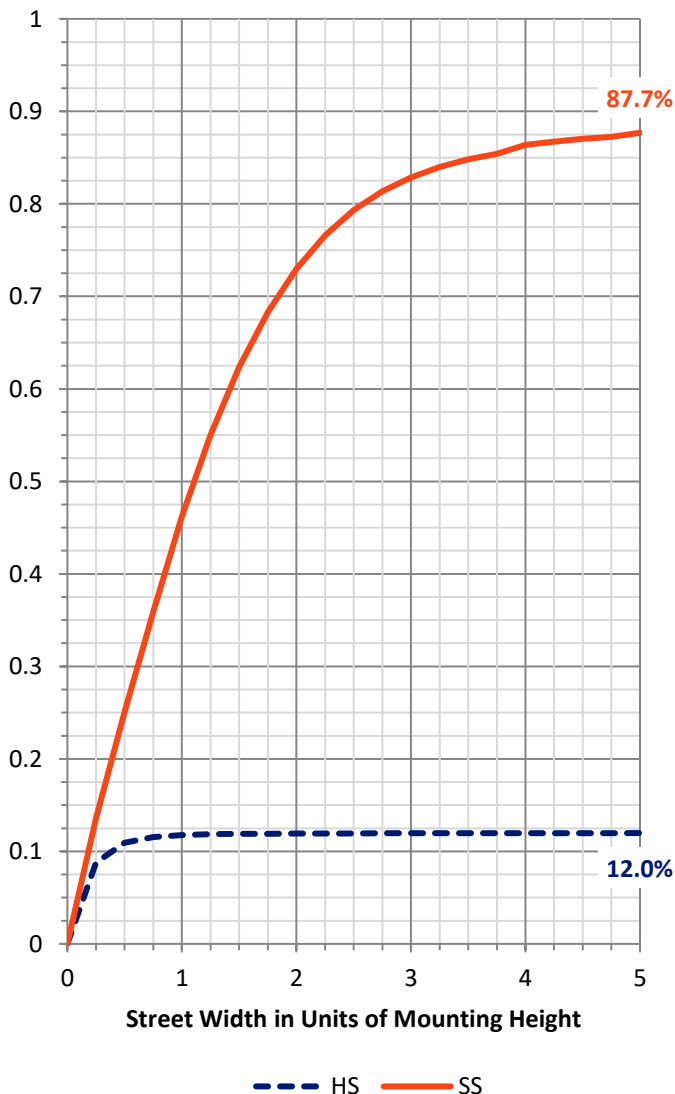
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3168.6	0.0	3168.6
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	23011.4	0.0	23011.4
	% Fixture	87.9	0.0	87.9
Total	Lumens	26180.0	0.0	26180.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	654.5	2.5
10°-20°	1302.8	5.0
20°-30°	1850.0	7.1
30°-40°	2732.6	10.4
40°-50°	3940.9	15.1
50°-60°	5532.2	21.1
60°-70°	6449.0	24.6
70°-80°	3296.9	12.6
80°-90°	421.0	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°	26180.0	100.0
0°-180°	26180.0	100.0

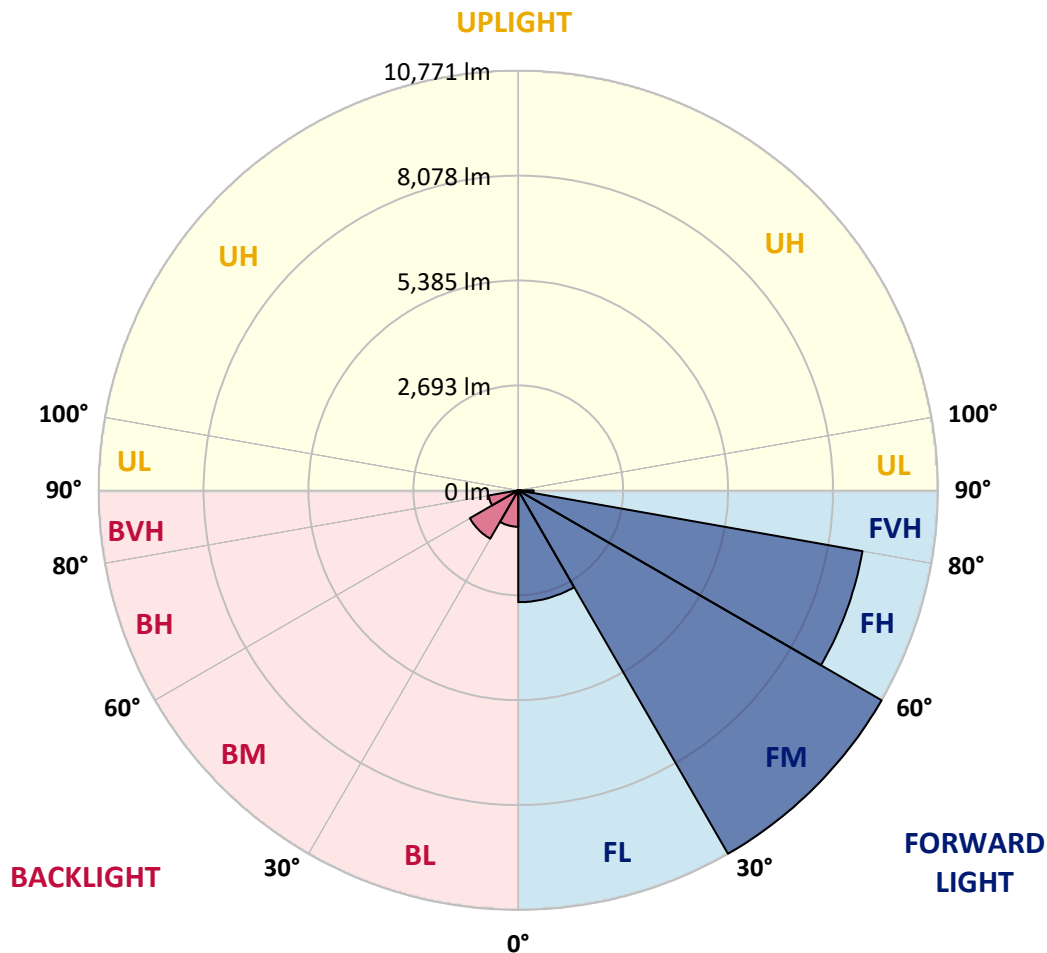


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2871.4	11.0			
FM (30°-60°)	10770.9	41.1			
FH (60°-80°)	8973.6	34.3			G4/12000
FVH (80°-90°)	395.5	1.5			G3/500
BL (0°-30°)	935.9	3.6	B2/1000		
BM (30°-60°)	1434.9	5.5	B2/2500		
BH (60°-80°)	772.3	2.9	B2/1000		G2/1000
BVH (80°-90°)	25.6	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°	8528.1	8528.1	8528.1	8528.1	8528.1	8528.1	8528.1	8528.1	8528.1	8528.1	8528.1
2.5°	9338.0	9266.0	9186.7	8927.5	8686.8	8411.5	8187.0	8030.7	7834.8	7580.5	7516.0
5°	9271.0	9194.1	8944.8	8368.1	7863.3	7372.2	6898.4	6620.6	6275.8	5926.0	5839.2
7.5°	8597.5	8516.9	8157.2	7367.2	6687.5	5978.1	5362.9	4982.2	4592.7	4272.7	4102.8
10°	7896.8	7808.7	7404.4	6445.7	5608.5	4967.3	4515.8	4152.4	3784.1	3441.7	3168.9
12.5°	7414.3	7299.0	6859.9	5773.5	5044.2	4608.8	4187.1	3751.8	3253.2	2886.1	2586.0
15°	7212.2	7080.7	6616.8	5514.2	4844.5	4333.5	3784.1	3249.5	2665.3	2244.9	1969.5
17.5°	7368.4	7197.3	6699.9	5496.9	4594.0	3898.2	3203.6	2576.0	1942.3	1516.8	1320.9
20°	7899.3	7674.8	7043.5	5491.9	4290.1	3381.0	2500.4	1790.9	1280.0	1029.4	926.5
22.5°	8735.2	8438.8	7537.1	5531.6	3976.3	2837.7	1805.8	1216.7	961.2	831.0	770.2
25°	9744.8	9401.2	8247.8	5671.7	3701.0	2309.4	1312.2	961.2	811.1	715.6	664.8
27.5°	10704.8	10425.7	9145.7	5873.9	3487.6	1882.7	1065.4	814.9	693.3	630.1	589.1
30°	11663.5	11312.5	10067.3	6114.5	3230.9	1593.7	936.4	742.9	621.4	554.4	528.4
32.5°	12360.5	12069.1	10789.1	6288.2	2956.8	1405.2	837.2	679.7	580.4	512.2	473.8
35°	13180.3	12850.4	11408.0	6326.6	2780.7	1286.2	752.8	611.5	503.5	442.8	401.8
37.5°	14065.9	13655.4	12122.4	6242.3	2643.0	1227.9	689.6	580.4	470.1	408.0	364.6
40°	15045.7	14581.8	12808.3	6120.7	2507.8	1208.0	641.2	556.9	444.0	380.8	336.1
42.5°	16077.6	15530.6	13402.3	5993.0	2422.2	1139.8	636.3	533.3	424.2	356.0	311.3
45°	16944.5	16390.1	14012.6	5950.8	2361.5	1065.4	657.3	517.2	410.5	336.1	292.7
47.5°	17635.4	17110.7	14637.6	6045.1	2326.7	997.2	599.0	538.3	403.1	318.7	276.6
50°	18460.2	17866.1	15518.2	6326.6	2275.9	929.0	542.0	616.4	403.1	307.6	262.9
52.5°	19494.5	18906.7	16500.5	6763.2	2174.2	834.7	487.4	617.7	406.8	292.7	245.6
55°	20795.6	20368.9	17903.3	7241.9	2011.7	695.8	421.7	530.8	391.9	265.4	229.4
57.5°	22043.3	21694.8	19182.0	7569.4	1794.7	543.2	367.1	427.9	358.4	233.2	204.6
59°	22384.4	22003.6	19650.8	7584.2	1632.2	473.8	339.8	353.5	351.0	218.3	189.8
60°	22384.4	21980.0	19786.0	7504.9	1514.4	435.3	322.5	315.0	365.9	208.4	181.1
62.5°	21978.8	21410.8	19346.9	6967.8	1235.3	370.8	281.5	260.5	328.7	187.3	160.0
65°	21135.4	20308.2	17851.2	5996.7	1101.4	339.8	243.1	213.3	228.2	165.0	140.2
67.5°	19729.0	18607.7	15694.4	4844.5	1048.0	331.2	209.6	181.1	172.4	141.4	122.8
70°	17252.1	16008.1	13076.2	3808.9	1002.1	327.4	176.1	152.6	138.9	119.1	104.2
72.5°	12556.5	11259.2	9283.4	2977.9	974.9	334.9	141.4	127.7	114.1	93.0	80.6
75°	7182.4	6332.8	5217.8	1967.1	831.0	320.0	109.1	106.7	81.9	67.0	55.8
77.5°	3710.9	3598.0	3126.7	755.3	398.1	140.2	71.9	62.0	48.4	40.9	33.5
80°	1601.2	1583.8	1370.5	218.3	105.4	78.1	40.9	26.0	22.3	17.4	13.6
82.5°	553.2	553.2	487.4	73.2	47.1	38.4	5.0	0.0	0.0	0.0	0.0
85°	111.6	125.3	88.1	0.0	16.1	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°	8528.1	8528.1	8528.1	8528.1	8528.1	8528.1	8528.1	8528.1	8528.1	8528.1	8528.1
2.5°	7437.9	7287.8	7277.9	7183.6	7065.8	7012.5	6981.5	7036.0	7103.0	7110.5	7210.9
5°	5773.5	5615.9	5681.7	5514.2	5547.7	5514.2	5459.7	5469.6	5499.4	5406.3	5521.7
7.5°	4054.4	3935.4	4011.0	3966.4	4025.9	4049.5	4016.0	3966.4	3820.0	3802.7	3903.1
10°	3056.0	2920.8	2840.2	2755.9	2774.5	2812.9	2800.5	2764.6	2671.5	2676.5	2773.2
12.5°	2455.7	2304.4	2144.4	1937.3	1886.4	1915.0	1886.4	1865.4	1776.1	1783.5	1869.1
15°	1862.9	1738.9	1571.4	1405.2	1314.7	1323.4	1244.0	1188.2	1132.4	1065.4	1117.5
17.5°	1257.6	1182.0	1132.4	1082.8	974.9	950.0	849.6	741.7	699.5	668.5	690.8
20°	890.5	849.6	829.7	827.3	765.2	734.2	636.3	569.3	548.2	542.0	555.6
22.5°	744.2	714.4	685.9	669.7	638.7	602.8	528.4	494.9	480.0	472.5	482.5
25°	647.4	625.1	595.3	568.0	555.6	517.2	463.9	439.1	429.1	421.7	426.7
27.5°	575.5	555.6	520.9	503.5	493.6	460.1	414.2	394.4	385.7	383.2	382.0
30°	518.4	499.8	467.6	447.7	430.4	400.6	373.3	353.5	344.8	342.3	339.8
32.5°	461.4	446.5	425.4	405.6	387.0	359.7	336.1	320.0	306.3	303.9	302.6
35°	389.4	374.6	363.4	362.2	344.8	318.7	301.4	280.3	269.1	265.4	266.7
37.5°	346.0	326.2	301.4	310.1	305.1	286.5	262.9	241.9	230.7	228.2	228.2
40°	318.7	297.7	269.1	254.3	269.1	265.4	228.2	207.1	196.0	194.7	192.2
42.5°	292.7	271.6	239.4	214.6	222.0	233.2	197.2	177.4	166.2	163.7	160.0
45°	274.1	251.8	215.8	187.3	172.4	196.0	168.7	143.9	137.7	132.7	130.2
47.5°	256.7	235.7	194.7	162.5	137.7	141.4	135.2	117.8	110.4	105.4	104.2
50°	241.9	219.5	176.1	138.9	114.1	104.2	109.1	93.0	86.8	81.9	79.4
52.5°	224.5	203.4	156.3	120.3	95.5	81.9	83.1	73.2	67.0	63.3	62.0
55°	210.8	189.8	140.2	105.4	84.3	67.0	59.5	57.1	53.3	50.9	49.6
57.5°	192.2	172.4	124.0	89.3	71.9	54.6	45.9	45.9	44.6	42.2	40.9
59°	181.1	163.7	114.1	80.6	65.7	47.1	40.9	42.2	40.9	38.4	37.2
60°	172.4	156.3	106.7	74.4	62.0	43.4	37.2	39.7	38.4	36.0	34.7
62.5°	152.6	141.4	91.8	62.0	54.6	34.7	31.0	33.5	33.5	32.2	31.0
65°	133.9	121.5	78.1	52.1	50.9	29.8	24.8	29.8	31.0	28.5	26.0
67.5°	116.6	104.2	68.2	42.2	47.1	23.6	18.6	24.8	33.5	26.0	23.6
70°	99.2	86.8	53.3	33.5	49.6	16.1	14.9	22.3	39.7	28.5	22.3
72.5°	76.9	67.0	37.2	24.8	53.3	11.2	11.2	18.6	44.6	31.0	21.1
75°	53.3	43.4	22.3	14.9	43.4	7.4	7.4	17.4	42.2	28.5	19.8
77.5°	31.0	23.6	7.4	1.2	22.3	0.0	1.2	12.4	29.8	17.4	8.7
80°	11.2	5.0	0.0	0.0	13.6	0.0	0.0	0.0	2.5	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°	8528.1	8528.1	8528.1	8528.1	8528.1	8528.1	8528.1	8528.1	8528.1	8528.1	8528.1
2.5°	7237.0	7404.4	7554.5	7781.4	8050.6	8360.7	8627.3	8913.8	9182.9	9294.6	9371.5
5°	5545.2	5752.4	5994.2	6327.9	6771.9	7318.8	7831.1	8410.3	9032.9	9344.2	9636.9
7.5°	3920.5	4131.3	4431.5	4786.2	5323.2	5974.4	6644.1	7444.1	8287.5	8779.9	9264.8
10°	2819.1	3078.3	3358.6	3843.6	4389.3	5007.0	5696.6	6589.5	7529.7	8075.4	8659.6
12.5°	1918.7	2213.9	2638.1	3181.3	3822.5	4427.8	5026.8	5878.9	6970.3	7511.1	8137.4
15°	1151.0	1314.7	1763.7	2392.5	3178.8	3932.9	4589.0	5443.5	6606.9	7269.2	7920.4
17.5°	709.4	785.1	1029.4	1545.4	2371.4	3325.2	4224.4	5295.9	6659.0	7465.2	8162.2
20°	565.6	595.3	673.5	912.8	1571.4	2655.4	3813.8	5266.2	7084.4	8076.6	8824.5
22.5°	491.1	519.7	571.8	663.5	988.5	1988.2	3424.4	5293.5	7694.6	8993.2	9866.3
25°	432.9	457.7	507.3	582.9	724.3	1400.3	3007.7	5415.0	8489.6	10130.5	11058.2
27.5°	387.0	408.0	453.9	523.4	621.4	977.3	2535.1	5562.6	9432.2	11293.9	12209.2
30°	344.8	363.4	404.3	468.8	539.5	751.6	2016.7	5663.1	10376.1	12209.2	13031.5
32.5°	308.8	322.5	359.7	414.2	468.8	599.0	1533.0	5646.9	11076.8	12970.7	13623.1
35°	271.6	285.3	317.5	364.6	408.0	494.9	1205.5	5345.6	11687.1	13760.8	14300.3
37.5°	230.7	248.1	279.1	321.2	351.0	435.3	974.9	4982.2	12305.9	14663.7	15055.6
40°	196.0	213.3	240.6	286.5	305.1	413.0	749.1	4539.4	13001.7	15673.3	15884.1
42.5°	162.5	178.6	207.1	246.8	287.7	356.0	554.4	4033.4	13670.2	16536.5	16639.4
45°	131.5	147.6	177.4	217.0	307.6	295.2	429.1	3491.4	14209.8	17254.6	17288.1
47.5°	104.2	119.1	150.1	204.6	286.5	235.7	306.3	3065.9	14662.5	17815.2	17727.2
50°	80.6	93.0	125.3	234.4	250.5	194.7	231.9	2924.6	15068.0	18162.5	17934.3
52.5°	63.3	74.4	102.9	219.5	194.7	161.2	194.7	3057.3	15623.7	18450.2	18050.9
55°	50.9	62.0	80.6	125.3	132.7	136.4	166.2	3181.3	16582.4	19124.9	18739.2
57.5°	42.2	53.3	65.7	88.1	100.5	115.3	147.6	3194.9	17712.3	20246.1	19881.5
59°	38.4	48.4	59.5	78.1	88.1	105.4	138.9	3120.5	18110.4	20654.2	20471.9
60°	36.0	45.9	55.8	71.9	81.9	99.2	133.9	3049.8	18127.8	20639.3	20723.6
62.5°	31.0	40.9	49.6	60.8	69.5	84.3	120.3	2788.1	17393.5	19963.4	20572.3
65°	27.3	36.0	44.6	52.1	59.5	75.7	109.1	2310.6	16139.6	18873.2	19536.7
67.5°	24.8	31.0	40.9	45.9	53.3	67.0	96.7	1647.1	14573.2	17539.9	17970.3
70°	22.3	29.8	37.2	42.2	48.4	58.3	83.1	946.3	12305.9	15587.7	15894.0
72.5°	21.1	28.5	33.5	39.7	43.4	52.1	75.7	445.3	9010.6	12487.0	13287.0
75°	18.6	26.0	31.0	37.2	40.9	47.1	64.5	213.3	5993.0	9036.6	9945.7
77.5°	11.2	21.1	28.5	33.5	36.0	40.9	53.3	122.8	3825.0	6254.7	7367.2
80°	0.0	7.4	21.1	28.5	31.0	34.7	40.9	96.7	2046.4	3573.2	4288.8
82.5°	0.0	0.0	14.9	22.3	21.1	23.6	31.0	60.8	922.8	2335.4	2631.8
85°	0.0	0.0	5.0	17.4	14.9	11.2	21.1	21.1	202.2	1182.0	1474.7
87.5°	0.0	0.0	0.0	1.2	7.4	5.0	8.7	2.5	1.2	88.1	357.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P324459

CATALOG NUMBER: GAN-SA5D-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8528.1	8528.1	8528.1	8528.1	8528.1	8528.1	8528.1	8528.1	8528.1	8528.1
2.5°	9640.6	9732.4	9887.4	9960.6	9924.6	9772.1	9589.8	9403.7	9294.6	9338.0
5°	10233.5	10706.0	10978.9	11069.4	10918.1	10575.8	10128.0	9537.7	9328.1	9271.0
7.5°	10233.5	11122.7	11685.8	11785.0	11447.7	10776.7	9937.0	9015.5	8709.2	8597.5
10°	9873.8	11084.3	11869.4	12026.9	11555.6	10552.2	9427.3	8375.5	8012.1	7896.8
12.5°	9468.2	10771.7	11599.0	11816.0	11429.1	10329.0	9073.8	7942.7	7514.8	7414.3
15°	9218.9	10387.2	11071.9	11229.4	11065.7	10198.7	8989.5	7812.5	7308.9	7212.2
17.5°	9308.2	10089.6	10336.4	10428.2	10538.6	10152.8	9218.9	8097.7	7460.2	7368.4
20°	9644.3	9775.8	9648.0	9763.4	10061.1	10197.5	9765.9	8787.3	8022.1	7899.3
22.5°	10214.9	9613.3	9254.9	9300.8	9662.9	10345.1	10601.8	9772.1	8889.0	8735.2
25°	10879.6	9744.8	9036.6	8995.7	9367.7	10539.8	11365.8	10843.7	9914.7	9744.8
27.5°	11715.6	10040.0	8991.9	8951.0	9264.8	10722.1	12000.8	11902.9	10995.0	10704.8
30°	12360.5	10330.2	9124.7	9030.4	9367.7	10848.6	12510.6	12802.1	11855.7	11663.5
32.5°	12823.1	10672.5	9340.5	9204.0	9658.0	11066.9	12903.8	13625.6	12652.0	12360.5
35°	13175.4	11044.6	9689.0	9464.5	10057.3	11398.1	13272.1	14502.5	13499.1	13180.3
37.5°	13505.3	11566.7	10233.5	9965.6	10683.7	11931.4	13661.6	15497.2	14446.6	14065.9
40°	13965.4	12158.4	11073.1	10835.0	11736.7	12658.2	14147.7	16534.0	15524.4	15045.7
42.5°	14425.6	12793.4	11932.6	11997.1	13050.1	13541.3	14775.3	17630.4	16588.6	16077.6
45°	14846.0	13448.2	13156.8	13454.4	14269.3	14509.9	15399.2	18264.2	17438.2	16944.5
47.5°	15220.6	14266.8	14373.5	15166.0	15655.9	15386.8	15865.5	18811.2	18070.7	17635.4
50°	15655.9	15326.0	15977.1	17098.3	17252.1	16180.5	16289.7	19458.6	18809.9	18460.2
52.5°	16132.2	16442.2	17753.2	18741.7	18692.1	17042.5	16716.3	20184.1	19823.2	19494.5
55°	16672.9	17343.9	19317.2	20279.6	20237.5	18005.0	17423.3	21080.8	21093.2	20795.6
57.5°	17475.4	18120.3	20378.9	21523.6	21594.3	19116.3	18621.4	22085.5	22241.7	22043.3
59°	18050.9	18623.9	20799.3	22043.3	22331.0	19975.8	19497.0	22668.4	22565.4	22384.4
60°	18477.5	18943.9	21007.7	22314.9	22758.9	20558.7	20143.2	23010.7	22603.9	22384.4
62.5°	19533.0	19640.9	21383.5	22622.5	23251.3	21853.5	21961.4	23593.6	22337.2	21978.8
65°	20025.4	20081.2	21378.5	22071.8	22775.1	22861.9	23611.0	23611.0	21686.1	21135.4
67.5°	19819.5	19550.4	20318.1	20246.1	20948.1	22262.8	24231.1	22745.3	20440.9	19729.0
70°	18145.1	17109.5	16768.4	16799.4	17336.5	19364.3	23003.3	20197.8	18084.4	17252.1
72.5°	15097.8	12613.5	11771.4	12732.6	12872.7	14882.0	19603.7	15210.7	13336.6	12556.5
75°	12143.5	8891.5	7522.2	8536.8	8774.9	10890.8	15164.8	9473.2	7790.1	7182.4
77.5°	8724.0	6382.4	5397.6	5327.0	5634.5	6907.1	10760.6	4767.6	3976.3	3710.9
80°	4956.1	4200.8	4523.3	4267.8	4422.8	4318.6	5112.4	2091.1	1712.8	1601.2
82.5°	2991.5	2483.0	2688.9	2238.7	2832.8	2466.9	1969.5	669.7	581.7	553.2
85°	1946.0	1356.9	707.0	473.8	976.1	1576.4	440.3	182.3	140.2	111.6
87.5°	671.0	346.0	34.7	14.9	104.2	293.9	16.1	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)