

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: P324219

Luminaire Tested: **GAN-SA5D-750-U-SLL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324219  
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-SA5D-750-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5000K, 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: 28750 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

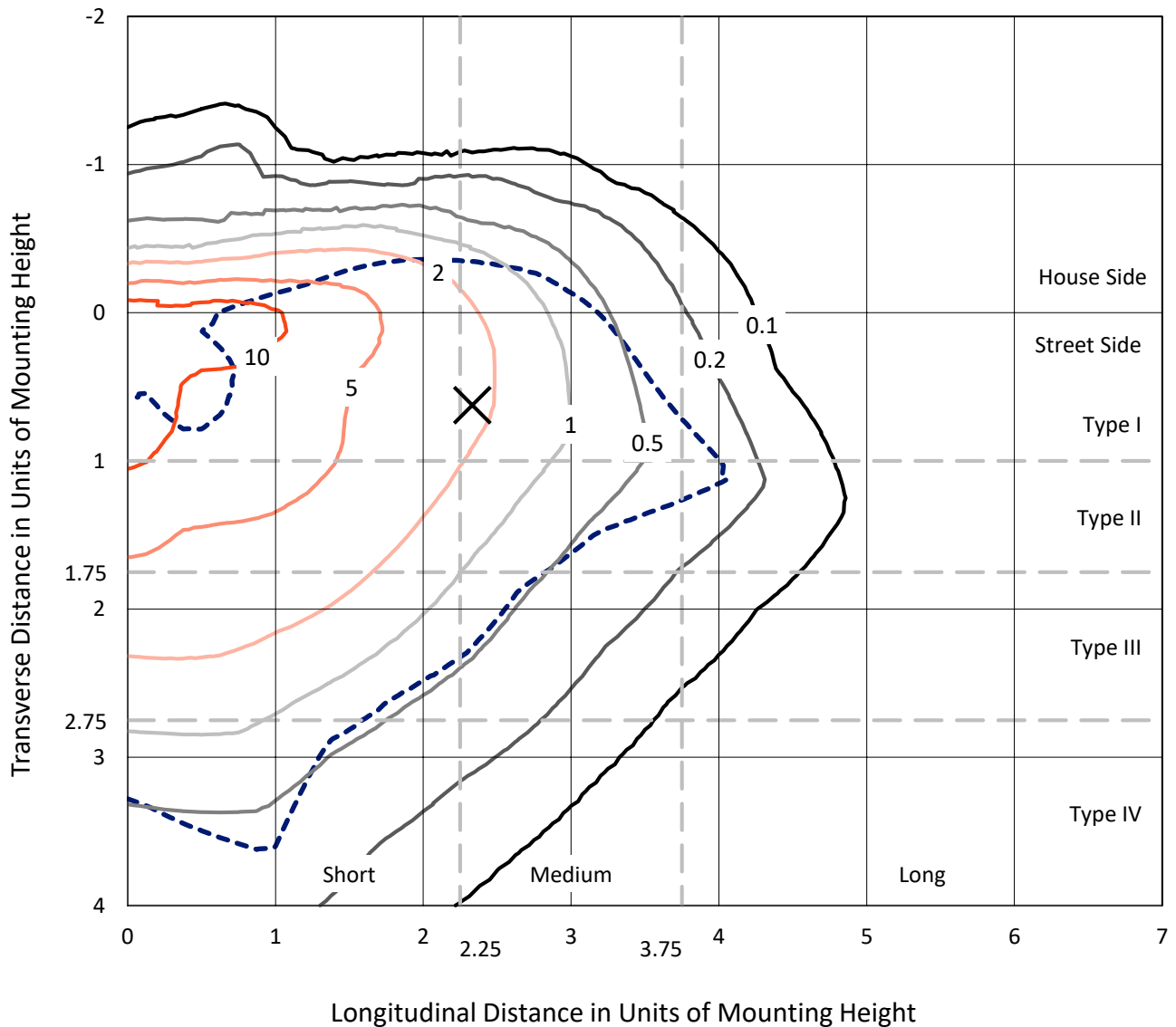
Input Watts (W): 320  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

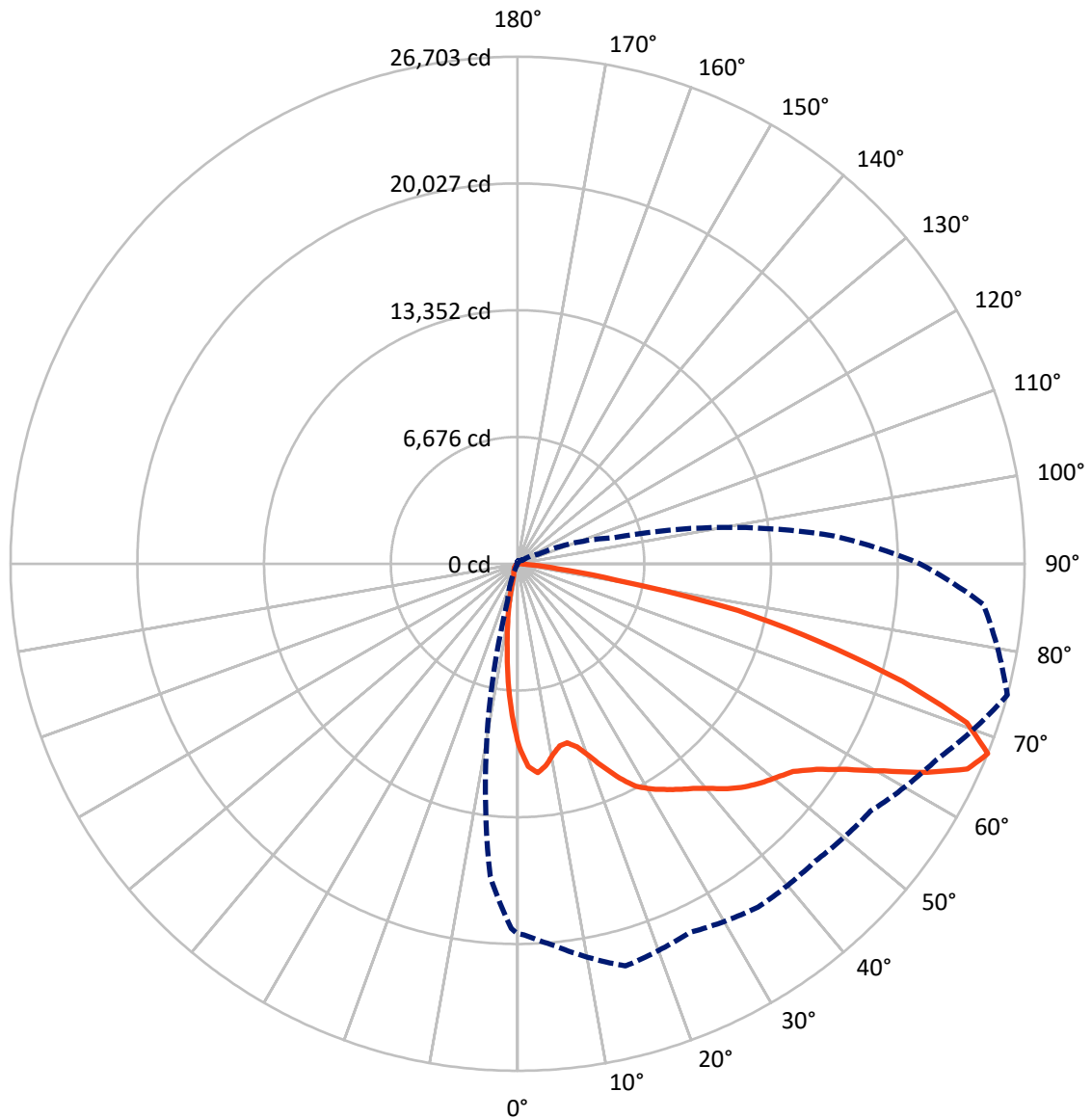
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4314.2	0.0	4314.2
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	24435.8	0.0	24435.8
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	28750.0	0.0	28750.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	731.6	2.5
10°-20°	1440.6	5.0
20°-30°	2038.0	7.1
30°-40°	2996.5	10.4
40°-50°	4306.9	15.0
50°-60°	6063.0	21.1
60°-70°	7081.0	24.6
70°-80°	3612.5	12.6
80°-90°	479.9	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°	28750.0	100.0
0°-180°	28750.0	100.0

**Coefficient of Utilization**

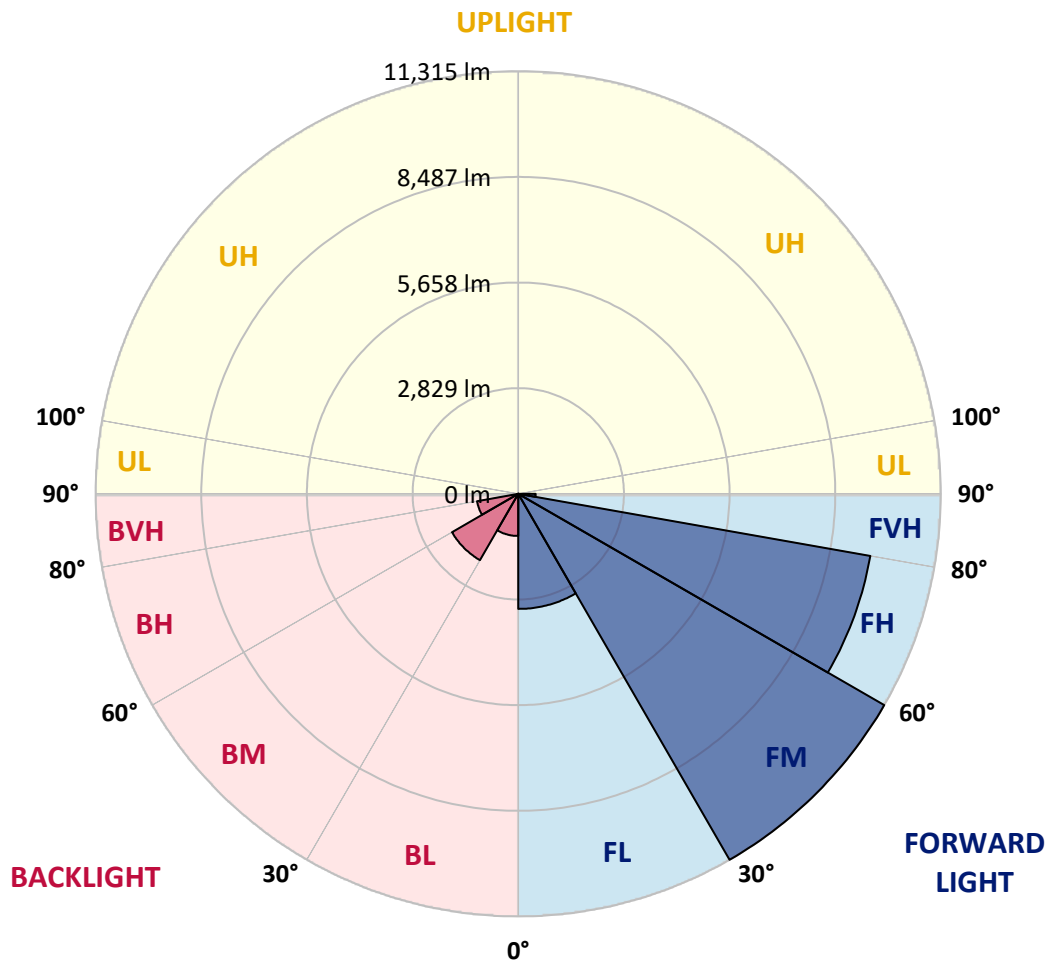


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3082.0	10.7			
FM (30°-60°)	11315.5	39.4			
FH (60°-80°)	9572.9	33.3			G4/12000
FVH (80°-90°)	465.3	1.6			G3/500
BL (0°-30°)	1128.2	3.9	B3/2500		
BM (30°-60°)	2050.9	7.1	B2/2500		
BH (60°-80°)	1120.6	3.9	B3/2500		G3/2500
BVH (80°-90°)	14.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9645.1	9645.1	9645.1	9645.1	9645.1	9645.1	9645.1	9645.1	9645.1	9645.1	9645.1
2.5°	10455.5	10471.8	10556.3	10752.4	10966.2	10982.5	11126.9	10978.5	10928.1	10688.4	10440.5
5°	10534.5	10597.1	10887.2	11463.3	11963.1	12123.8	12238.2	11946.8	11640.3	11054.7	10429.6
7.5°	9898.5	10003.3	10459.6	11540.9	12434.4	12829.3	12904.2	12448.0	11697.6	10733.3	9793.6
10°	9084.0	9203.9	9754.1	11083.3	12310.4	12987.3	13090.8	12492.9	11414.3	10213.1	9105.8
12.5°	8424.9	8565.1	9127.6	10568.5	11884.1	12633.2	12837.5	12341.7	11169.1	9844.0	8635.9
15°	8121.1	8281.8	8872.9	10236.2	11411.5	12001.3	12170.1	11956.3	11032.9	9785.4	8527.0
17.5°	8295.5	8469.8	9079.9	10264.8	10967.6	11219.5	11355.7	11442.9	11032.9	10138.1	8845.7
20°	9010.5	9198.4	9844.0	10554.9	10599.8	10505.9	10651.6	10958.0	11161.0	10808.2	9611.1
22.5°	9999.2	10219.9	10948.5	11052.0	10420.1	10064.6	10083.7	10564.4	11393.8	11658.1	10673.4
25°	11204.5	11474.2	12215.1	11792.9	10495.0	9801.8	9794.9	10240.3	11621.3	12509.3	11856.9
27.5°	12401.7	12698.6	13349.6	12697.2	10804.1	9754.1	9740.5	10142.2	11843.3	13266.5	13149.4
30°	13405.4	13694.1	14255.2	13352.3	11137.8	9865.8	9800.4	10247.1	11975.4	13758.1	14091.8
32.5°	14222.6	14454.1	14907.6	13803.1	11494.6	10082.3	9940.7	10527.7	12200.1	14173.5	14958.0
35°	15121.4	15365.2	15546.3	14232.1	11895.0	10394.2	10191.3	10973.0	12546.0	14595.7	15907.3
37.5°	16147.0	16389.4	16367.6	14624.3	12403.0	10910.4	10781.0	11678.5	13084.0	15013.8	16966.8
40°	17150.7	17398.6	17221.5	15053.3	12999.5	11761.6	11666.2	12738.1	13804.4	15549.1	18208.9
42.5°	18090.4	18358.7	17980.1	15459.2	13710.5	12834.8	12998.2	14102.7	14706.0	16208.2	19279.4
45°	18847.6	19121.4	18616.1	15854.1	14459.5	14136.8	14628.4	15614.4	15790.1	16765.3	20002.6
47.5°	19397.9	19656.6	19057.4	16249.1	15418.3	15728.8	16585.5	17199.7	16769.3	17248.7	20516.0
50°	19749.2	19950.8	19186.8	16743.5	16676.7	17586.5	18624.3	18923.9	17691.4	17684.6	21139.8
52.5°	19972.6	20063.8	19282.1	17259.6	17989.6	19609.0	20620.9	20714.8	18640.6	18164.0	21980.1
55°	20742.1	20815.6	19957.6	17884.8	19075.1	21380.8	22426.8	22339.6	19715.2	19102.3	22971.5
57.5°	22055.0	22132.6	21353.6	18783.6	19953.5	22475.8	23735.6	23892.2	20975.0	20420.7	24033.8
60°	22714.1	22858.5	22580.7	19922.2	20804.7	23175.8	24627.6	25127.5	22549.3	22158.5	25063.5
62.5°	22116.3	22326.0	22729.1	21184.7	21650.5	23561.3	24905.5	25570.1	24161.9	24183.7	25698.1
65°	20923.2	21090.7	21774.4	21876.6	22140.8	23513.6	24219.1	24951.8	25149.3	26044.0	25664.1
67.5°	19482.3	19544.9	20125.1	21931.0	21429.8	22080.8	22157.1	22699.2	24368.9	26703.2	24633.1
70°	17408.1	17442.1	17948.8	20107.4	18415.9	18558.9	18445.9	18556.2	20950.4	25097.5	22030.5
72.5°	14010.1	14095.9	14816.4	16698.5	13416.3	13003.6	13891.6	13842.6	16134.7	21203.8	16362.1
75°	10315.2	10463.6	11551.8	13450.3	9416.3	8517.5	9165.7	9338.7	11470.1	16401.6	10232.1
77.5°	7222.3	7332.6	8386.7	9887.6	6815.1	6090.5	5856.3	6061.9	7570.9	11865.1	5154.9
80°	4160.7	4201.5	4874.3	5709.2	4592.4	5254.3	4759.9	4901.6	4536.6	5278.8	2217.2
82.5°	2722.5	2729.3	2992.1	3398.0	2860.0	3323.1	2459.6	3144.7	2790.6	2120.5	721.8
85°	1470.9	1479.0	1735.1	2412.0	1619.3	915.2	538.0	1104.5	1725.6	486.2	197.5
87.5°	162.1	148.4	523.0	877.1	449.4	83.1	28.6	123.9	276.5	31.3	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°	9645.1	9645.1	9645.1	9645.1	9645.1	9645.1	9645.1	9645.1	9645.1	9645.1	9645.1
2.5°	10313.8	10200.8	9918.9	9620.6	9380.9	9156.2	8930.1	8653.7	8439.8	8396.3	8325.4
5°	10093.2	9735.0	9143.9	8550.1	8072.1	7468.8	7086.1	6787.8	6496.4	6478.7	6420.1
7.5°	9322.4	8851.1	8019.0	7197.8	6525.0	5950.2	5370.1	4981.9	4676.8	4569.2	4505.2
10°	8581.5	8051.7	7012.5	6075.5	5474.9	4966.9	4558.4	4152.5	3784.8	3531.5	3417.1
12.5°	8063.9	7478.3	6332.9	5525.3	5095.0	4612.8	4114.4	3607.7	3184.2	2879.1	2692.5
15°	7863.7	7238.6	6105.5	5307.4	4776.3	4166.1	3528.7	2949.9	2480.1	2203.6	2036.1
17.5°	8102.1	7374.8	6087.8	5041.8	4299.6	3541.0	2836.9	2153.2	1710.6	1500.8	1393.2
20°	8706.8	7807.9	6081.0	4716.3	3733.0	2800.1	1921.7	1416.4	1148.1	1031.0	980.6
22.5°	9562.1	8360.8	6135.5	4394.9	3143.3	2000.7	1326.5	1040.5	903.0	840.3	811.7
25°	10662.5	9137.1	6289.4	4103.5	2589.0	1492.7	1033.7	871.6	774.9	725.9	705.5
27.5°	11835.1	10030.6	6529.1	3850.2	2138.2	1190.3	885.2	746.3	676.9	642.8	623.8
30°	12802.1	11065.6	6771.5	3568.2	1811.4	1037.8	810.3	681.0	600.6	578.8	561.1
32.5°	13647.8	11848.7	6943.1	3313.6	1597.5	922.0	732.7	608.8	554.3	512.1	493.0
35°	14523.5	12501.1	6937.6	3135.1	1450.4	834.9	667.3	544.8	479.4	430.4	415.4
37.5°	15471.4	13237.9	6819.1	2982.6	1386.4	765.4	630.6	510.7	445.3	396.3	377.3
40°	16581.4	14011.5	6697.9	2839.6	1368.7	709.6	604.7	483.5	414.0	366.4	347.3
42.5°	17662.8	14708.8	6591.7	2733.4	1292.5	708.2	581.5	463.1	389.5	343.2	321.4
45°	18527.6	15358.4	6571.3	2669.4	1212.1	732.7	569.3	449.4	370.4	324.1	303.7
47.5°	19246.7	16063.9	6702.0	2624.4	1135.8	668.7	599.2	439.9	352.7	307.8	284.6
50°	20102.0	16930.1	7009.8	2550.9	1055.5	602.0	686.4	442.6	337.8	291.5	266.9
52.5°	21295.0	18128.5	7462.0	2426.9	945.2	540.7	675.5	445.3	321.4	273.7	249.2
55°	22632.4	19625.3	7948.2	2221.3	791.3	460.3	578.8	426.3	290.1	254.7	231.5
57.5°	24037.9	20983.1	8236.9	1976.1	629.2	397.7	463.1	388.1	256.0	228.8	213.8
60°	24258.6	21499.3	8104.8	1675.2	499.8	345.9	343.2	395.0	228.8	201.6	190.7
62.5°	23709.7	20851.0	7466.1	1406.9	418.1	303.7	281.9	344.6	207.0	179.8	168.9
65°	22654.2	19098.2	6431.0	1267.9	388.1	260.1	234.3	242.4	181.1	156.6	147.1
67.5°	21186.1	16758.5	5280.2	1189.0	384.1	223.4	200.2	183.9	156.6	136.2	128.0
70°	18184.4	13961.1	4212.4	1145.4	373.2	187.9	168.9	149.8	130.7	115.8	109.0
72.5°	13383.6	9893.0	3276.8	1097.7	375.9	149.8	147.1	123.9	104.9	89.9	87.2
75°	7733.0	5652.0	2149.1	889.3	358.2	115.8	122.6	87.2	73.5	62.6	62.6
77.5°	4121.2	3447.0	818.5	370.4	130.7	73.5	69.5	51.8	46.3	38.1	36.8
80°	1796.4	1517.2	246.5	103.5	72.2	39.5	25.9	23.2	20.4	16.3	15.0
82.5°	636.0	548.9	80.4	50.4	31.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	144.4	103.5	0.0	12.3	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°	9645.1	9645.1	9645.1	9645.1	9645.1	9645.1	9645.1	9645.1	9645.1	9645.1	9645.1
2.5°	8181.1	8151.1	7974.1	7980.9	8012.2	8057.1	7950.9	7999.9	8132.0	8258.7	8306.4
5°	6326.1	6332.9	6225.3	6292.1	6352.0	6392.9	6221.3	6224.0	6328.9	6471.9	6546.8
7.5°	4457.6	4446.7	4452.1	4611.5	4724.5	4642.8	4706.8	4484.8	4498.4	4600.6	4524.3
10°	3313.6	3163.7	3079.3	3199.2	3323.1	3278.1	3167.8	3095.6	3146.0	3259.1	3250.9
12.5°	2604.0	2388.8	2262.2	2176.4	2278.5	2194.1	2191.3	2128.7	2060.6	2072.8	2254.0
15°	1958.4	1801.8	1652.0	1514.5	1511.7	1483.1	1337.4	1174.0	1160.4	1168.5	1262.5
17.5°	1346.9	1293.8	1232.5	1114.1	1082.7	962.9	821.2	755.9	723.2	738.2	769.5
20°	946.5	926.1	932.9	868.9	824.0	709.6	626.5	600.6	595.2	610.1	625.1
22.5°	784.5	747.7	743.6	715.0	670.1	587.0	542.0	527.1	520.3	533.9	544.8
25°	686.4	649.6	634.7	617.0	569.3	512.1	484.8	471.2	464.4	472.6	479.4
27.5°	604.7	570.6	557.0	544.8	498.5	457.6	435.8	423.6	418.1	420.8	427.6
30°	543.4	513.4	495.7	480.8	441.3	412.7	393.6	381.3	375.9	375.9	382.7
32.5°	479.4	463.1	446.7	427.6	390.9	371.8	352.7	339.1	333.7	335.0	340.5
35°	399.0	393.6	397.7	380.0	348.7	332.3	313.2	298.3	294.2	295.5	301.0
37.5°	354.1	329.6	344.6	335.0	317.3	295.5	271.0	257.4	250.6	254.7	257.4
40°	325.5	295.5	284.6	294.2	291.5	256.0	234.3	220.6	215.2	216.5	219.3
42.5°	301.0	265.6	241.1	239.7	256.0	223.4	200.2	187.9	181.1	181.1	183.9
45°	277.8	239.7	209.7	186.6	215.2	189.3	167.5	156.6	148.4	148.4	149.8
47.5°	260.1	217.9	182.5	152.5	162.1	155.3	137.6	126.7	118.5	118.5	119.8
50°	243.8	196.1	158.0	128.0	121.2	128.0	111.7	99.4	94.0	92.6	95.3
52.5°	226.1	174.3	134.8	109.0	95.3	96.7	87.2	79.0	72.2	72.2	74.9
55°	208.4	156.6	117.1	92.6	79.0	72.2	69.5	64.0	58.6	58.6	61.3
57.5°	190.7	137.6	99.4	76.3	62.6	57.2	57.2	53.1	49.0	49.0	51.8
60°	174.3	118.5	81.7	62.6	49.0	47.7	49.0	44.9	42.2	42.2	44.9
62.5°	155.3	100.8	66.7	51.8	39.5	38.1	42.2	39.5	36.8	36.8	39.5
65°	132.1	85.8	53.1	39.5	30.0	30.0	35.4	32.7	30.0	30.0	32.7
67.5°	111.7	72.2	40.9	28.6	21.8	23.2	30.0	27.2	25.9	25.9	28.6
70°	92.6	55.8	28.6	17.7	12.3	17.7	23.2	23.2	23.2	23.2	25.9
72.5°	69.5	38.1	16.3	6.8	5.4	12.3	19.1	21.8	20.4	20.4	24.5
75°	44.9	21.8	5.4	0.0	0.0	6.8	15.0	17.7	17.7	16.3	20.4
77.5°	25.9	6.8	0.0	0.0	0.0	0.0	9.5	8.2	6.8	5.4	9.5
80°	6.8	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



REPORT NUMBER: P324219  
 CATALOG NUMBER: GAN-SA5D-750-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9645.1	9645.1	9645.1	9645.1	9645.1	9645.1	9645.1	9645.1	9645.1	9645.1
2.5°	8498.4	8659.1	8885.2	9124.9	9494.0	9786.8	10074.1	10320.6	10416.0	10455.5
5°	6726.5	6962.1	7293.1	7718.0	8384.0	8983.2	9590.7	10202.2	10467.7	10534.5
7.5°	4826.7	5127.6	5548.5	6081.0	6861.4	7637.7	8486.1	9383.6	9794.9	9898.5
10°	3572.3	3940.0	4422.2	4983.3	5728.2	6526.3	7451.1	8476.6	8946.5	9084.0
12.5°	2534.5	3031.6	3677.2	4359.5	5005.1	5717.3	6653.0	7783.4	8276.4	8424.9
15°	1488.6	1969.3	2733.4	3647.2	4473.9	5195.7	6146.4	7427.9	7971.3	8121.1
17.5°	853.9	1093.6	1671.1	2689.8	3812.0	4811.7	5987.0	7516.4	8156.6	8295.5
20°	652.4	728.6	962.9	1732.4	3038.4	4434.4	5987.0	8017.6	8806.2	9010.5
22.5°	570.6	626.5	721.8	1033.7	2236.3	4029.9	6056.5	8742.2	9773.2	9999.2
25°	506.6	557.0	638.7	777.7	1525.4	3549.2	6221.3	9631.5	10911.7	11204.5
27.5°	453.5	501.2	574.7	681.0	1043.2	2969.0	6443.3	10674.7	12167.4	12401.7
30°	405.9	450.8	517.5	592.4	804.9	2311.2	6632.6	11658.1	13153.4	13405.4
32.5°	360.9	401.8	461.7	517.5	659.2	1709.2	6653.0	12437.1	13972.0	14222.6
35°	318.7	355.5	409.9	453.5	546.1	1349.7	6335.7	13112.6	14790.5	15121.4
37.5°	277.8	313.2	360.9	393.6	480.8	1100.4	5850.8	13865.7	15840.5	16147.0
40°	239.7	271.0	320.1	341.8	454.9	845.8	5323.8	14655.6	16870.1	17150.7
42.5°	204.3	234.3	281.9	324.1	399.0	631.9	4754.5	15396.5	17796.2	18090.4
45°	170.2	201.6	249.2	343.2	330.9	472.6	4145.7	15888.2	18527.6	18847.6
47.5°	137.6	173.0	238.3	326.9	264.2	347.3	3663.6	16354.0	19081.9	19397.9
50°	110.3	145.7	268.3	291.5	216.5	265.6	3462.0	16770.7	19445.5	19749.2
52.5°	89.9	122.6	253.3	223.4	181.1	219.3	3571.0	17446.2	19781.9	19972.6
55°	74.9	96.7	152.5	155.3	153.9	186.6	3705.8	18415.9	20652.2	20742.1
57.5°	65.4	77.6	106.2	119.8	129.4	166.2	3708.5	19807.8	21999.1	22055.0
60°	55.8	68.1	88.5	96.7	111.7	148.4	3573.7	20294.0	22528.9	22714.1
62.5°	49.0	59.9	73.5	80.4	94.0	133.5	3257.7	19589.9	21801.7	22116.3
65°	43.6	54.5	61.3	68.1	83.1	119.8	2737.5	18181.7	20595.0	20923.2
67.5°	38.1	47.7	54.5	61.3	74.9	106.2	2015.6	16546.0	19209.9	19482.3
70°	34.0	42.2	49.0	54.5	65.4	89.9	1223.0	14040.1	17295.1	17408.1
72.5°	32.7	38.1	44.9	49.0	57.2	79.0	619.7	10317.9	13826.2	14010.1
75°	28.6	34.0	40.9	43.6	50.4	68.1	252.0	6776.9	10019.7	10315.2
77.5°	23.2	31.3	36.8	39.5	43.6	55.8	128.0	4330.9	7031.6	7222.3
80°	8.2	23.2	31.3	32.7	36.8	40.9	84.4	2371.1	4079.0	4160.7
82.5°	0.0	15.0	24.5	23.2	25.9	31.3	54.5	1127.7	2692.5	2722.5
85°	0.0	6.8	19.1	15.0	10.9	21.8	19.1	246.5	1412.3	1470.9
87.5°	0.0	0.0	1.4	6.8	5.4	8.2	2.7	1.4	128.0	162.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)