

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: P324221

Luminaire Tested: **GAN-SA7D-750-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324221
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-SA7D-750-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 40686 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

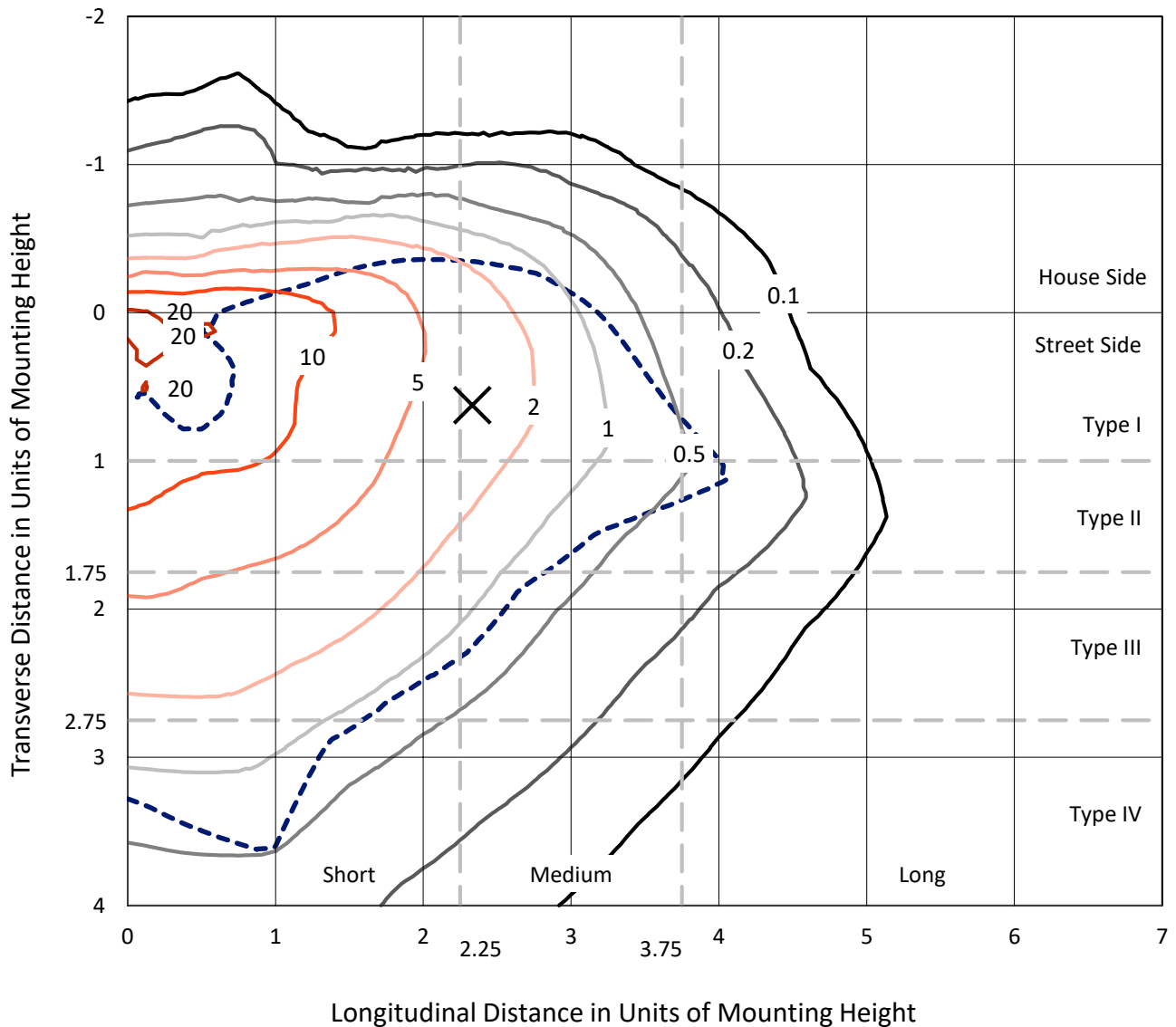
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324221
 CATALOG NUMBER: GAN-SA7D-750-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

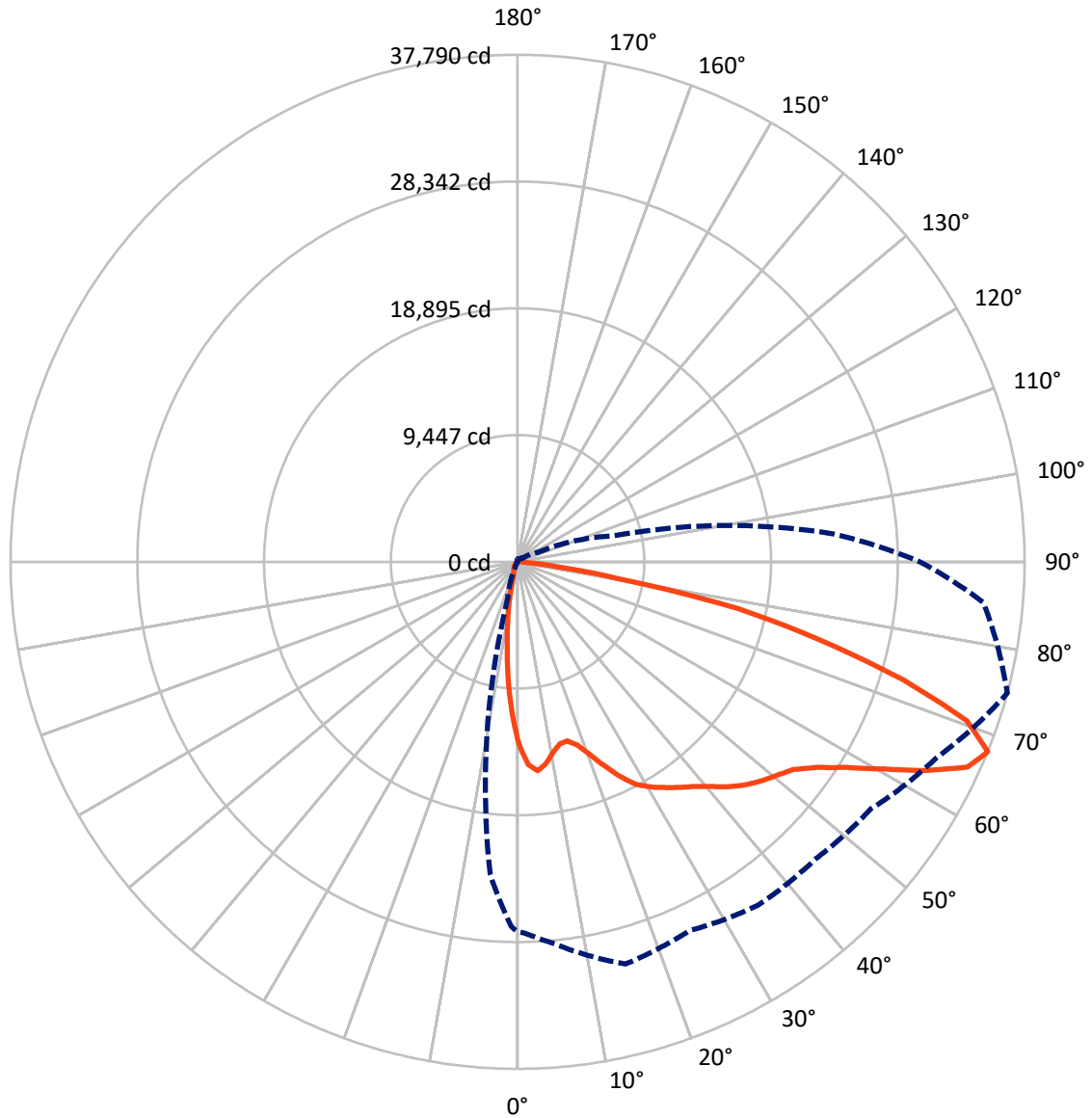
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.3 fc
 Type III - Medium - N/A

REPORT NUMBER: P324221
CATALOG NUMBER: GAN-SA7D-750-U-SLL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P324221
 CATALOG NUMBER: GAN-SA7D-750-U-SLL-HSS

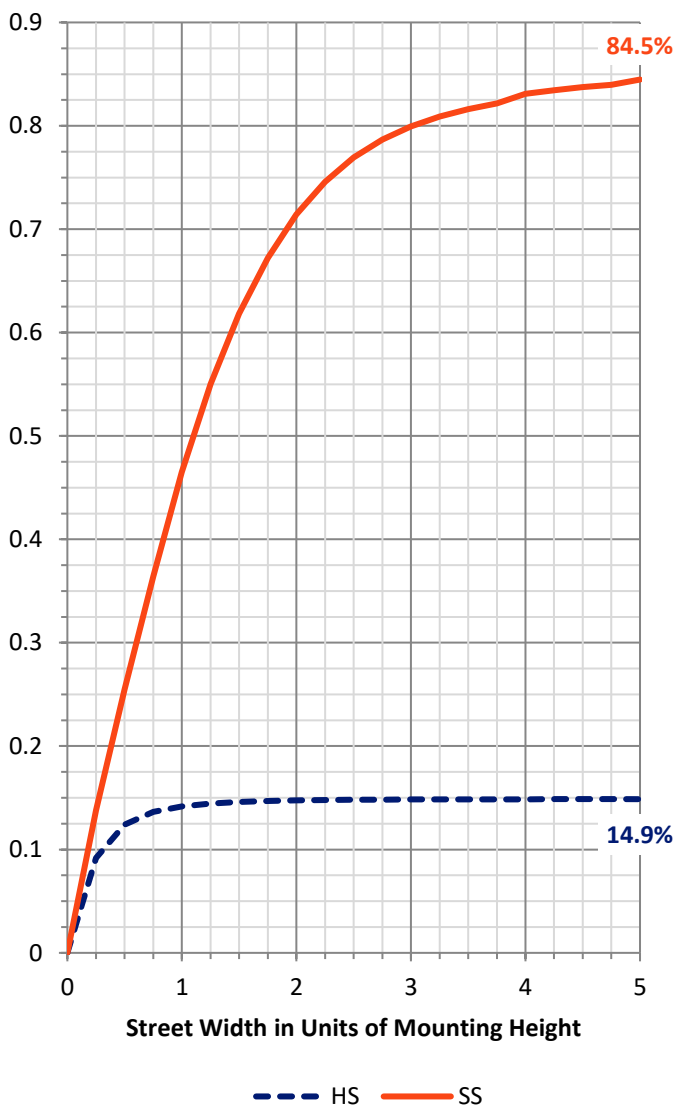
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6105.4	0.0	6105.4
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	34580.6	0.0	34580.6
	% Fixture	85.0	0.0	85.0
Total	Lumens	40686.0	0.0	40686.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1035.4	2.5
10°-20°	2038.7	5.0
20°-30°	2884.1	7.1
30°-40°	4240.5	10.4
40°-50°	6095.0	15.0
50°-60°	8580.1	21.1
60°-70°	10020.8	24.6
70°-80°	5112.3	12.6
80°-90°	679.1	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°	40686.0	100.0
0°-180°	40686.0	100.0

Coefficient of Utilization

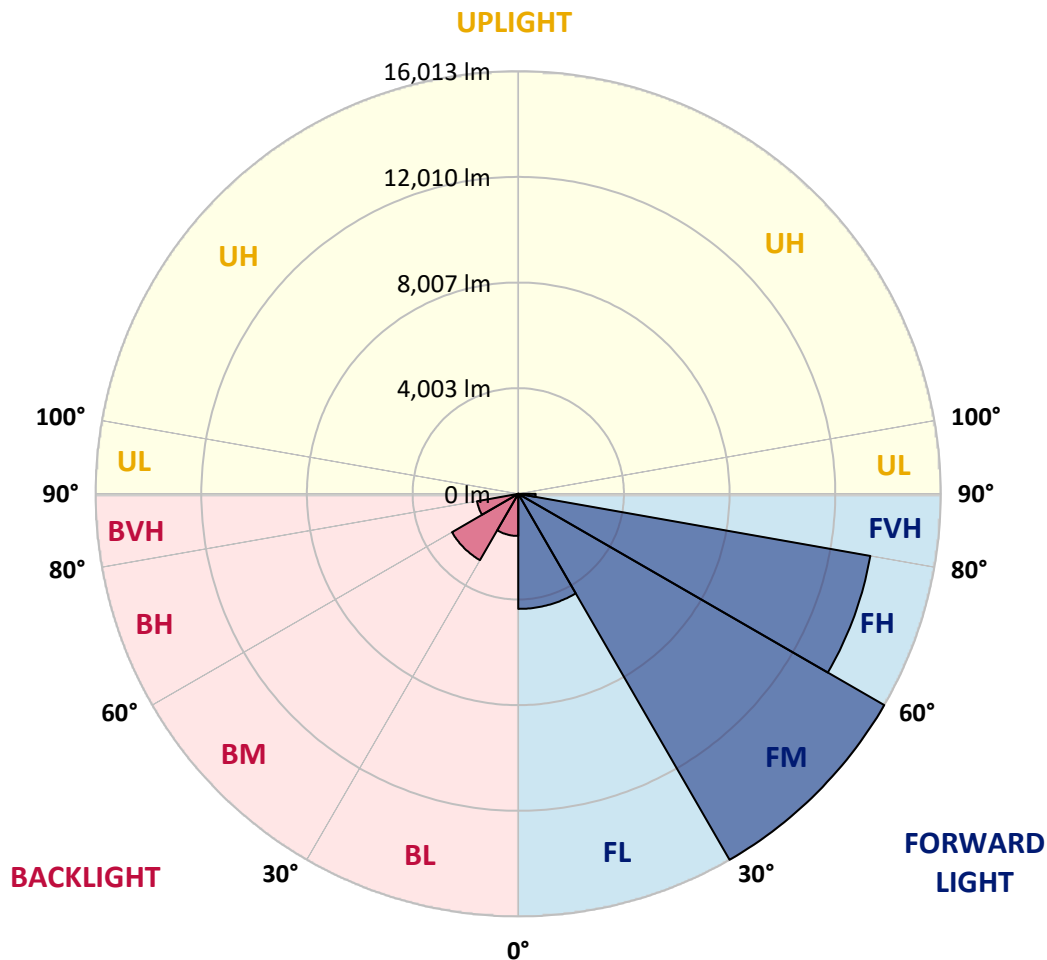


REPORT NUMBER: P324221
 CATALOG NUMBER: GAN-SA7D-750-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4361.5	10.7			
FM (30°-60°)	16013.3	39.4			
FH (60°-80°)	13547.3	33.3			G5
FVH (80°-90°)	658.5	1.6			G4/750
BL (0°-30°)	1596.6	3.9	B3/2500		
BM (30°-60°)	2902.3	7.1	B3/5000		
BH (60°-80°)	1585.8	3.9	B3/2500		G3/2500
BVH (80°-90°)	20.6	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-G5
 Type III Medium





REPORT NUMBER: P324221

CATALOG NUMBER: GAN-SA7D-750-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13649.5	13649.5	13649.5	13649.5	13649.5	13649.5	13649.5	13649.5	13649.5	13649.5	13649.5
2.5°	14796.2	14819.4	14938.9	15216.4	15519.0	15542.1	15746.4	15536.3	15465.0	15125.8	14775.0
5°	14908.0	14996.7	15407.2	16222.5	16929.8	17157.2	17319.1	16906.7	16473.0	15644.3	14759.6
7.5°	14007.9	14156.3	14802.0	16332.3	17596.7	18155.6	18261.6	17615.9	16554.0	15189.4	13859.5
10°	12855.4	13025.0	13803.6	15684.7	17421.3	18379.2	18525.6	17679.5	16153.1	14453.2	12886.2
12.5°	11922.6	12121.1	12917.1	14956.2	16818.0	17878.1	18167.2	17465.6	15806.2	13930.8	12221.3
15°	11492.8	11720.2	12556.7	14485.9	16149.2	16983.8	17222.8	16920.2	15613.4	13848.0	12067.1
17.5°	11739.5	11986.2	12849.6	14526.4	15520.9	15877.5	16070.2	16193.6	15613.4	14347.2	12518.1
20°	12751.3	13017.3	13930.8	14936.9	15000.5	14867.5	15073.8	15507.4	15794.6	15295.4	13601.3
22.5°	14150.6	14462.8	15493.9	15640.4	14746.1	14243.1	14270.1	14950.4	16124.2	16498.1	15104.6
25°	15856.3	16237.9	17286.4	16688.9	14852.1	13871.1	13861.5	14491.7	16446.0	17702.7	16779.5
27.5°	17550.4	17970.6	18891.8	17968.6	15289.6	13803.6	13784.4	14352.9	16760.2	18774.3	18608.5
30°	18970.9	19379.5	20173.5	18895.7	15761.8	13961.7	13869.2	14501.3	16947.1	19470.0	19942.2
32.5°	20127.3	20454.9	21096.7	19533.6	16266.8	14268.1	14067.7	14898.4	17265.2	20057.9	21168.0
35°	21399.3	21744.3	22000.6	20140.8	16833.4	14709.5	14422.3	15528.6	17754.7	20655.4	22511.4
37.5°	22850.6	23193.7	23162.8	20695.8	17552.3	15440.0	15256.9	16527.0	18516.0	21247.1	24010.9
40°	24271.1	24621.8	24371.3	21302.9	18396.5	16644.6	16509.6	18026.5	19535.6	22004.5	25768.6
42.5°	25600.9	25980.6	25444.8	21877.3	19402.6	18163.3	18394.6	19957.7	20811.5	22937.3	27283.5
45°	26672.5	27059.9	26344.9	22436.2	20462.6	20005.8	20701.6	22097.0	22345.6	23725.6	28306.9
47.5°	27451.2	27817.4	26969.3	22995.2	21819.5	22258.9	23471.2	24340.4	23731.4	24409.8	29033.5
50°	27948.4	28233.7	27152.4	23694.8	23600.3	24887.8	26356.4	26780.5	25036.2	25026.6	29916.2
52.5°	28264.5	28393.6	27287.4	24425.2	25458.3	27749.9	29181.9	29314.9	26379.6	25705.0	31105.4
55°	29353.5	29457.5	28243.3	25309.9	26994.4	30257.4	31737.6	31614.2	27900.2	27032.9	32508.5
57.5°	31211.4	31321.3	30218.8	26581.9	28237.5	31807.0	33589.8	33811.4	29683.0	28898.6	34011.9
60°	32144.3	32348.6	31955.4	28193.2	29442.1	32797.6	34852.2	35559.5	31911.1	31357.9	35468.9
62.5°	31298.2	31595.0	32165.5	29979.9	30639.0	33343.1	35245.4	36185.9	34193.0	34223.9	36367.1
65°	29609.8	29846.9	30814.4	30958.9	31332.8	33275.6	34274.0	35310.9	35590.4	36856.6	36318.9
67.5°	27570.7	27659.3	28480.4	31036.0	30326.8	31248.0	31356.0	32123.1	34486.0	37789.5	34859.9
70°	24635.3	24683.5	25400.5	28455.3	26061.6	26263.9	26104.0	26260.1	29648.3	35517.1	31176.7
72.5°	19826.6	19948.0	20967.6	23631.2	18986.3	18402.3	19658.9	19589.5	22833.3	30006.8	23155.1
75°	14597.7	14807.8	16347.7	19034.5	13325.7	12053.6	12971.0	13215.8	16232.1	23211.0	14480.1
77.5°	10220.7	10376.8	11868.6	13992.5	9644.4	8619.1	8287.6	8578.6	10714.1	16791.0	7295.0
80°	5888.0	5945.9	6898.0	8079.4	6499.0	7435.7	6736.1	6936.5	6420.0	7470.4	3137.7
82.5°	3852.8	3862.4	4234.4	4808.7	4047.4	4702.7	3480.8	4450.2	3949.1	3000.9	1021.5
85°	2081.5	2093.1	2455.4	3413.3	2291.6	1295.2	761.3	1563.1	2441.9	688.1	279.5
87.5°	229.4	210.1	740.1	1241.2	636.0	117.6	40.5	175.4	391.3	44.3	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



REPORT NUMBER: P324221

CATALOG NUMBER: GAN-SA7D-750-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13649.5	13649.5	13649.5	13649.5	13649.5	13649.5	13649.5	13649.5	13649.5	13649.5	13649.5
2.5°	14595.8	14435.8	14036.9	13614.8	13275.6	12957.5	12637.6	12246.4	11943.8	11882.1	11781.9
5°	14283.6	13776.7	12940.2	12099.9	11423.4	10569.6	10028.0	9605.9	9193.4	9168.4	9085.5
7.5°	13192.7	12525.8	11348.2	10186.0	9233.9	8420.6	7599.5	7050.2	6618.5	6466.2	6375.7
10°	12144.2	11394.5	9923.9	8597.9	7747.9	7029.0	6450.8	5876.5	5356.1	4997.6	4835.7
12.5°	11411.8	10583.1	8962.2	7819.2	7210.2	6527.9	5822.5	5105.5	4506.1	4074.4	3810.4
15°	11128.5	10243.8	8640.3	7510.9	6759.2	5895.7	4993.8	4174.6	3509.7	3118.4	2881.4
17.5°	11465.8	10436.6	8615.2	7135.0	6084.6	5011.1	4014.7	3047.1	2420.7	2123.9	1971.7
20°	12321.5	11049.5	8605.6	6674.4	5282.9	3962.6	2719.5	2004.4	1624.8	1459.0	1387.7
22.5°	13531.9	11832.0	8682.7	6219.5	4448.3	2831.3	1877.2	1472.5	1277.8	1189.2	1148.7
25°	15089.2	12930.6	8900.5	5807.1	3663.9	2112.4	1462.9	1233.5	1096.7	1027.3	998.4
27.5°	16748.6	14194.9	9239.7	5448.6	3025.9	1684.5	1252.8	1056.2	957.9	909.7	882.7
30°	18117.0	15659.7	9582.8	5049.6	2563.4	1468.6	1146.8	963.7	850.0	819.1	794.1
32.5°	19313.9	16767.9	9825.6	4689.2	2260.8	1304.8	1036.9	861.5	784.4	724.7	697.7
35°	20553.2	17691.1	9817.9	4436.7	2052.6	1181.5	944.4	770.9	678.4	609.0	587.8
37.5°	21894.6	18733.8	9650.2	4220.9	1962.0	1083.2	892.4	722.8	630.2	560.9	533.9
40°	23465.4	19828.5	9478.7	4018.5	1937.0	1004.1	855.7	684.2	585.9	518.5	491.5
42.5°	24995.7	20815.3	9328.3	3868.2	1829.1	1002.2	823.0	655.3	551.2	485.7	454.9
45°	26219.6	21734.7	9299.4	3777.6	1715.3	1036.9	805.6	636.0	524.2	458.7	429.8
47.5°	27237.2	22733.0	9484.5	3714.0	1607.4	946.3	848.0	622.5	499.2	435.6	402.8
50°	28447.6	23958.8	9920.0	3609.9	1493.7	851.9	971.4	626.4	478.0	412.5	377.8
52.5°	30136.0	25654.9	10559.9	3434.5	1337.6	765.2	956.0	630.2	454.9	387.4	352.7
55°	32028.6	27773.0	11248.0	3143.5	1119.8	651.4	819.1	603.3	410.5	360.4	327.6
57.5°	34017.6	29694.6	11656.6	2796.6	890.4	562.8	655.3	549.3	362.3	323.8	302.6
60°	34329.9	30425.1	11469.6	2370.6	707.3	489.5	485.7	558.9	323.8	285.2	269.8
62.5°	33553.1	29507.7	10565.7	1990.9	591.7	429.8	399.0	487.6	293.0	254.4	239.0
65°	32059.5	27027.2	9100.9	1794.4	549.3	368.1	331.5	343.1	256.3	221.6	208.2
67.5°	29981.8	23716.0	7472.3	1682.6	543.5	316.1	283.3	260.2	221.6	192.7	181.2
70°	25733.9	19757.2	5961.3	1620.9	528.1	266.0	239.0	212.0	185.0	163.8	154.2
72.5°	18940.0	14000.2	4637.2	1553.4	531.9	212.0	208.2	175.4	148.4	127.2	123.4
75°	10943.5	7998.5	3041.4	1258.6	506.9	163.8	173.5	123.4	104.1	88.7	88.7
77.5°	5832.1	4878.1	1158.3	524.2	185.0	104.1	98.3	73.2	65.5	54.0	52.0
80°	2542.2	2147.1	348.8	146.5	102.1	55.9	36.6	32.8	28.9	23.1	21.2
82.5°	900.1	776.7	113.7	71.3	44.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	204.3	146.5	0.0	17.3	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



REPORT NUMBER: P324221
 CATALOG NUMBER: GAN-SA7D-750-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	13649.5	13649.5	13649.5	13649.5	13649.5	13649.5	13649.5	13649.5	13649.5	13649.5	13649.5
2.5°	11577.6	11535.2	11284.6	11294.2	11338.6	11402.2	11251.8	11321.2	11508.2	11687.4	11754.9
5°	8952.5	8962.2	8809.9	8904.3	8989.1	9047.0	8804.1	8808.0	8956.4	9158.7	9264.7
7.5°	6308.2	6292.8	6300.5	6526.0	6686.0	6570.3	6660.9	6346.7	6366.0	6510.6	6402.6
10°	4689.2	4477.2	4357.7	4527.3	4702.7	4639.1	4483.0	4380.9	4452.2	4612.1	4600.6
12.5°	3685.1	3380.6	3201.3	3079.9	3224.4	3105.0	3101.1	3012.4	2916.1	2933.4	3189.8
15°	2771.5	2549.9	2337.9	2143.2	2139.4	2098.9	1892.7	1661.4	1642.1	1653.7	1786.6
17.5°	1906.1	1831.0	1744.2	1576.6	1532.2	1362.6	1162.2	1069.7	1023.4	1044.6	1088.9
20°	1339.5	1310.6	1320.2	1229.6	1166.0	1004.1	886.6	850.0	842.2	863.5	884.7
22.5°	1110.2	1058.1	1052.3	1011.9	948.3	830.7	767.1	745.9	736.2	755.5	770.9
25°	971.4	919.3	898.1	873.1	805.6	724.7	686.1	666.9	657.2	668.8	678.4
27.5°	855.7	807.6	788.3	770.9	705.4	647.6	616.8	599.4	591.7	595.5	605.2
30°	769.0	726.6	701.6	680.4	624.5	584.0	557.0	539.7	531.9	531.9	541.6
32.5°	678.4	655.3	632.2	605.2	553.1	526.2	499.2	479.9	472.2	474.1	481.8
35°	564.7	557.0	562.8	537.7	493.4	470.3	443.3	422.1	416.3	418.2	425.9
37.5°	501.1	466.4	487.6	474.1	449.1	418.2	383.5	364.3	354.6	360.4	364.3
40°	460.6	418.2	402.8	416.3	412.5	362.3	331.5	312.2	304.5	306.4	310.3
42.5°	425.9	375.8	341.1	339.2	362.3	316.1	283.3	266.0	256.3	256.3	260.2
45°	393.2	339.2	296.8	264.0	304.5	267.9	237.1	221.6	210.1	210.1	212.0
47.5°	368.1	308.4	258.3	215.9	229.4	219.7	194.7	179.2	167.7	167.7	169.6
50°	345.0	277.5	223.6	181.2	171.5	181.2	158.0	140.7	133.0	131.1	134.9
52.5°	319.9	246.7	190.8	154.2	134.9	136.8	123.4	111.8	102.1	102.1	106.0
55°	294.9	221.6	165.8	131.1	111.8	102.1	98.3	90.6	82.9	82.9	86.7
57.5°	269.8	194.7	140.7	107.9	88.7	80.9	80.9	75.2	69.4	69.4	73.2
60°	246.7	167.7	115.6	88.7	69.4	67.5	69.4	63.6	59.7	59.7	63.6
62.5°	219.7	142.6	94.4	73.2	55.9	54.0	59.7	55.9	52.0	52.0	55.9
65°	187.0	121.4	75.2	55.9	42.4	42.4	50.1	46.3	42.4	42.4	46.3
67.5°	158.0	102.1	57.8	40.5	30.8	32.8	42.4	38.5	36.6	36.6	40.5
70°	131.1	79.0	40.5	25.1	17.3	25.1	32.8	32.8	32.8	32.8	36.6
72.5°	98.3	54.0	23.1	9.6	7.7	17.3	27.0	30.8	28.9	28.9	34.7
75°	63.6	30.8	7.7	0.0	0.0	9.6	21.2	25.1	25.1	23.1	28.9
77.5°	36.6	9.6	0.0	0.0	0.0	0.0	13.5	11.6	9.6	7.7	13.5
80°	9.6	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



REPORT NUMBER: P324221
 CATALOG NUMBER: GAN-SA7D-750-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13649.5	13649.5	13649.5	13649.5	13649.5	13649.5	13649.5	13649.5	13649.5	13649.5
2.5°	12026.6	12254.1	12574.0	12913.2	13435.5	13849.9	14256.6	14605.4	14740.3	14796.2
5°	9519.2	9852.6	10320.9	10922.3	11864.7	12712.8	13572.4	14437.7	14813.6	14908.0
7.5°	6830.5	7256.5	7852.0	8605.6	9710.0	10808.6	12009.3	13279.4	13861.5	14007.9
10°	5055.4	5575.8	6258.1	7052.2	8106.4	9235.8	10544.5	11995.8	12660.7	12855.4
12.5°	3586.8	4290.3	5203.8	6169.4	7083.0	8091.0	9415.1	11014.8	11712.5	11922.6
15°	2106.6	2786.9	3868.2	5161.4	6331.3	7352.8	8698.1	10511.7	11280.8	11492.8
17.5°	1208.4	1547.7	2364.9	3806.5	5394.6	6809.3	8472.6	10637.0	11542.9	11739.5
20°	923.2	1031.1	1362.6	2451.6	4299.9	6275.4	8472.6	11346.3	12462.2	12751.3
22.5°	807.6	886.6	1021.5	1462.9	3164.7	5703.0	8570.9	12371.6	13830.6	14150.6
25°	717.0	788.3	903.9	1100.5	2158.6	5022.7	8804.1	13630.2	15441.9	15856.3
27.5°	641.8	709.3	813.3	963.7	1476.3	4201.6	9118.3	15106.5	17218.9	17550.4
30°	574.3	638.0	732.4	838.4	1139.1	3270.7	9386.2	16498.1	18614.3	18970.9
32.5°	510.7	568.6	653.4	732.4	932.8	2418.8	9415.1	17600.5	19772.6	20127.3
35°	451.0	503.0	580.1	641.8	772.9	1910.0	8966.0	18556.5	20931.0	21399.3
37.5°	393.2	443.3	510.7	557.0	680.4	1557.3	8279.9	19622.3	22416.9	22850.6
40°	339.2	383.5	452.9	483.8	643.7	1196.9	7534.0	20740.2	23874.0	24271.1
42.5°	289.1	331.5	399.0	458.7	564.7	894.3	6728.4	21788.6	25184.6	25600.9
45°	240.9	285.2	352.7	485.7	468.3	668.8	5866.8	22484.4	26219.6	26672.5
47.5°	194.7	244.8	337.3	462.6	373.9	491.5	5184.6	23143.6	27004.0	27451.2
50°	156.1	206.2	379.7	412.5	306.4	375.8	4899.3	23733.3	27518.6	27948.4
52.5°	127.2	173.5	358.5	316.1	256.3	310.3	5053.5	24689.3	27994.7	28264.5
55°	106.0	136.8	215.9	219.7	217.8	264.0	5244.3	26061.6	29226.3	29353.5
57.5°	92.5	109.9	150.3	169.6	183.1	235.1	5248.2	28031.3	31132.4	31211.4
60°	79.0	96.4	125.3	136.8	158.0	210.1	5057.4	28719.4	31882.1	32144.3
62.5°	69.4	84.8	104.1	113.7	133.0	188.9	4610.2	27722.9	30852.9	31298.2
65°	61.7	77.1	86.7	96.4	117.6	169.6	3874.0	25730.1	29145.3	29609.8
67.5°	54.0	67.5	77.1	86.7	106.0	150.3	2852.5	23415.3	27185.2	27570.7
70°	48.2	59.7	69.4	77.1	92.5	127.2	1730.8	19869.0	24475.4	24635.3
72.5°	46.3	54.0	63.6	69.4	80.9	111.8	876.9	14601.6	19566.4	19826.6
75°	40.5	48.2	57.8	61.7	71.3	96.4	356.6	9590.5	14179.5	14597.7
77.5°	32.8	44.3	52.0	55.9	61.7	79.0	181.2	6129.0	9950.9	10220.7
80°	11.6	32.8	44.3	46.3	52.0	57.8	119.5	3355.5	5772.4	5888.0
82.5°	0.0	21.2	34.7	32.8	36.6	44.3	77.1	1595.8	3810.4	3852.8
85°	0.0	9.6	27.0	21.2	15.4	30.8	27.0	348.8	1998.7	2081.5
87.5°	0.0	0.0	1.9	9.6	7.7	11.6	3.9	1.9	181.2	229.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)