

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: P324181

Luminaire Tested: **GAN-SA7D-740-U-SLL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324181  
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-740-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 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: 40687 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

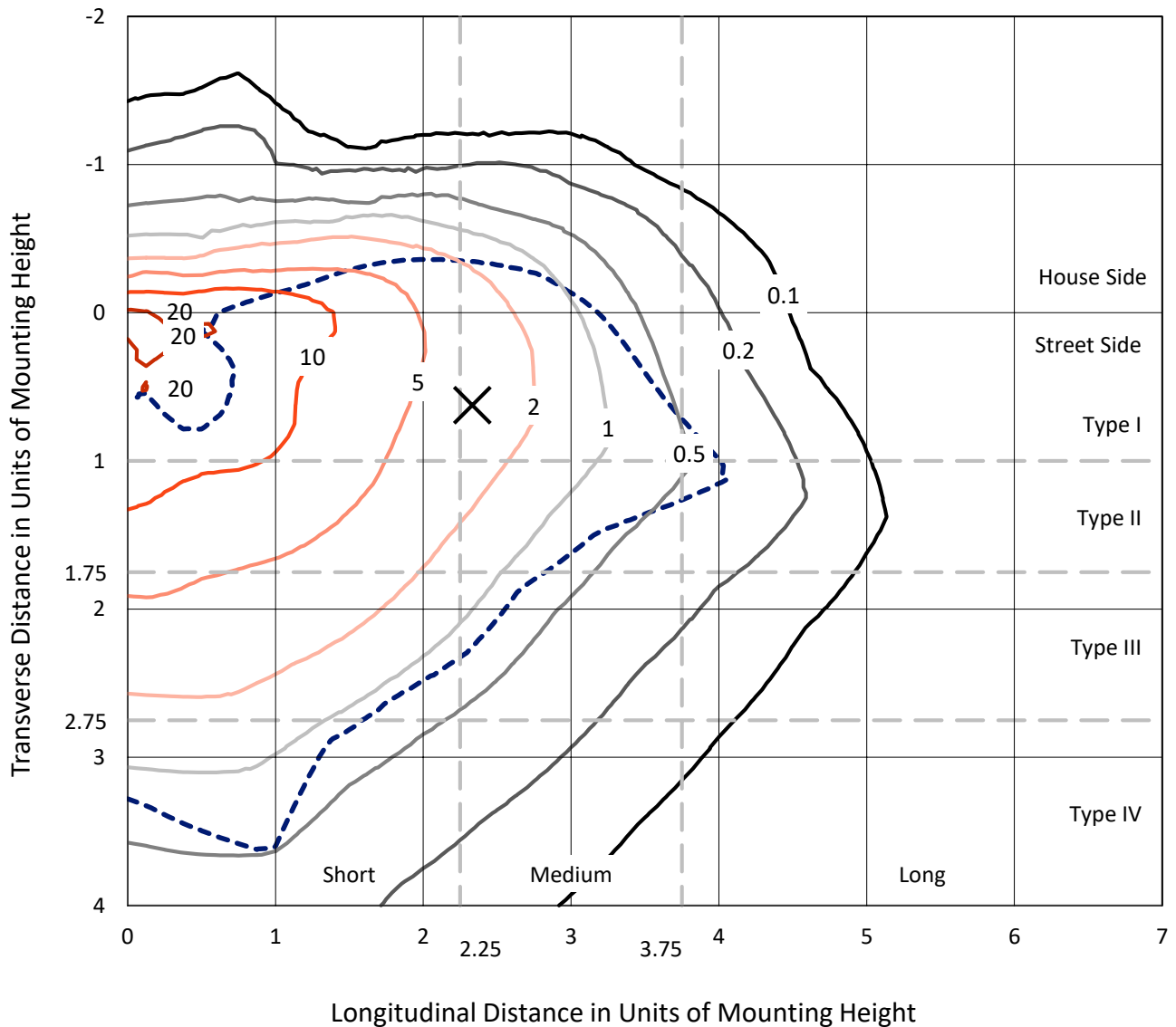
Input Watts (W): 448  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P324181  
 CATALOG NUMBER: GAN-SA7D-740-U-SLL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

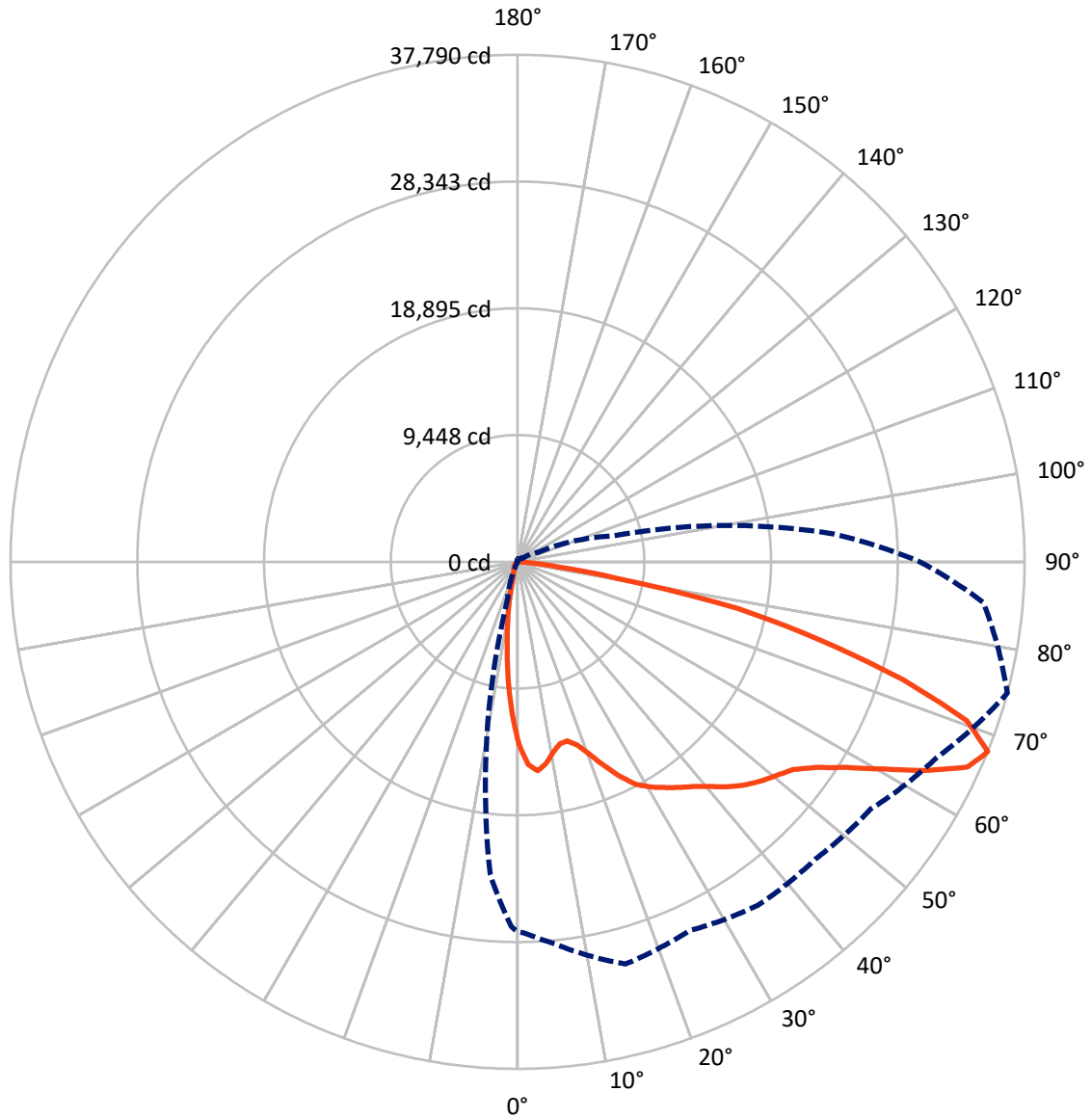
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P324181  
CATALOG NUMBER: GAN-SA7D-740-U-SLL-HSS

### Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GAN-SA7D-740-U-SLL-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6105.5	0.0	6105.5
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	34581.5	0.0	34581.5
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	40687.0	0.0	40687.0
	% 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°	2884.2	7.1
30°-40°	4240.6	10.4
40°-50°	6095.1	15.0
50°-60°	8580.3	21.1
60°-70°	10021.1	24.6
70°-80°	5112.4	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°	40687.0	100.0
0°-180°	40687.0	100.0

**Coefficient of Utilization**

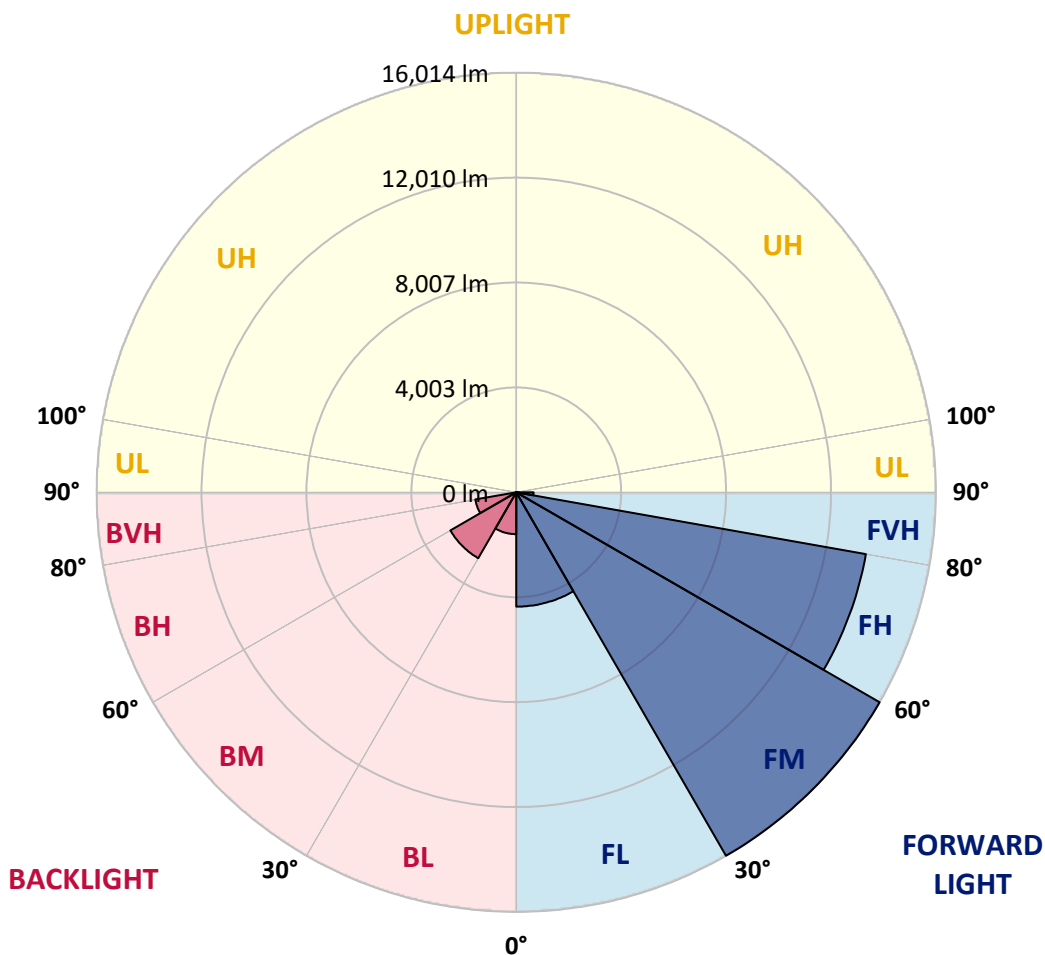


REPORT NUMBER: P324181  
 CATALOG NUMBER: GAN-SA7D-740-U-SLL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4361.7	10.7			
FM (30°-60°)	16013.7	39.4			
FH (60°-80°)	13547.6	33.3			G5
FVH (80°-90°)	658.6	1.6			G4/750
BL (0°-30°)	1596.7	3.9	B3/2500		
BM (30°-60°)	2902.4	7.1	B3/5000		
BH (60°-80°)	1585.9	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: P324181

CATALOG NUMBER: GAN-SA7D-740-U-SLL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13649.8	13649.8	13649.8	13649.8	13649.8	13649.8	13649.8	13649.8	13649.8	13649.8	13649.8
2.5°	14796.6	14819.7	14939.2	15216.8	15519.4	15542.5	15746.8	15536.7	15465.4	15126.2	14775.4
5°	14908.4	14997.0	15407.6	16222.9	16930.2	17157.6	17319.5	16907.1	16473.4	15644.6	14760.0
7.5°	14008.3	14156.7	14802.4	16332.7	17597.1	18156.0	18262.0	17616.4	16554.4	15189.8	13859.9
10°	12855.7	13025.3	13804.0	15685.1	17421.7	18379.6	18526.1	17680.0	16153.5	14453.5	12886.5
12.5°	11922.8	12121.4	12917.4	14956.6	16818.4	17878.5	18167.6	17466.0	15806.5	13931.2	12221.6
15°	11493.0	11720.5	12557.0	14486.3	16149.6	16984.2	17223.2	16920.6	15613.8	13848.3	12067.4
17.5°	11739.7	11986.5	12849.9	14526.8	15521.3	15877.9	16070.6	16194.0	15613.8	14347.5	12518.4
20°	12751.6	13017.6	13931.2	14937.3	15000.9	14867.9	15074.1	15507.8	15795.0	15295.8	13601.6
22.5°	14150.9	14463.2	15494.3	15640.8	14746.5	14243.4	14270.4	14950.8	16124.6	16498.5	15105.0
25°	15856.7	16238.3	17286.8	16689.3	14852.5	13871.4	13861.8	14492.1	16446.4	17703.1	16779.9
27.5°	17550.8	17971.0	18892.3	17969.1	15290.0	13804.0	13784.7	14353.3	16760.6	18774.7	18609.0
30°	18971.3	19379.9	20174.0	18896.2	15762.2	13962.0	13869.5	14501.7	16947.6	19470.5	19942.7
32.5°	20127.8	20455.4	21097.2	19534.1	16267.2	14268.5	14068.0	14898.7	17265.6	20058.4	21168.6
35°	21399.8	21744.8	22001.2	20141.3	16833.8	14709.9	14422.7	15529.0	17755.1	20655.9	22511.9
37.5°	22851.2	23194.2	23163.4	20696.3	17552.8	15440.3	15257.2	16527.4	18516.5	21247.6	24011.5
40°	24271.7	24622.4	24371.9	21303.5	18397.0	16645.0	16510.0	18026.9	19536.0	22005.0	25769.2
42.5°	25601.6	25981.2	25445.4	21877.8	19403.1	18163.7	18395.0	19958.1	20812.0	22937.9	27284.2
45°	26673.2	27060.6	26345.5	22436.8	20463.1	20006.3	20702.1	22097.6	22346.2	23726.2	28307.6
47.5°	27451.8	27818.1	26970.0	22995.7	21820.0	22259.5	23471.8	24341.0	23732.0	24410.4	29034.2
50°	27949.1	28234.4	27153.1	23695.4	23600.9	24888.4	26357.1	26781.1	25036.8	25027.2	29917.0
52.5°	28265.2	28394.3	27288.0	24425.8	25458.9	27750.6	29182.6	29315.6	26380.2	25705.6	31106.2
55°	29354.2	29458.3	28244.0	25310.5	26995.1	30258.1	31738.4	31615.0	27900.9	27033.6	32509.3
57.5°	31212.2	31322.1	30219.6	26582.6	28238.2	31807.8	33590.6	33812.2	29683.8	28899.3	34012.7
60°	32145.0	32349.4	31956.2	28193.9	29442.8	32798.4	34853.0	35560.4	31911.8	31358.7	35469.8
62.5°	31298.9	31595.7	32166.3	29980.6	30639.8	33343.9	35246.2	36186.8	34193.9	34224.7	36368.0
65°	29610.5	29847.6	30815.1	30959.7	31333.6	33276.4	34274.8	35311.8	35591.2	36857.5	36319.8
67.5°	27571.3	27660.0	28481.1	31036.8	30327.5	31248.8	31356.7	32123.8	34486.8	37790.4	34860.7
70°	24635.9	24684.1	25401.1	28456.0	26062.2	26264.6	26104.6	26260.7	29649.1	35518.0	31177.5
72.5°	19827.1	19948.5	20968.1	23631.8	18986.7	18402.7	19659.4	19590.0	22833.8	30007.6	23155.7
75°	14598.1	14808.2	16348.1	19034.9	13326.0	12053.9	12971.4	13216.1	16232.5	23211.6	14480.5
77.5°	10221.0	10377.1	11868.9	13992.9	9644.7	8619.3	8287.8	8578.8	10714.4	16791.4	7295.2
80°	5888.2	5946.0	6898.1	8079.6	6499.2	7435.9	6736.2	6936.7	6420.1	7470.6	3137.8
82.5°	3852.9	3862.5	4234.5	4808.8	4047.5	4702.8	3480.9	4450.3	3949.2	3000.9	1021.5
85°	2081.6	2093.1	2455.5	3413.4	2291.7	1295.2	761.3	1563.1	2442.0	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: P324181

CATALOG NUMBER: GAN-SA7D-740-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13649.8	13649.8	13649.8	13649.8	13649.8	13649.8	13649.8	13649.8	13649.8	13649.8	13649.8
2.5°	14596.1	14436.2	14037.2	13615.1	13275.9	12957.9	12637.9	12246.7	11944.1	11882.4	11782.1
5°	14283.9	13777.0	12940.5	12100.2	11423.7	10569.8	10028.2	9606.1	9193.7	9168.6	9085.7
7.5°	13193.0	12526.1	11348.5	10186.3	9234.1	8420.8	7599.7	7050.4	6618.7	6466.4	6375.8
10°	12144.5	11394.7	9924.1	8598.1	7748.1	7029.2	6451.0	5876.6	5356.2	4997.7	4835.8
12.5°	11412.1	10583.3	8962.4	7819.4	7210.4	6528.1	5822.7	5105.7	4506.2	4074.5	3810.5
15°	11128.8	10244.1	8640.5	7511.0	6759.4	5895.9	4993.9	4174.7	3509.8	3118.5	2881.5
17.5°	11466.1	10436.8	8615.4	7135.2	6084.8	5011.2	4014.8	3047.2	2420.8	2124.0	1971.7
20°	12321.8	11049.7	8605.8	6674.6	5283.0	3962.7	2719.6	2004.5	1624.8	1459.0	1387.7
22.5°	13532.2	11832.3	8682.9	6219.7	4448.4	2831.3	1877.3	1472.5	1277.9	1189.2	1148.7
25°	15089.6	12930.9	8900.7	5807.2	3664.0	2112.4	1462.9	1233.5	1096.7	1027.3	998.4
27.5°	16749.0	14195.2	9239.9	5448.7	3026.0	1684.5	1252.8	1056.2	957.9	909.7	882.7
30°	18117.5	15660.1	9583.0	5049.8	2563.4	1468.7	1146.8	963.7	850.0	819.1	794.1
32.5°	19314.4	16768.3	9825.8	4689.3	2260.8	1304.8	1036.9	861.5	784.4	724.7	697.7
35°	20553.7	17691.5	9818.1	4436.9	2052.7	1181.5	944.4	771.0	678.4	609.1	587.9
37.5°	21895.2	18734.3	9650.5	4221.0	1962.1	1083.2	892.4	722.8	630.3	560.9	533.9
40°	23466.0	19829.0	9478.9	4018.6	1937.0	1004.2	855.8	684.2	585.9	518.5	491.5
42.5°	24996.4	20815.8	9328.6	3868.3	1829.1	1002.2	823.0	655.3	551.2	485.7	454.9
45°	26220.2	21735.2	9299.7	3777.7	1715.4	1036.9	805.7	636.0	524.3	458.7	429.8
47.5°	27237.9	22733.6	9484.7	3714.1	1607.4	946.3	848.1	622.5	499.2	435.6	402.8
50°	28448.3	23959.4	9920.3	3610.0	1493.7	851.9	971.4	626.4	478.0	412.5	377.8
52.5°	30136.7	25655.5	10560.2	3434.6	1337.6	765.2	956.0	630.3	454.9	387.4	352.7
55°	32029.4	27773.7	11248.3	3143.6	1119.8	651.5	819.1	603.3	410.5	360.4	327.7
57.5°	34018.5	29695.3	11656.9	2796.6	890.5	562.8	655.3	549.3	362.3	323.8	302.6
60°	34330.7	30425.8	11469.9	2370.7	707.4	489.6	485.7	558.9	323.8	285.3	269.8
62.5°	33554.0	29508.4	10566.0	1991.0	591.7	429.8	399.0	487.6	293.0	254.4	239.0
65°	32060.2	27027.8	9101.1	1794.4	549.3	368.1	331.5	343.1	256.3	221.7	208.2
67.5°	29982.5	23716.6	7472.5	1682.6	543.5	316.1	283.3	260.2	221.7	192.7	181.2
70°	25734.5	19757.7	5961.4	1620.9	528.1	266.0	239.0	212.0	185.0	163.8	154.2
72.5°	18940.5	14000.6	4637.3	1553.5	532.0	212.0	208.2	175.4	148.4	127.2	123.4
75°	10943.7	7998.7	3041.4	1258.6	506.9	163.8	173.5	123.4	104.1	88.7	88.7
77.5°	5832.3	4878.2	1158.4	524.3	185.0	104.1	98.3	73.2	65.5	54.0	52.0
80°	2542.2	2147.1	348.9	146.5	102.2	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: P324181  
 CATALOG NUMBER: GAN-SA7D-740-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	13649.8	13649.8	13649.8	13649.8	13649.8	13649.8	13649.8	13649.8	13649.8	13649.8	13649.8
2.5°	11577.8	11535.4	11284.9	11294.5	11338.8	11402.5	11252.1	11321.5	11508.5	11687.7	11755.2
5°	8952.7	8962.4	8810.1	8904.6	8989.4	9047.2	8804.3	8808.2	8956.6	9159.0	9265.0
7.5°	6308.4	6292.9	6300.6	6526.2	6686.1	6570.5	6661.1	6346.9	6366.2	6510.7	6402.8
10°	4689.3	4477.3	4357.8	4527.4	4702.8	4639.2	4483.1	4381.0	4452.3	4612.2	4600.7
12.5°	3685.2	3380.6	3201.4	3080.0	3224.5	3105.0	3101.2	3012.5	2916.1	2933.5	3189.8
15°	2771.6	2549.9	2337.9	2143.3	2139.4	2098.9	1892.7	1661.4	1642.1	1653.7	1786.7
17.5°	1906.2	1831.0	1744.3	1576.6	1532.3	1362.7	1162.2	1069.7	1023.4	1044.6	1089.0
20°	1339.5	1310.6	1320.3	1229.7	1166.1	1004.2	886.6	850.0	842.3	863.5	884.7
22.5°	1110.2	1058.1	1052.4	1011.9	948.3	830.7	767.1	745.9	736.3	755.5	771.0
25°	971.4	919.4	898.2	873.1	805.7	724.7	686.2	666.9	657.2	668.8	678.4
27.5°	855.8	807.6	788.3	771.0	705.4	647.6	616.8	599.4	591.7	595.6	605.2
30°	769.0	726.6	701.6	680.4	624.5	584.0	557.0	539.7	532.0	532.0	541.6
32.5°	678.4	655.3	632.2	605.2	553.2	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	426.0
37.5°	501.1	466.4	487.6	474.1	449.1	418.2	383.6	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	306.5	310.3
42.5°	426.0	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	264.1	304.5	267.9	237.1	221.7	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	102.2	102.2	106.0
55°	294.9	221.7	165.8	131.1	111.8	102.2	98.3	90.6	82.9	82.9	86.7
57.5°	269.8	194.7	140.7	107.9	88.7	81.0	81.0	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	102.2	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: P324181  
 CATALOG NUMBER: GAN-SA7D-740-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13649.8	13649.8	13649.8	13649.8	13649.8	13649.8	13649.8	13649.8	13649.8	13649.8
2.5°	12026.9	12254.4	12574.3	12913.5	13435.9	13850.2	14256.9	14605.8	14740.7	14796.6
5°	9519.4	9852.8	10321.2	10922.5	11865.0	12713.1	13572.7	14438.1	14813.9	14908.4
7.5°	6830.7	7256.6	7852.2	8605.8	9710.2	10808.8	12009.6	13279.7	13861.8	14008.3
10°	5055.6	5575.9	6258.2	7052.3	8106.6	9236.1	10544.8	11996.1	12661.0	12855.7
12.5°	3586.9	4290.4	5204.0	6169.6	7083.2	8091.2	9415.3	11015.0	11712.8	11922.8
15°	2106.6	2787.0	3868.3	5161.6	6331.5	7353.0	8698.3	10512.0	11281.0	11493.0
17.5°	1208.5	1547.7	2364.9	3806.6	5394.8	6809.5	8472.8	10637.3	11543.2	11739.7
20°	923.2	1031.2	1362.7	2451.6	4300.0	6275.6	8472.8	11346.6	12462.5	12751.6
22.5°	807.6	886.6	1021.5	1462.9	3164.8	5703.2	8571.1	12371.9	13831.0	14150.9
25°	717.0	788.3	903.9	1100.5	2158.7	5022.8	8804.3	13630.5	15442.3	15856.7
27.5°	641.8	709.3	813.4	963.7	1476.4	4201.7	9118.5	15106.9	17219.3	17550.8
30°	574.4	638.0	732.4	838.4	1139.1	3270.8	9386.4	16498.5	18614.8	18971.3
32.5°	510.8	568.6	653.4	732.4	932.9	2418.9	9415.3	17600.9	19773.1	20127.8
35°	451.0	503.0	580.1	641.8	772.9	1910.0	8966.2	18556.9	20931.5	21399.8
37.5°	393.2	443.3	510.8	557.0	680.4	1557.3	8280.1	19622.8	22417.5	22851.2
40°	339.2	383.6	452.9	483.8	643.7	1196.9	7534.2	20740.7	23874.6	24271.7
42.5°	289.1	331.5	399.0	458.7	564.7	894.3	6728.5	21789.2	25185.2	25601.6
45°	240.9	285.3	352.7	485.7	468.4	668.8	5867.0	22485.0	26220.2	26673.2
47.5°	194.7	244.8	337.3	462.6	373.9	491.5	5184.7	23144.1	27004.7	27451.8
50°	156.1	206.2	379.7	412.5	306.5	375.8	4899.4	23733.9	27519.3	27949.1
52.5°	127.2	173.5	358.5	316.1	256.3	310.3	5053.6	24689.9	27995.4	28265.2
55°	106.0	136.8	215.9	219.7	217.8	264.1	5244.4	26062.2	29227.0	29354.2
57.5°	92.5	109.9	150.3	169.6	183.1	235.1	5248.3	28032.0	31133.2	31212.2
60°	79.0	96.4	125.3	136.8	158.0	210.1	5057.5	28720.1	31882.9	32145.0
62.5°	69.4	84.8	104.1	113.7	133.0	188.9	4610.3	27723.6	30853.7	31298.9
65°	61.7	77.1	86.7	96.4	117.6	169.6	3874.1	25730.7	29146.0	29610.5
67.5°	54.0	67.5	77.1	86.7	106.0	150.3	2852.5	23415.9	27185.9	27571.3
70°	48.2	59.7	69.4	77.1	92.5	127.2	1730.8	19869.5	24476.0	24635.9
72.5°	46.3	54.0	63.6	69.4	81.0	111.8	877.0	14601.9	19566.9	19827.1
75°	40.5	48.2	57.8	61.7	71.3	96.4	356.6	9590.7	14179.8	14598.1
77.5°	32.8	44.3	52.0	55.9	61.7	79.0	181.2	6129.1	9951.1	10221.0
80°	11.6	32.8	44.3	46.3	52.0	57.8	119.5	3355.6	5772.5	5888.2
82.5°	0.0	21.2	34.7	32.8	36.6	44.3	77.1	1595.9	3810.5	3852.9
85°	0.0	9.6	27.0	21.2	15.4	30.8	27.0	348.9	1998.7	2081.6
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)