

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: P321621

Luminaire Tested: **GAN-SA7D-740-U-T3R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321621  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA7D-740-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42210 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

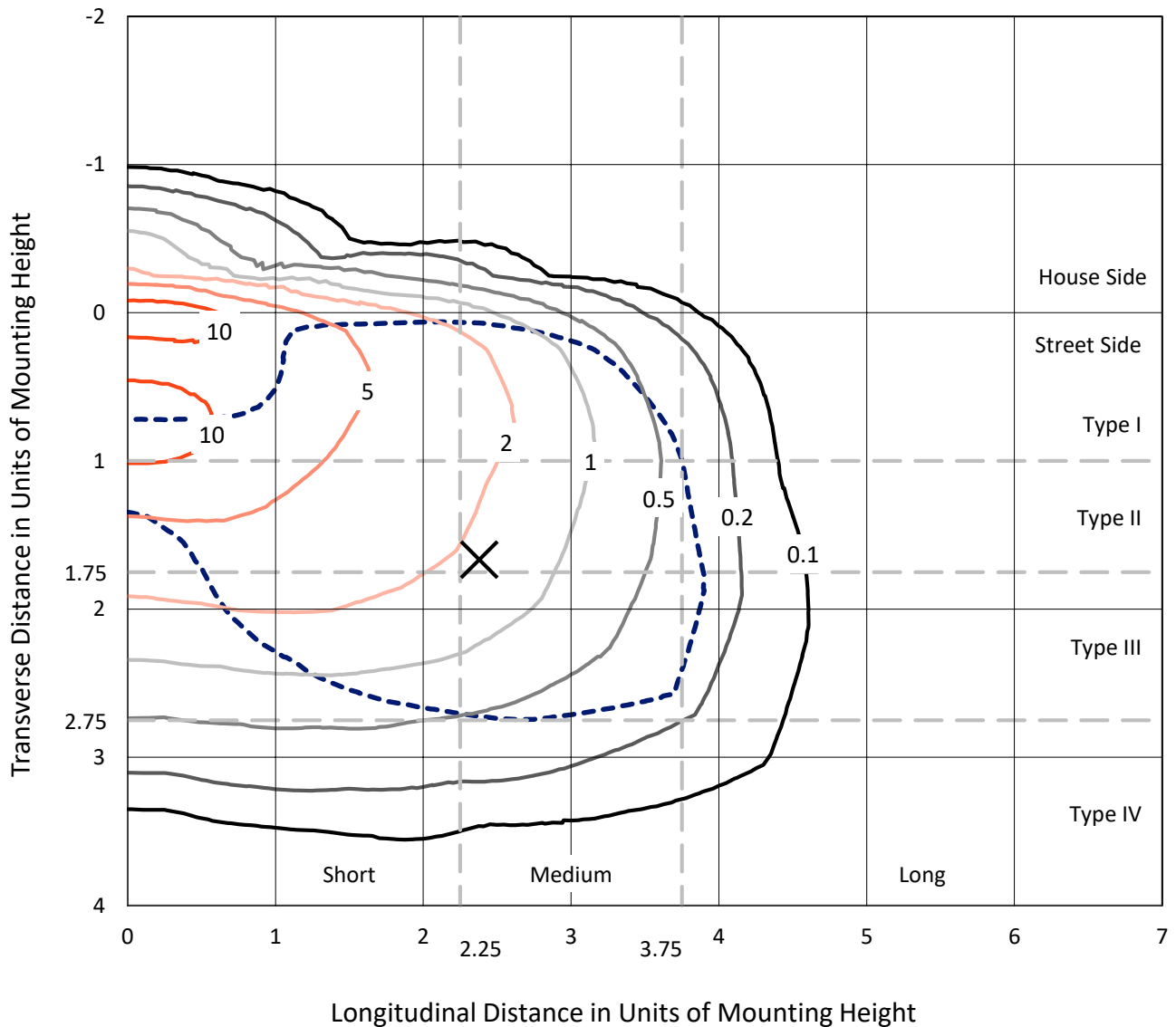
Input Watts (W): 448  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P321621  
 CATALOG NUMBER: GAN-SA7D-740-U-T3R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

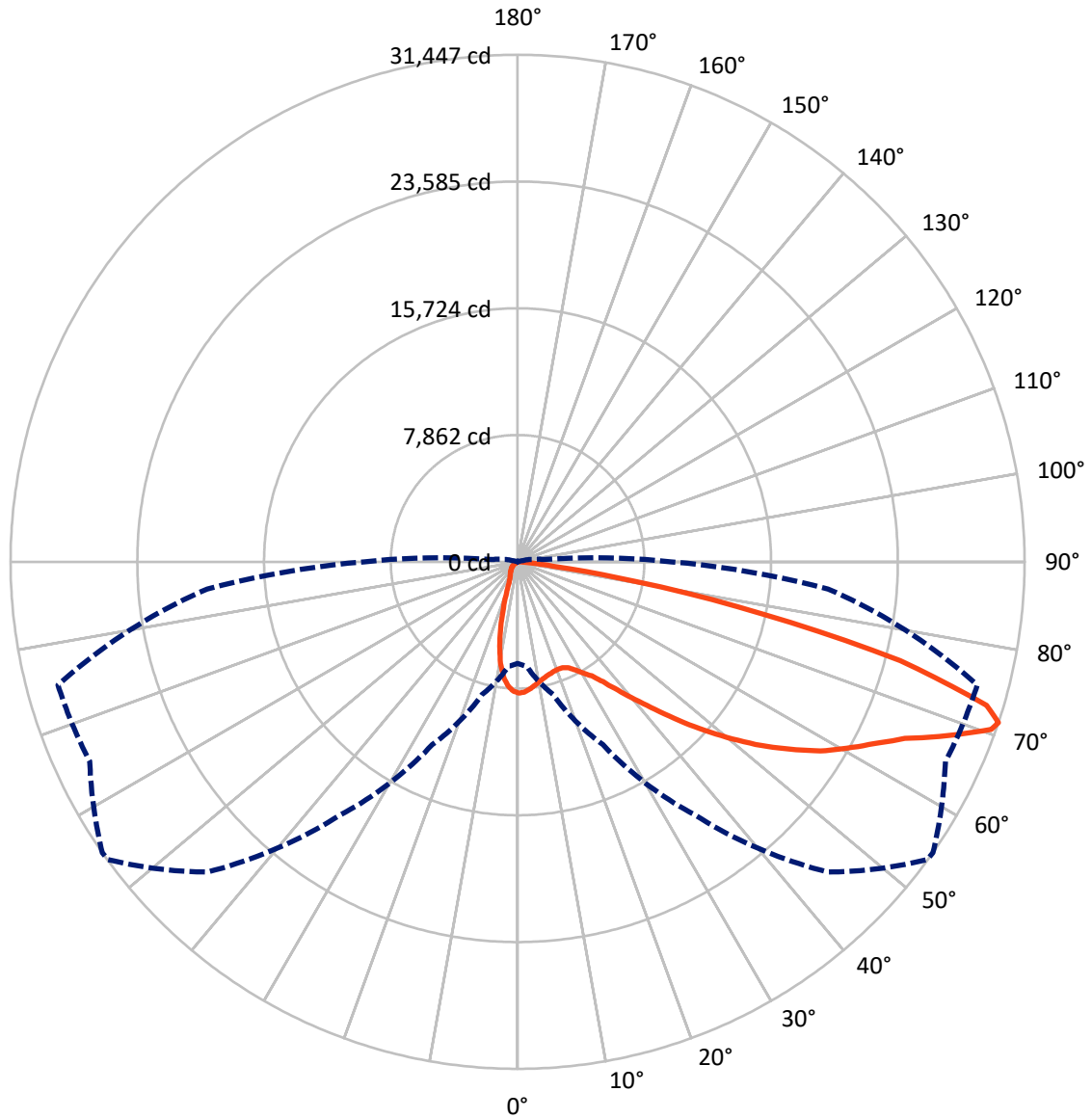
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc  
 Type III - Medium - N/A

REPORT NUMBER: P321621  
CATALOG NUMBER: GAN-SA7D-740-U-T3R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P321621  
 CATALOG NUMBER: GAN-SA7D-740-U-T3R-HSS

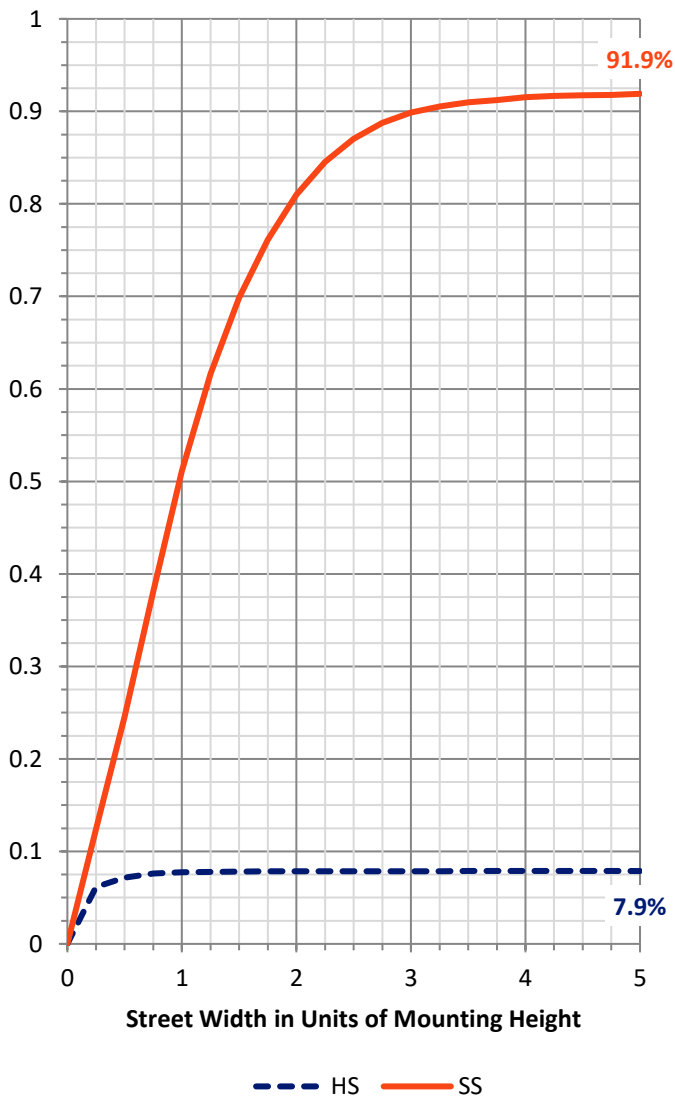
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3341.9	0.0	3341.9
	% Fixture	7.9	0.0	7.9
<b>Street Side</b>	Lumens	38868.1	0.0	38868.1
	% Fixture	92.1	0.0	92.1
<b>Total</b>	Lumens	42210.0	0.0	42210.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	694.1	1.6
10°-20°	1566.9	3.7
20°-30°	2518.1	6.0
30°-40°	4278.4	10.1
40°-50°	6640.6	15.7
50°-60°	8928.1	21.2
60°-70°	10922.0	25.9
70°-80°	6385.8	15.1
80°-90°	276.0	0.7
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°	42210.0	100.0
0°-180°	42210.0	100.0

**Coefficient of Utilization**

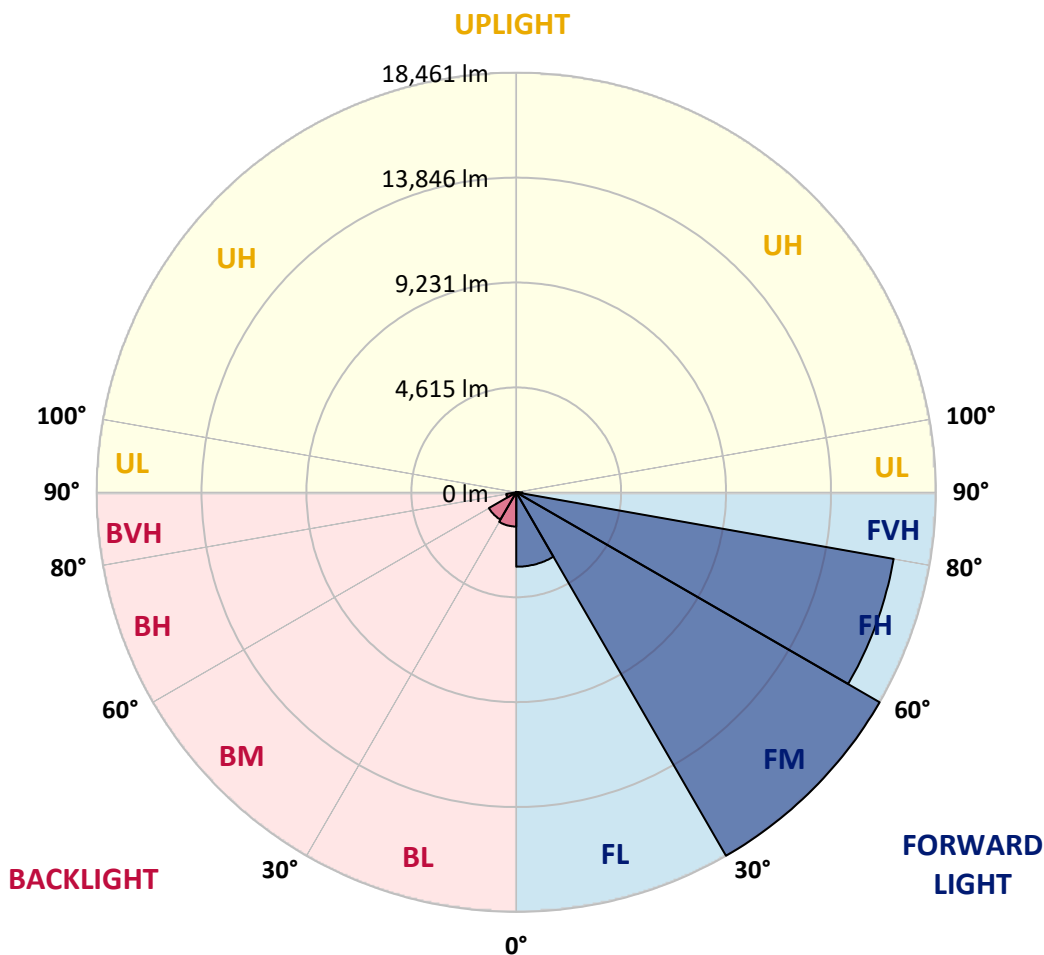


REPORT NUMBER: P321621  
 CATALOG NUMBER: GAN-SA7D-740-U-T3R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3274.9	7.8			
FM (30°-60°)	18461.4	43.7			
FH (60°-80°)	16860.1	39.9			G5
FVH (80°-90°)	271.7	0.6			G3/500
BL (0°-30°)	1504.2	3.6	B3/2500		
BM (30°-60°)	1385.6	3.3	B2/2500		
BH (60°-80°)	447.7	1.1	B1/500		G1/500
BVH (80°-90°)	4.4	0.0			G0/10
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: P321621

CATALOG NUMBER: GAN-SA7D-740-U-T3R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8140.3	8140.3	8140.3	8140.3	8140.3	8140.3	8140.3	8140.3	8140.3	8140.3	8140.3
2.5°	7901.5	7911.0	7945.1	7960.3	7996.3	8057.0	8087.3	8089.2	8138.5	8157.4	8172.6
5°	7342.4	7399.3	7456.1	7516.8	7626.7	7772.7	7916.7	7930.0	8089.2	8206.7	8269.2
7.5°	6861.0	6912.2	6980.4	7077.1	7232.5	7461.8	7702.5	7731.0	8032.3	8299.6	8439.8
10°	6366.3	6408.0	6506.6	6648.7	6862.9	7170.0	7494.0	7541.4	7981.1	8424.6	8671.0
12.5°	5837.6	5862.2	5981.6	6186.3	6500.9	6891.3	7317.8	7380.3	7948.9	8568.7	8944.0
15°	5435.7	5447.1	5560.8	5773.1	6133.2	6641.2	7181.3	7257.1	7956.5	8741.2	9241.5
17.5°	5333.4	5339.1	5399.7	5545.7	5864.1	6417.5	7073.3	7166.2	7979.2	8909.8	9541.0
20°	5748.5	5708.7	5646.1	5623.4	5759.8	6282.9	7008.9	7113.1	8009.6	9059.6	9810.1
22.5°	6887.6	6770.0	6510.4	6163.5	5953.2	6292.4	7025.9	7130.2	8106.2	9243.4	10120.9
25°	8578.2	8415.2	7973.6	7291.3	6635.5	6565.3	7168.1	7274.2	8293.9	9463.3	10418.5
27.5°	10501.9	10340.8	9800.6	8826.5	7708.2	7105.5	7494.0	7592.6	8572.5	9658.5	10645.9
30°	12344.1	12298.7	11661.8	10555.0	9057.7	7981.1	7914.8	7998.2	8779.1	9776.0	10826.0
32.5°	13905.9	13833.9	13322.1	12245.6	10602.4	9033.0	8409.5	8434.1	8934.5	9927.6	11061.0
35°	15353.9	15264.8	14815.6	13797.8	12186.8	10318.1	9171.4	9135.4	9273.7	10232.8	11402.2
37.5°	16618.1	16699.6	16201.1	15232.6	13608.3	11654.3	10198.7	10090.6	9804.4	10729.3	11896.9
40°	17675.6	17675.6	17416.0	16608.6	15143.5	13035.9	11360.5	11218.3	10602.4	11495.0	12524.2
42.5°	18056.6	18138.1	18234.8	17778.0	16517.6	14472.6	12655.0	12507.1	11726.3	12581.1	13316.4
45°	18079.3	18208.2	18702.9	18701.0	17759.0	15899.7	14114.4	14044.2	13166.7	13976.0	14298.2
47.5°	17759.0	17920.1	18735.1	19197.6	18742.7	17228.4	15710.2	15623.0	14859.2	15685.6	15325.5
50°	17264.4	17442.5	18390.2	19392.8	19411.7	18384.5	17391.4	17260.6	16722.3	17639.6	16386.8
52.5°	16379.3	16724.2	18081.2	19438.3	19851.5	19383.3	18991.0	18934.1	18807.1	19521.7	17232.1
55°	14485.8	14868.7	17306.1	19453.4	20259.0	20268.4	20490.2	20505.3	20761.2	21280.5	17861.4
57.5°	13591.3	13807.3	15952.8	19525.5	20863.6	21272.9	22017.8	22135.3	22531.4	22950.3	18579.7
60°	13028.4	13284.2	15285.7	19426.9	21813.1	22590.2	23433.6	23473.4	23897.9	24673.1	19552.0
62.5°	12579.2	12831.2	14864.9	19047.9	22880.2	24174.7	24817.2	24821.0	25139.4	26725.7	20657.0
65°	11470.4	11682.7	14013.9	18621.4	23585.2	25742.1	26424.4	26399.8	26659.4	28890.2	21940.1
67.5°	9867.0	10030.0	12275.9	17004.7	23319.9	27167.4	28850.4	28768.9	28454.3	30760.9	22444.2
70°	7628.6	7687.4	9675.5	14171.2	20833.2	27715.1	31194.9	31153.2	29555.4	30425.4	20596.3
71°	6305.7	6499.0	8527.0	12507.1	19167.3	27209.0	31422.3	31447.0	29278.7	29511.8	19324.6
72.5°	3661.7	3826.6	6180.6	9605.4	16273.1	25097.7	30243.4	30421.6	27986.1	26843.3	16506.2
75°	784.7	839.6	2291.4	4649.2	8951.5	17590.4	23871.4	24506.3	22810.0	18261.3	9948.5
77.5°	545.8	589.4	981.8	2109.5	2958.6	8691.9	14828.9	15545.3	13627.3	6862.9	3184.1
80°	432.1	481.4	765.7	1042.4	799.8	2803.2	6946.3	7384.1	4544.9	1531.4	536.4
82.5°	240.7	286.2	597.0	562.9	307.0	532.6	1944.6	2198.6	909.7	308.9	127.0
85°	70.1	85.3	384.7	409.4	130.8	102.3	331.7	411.3	172.5	81.5	56.9
87.5°	0.0	0.0	185.7	157.3	37.9	15.2	30.3	34.1	34.1	34.1	37.9
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: P321621  
 CATALOG NUMBER: GAN-SA7D-740-U-T3R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8140.3	8140.3	8140.3	8140.3	8140.3	8140.3	8140.3	8140.3	8140.3	8140.3	8140.3
2.5°	8172.6	8185.8	8138.5	8075.9	8009.6	7928.1	7842.8	7776.5	7774.6	7742.3	7710.1
5°	8273.0	8265.4	8134.7	7935.7	7700.6	7456.1	7223.0	6959.6	6872.4	6764.4	6728.3
7.5°	8458.8	8405.7	8129.0	7693.1	7177.5	6665.8	6137.0	5604.4	5377.0	5172.3	5136.3
10°	8691.9	8591.4	8093.0	7329.2	6383.4	5439.5	4641.6	3917.6	3599.2	3354.7	3343.3
12.5°	8934.5	8781.0	7992.5	6779.5	5342.9	4016.2	3096.9	2384.3	2119.0	1948.4	1963.5
15°	9188.5	8959.1	7776.5	6038.5	4158.3	2725.5	1902.9	1484.0	1377.9	1334.3	1345.7
17.5°	9448.1	9082.3	7475.1	5145.8	2988.9	1758.8	1317.2	1199.7	1199.7	1209.2	1213.0
20°	9673.7	9148.7	7031.6	4145.0	2026.1	1281.2	1152.3	1135.3	1144.8	1159.9	1161.8
22.5°	9897.3	9152.4	6453.5	3131.0	1417.7	1122.0	1097.4	1089.8	1095.5	1112.5	1114.4
25°	10079.3	9107.0	5729.5	2227.0	1131.5	1057.6	1046.2	1042.4	1046.2	1067.1	1067.1
27.5°	10153.2	8942.1	4846.3	1565.5	1014.0	985.6	981.8	985.6	991.2	1006.4	1008.3
30°	10160.7	8654.0	3883.5	1133.4	919.2	888.9	896.5	909.7	904.1	900.3	904.1
32.5°	10179.7	8320.4	2945.3	932.5	839.6	792.2	782.8	782.8	760.0	746.8	739.2
35°	10242.2	7928.1	2136.0	837.7	758.1	703.2	667.1	625.5	581.9	559.1	553.4
37.5°	10340.8	7516.8	1529.5	775.2	686.1	623.6	555.3	481.4	418.9	401.8	401.8
40°	10520.9	7092.2	1131.5	725.9	629.2	551.5	449.2	352.5	295.7	286.2	286.2
42.5°	10805.2	6645.0	902.2	682.3	580.0	477.6	343.1	255.9	214.2	208.5	206.6
45°	11100.8	6152.2	788.4	640.6	526.9	392.3	254.0	189.5	164.9	159.2	159.2
47.5°	11396.5	5627.2	733.5	600.8	475.7	305.1	189.5	149.7	138.4	138.4	140.3
50°	11646.7	5079.4	693.7	557.2	409.4	231.2	149.7	127.0	123.2	130.8	132.7
52.5°	11709.2	4541.2	644.4	502.3	327.9	176.3	123.2	111.8	111.8	111.8	111.8
55°	11671.3	4124.2	580.0	434.0	242.6	140.3	106.1	98.6	96.7	96.7	96.7
57.5°	11800.2	3877.8	464.4	337.4	174.4	113.7	92.9	87.2	83.4	81.5	81.5
60°	12059.8	3716.7	331.7	242.6	130.8	94.8	79.6	73.9	68.2	64.4	64.4
62.5°	12404.8	3576.4	246.4	180.1	100.5	75.8	66.3	60.6	53.1	49.3	49.3
65°	12670.1	3326.3	187.6	134.6	75.8	60.6	51.2	49.3	37.9	34.1	32.2
67.5°	12264.5	2776.6	151.6	98.6	56.9	47.4	39.8	37.9	22.7	19.0	19.0
70°	10519.0	1933.2	121.3	72.0	41.7	37.9	32.2	24.6	17.1	15.2	15.2
71°	9539.1	1614.8	109.9	60.6	36.0	36.0	30.3	20.8	15.2	13.3	13.3
72.5°	7924.3	1146.7	92.9	47.4	32.2	37.9	32.2	19.0	15.2	13.3	11.4
75°	4599.9	479.5	64.4	32.2	24.6	45.5	41.7	17.1	11.4	9.5	9.5
77.5°	1383.6	176.3	36.0	20.8	19.0	39.8	47.4	15.2	5.7	1.9	1.9
80°	252.1	75.8	22.7	13.3	13.3	24.6	36.0	7.6	0.0	0.0	0.0
82.5°	89.1	37.9	13.3	7.6	5.7	11.4	17.1	0.0	0.0	0.0	0.0
85°	51.2	26.5	7.6	3.8	0.0	1.9	3.8	0.0	0.0	0.0	0.0
87.5°	34.1	7.6	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

(END OF REPORT)