

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: P383472

Luminaire Tested: **GAN-SA7D-735-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383472  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA7D-735-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42345.4 lumens  
Efficiency: N/A  
Efficacy: 94.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

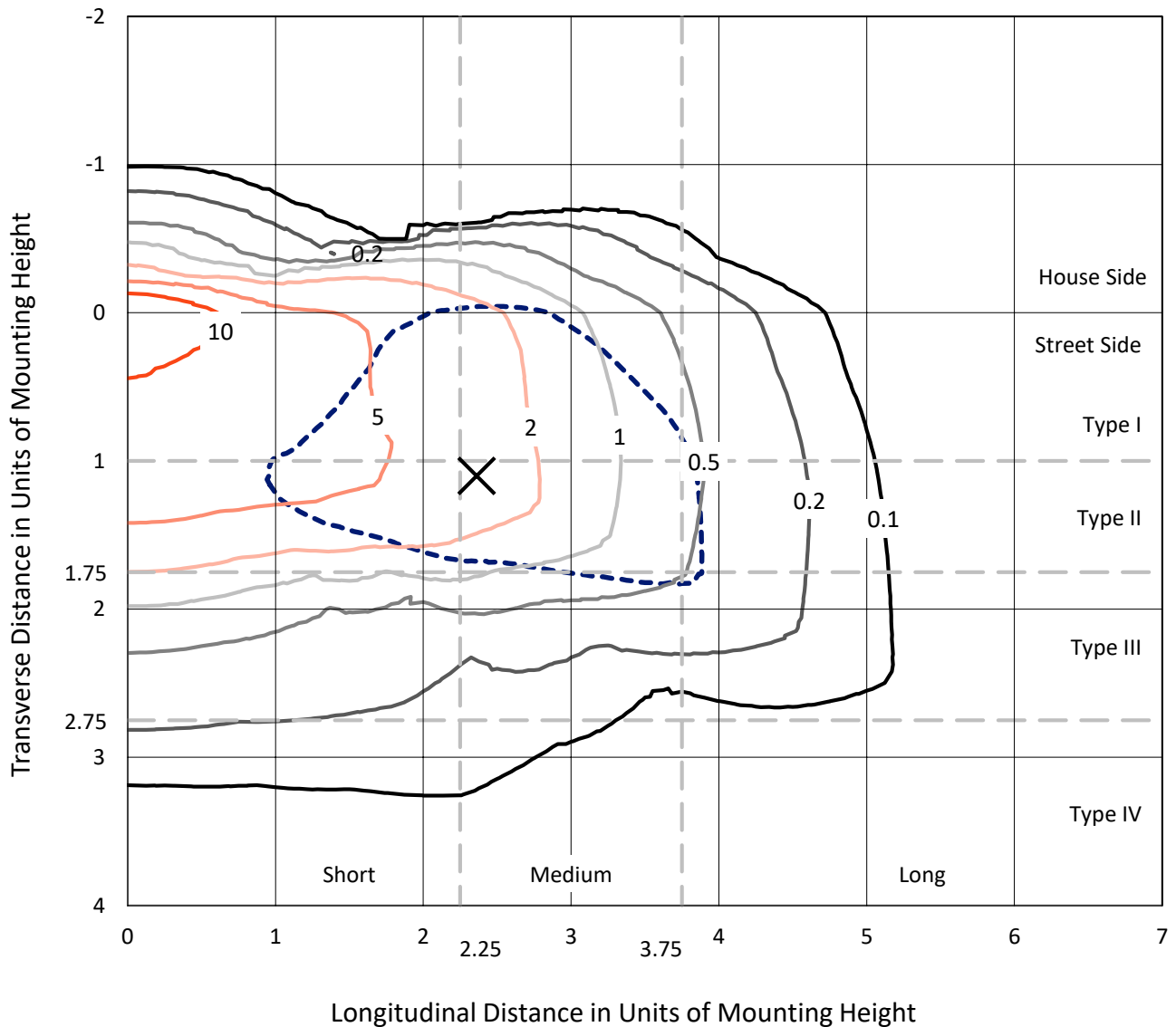
Input Watts (W): 448  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P383472  
 CATALOG NUMBER: GAN-SA7D-735-U-SL2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

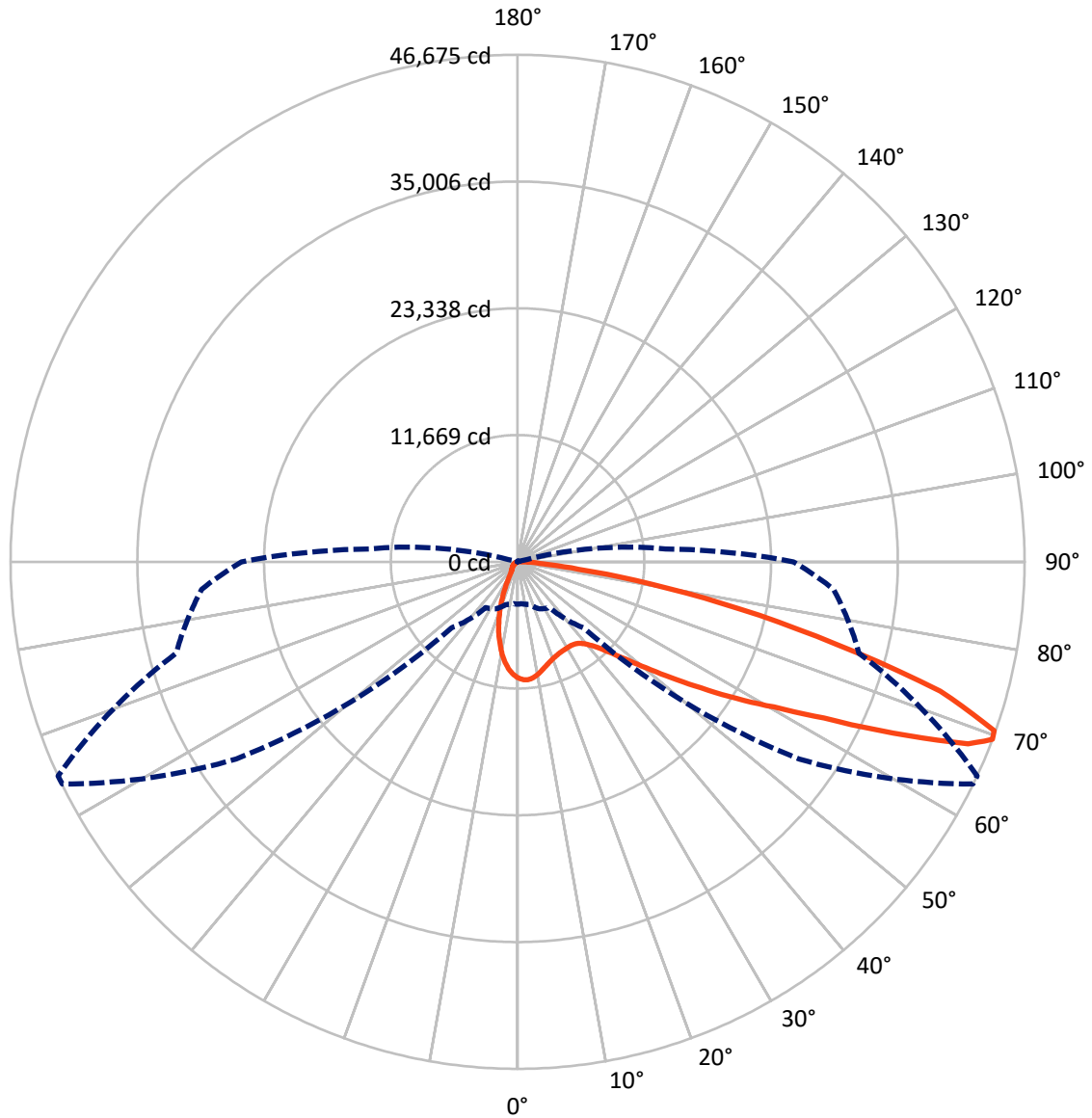
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 fc  
 Type III - Medium - N/A

REPORT NUMBER: P383472  
CATALOG NUMBER: GAN-SA7D-735-U-SL2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P383472  
 CATALOG NUMBER: GAN-SA7D-735-U-SL2-HSS

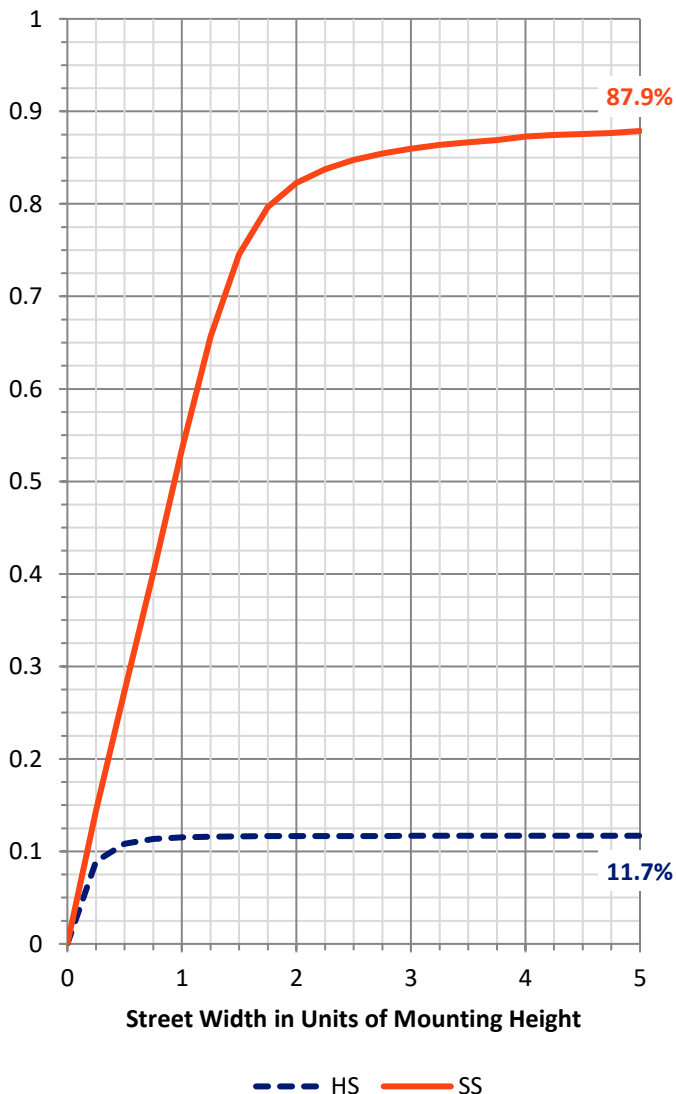
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4991.5	0.0	4991.5
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	37353.9	0.0	37353.9
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	42345.4	0.0	42345.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	894.8	2.1
10°-20°	1958.8	4.6
20°-30°	2713.0	6.4
30°-40°	3782.7	8.9
40°-50°	5879.6	13.9
50°-60°	9439.1	22.3
60°-70°	10677.2	25.2
70°-80°	6270.8	14.8
80°-90°	729.5	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°	42345.4	100.0
0°-180°	42345.4	100.0

**Coefficient of Utilization**

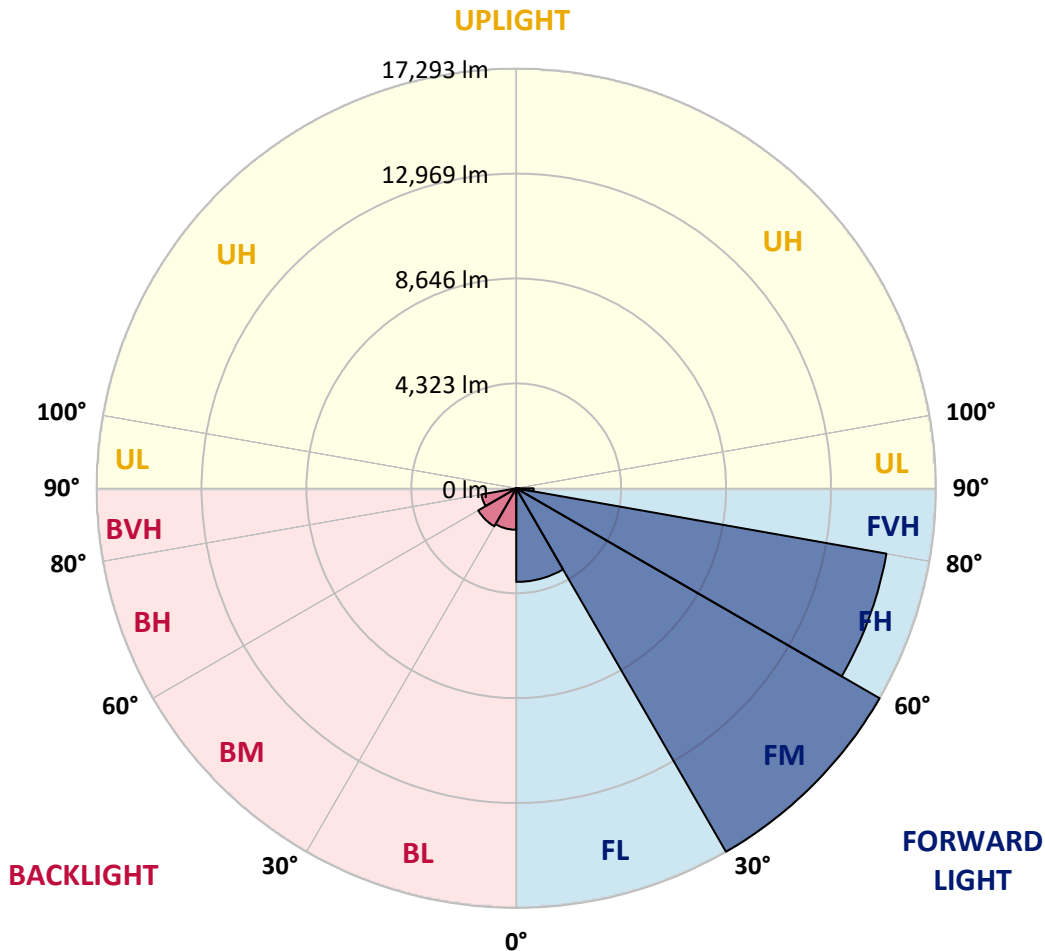


REPORT NUMBER: P383472  
 CATALOG NUMBER: GAN-SA7D-735-U-SL2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3858.7	9.1			
FM (30°-60°)	17292.6	40.8			
FH (60°-80°)	15489.5	36.6			G5
FVH (80°-90°)	713.1	1.7			G4/750
BL (0°-30°)	1707.9	4.0	B3/2500		
BM (30°-60°)	1808.8	4.3	B2/2500		
BH (60°-80°)	1458.4	3.4	B3/2500		G3/2500
BVH (80°-90°)	16.4	0.0			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: P383472  
 CATALOG NUMBER: GAN-SA7D-735-U-SL2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	10700.8	10700.8	10700.8	10700.8	10700.8	10700.8	10700.8	10700.8	10700.8	10700.8	10700.8
2.5°	10795.7	10768.9	10790.3	10836.9	10860.3	10860.3	10878.1	10856.6	10863.8	10811.8	10736.6
5°	10120.2	10079.0	10138.1	10268.9	10430.2	10568.1	10772.4	10879.9	10890.7	10892.5	10804.6
7.5°	9392.7	9355.1	9442.9	9597.0	9804.8	10061.1	10417.7	10729.4	10747.4	10915.8	10851.2
10°	8801.4	8774.5	8876.7	9041.5	9285.2	9571.9	10009.1	10442.7	10494.7	10867.3	10844.1
12.5°	8331.9	8310.4	8407.2	8597.2	8846.3	9163.4	9620.3	10123.8	10193.6	10758.1	10808.3
15°	7989.7	7986.2	8066.7	8249.5	8525.5	8821.1	9288.8	9828.1	9908.8	10639.9	10802.9
17.5°	7810.6	7815.9	7875.0	8031.0	8267.5	8561.3	9009.3	9579.1	9666.9	10534.1	10829.8
20°	7792.6	7798.0	7830.2	7918.1	8109.8	8369.6	8781.7	9369.4	9460.8	10455.2	10872.7
22.5°	7950.3	7946.8	7955.7	7946.8	8054.3	8251.4	8631.2	9208.2	9313.9	10403.3	10906.8
25°	8253.1	8247.7	8244.2	8177.9	8106.2	8211.9	8568.5	9116.8	9217.1	10365.7	10926.5
27.5°	8674.2	8670.7	8665.3	8555.9	8340.9	8274.7	8575.6	9082.8	9167.0	10335.2	10923.0
30°	9227.9	9253.0	9245.8	9093.5	8758.4	8466.4	8650.9	9064.8	9138.3	10276.1	10885.3
32.5°	9878.3	9928.4	9967.9	9804.8	9385.5	8846.3	8824.7	9084.5	9138.3	10231.3	10817.2
35°	10553.8	10618.3	10763.5	10706.1	10154.2	9417.8	9123.9	9202.8	9247.6	10256.3	10785.0
37.5°	11218.6	11295.7	11611.0	11777.6	11161.2	10174.0	9589.8	9494.9	9518.2	10408.6	10820.8
40°	11990.9	12107.3	12585.8	12854.5	12363.6	11186.3	10286.8	9996.5	10005.6	10743.7	10987.4
42.5°	13005.1	13125.0	13642.9	14063.9	13718.2	12465.7	11232.9	10763.5	10754.5	11370.8	11379.9
45°	14241.4	14366.8	14902.5	15370.3	15214.3	13981.6	12444.2	11883.4	11872.6	12360.0	12123.4
47.5°	15642.5	15766.3	16244.6	16726.6	16895.1	15751.9	13986.9	13411.8	13386.7	13734.3	13272.0
50°	16844.9	16925.6	17366.3	18014.9	18774.7	17927.2	15906.0	15352.3	15325.4	15560.2	14958.1
52.5°	17282.1	17328.6	17776.6	18685.1	20580.9	20872.9	18427.0	17713.9	17694.2	17796.4	17203.3
55°	16396.9	16481.1	17031.2	18378.7	21559.2	24202.1	21609.4	20638.2	20489.5	20269.1	19550.6
57.5°	13985.1	14119.6	14710.8	16502.6	21102.3	26843.3	26286.0	23945.9	23727.3	22379.9	21458.9
60°	10478.6	10643.4	11134.3	13067.7	18663.6	27784.0	31396.2	27631.7	27138.9	24060.6	23213.0
62.5°	7190.6	7273.0	7606.3	8865.9	13745.1	26243.0	35671.6	32568.1	31668.6	25888.2	25110.5
65°	5491.9	5520.6	5656.7	6090.4	8185.0	21317.3	37372.0	39081.4	37993.7	28074.2	27079.8
67.5°	4425.8	4402.5	4590.7	5210.6	5481.1	13005.1	35388.5	45243.4	44734.6	30996.7	29061.5
69°	3902.6	3870.3	4062.0	4782.4	5147.9	8597.2	31636.4	46642.9	46675.1	32539.4	29197.7
70°	3511.9	3533.5	3723.4	4528.0	5035.0	6748.0	28052.7	46286.3	46540.7	33116.4	28380.6
72.5°	2345.5	2402.8	2784.5	3759.3	4841.5	5106.7	16938.1	39719.2	40697.6	31817.4	24349.1
75°	1322.3	1365.4	1818.7	2834.7	4562.0	4863.0	8946.6	29262.2	30208.3	26606.8	18776.5
77.5°	648.6	671.9	1028.5	1829.5	3814.8	4633.6	5074.4	19876.6	20957.1	17366.3	10620.1
80°	274.2	286.7	514.2	1128.8	2727.1	4422.2	3768.2	12232.7	12367.1	6803.6	2829.3
82.5°	105.7	109.3	216.8	704.2	1732.7	3447.5	3151.8	5800.1	5660.4	1281.2	645.1
85°	12.6	14.3	78.8	422.8	964.0	1773.9	2560.5	2499.6	2313.2	254.4	331.4
87.5°	0.0	0.0	5.4	129.0	286.7	831.4	1331.4	1037.5	935.4	82.4	172.1
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: P383472  
 CATALOG NUMBER: GAN-SA7D-735-U-SL2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10700.8	10700.8	10700.8	10700.8	10700.8	10700.8	10700.8	10700.8	10700.8	10700.8	10700.8
2.5°	10673.9	10656.0	10559.2	10419.5	10286.8	10122.0	9964.3	9869.4	9794.1	9743.9	9803.0
5°	10702.6	10623.7	10329.8	9953.6	9584.4	9168.8	8781.7	8453.8	8324.8	8181.4	8246.0
7.5°	10693.6	10544.8	10016.3	9346.1	8668.8	7968.2	7305.3	6794.6	6529.4	6269.6	6335.8
10°	10648.8	10397.9	9597.0	8604.3	7590.2	6583.2	5642.5	4927.5	4528.0	4166.0	4218.0
12.5°	10550.2	10200.8	9102.4	7755.0	6398.6	5070.9	3968.9	3053.2	2562.3	2345.5	2372.4
15°	10491.1	10009.1	8579.3	6894.9	5126.4	3531.7	2426.1	1804.4	1580.4	1508.7	1517.7
17.5°	10462.4	9824.6	8038.1	5911.2	3825.5	2248.8	1567.9	1383.3	1334.9	1322.3	1326.0
20°	10433.8	9638.2	7480.9	4938.2	2635.7	1512.3	1288.3	1234.6	1216.6	1200.5	1204.1
22.5°	10385.4	9459.0	6882.4	3952.7	1777.5	1227.4	1161.1	1109.1	1071.5	1051.8	1055.4
25°	10326.3	9270.9	6271.4	2944.0	1297.3	1094.8	1032.1	958.7	913.8	878.0	879.8
27.5°	10231.3	9039.7	5640.6	2143.0	1089.4	980.1	895.9	815.3	740.0	698.8	698.8
30°	10098.7	8778.2	4940.1	1533.8	976.5	867.3	765.1	664.8	584.2	546.5	542.9
32.5°	9951.7	8505.8	4232.3	1162.9	886.9	761.5	645.1	539.4	467.6	437.2	435.4
35°	9826.3	8211.9	3526.3	974.8	797.4	659.3	532.2	442.6	385.2	360.1	358.4
37.5°	9745.7	7918.1	2838.2	870.8	716.7	564.4	446.1	365.5	324.4	304.6	302.8
40°	9733.2	7699.4	2209.4	792.0	641.5	480.2	372.7	310.0	272.4	250.9	249.1
42.5°	9896.2	7574.0	1695.0	725.7	564.4	406.7	317.2	265.2	225.8	204.3	202.5
45°	10324.4	7613.4	1304.4	666.5	487.4	344.0	268.8	220.4	184.5	168.4	164.9
47.5°	11105.7	7885.8	1037.5	607.5	413.9	292.0	229.3	182.8	152.3	136.2	134.4
50°	12496.2	8525.5	867.3	542.9	345.8	249.1	189.9	148.7	123.6	109.3	107.5
52.5°	14341.7	9665.1	774.0	480.2	286.7	211.5	155.8	118.3	96.8	86.0	84.2
55°	16377.3	11044.8	713.1	412.1	234.7	175.6	123.6	93.2	75.3	66.3	62.7
57.5°	18364.3	12239.9	655.8	345.8	195.3	143.4	98.6	73.5	59.2	50.2	48.3
60°	20190.2	13338.3	589.5	277.7	159.5	112.9	77.0	57.4	46.6	37.6	37.6
62.5°	22145.1	14187.7	498.1	216.8	130.8	86.0	62.7	52.0	37.6	32.2	30.5
65°	24216.4	14818.3	390.6	168.4	102.1	64.5	52.0	53.8	30.5	23.3	21.5
67.5°	25746.7	14692.9	288.5	132.6	78.8	50.2	50.2	57.4	26.9	17.9	16.1
69°	25409.8	13673.3	241.9	114.7	68.1	43.0	46.6	57.4	25.1	16.1	14.3
70°	24433.3	12544.5	213.2	102.1	60.9	39.4	44.8	55.5	23.3	16.1	14.3
72.5°	20347.9	9448.2	166.7	77.0	48.3	32.2	37.6	48.3	23.3	16.1	12.6
75°	15305.7	6047.4	127.2	55.5	35.9	25.1	28.7	35.9	23.3	14.3	12.6
77.5°	8328.4	2180.7	91.4	37.6	25.1	19.7	19.7	26.9	21.5	10.7	7.2
80°	2141.3	548.3	57.4	25.1	19.7	14.3	12.6	17.9	12.6	1.8	0.0
82.5°	528.6	123.6	30.5	17.9	14.3	5.4	5.4	8.9	5.4	0.0	0.0
85°	290.3	60.9	19.7	12.6	7.2	0.0	0.0	1.8	0.0	0.0	0.0
87.5°	148.7	17.9	5.4	3.5	1.8	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)