

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: P324151

Luminaire Tested: **GAN-SA7A-740-U-SLL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324151  
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-SA7A-740-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 615mA 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: 24437 lumens  
Efficiency: N/A  
Efficacy: 108.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4

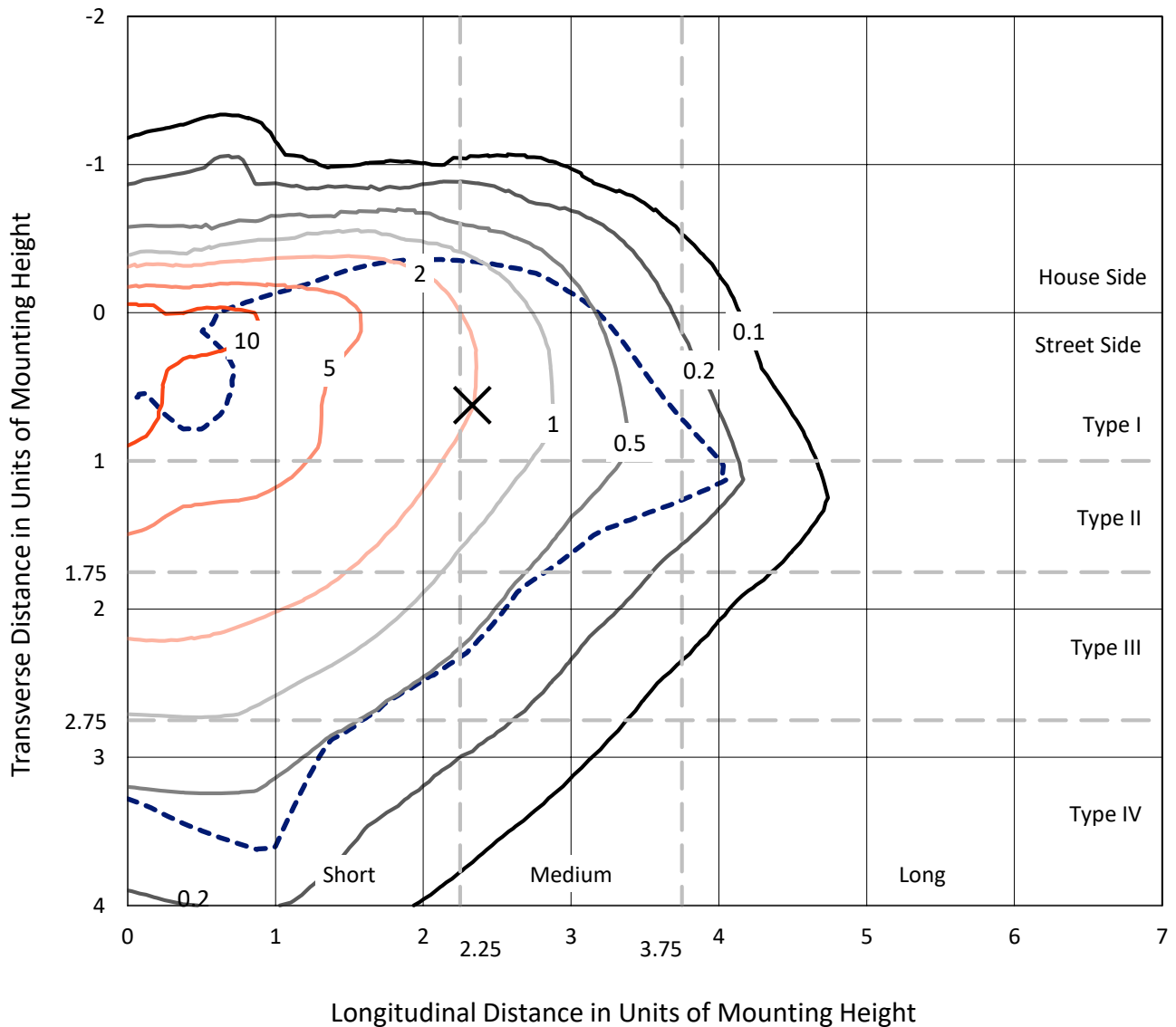
Input Watts (W): 226  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

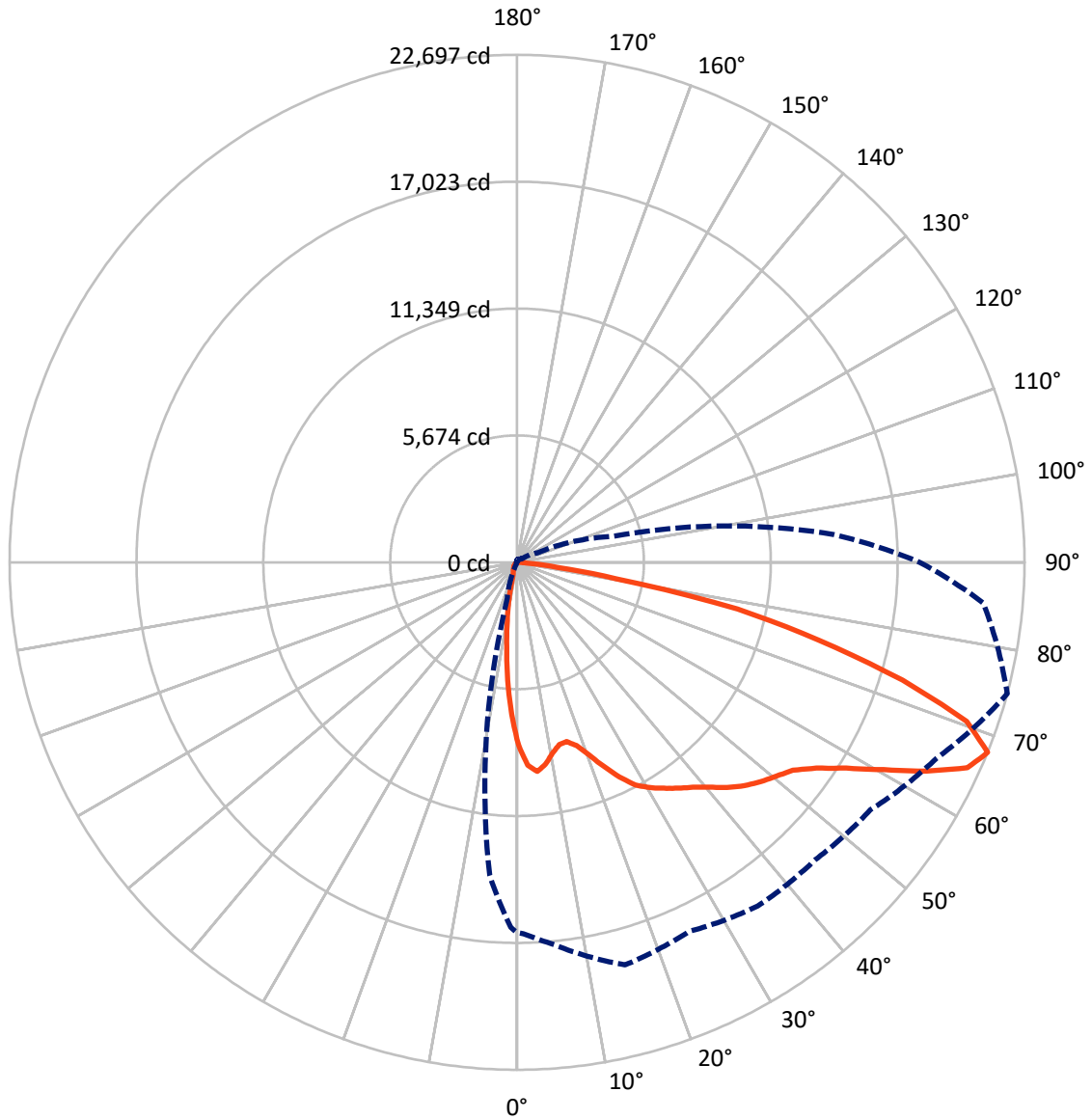
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 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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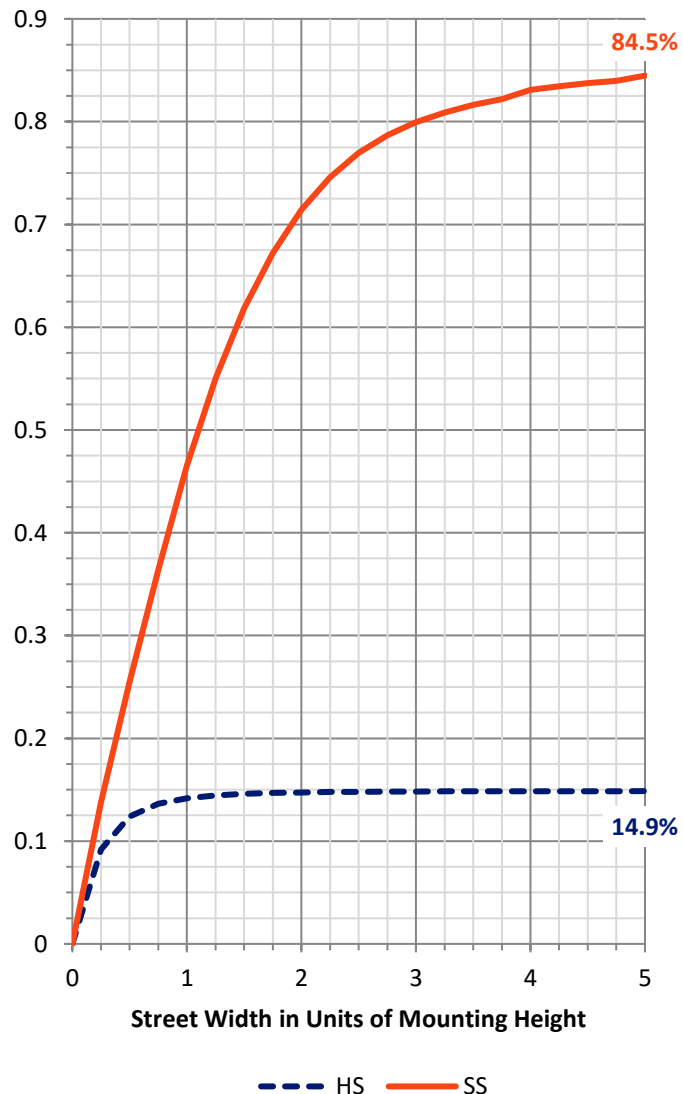
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3667.0	0.0	3667.0
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	20770.0	0.0	20770.0
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	24437.0	0.0	24437.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	621.9	2.5
10°-20°	1224.5	5.0
20°-30°	1732.3	7.1
30°-40°	2546.9	10.4
40°-50°	3660.8	15.0
50°-60°	5153.4	21.1
60°-70°	6018.8	24.6
70°-80°	3070.6	12.6
80°-90°	407.9	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°	24437.0	100.0
0°-180°	24437.0	100.0

**Coefficient of Utilization**

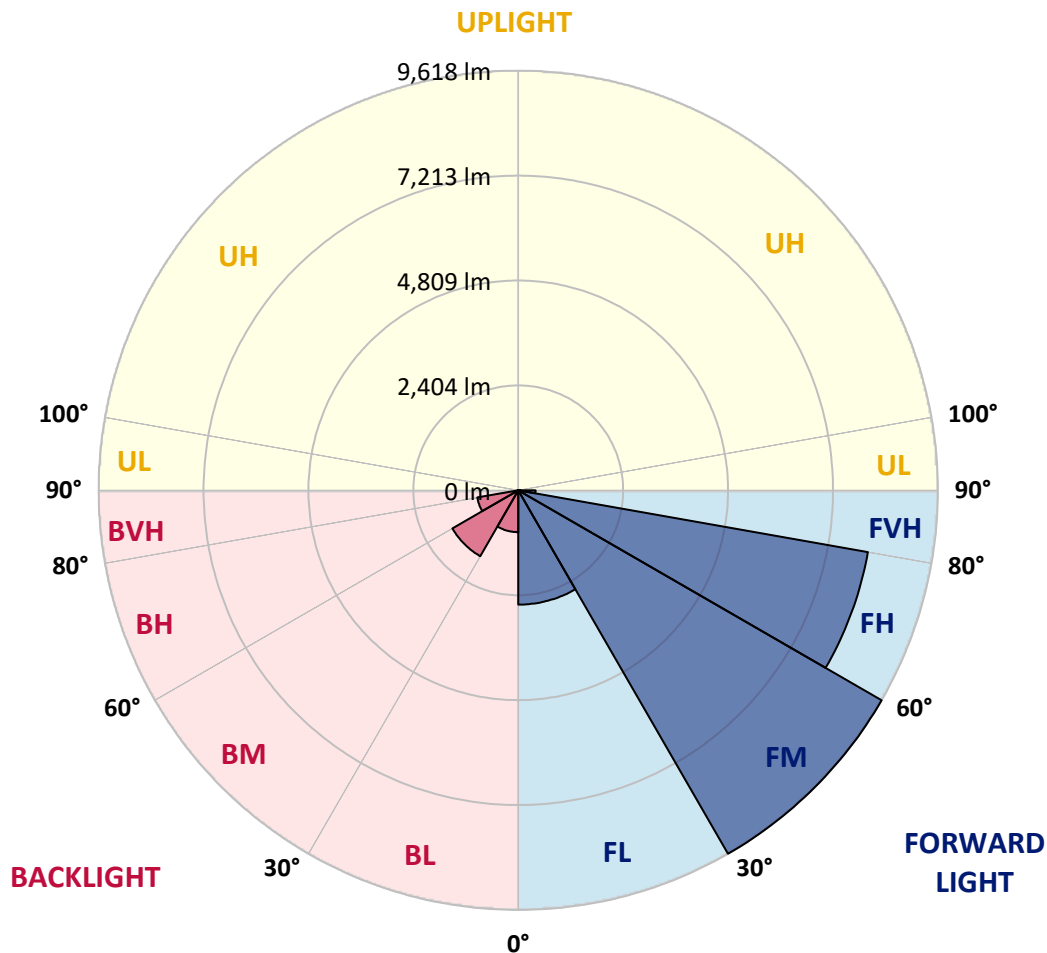


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2619.6	10.7			
FM (30°-60°)	9618.0	39.4			
FH (60°-80°)	8136.8	33.3			G4/12000
FVH (80°-90°)	395.5	1.6			G3/500
BL (0°-30°)	959.0	3.9	B2/1000		
BM (30°-60°)	1743.2	7.1	B2/2500		
BH (60°-80°)	952.5	3.9	B2/1000		G2/1000
BVH (80°-90°)	12.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8198.2	8198.2	8198.2	8198.2	8198.2	8198.2	8198.2	8198.2	8198.2	8198.2	8198.2
2.5°	8887.0	8900.9	8972.6	9139.3	9321.1	9335.0	9457.7	9331.5	9288.7	9084.9	8874.2
5°	8954.1	9007.4	9253.9	9743.6	10168.4	10305.0	10402.3	10154.6	9894.1	9396.3	8865.0
7.5°	8413.5	8502.6	8890.4	9809.6	10569.0	10904.7	10968.4	10580.6	9942.7	9123.1	8324.4
10°	7721.3	7823.1	8290.8	9420.6	10463.6	11039.0	11126.9	10618.8	9701.9	8680.9	7739.8
12.5°	7161.0	7280.2	7758.3	8983.1	10101.3	10738.0	10911.6	10490.3	9493.6	8367.2	7340.4
15°	6902.8	7039.4	7541.8	8700.6	9699.6	10200.9	10344.4	10162.7	9377.8	8317.4	7247.8
17.5°	7051.0	7199.2	7717.8	8724.9	9322.2	9536.4	9652.2	9726.2	9377.8	8617.3	7518.7
20°	7658.7	7818.5	8367.2	8971.5	9009.7	8929.8	9053.7	9314.1	9486.6	9186.8	8169.3
22.5°	8499.2	8686.7	9306.0	9394.0	8856.9	8554.7	8570.9	8979.6	9684.6	9909.1	9072.2
25°	9523.7	9752.9	10382.6	10023.7	8920.5	8331.3	8325.5	8704.1	9877.9	10632.6	10078.2
27.5°	10541.2	10793.6	11346.9	10792.4	9183.3	8290.8	8279.2	8620.7	10066.6	11276.3	11176.7
30°	11394.4	11639.8	12116.7	11349.2	9466.9	8385.7	8330.2	8709.9	10178.9	11694.2	11977.8
32.5°	12088.9	12285.7	12671.2	11732.4	9770.2	8569.8	8449.4	8948.3	10369.9	12047.2	12714.0
35°	12852.9	13060.2	13214.1	12097.0	10110.6	8834.9	8662.4	9326.9	10663.9	12406.1	13520.9
37.5°	13724.6	13930.7	13912.2	12430.4	10542.4	9273.6	9163.6	9926.5	11121.2	12761.5	14421.5
40°	14577.8	14788.5	14638.0	12795.1	11049.4	9997.1	9916.1	10827.1	11733.5	13216.4	15477.2
42.5°	15376.5	15604.6	15282.8	13140.0	11653.7	10909.3	11048.2	11987.1	12499.9	13776.7	16387.1
45°	16020.2	16252.8	15823.4	13475.7	12290.3	12016.0	12433.9	13272.0	13421.3	14250.2	17001.8
47.5°	16487.8	16707.8	16198.4	13811.4	13105.3	13369.2	14097.4	14619.5	14253.7	14661.1	17438.2
50°	16786.5	16957.8	16308.4	14231.7	14174.9	14948.2	15830.3	16085.0	15037.4	15031.6	17968.4
52.5°	16976.4	17053.9	16389.4	14670.4	15290.9	16667.3	17527.4	17607.3	15844.2	15439.0	18682.7
55°	17630.4	17692.9	16963.6	15201.7	16213.5	18173.3	19062.4	18988.3	16757.6	16236.6	19525.4
57.5°	18746.3	18812.3	18150.2	15965.8	16960.1	19104.0	20174.8	20308.0	17828.4	17357.2	20428.3
60°	19306.6	19429.3	19193.2	16933.5	17683.7	19699.1	20933.1	21357.9	19166.6	18834.3	21303.5
62.5°	18798.4	18976.7	19319.4	18006.6	18402.5	20026.7	21169.2	21734.1	20537.2	20555.7	21842.9
65°	17784.4	17926.8	18507.9	18594.7	18819.3	19986.1	20585.8	21208.6	21376.4	22137.0	21814.0
67.5°	16559.6	16612.9	17106.0	18641.0	18215.0	18768.3	18833.2	19293.9	20713.1	22697.3	20937.7
70°	14796.6	14825.5	15256.1	17091.0	15653.2	15774.8	15678.7	15772.4	17807.5	21332.4	18725.5
72.5°	11908.3	11981.3	12593.6	14193.5	11403.6	11052.9	11807.6	11766.0	13714.2	18022.8	13907.5
75°	8767.7	8893.9	9818.8	11432.6	8003.7	7239.7	7790.7	7937.7	9749.4	13941.1	8697.1
77.5°	6138.8	6232.6	7128.6	8404.3	5792.7	5176.8	4977.7	5152.5	6435.2	10085.1	4381.6
80°	3536.5	3571.2	4143.1	4852.7	3903.5	4466.1	4045.8	4166.2	3856.0	4486.9	1884.6
82.5°	2314.1	2319.9	2543.3	2888.2	2431.0	2824.6	2090.6	2672.9	2371.9	1802.4	613.5
85°	1250.2	1257.2	1474.8	2050.1	1376.4	777.9	457.3	938.8	1466.7	413.3	167.9
87.5°	137.8	126.2	444.5	745.5	382.0	70.6	24.3	105.3	235.0	26.6	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°	8198.2	8198.2	8198.2	8198.2	8198.2	8198.2	8198.2	8198.2	8198.2	8198.2	8198.2
2.5°	8766.6	8670.5	8430.9	8177.4	7973.6	7782.6	7590.5	7355.5	7173.7	7136.7	7076.5
5°	8579.0	8274.6	7772.2	7267.5	6861.2	6348.3	6023.0	5769.5	5521.8	5506.8	5457.0
7.5°	7923.8	7523.3	6816.0	6118.0	5546.1	5057.6	4564.5	4234.5	3975.2	3883.8	3829.4
10°	7294.1	6843.8	5960.5	5164.1	4653.6	4221.8	3874.5	3529.6	3217.0	3001.7	2904.4
12.5°	6854.2	6356.4	5382.9	4696.4	4330.6	3920.8	3497.1	3066.5	2706.5	2447.2	2288.6
15°	6684.0	6152.7	5189.6	4511.2	4059.7	3541.1	2999.4	2507.4	2108.0	1873.0	1730.6
17.5°	6886.6	6268.5	5174.5	4285.5	3654.6	3009.8	2411.3	1830.2	1454.0	1275.7	1184.2
20°	7400.6	6636.6	5168.7	4008.8	3173.0	2380.0	1633.4	1203.9	975.9	876.3	833.5
22.5°	8127.6	7106.6	5215.0	3735.6	2671.8	1700.5	1127.5	884.4	767.5	714.2	689.9
25°	9062.9	7766.4	5345.8	3487.9	2200.6	1268.7	878.6	740.9	658.7	617.0	599.6
27.5°	10059.6	8525.8	5549.6	3272.6	1817.4	1011.8	752.4	634.4	575.3	546.4	530.2
30°	10881.5	9405.6	5755.6	3032.9	1539.6	882.1	688.8	578.8	510.5	492.0	476.9
32.5°	11600.4	10071.2	5901.5	2816.5	1357.9	783.7	622.8	517.5	471.1	435.3	419.1
35°	12344.8	10625.7	5896.9	2664.8	1232.9	709.6	567.2	463.0	407.5	365.8	353.1
37.5°	13150.5	11252.0	5796.2	2535.2	1178.4	650.6	536.0	434.1	378.5	336.9	320.7
40°	14093.9	11909.5	5693.1	2413.6	1163.4	603.1	514.0	411.0	351.9	311.4	295.2
42.5°	15013.0	12502.2	5602.8	2323.3	1098.6	602.0	494.3	393.6	331.1	291.7	273.2
45°	15748.1	13054.4	5585.5	2268.9	1030.3	622.8	483.9	382.0	314.9	275.5	258.1
47.5°	16359.3	13654.0	5696.6	2230.7	965.4	568.4	509.3	373.9	299.8	261.6	241.9
50°	17086.3	14390.3	5958.2	2168.2	897.1	511.7	583.4	376.2	287.1	247.7	226.9
52.5°	18100.4	15408.9	6342.5	2062.9	803.4	459.6	574.2	378.5	273.2	232.7	211.8
55°	19237.2	16681.2	6755.8	1888.1	672.6	391.3	492.0	362.3	246.6	216.5	196.8
57.5°	20431.8	17835.3	7001.2	1679.7	534.8	338.0	393.6	329.9	217.6	194.5	181.7
60°	20619.4	18274.0	6888.9	1423.9	424.8	294.0	291.7	335.7	194.5	171.3	162.1
62.5°	20152.8	17723.0	6346.0	1195.8	355.4	258.1	239.6	292.9	176.0	152.8	143.5
65°	19255.7	16233.2	5466.2	1077.7	329.9	221.1	199.1	206.1	154.0	133.1	125.0
67.5°	18007.8	14244.4	4488.1	1010.6	326.4	189.8	170.2	156.3	133.1	115.8	108.8
70°	15456.4	11866.7	3580.5	973.6	317.2	159.8	143.5	127.3	111.1	98.4	92.6
72.5°	11375.8	8408.9	2785.2	933.0	319.5	127.3	125.0	105.3	89.1	76.4	74.1
75°	6572.9	4804.1	1826.7	755.9	304.5	98.4	104.2	74.1	62.5	53.3	53.3
77.5°	3502.9	2929.9	695.7	314.9	111.1	62.5	59.0	44.0	39.4	32.4	31.3
80°	1526.9	1289.6	209.5	88.0	61.4	33.6	22.0	19.7	17.4	13.9	12.7
82.5°	540.6	466.5	68.3	42.8	26.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	122.7	88.0	0.0	10.4	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°	8198.2	8198.2	8198.2	8198.2	8198.2	8198.2	8198.2	8198.2	8198.2	8198.2	8198.2
2.5°	6953.8	6928.3	6777.8	6783.6	6810.2	6848.4	6758.1	6799.8	6912.1	7019.7	7060.3
5°	5377.1	5382.9	5291.4	5348.2	5399.1	5433.8	5288.0	5290.3	5379.4	5501.0	5564.6
7.5°	3788.9	3779.6	3784.2	3919.7	4015.7	3946.3	4000.7	3812.0	3823.6	3910.4	3845.6
10°	2816.5	2689.1	2617.4	2719.2	2824.6	2786.4	2692.6	2631.2	2674.1	2770.2	2763.2
12.5°	2213.4	2030.4	1922.8	1849.9	1936.7	1864.9	1862.6	1809.3	1751.5	1761.9	1915.8
15°	1664.6	1531.5	1404.2	1287.3	1284.9	1260.6	1136.8	997.9	986.3	993.2	1073.1
17.5°	1144.9	1099.7	1047.6	946.9	920.3	818.4	698.0	642.5	614.7	627.4	654.0
20°	804.5	787.2	793.0	738.6	700.4	603.1	532.5	510.5	505.9	518.6	531.3
22.5°	666.8	635.5	632.1	607.7	569.5	498.9	460.7	448.0	442.2	453.8	463.0
25°	583.4	552.2	539.4	524.4	483.9	435.3	412.1	400.5	394.7	401.7	407.5
27.5°	514.0	485.0	473.5	463.0	423.7	389.0	370.4	360.0	355.4	357.7	363.5
30°	461.9	436.4	421.4	408.6	375.1	350.8	334.5	324.1	319.5	319.5	325.3
32.5°	407.5	393.6	379.7	363.5	332.2	316.0	299.8	288.2	283.6	284.8	289.4
35°	339.2	334.5	338.0	323.0	296.3	282.5	266.3	253.5	250.0	251.2	255.8
37.5°	301.0	280.1	292.9	284.8	269.7	251.2	230.4	218.8	213.0	216.5	218.8
40°	276.7	251.2	241.9	250.0	247.7	217.6	199.1	187.5	182.9	184.1	186.4
42.5°	255.8	225.7	204.9	203.7	217.6	189.8	170.2	159.8	154.0	154.0	156.3
45°	236.2	203.7	178.3	158.6	182.9	160.9	142.4	133.1	126.2	126.2	127.3
47.5°	221.1	185.2	155.1	129.7	137.8	132.0	116.9	107.7	100.7	100.7	101.9
50°	207.2	166.7	134.3	108.8	103.0	108.8	94.9	84.5	79.9	78.7	81.0
52.5°	192.2	148.2	114.6	92.6	81.0	82.2	74.1	67.1	61.4	61.4	63.7
55°	177.1	133.1	99.6	78.7	67.1	61.4	59.0	54.4	49.8	49.8	52.1
57.5°	162.1	116.9	84.5	64.8	53.3	48.6	48.6	45.1	41.7	41.7	44.0
60°	148.2	100.7	69.5	53.3	41.7	40.5	41.7	38.2	35.9	35.9	38.2
62.5°	132.0	85.7	56.7	44.0	33.6	32.4	35.9	33.6	31.3	31.3	33.6
65°	112.3	72.9	45.1	33.6	25.5	25.5	30.1	27.8	25.5	25.5	27.8
67.5°	94.9	61.4	34.7	24.3	18.5	19.7	25.5	23.2	22.0	22.0	24.3
70°	78.7	47.5	24.3	15.0	10.4	15.0	19.7	19.7	19.7	19.7	22.0
72.5°	59.0	32.4	13.9	5.8	4.6	10.4	16.2	18.5	17.4	17.4	20.8
75°	38.2	18.5	4.6	0.0	0.0	5.8	12.7	15.0	15.0	13.9	17.4
77.5°	22.0	5.8	0.0	0.0	0.0	0.0	8.1	6.9	5.8	4.6	8.1
80°	5.8	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: P324151  
 CATALOG NUMBER: GAN-SA7A-740-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8198.2	8198.2	8198.2	8198.2	8198.2	8198.2	8198.2	8198.2	8198.2	8198.2
2.5°	7223.5	7360.1	7552.2	7756.0	8069.7	8318.6	8562.8	8772.4	8853.4	8887.0
5°	5717.4	5917.7	6199.0	6560.2	7126.2	7635.6	8151.9	8671.7	8897.4	8954.1
7.5°	4102.6	4358.4	4716.1	5168.7	5832.0	6491.9	7213.1	7975.9	8325.5	8413.5
10°	3036.4	3349.0	3758.8	4235.7	4868.9	5547.3	6333.3	7205.0	7604.3	7721.3
12.5°	2154.3	2576.8	3125.5	3705.5	4254.2	4859.6	5654.9	6615.7	7034.8	7161.0
15°	1265.3	1673.9	2323.3	3100.1	3802.7	4416.3	5224.3	6313.6	6775.5	6902.8
17.5°	725.8	929.6	1420.4	2286.3	3240.2	4089.8	5088.9	6388.9	6932.9	7051.0
20°	554.5	619.3	818.4	1472.5	2582.6	3769.2	5088.9	6814.9	7485.1	7658.7
22.5°	485.0	532.5	613.5	878.6	1900.8	3425.4	5147.9	7430.7	8307.0	8499.2
25°	430.6	473.5	542.9	661.0	1296.5	3016.7	5288.0	8186.6	9274.8	9523.7
27.5°	385.5	426.0	488.5	578.8	886.7	2523.6	5476.7	9073.3	10342.1	10541.2
30°	345.0	383.2	439.9	503.6	684.1	1964.5	5637.6	9909.1	11180.2	11394.4
32.5°	306.8	341.5	392.4	439.9	560.3	1452.8	5654.9	10571.3	11875.9	12088.9
35°	270.9	302.1	348.4	385.5	464.2	1147.2	5385.2	11145.5	12571.6	12852.9
37.5°	236.2	266.3	306.8	334.5	408.6	935.3	4973.1	11785.6	13464.2	13724.6
40°	203.7	230.4	272.0	290.6	386.6	718.9	4525.1	12457.0	14339.3	14577.8
42.5°	173.6	199.1	239.6	275.5	339.2	537.1	4041.2	13086.8	15126.5	15376.5
45°	144.7	171.3	211.8	291.7	281.3	401.7	3523.8	13504.7	15748.1	16020.2
47.5°	116.9	147.0	202.6	277.8	224.6	295.2	3114.0	13900.6	16219.3	16487.8
50°	93.8	123.9	228.0	247.7	184.1	225.7	2942.6	14254.8	16528.4	16786.5
52.5°	76.4	104.2	215.3	189.8	154.0	186.4	3035.3	14829.0	16814.3	16976.4
55°	63.7	82.2	129.7	132.0	130.8	158.6	3149.9	15653.2	17554.0	17630.4
57.5°	55.6	66.0	90.3	101.9	110.0	141.2	3152.2	16836.3	18698.9	18746.3
60°	47.5	57.9	75.2	82.2	94.9	126.2	3037.6	17249.5	19149.2	19306.6
62.5°	41.7	50.9	62.5	68.3	79.9	113.4	2769.0	16651.1	18531.0	18798.4
65°	37.0	46.3	52.1	57.9	70.6	101.9	2326.8	15454.1	17505.4	17784.4
67.5°	32.4	40.5	46.3	52.1	63.7	90.3	1713.3	14063.8	16328.1	16559.6
70°	28.9	35.9	41.7	46.3	55.6	76.4	1039.5	11933.8	14700.5	14796.6
72.5°	27.8	32.4	38.2	41.7	48.6	67.1	526.7	8770.1	11752.1	11908.3
75°	24.3	28.9	34.7	37.0	42.8	57.9	214.2	5760.3	8516.5	8767.7
77.5°	19.7	26.6	31.3	33.6	37.0	47.5	108.8	3681.2	5976.7	6138.8
80°	6.9	19.7	26.6	27.8	31.3	34.7	71.8	2015.4	3467.0	3536.5
82.5°	0.0	12.7	20.8	19.7	22.0	26.6	46.3	958.5	2288.6	2314.1
85°	0.0	5.8	16.2	12.7	9.3	18.5	16.2	209.5	1200.4	1250.2
87.5°	0.0	0.0	1.2	5.8	4.6	6.9	2.3	1.2	108.8	137.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)