

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: P324113

Luminaire Tested: **GAN-SA9A-730-U-SLL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324113  
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-SA9A-730-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 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: 28128 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

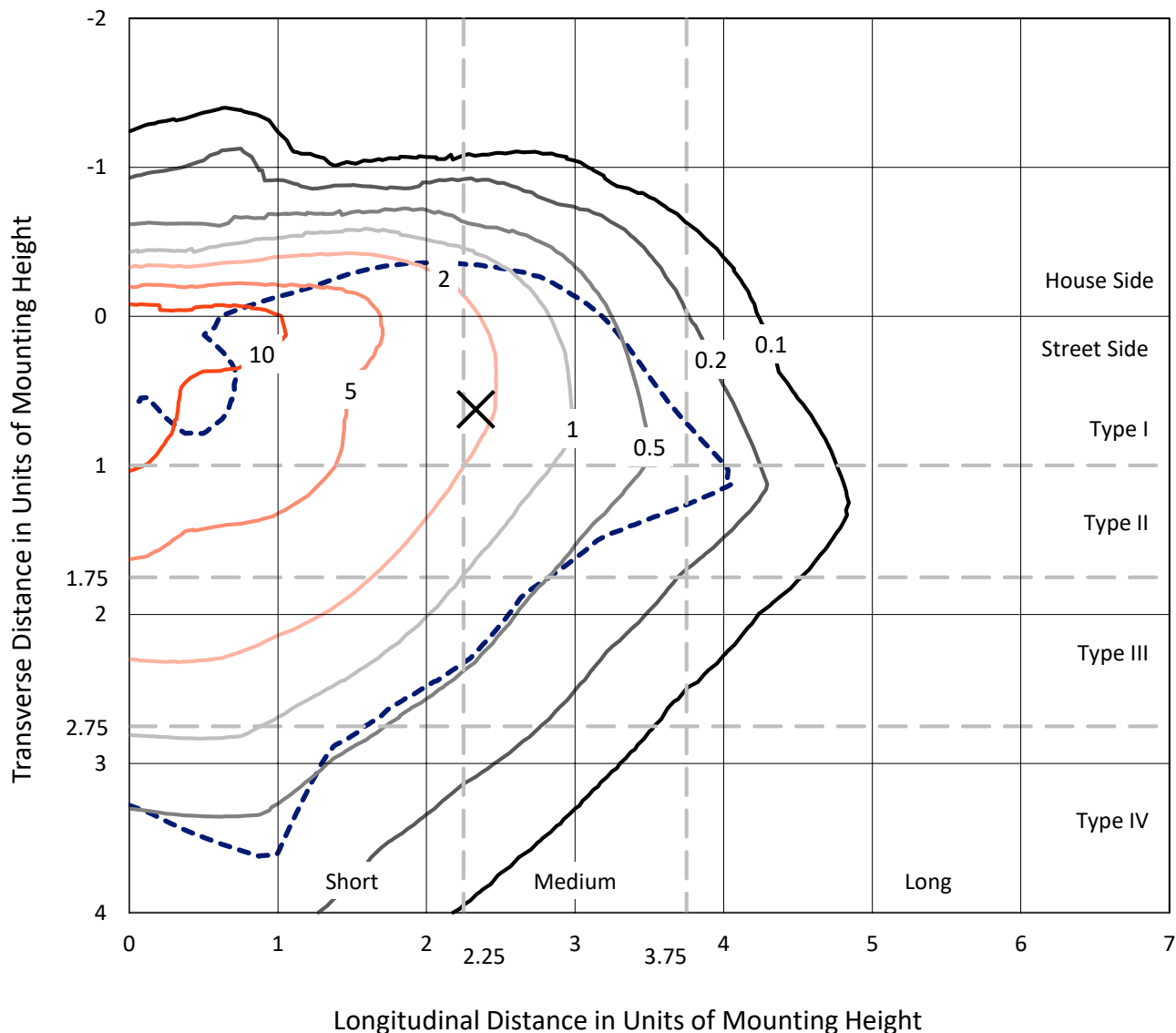
Input Watts (W): 290  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

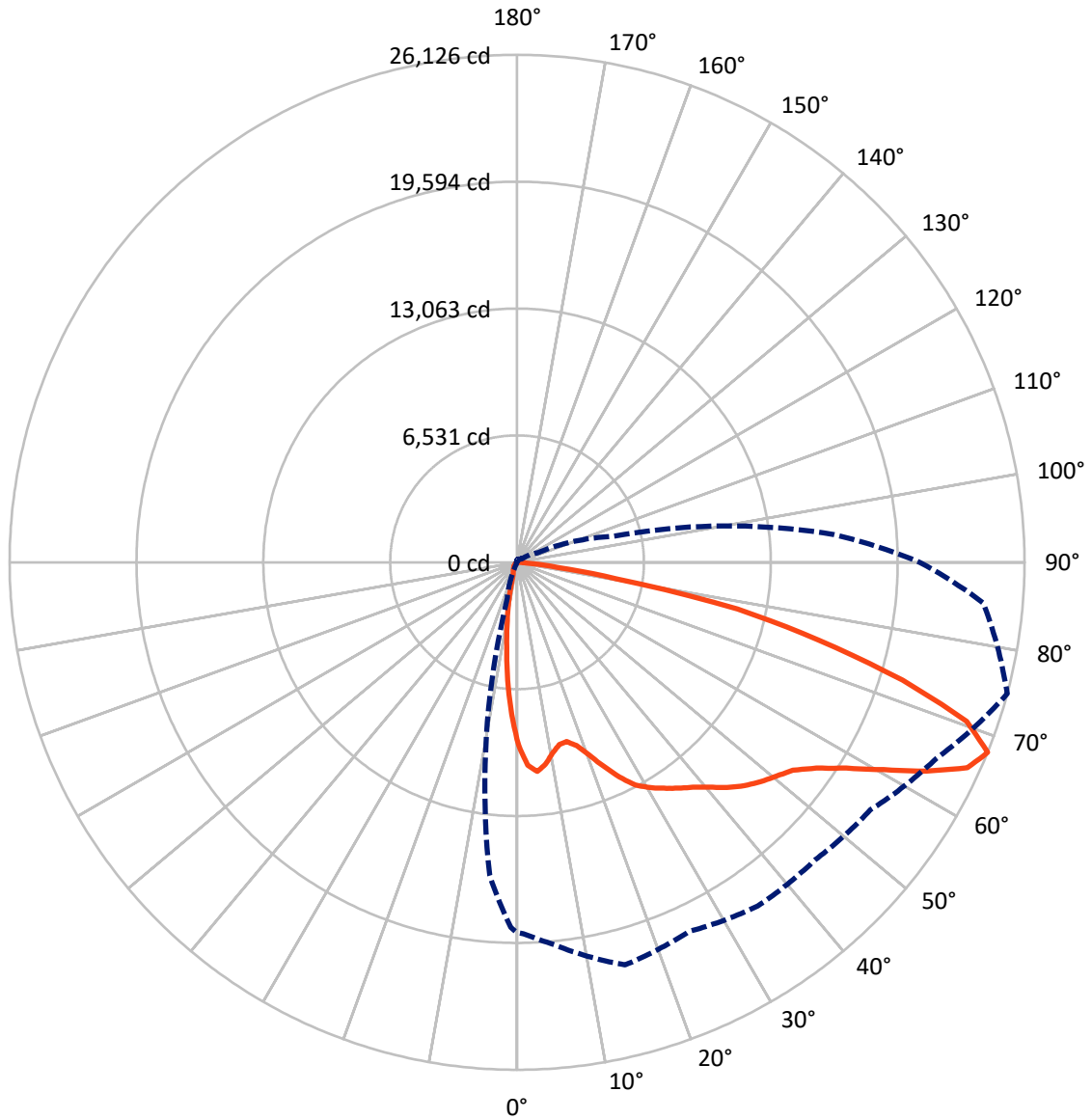
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.6 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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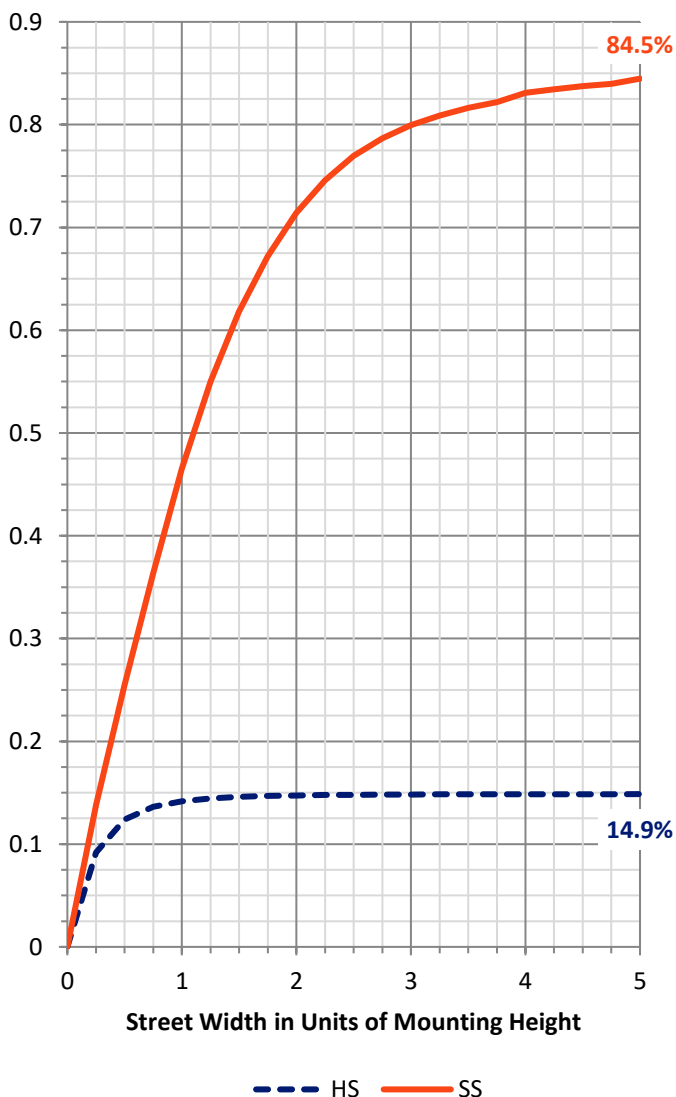
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4220.9	0.0	4220.9
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	23907.1	0.0	23907.1
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	28128.0	0.0	28128.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	715.8	2.5
10°-20°	1409.4	5.0
20°-30°	1993.9	7.1
30°-40°	2931.6	10.4
40°-50°	4213.7	15.0
50°-60°	5931.8	21.1
60°-70°	6927.8	24.6
70°-80°	3534.4	12.6
80°-90°	469.5	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°	28128.0	100.0
0°-180°	28128.0	100.0

**Coefficient of Utilization**

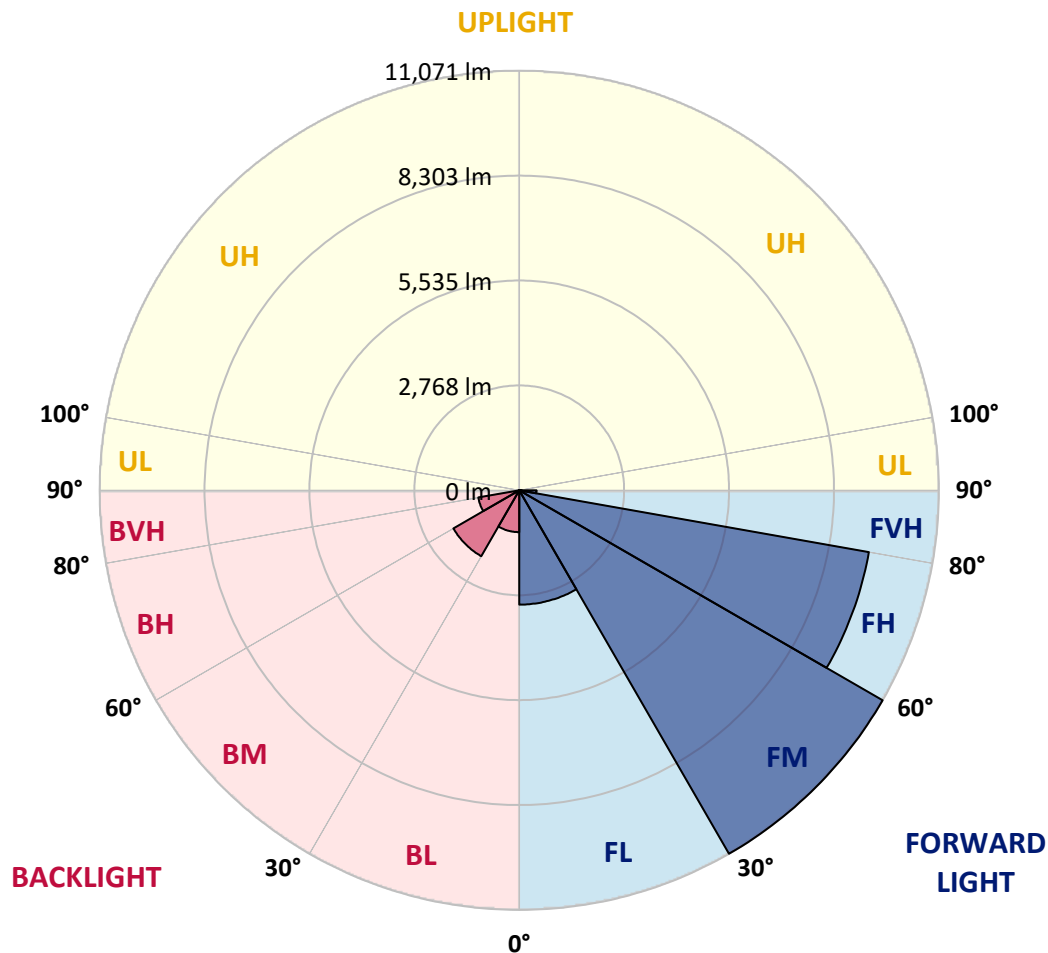


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3015.3	10.7			
FM (30°-60°)	11070.7	39.4			
FH (60°-80°)	9365.8	33.3			G4/12000
FVH (80°-90°)	455.3	1.6			G3/500
BL (0°-30°)	1103.8	3.9	B3/2500		
BM (30°-60°)	2006.5	7.1	B2/2500		
BH (60°-80°)	1096.4	3.9	B3/2500		G3/2500
BVH (80°-90°)	14.2	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-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9436.5	9436.5	9436.5	9436.5	9436.5	9436.5	9436.5	9436.5	9436.5	9436.5	9436.5
2.5°	10229.3	10245.3	10327.9	10519.8	10728.9	10744.9	10886.2	10740.9	10691.6	10457.1	10214.6
5°	10306.6	10367.9	10651.7	11215.3	11704.3	11861.5	11973.5	11688.3	11388.5	10815.6	10204.0
7.5°	9684.3	9786.9	10233.3	11291.2	12165.3	12551.7	12625.0	12178.7	11444.5	10501.1	9581.7
10°	8887.5	9004.7	9543.1	10843.5	12044.1	12706.3	12807.6	12222.6	11167.3	9992.1	8908.8
12.5°	8242.6	8379.8	8930.1	10339.9	11627.0	12359.9	12559.7	12074.7	10927.5	9631.0	8449.1
15°	7945.4	8102.7	8681.0	10014.7	11164.7	11741.6	11906.8	11697.6	10794.2	9573.7	8342.5
17.5°	8116.0	8286.6	8883.5	10042.7	10730.3	10976.8	11110.0	11195.3	10794.2	9918.8	8654.3
20°	8815.5	8999.4	9631.0	10326.5	10370.5	10278.6	10421.1	10721.0	10919.5	10574.4	9403.2
22.5°	9782.9	9998.8	10711.6	10812.9	10194.6	9846.9	9865.5	10335.9	11147.3	11405.8	10442.5
25°	10962.1	11226.0	11950.8	11537.7	10267.9	9589.7	9583.0	10018.7	11369.9	12238.6	11600.4
27.5°	12133.4	12423.8	13060.7	12422.5	10570.4	9543.1	9529.7	9922.8	11587.0	12979.5	12864.9
30°	13115.4	13397.9	13946.8	13063.4	10896.8	9652.3	9588.4	10025.4	11716.3	13460.5	13786.9
32.5°	13914.9	14141.4	14585.1	13504.5	11245.9	9864.2	9725.6	10299.9	11936.2	13866.9	14634.4
35°	14794.3	15032.8	15210.0	13924.2	11637.7	10169.3	9970.8	10735.6	12274.6	14279.9	15563.1
37.5°	15797.6	16034.8	16013.5	14307.9	12134.7	10674.3	10547.7	11425.8	12800.9	14689.0	16599.8
40°	16779.6	17022.1	16848.9	14727.7	12718.3	11507.1	11413.8	12462.5	13505.8	15212.7	17815.0
42.5°	17699.0	17961.5	17591.1	15124.7	13413.8	12557.1	12717.0	13797.6	14387.9	15857.6	18862.3
45°	18439.9	18707.7	18213.4	15511.1	14146.7	13830.9	14311.9	15276.6	15448.5	16402.5	19569.8
47.5°	18978.2	19231.4	18645.1	15897.5	15084.7	15388.5	16226.7	16827.6	16406.5	16875.6	20072.1
50°	19322.0	19519.2	18771.7	16381.2	16315.9	17206.0	18221.4	18514.5	17308.6	17302.0	20682.4
52.5°	19540.5	19629.8	18864.9	16886.2	17600.4	19184.7	20174.7	20266.7	18237.3	17771.0	21504.5
55°	20293.3	20365.3	19525.8	17497.8	18662.4	20918.2	21941.6	21856.3	19288.7	18689.0	22474.6
57.5°	21577.8	21653.8	20891.6	18377.3	19521.8	21989.5	23222.1	23375.3	20521.2	19978.9	23513.9
60°	22222.7	22364.0	22092.1	19491.2	20354.6	22674.4	24094.8	24583.8	22061.5	21679.1	24521.2
62.5°	21637.8	21843.0	22237.4	20726.4	21182.1	23051.5	24366.6	25016.9	23639.1	23660.4	25142.1
65°	20470.5	20634.4	21303.3	21403.3	21661.8	23004.9	23695.1	24412.0	24605.2	25480.6	25108.8
67.5°	19060.8	19122.1	19689.7	21456.6	20966.2	21603.1	21677.7	22208.1	23841.7	26125.5	24100.2
70°	17031.5	17064.8	17560.5	19672.4	18017.5	18157.4	18046.8	18154.7	20497.2	24554.5	21553.8
72.5°	13707.0	13790.9	14495.8	16337.3	13126.0	12722.3	13591.1	13543.1	15785.6	20745.0	16008.1
75°	10092.0	10237.3	11301.9	13159.3	9212.6	8333.2	8967.4	9136.7	11222.0	16046.8	10010.8
77.5°	7066.0	7174.0	8205.3	9673.6	6667.6	5958.7	5729.6	5930.8	7407.1	11608.4	5043.4
80°	4070.7	4110.6	4768.9	5585.7	4493.0	5140.6	4656.9	4795.5	4438.4	5164.6	2169.2
82.5°	2663.6	2670.2	2927.4	3324.5	2798.2	3251.2	2406.4	3076.6	2730.2	2074.6	706.2
85°	1439.1	1447.0	1697.6	2359.8	1584.3	895.4	526.3	1080.6	1688.2	475.7	193.2
87.5°	158.6	145.2	511.7	858.1	439.7	81.3	28.0	121.3	270.5	30.6	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°	9436.5	9436.5	9436.5	9436.5	9436.5	9436.5	9436.5	9436.5	9436.5	9436.5	9436.5
2.5°	10090.7	9980.1	9704.3	9412.5	9178.0	8958.1	8736.9	8466.4	8257.2	8214.6	8145.3
5°	9874.8	9524.4	8946.1	8365.2	7897.5	7307.2	6932.8	6641.0	6355.8	6338.5	6281.2
7.5°	9120.7	8659.6	7845.5	7042.0	6383.8	5821.5	5253.9	4874.1	4575.7	4470.4	4407.8
10°	8395.8	7877.5	6860.8	5944.1	5356.5	4859.5	4459.7	4062.7	3702.9	3455.1	3343.1
12.5°	7889.5	7316.5	6195.9	5405.8	4984.7	4513.0	4025.4	3529.7	3115.3	2816.8	2634.3
15°	7693.6	7082.0	5973.4	5192.6	4672.9	4076.0	3452.4	2886.1	2426.4	2155.9	1992.0
17.5°	7926.8	7215.3	5956.1	4932.8	4206.6	3464.4	2775.5	2106.6	1673.6	1468.4	1363.1
20°	8518.4	7639.0	5949.4	4614.3	3652.3	2739.5	1880.1	1385.8	1123.3	1008.7	959.4
22.5°	9355.2	8180.0	6002.7	4299.8	3075.3	1957.4	1297.8	1018.0	883.4	822.1	794.1
25°	10431.8	8939.5	6153.3	4014.7	2533.0	1460.4	1011.3	852.8	758.2	710.2	690.2
27.5°	11579.1	9813.5	6387.8	3766.9	2092.0	1164.6	866.1	730.2	662.2	628.9	610.3
30°	12525.1	10826.2	6625.0	3491.0	1772.2	1015.3	792.8	666.2	587.6	566.3	549.0
32.5°	13352.6	11592.4	6792.9	3241.9	1563.0	902.1	716.9	595.6	542.3	501.0	482.3
35°	14209.3	12230.6	6787.5	3067.3	1419.1	816.8	652.9	533.0	469.0	421.1	406.4
37.5°	15136.7	12951.5	6671.6	2918.1	1356.4	748.8	616.9	499.7	435.7	387.7	369.1
40°	16222.7	13708.3	6553.0	2778.2	1339.1	694.2	591.6	473.0	405.1	358.4	339.8
42.5°	17280.6	14390.5	6449.1	2674.2	1264.5	692.9	569.0	453.0	381.1	335.8	314.5
45°	18126.7	15026.1	6429.1	2611.6	1185.9	716.9	557.0	439.7	362.4	317.1	297.1
47.5°	18830.3	15716.3	6557.0	2567.6	1111.3	654.2	586.3	430.4	345.1	301.1	278.5
50°	19667.1	16563.8	6858.2	2495.7	1032.7	588.9	671.6	433.0	330.4	285.1	261.2
52.5°	20834.3	17736.3	7300.5	2374.4	924.7	529.0	660.9	435.7	314.5	267.8	243.8
55°	22142.8	19200.7	7776.2	2173.2	774.2	450.4	566.3	417.1	283.8	249.2	226.5
57.5°	23517.9	20529.2	8058.7	1933.4	615.6	389.1	453.0	379.8	250.5	223.9	209.2
60°	23733.7	21034.2	7929.5	1638.9	489.0	338.4	335.8	386.4	223.9	197.2	186.5
62.5°	23196.7	20399.9	7304.5	1376.4	409.1	297.1	275.8	337.1	202.5	175.9	165.2
65°	22164.1	18685.0	6291.9	1240.5	379.8	254.5	229.2	237.2	177.2	153.2	143.9
67.5°	20727.7	16395.9	5165.9	1163.2	375.8	218.5	195.9	179.9	153.2	133.2	125.3
70°	17791.0	13659.0	4121.3	1120.6	365.1	183.9	165.2	146.6	127.9	113.3	106.6
72.5°	13094.1	9679.0	3205.9	1074.0	367.8	146.6	143.9	121.3	102.6	87.9	85.3
75°	7565.7	5529.7	2102.6	870.1	350.4	113.3	119.9	85.3	72.0	61.3	61.3
77.5°	4032.0	3372.4	800.8	362.4	127.9	72.0	68.0	50.6	45.3	37.3	36.0
80°	1757.5	1484.4	241.2	101.3	70.6	38.6	25.3	22.7	20.0	16.0	14.7
82.5°	622.3	537.0	78.6	49.3	30.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	141.2	101.3	0.0	12.0	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





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	9436.5	9436.5	9436.5	9436.5	9436.5	9436.5	9436.5	9436.5	9436.5	9436.5	9436.5
2.5°	8004.1	7974.8	7801.5	7808.2	7838.8	7882.8	7778.9	7826.9	7956.1	8080.0	8126.7
5°	6189.3	6195.9	6090.7	6156.0	6214.6	6254.6	6086.7	6089.3	6191.9	6331.8	6405.1
7.5°	4361.1	4350.5	4355.8	4511.7	4622.3	4542.3	4605.0	4387.8	4401.1	4501.0	4426.4
10°	3241.9	3095.3	3012.7	3129.9	3251.2	3207.2	3099.3	3028.7	3078.0	3188.6	3180.6
12.5°	2547.7	2337.1	2213.2	2129.3	2229.2	2146.6	2143.9	2082.6	2016.0	2028.0	2205.2
15°	1916.1	1762.8	1616.3	1481.7	1479.0	1451.0	1308.5	1148.6	1135.3	1143.2	1235.2
17.5°	1317.8	1265.8	1205.9	1090.0	1059.3	942.0	803.5	739.5	707.5	722.2	752.8
20°	926.1	906.1	912.7	850.1	806.1	694.2	612.9	587.6	582.3	596.9	611.6
22.5°	767.5	731.5	727.5	699.5	655.6	574.3	530.3	515.7	509.0	522.3	533.0
25°	671.6	635.6	620.9	603.6	557.0	501.0	474.4	461.0	454.4	462.4	469.0
27.5°	591.6	558.3	545.0	533.0	487.7	447.7	426.4	414.4	409.1	411.7	418.4
30°	531.7	502.3	485.0	470.4	431.7	403.7	385.1	373.1	367.8	367.8	374.4
32.5°	469.0	453.0	437.0	418.4	382.4	363.8	345.1	331.8	326.5	327.8	333.1
35°	390.4	385.1	389.1	371.8	341.1	325.1	306.5	291.8	287.8	289.1	294.5
37.5°	346.4	322.5	337.1	327.8	310.5	289.1	265.2	251.8	245.2	249.2	251.8
40°	318.5	289.1	278.5	287.8	285.1	250.5	229.2	215.9	210.5	211.9	214.5
42.5°	294.5	259.8	235.8	234.5	250.5	218.5	195.9	183.9	177.2	177.2	179.9
45°	271.8	234.5	205.2	182.5	210.5	185.2	163.9	153.2	145.2	145.2	146.6
47.5°	254.5	213.2	178.5	149.2	158.6	151.9	134.6	123.9	115.9	115.9	117.3
50°	238.5	191.9	154.6	125.3	118.6	125.3	109.3	97.3	91.9	90.6	93.3
52.5°	221.2	170.6	131.9	106.6	93.3	94.6	85.3	77.3	70.6	70.6	73.3
55°	203.9	153.2	114.6	90.6	77.3	70.6	68.0	62.6	57.3	57.3	60.0
57.5°	186.5	134.6	97.3	74.6	61.3	56.0	56.0	52.0	48.0	48.0	50.6
60°	170.6	115.9	79.9	61.3	48.0	46.6	48.0	44.0	41.3	41.3	44.0
62.5°	151.9	98.6	65.3	50.6	38.6	37.3	41.3	38.6	36.0	36.0	38.6
65°	129.2	83.9	52.0	38.6	29.3	29.3	34.6	32.0	29.3	29.3	32.0
67.5°	109.3	70.6	40.0	28.0	21.3	22.7	29.3	26.6	25.3	25.3	28.0
70°	90.6	54.6	28.0	17.3	12.0	17.3	22.7	22.7	22.7	22.7	25.3
72.5°	68.0	37.3	16.0	6.7	5.3	12.0	18.7	21.3	20.0	20.0	24.0
75°	44.0	21.3	5.3	0.0	0.0	6.7	14.7	17.3	17.3	16.0	20.0
77.5°	25.3	6.7	0.0	0.0	0.0	0.0	9.3	8.0	6.7	5.3	9.3
80°	6.7	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: P324113  
 CATALOG NUMBER: GAN-SA9A-730-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9436.5	9436.5	9436.5	9436.5	9436.5	9436.5	9436.5	9436.5	9436.5	9436.5
2.5°	8314.5	8471.8	8693.0	8927.5	9288.6	9575.0	9856.2	10097.4	10190.6	10229.3
5°	6581.0	6811.5	7135.3	7551.0	8202.6	8788.9	9383.2	9981.4	10241.3	10306.6
7.5°	4722.2	5016.7	5428.4	5949.4	6712.9	7472.4	8302.5	9180.6	9583.0	9684.3
10°	3495.0	3854.8	4326.5	4875.5	5604.3	6385.1	7289.9	8293.2	8752.9	8887.5
12.5°	2479.7	2966.1	3597.6	4265.2	4896.8	5593.7	6509.1	7615.0	8097.3	8242.6
15°	1456.4	1926.7	2674.2	3568.3	4377.1	5083.3	6013.4	7267.2	7798.9	7945.4
17.5°	835.5	1070.0	1634.9	2631.6	3729.5	4707.6	5857.5	7353.8	7980.1	8116.0
20°	638.2	712.9	942.0	1694.9	2972.7	4338.5	5857.5	7844.2	8615.7	8815.5
22.5°	558.3	612.9	706.2	1011.3	2187.9	3942.7	5925.4	8553.0	9561.7	9782.9
25°	495.7	545.0	624.9	760.8	1492.4	3472.4	6086.7	9423.1	10675.6	10962.1
27.5°	443.7	490.3	562.3	666.2	1020.7	2904.8	6303.9	10443.8	11904.2	12133.4
30°	397.1	441.0	506.3	579.6	787.5	2261.2	6489.1	11405.8	12868.9	13115.4
32.5°	353.1	393.1	451.7	506.3	644.9	1672.2	6509.1	12168.0	13669.7	13914.9
35°	311.8	347.8	401.1	443.7	534.3	1320.5	6198.6	12828.9	14470.5	14794.3
37.5°	271.8	306.5	353.1	385.1	470.4	1076.6	5724.2	13565.7	15497.8	15797.6
40°	234.5	265.2	313.1	334.4	445.0	827.5	5208.6	14338.6	16505.1	16779.6
42.5°	199.9	229.2	275.8	317.1	390.4	618.3	4651.6	15063.4	17411.2	17699.0
45°	166.6	197.2	243.8	335.8	323.8	462.4	4056.0	15544.4	18126.7	18439.9
47.5°	134.6	169.2	233.2	319.8	258.5	339.8	3584.3	16000.1	18669.1	18978.2
50°	107.9	142.6	262.5	285.1	211.9	259.8	3387.1	16407.9	19024.8	19322.0
52.5°	87.9	119.9	247.8	218.5	177.2	214.5	3493.7	17068.8	19353.9	19540.5
55°	73.3	94.6	149.2	151.9	150.6	182.5	3625.6	18017.5	20205.4	20293.3
57.5°	64.0	76.0	103.9	117.3	126.6	162.6	3628.3	19379.3	21523.2	21577.8
60°	54.6	66.6	86.6	94.6	109.3	145.2	3496.4	19854.9	22041.5	22222.7
62.5°	48.0	58.6	72.0	78.6	91.9	130.6	3187.2	19166.1	21330.0	21637.8
65°	42.6	53.3	60.0	66.6	81.3	117.3	2678.2	17788.3	20149.4	20470.5
67.5°	37.3	46.6	53.3	60.0	73.3	103.9	1972.0	16188.0	18794.3	19060.8
70°	33.3	41.3	48.0	53.3	64.0	87.9	1196.5	13736.3	16920.9	17031.5
72.5°	32.0	37.3	44.0	48.0	56.0	77.3	606.3	10094.7	13527.1	13707.0
75°	28.0	33.3	40.0	42.6	49.3	66.6	246.5	6630.3	9802.9	10092.0
77.5°	22.7	30.6	36.0	38.6	42.6	54.6	125.3	4237.2	6879.5	7066.0
80°	8.0	22.7	30.6	32.0	36.0	40.0	82.6	2319.8	3990.7	4070.7
82.5°	0.0	14.7	24.0	22.7	25.3	30.6	53.3	1103.3	2634.3	2663.6
85°	0.0	6.7	18.7	14.7	10.7	21.3	18.7	241.2	1381.8	1439.1
87.5°	0.0	0.0	1.3	6.7	5.3	8.0	2.7	1.3	125.3	158.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)