

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: P324114

Luminaire Tested: **GAN-SA0A-730-U-SLL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324114  
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-SA0A-730-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 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: 31143 lumens  
Efficiency: N/A  
Efficacy: 96.4 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

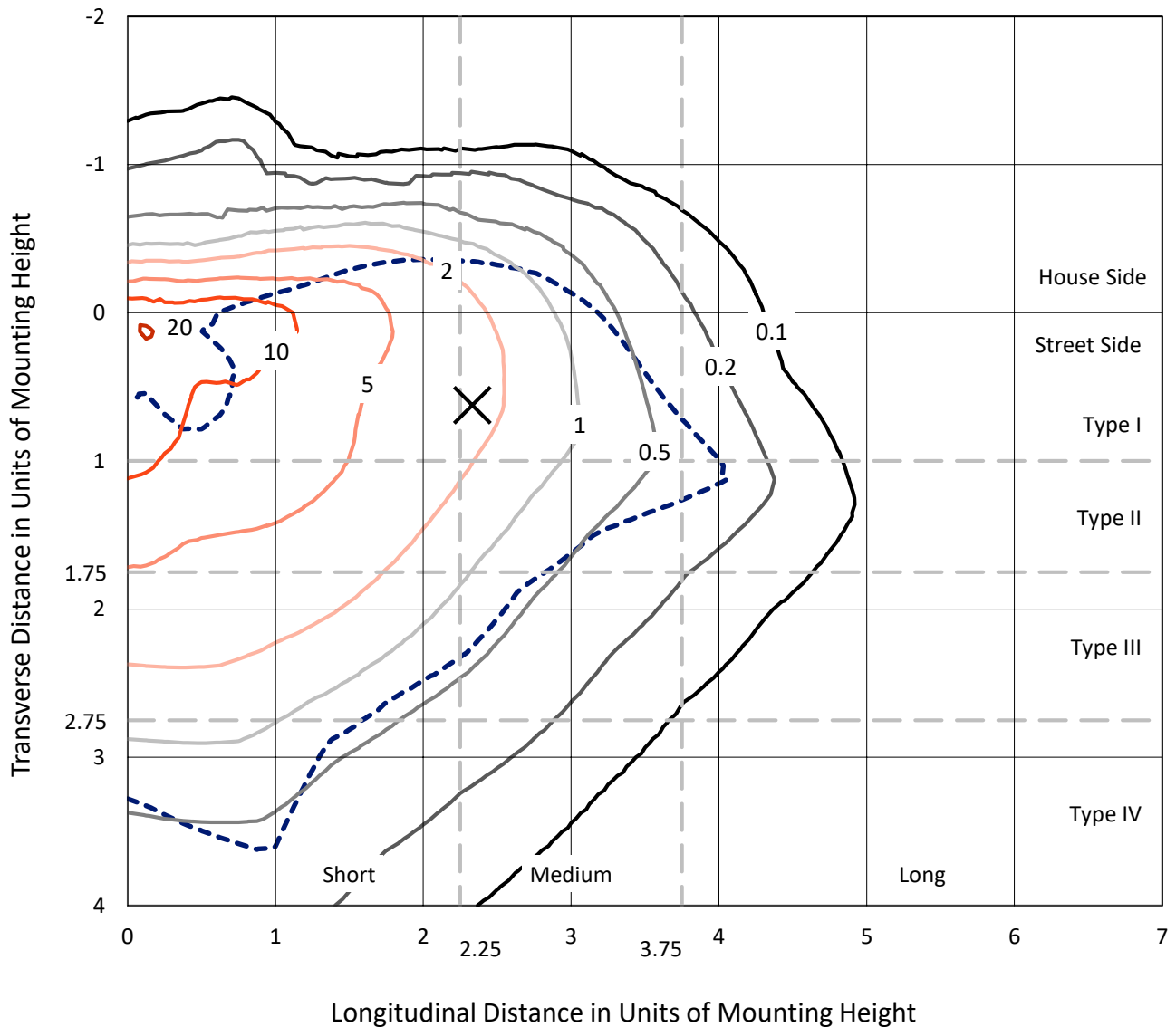
Input Watts (W): 323  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

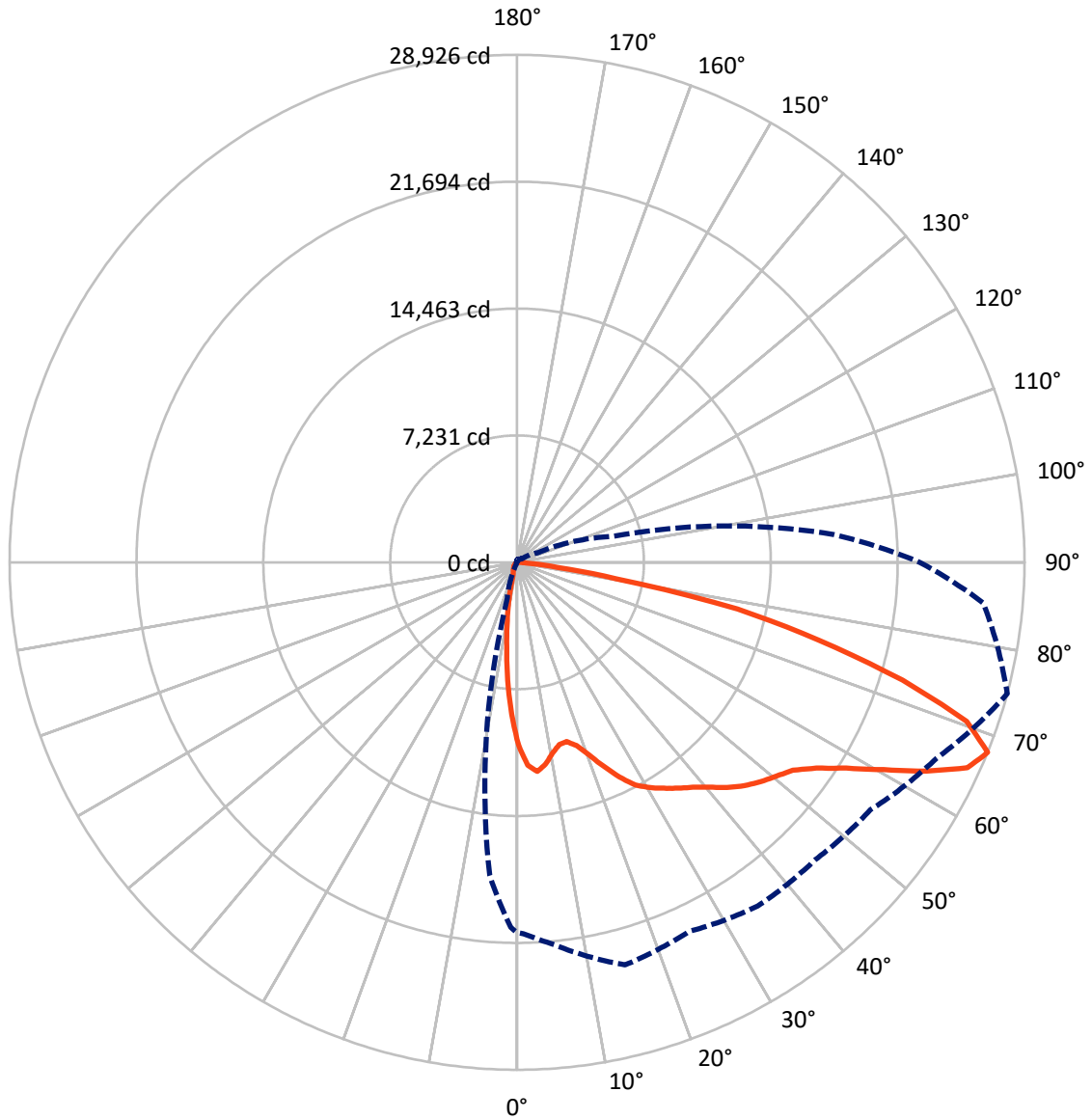
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.7 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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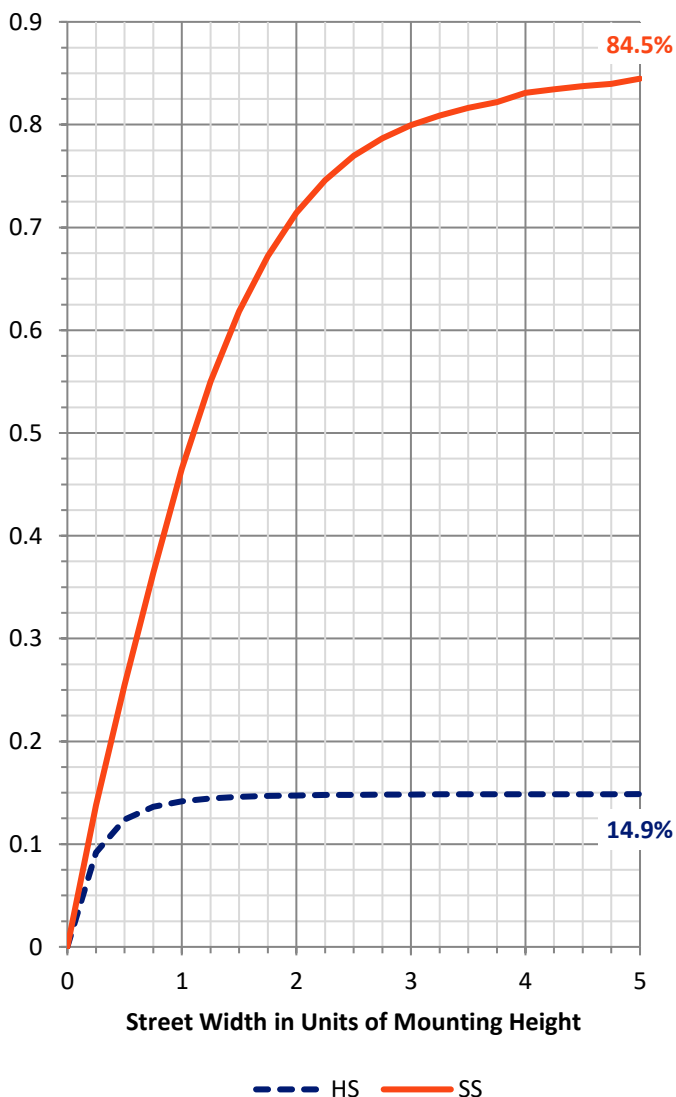
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4673.3	0.0	4673.3
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	26469.7	0.0	26469.7
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	31143.0	0.0	31143.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	792.5	2.5
10°-20°	1560.5	5.0
20°-30°	2207.6	7.1
30°-40°	3245.9	10.4
40°-50°	4665.4	15.0
50°-60°	6567.6	21.1
60°-70°	7670.4	24.6
70°-80°	3913.2	12.6
80°-90°	519.8	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°	31143.0	100.0
0°-180°	31143.0	100.0

**Coefficient of Utilization**

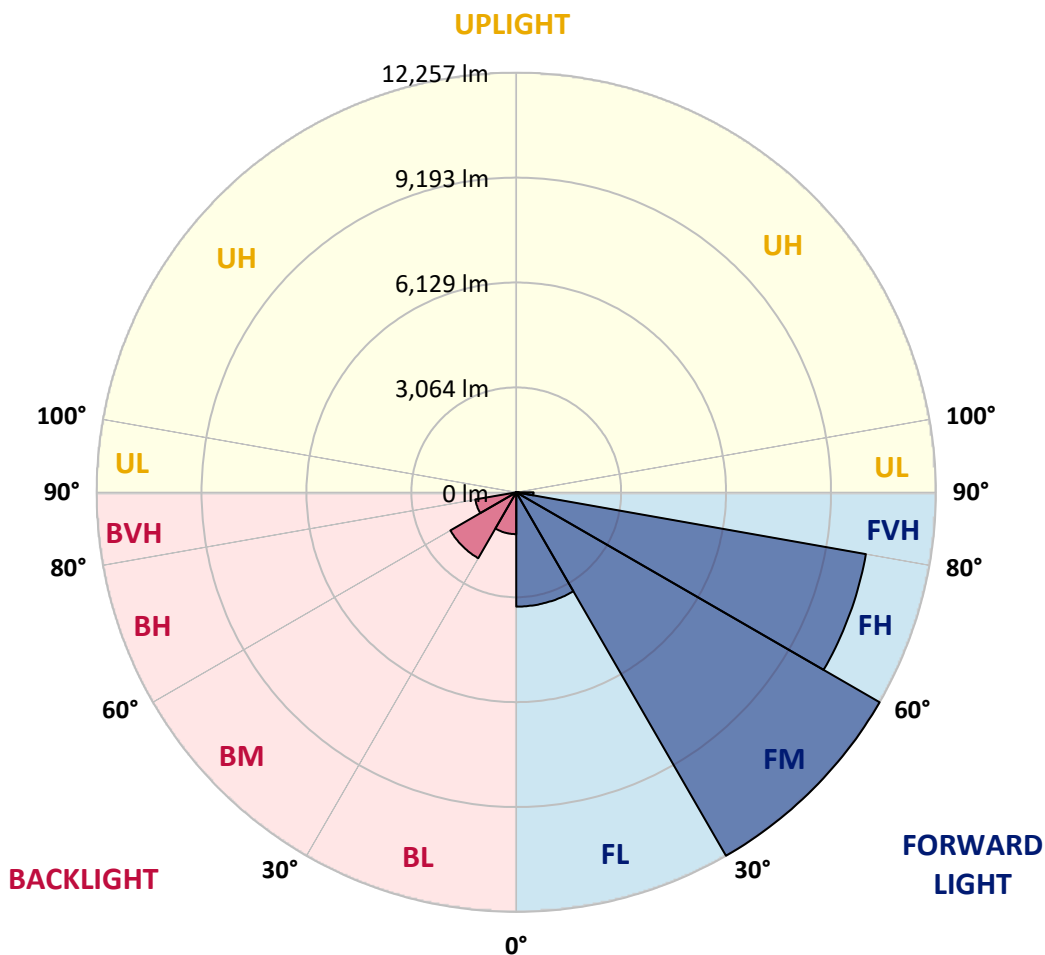


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3338.5	10.7			
FM (30°-60°)	12257.3	39.4			
FH (60°-80°)	10369.7	33.3			G4/12000
FVH (80°-90°)	504.1	1.6			G4/750
BL (0°-30°)	1222.1	3.9	B3/2500		
BM (30°-60°)	2221.6	7.1	B2/2500		
BH (60°-80°)	1213.9	3.9	B3/2500		G3/2500
BVH (80°-90°)	15.8	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°	10447.9	10447.9	10447.9	10447.9	10447.9	10447.9	10447.9	10447.9	10447.9	10447.9	10447.9
2.5°	11325.7	11343.4	11434.9	11647.3	11879.0	11896.7	12053.1	11892.2	11837.7	11578.0	11309.5
5°	11411.3	11479.2	11793.4	12417.4	12958.9	13133.0	13256.9	12941.2	12609.2	11974.9	11297.7
7.5°	10722.3	10835.9	11330.2	12501.5	13469.3	13897.2	13978.3	13484.1	12671.2	11626.7	10608.7
10°	9840.1	9970.0	10566.0	12005.8	13335.1	14068.3	14180.4	13532.8	12364.3	11063.1	9863.7
12.5°	9126.1	9278.0	9887.3	11448.2	12873.3	13684.7	13906.0	13369.0	12098.8	10663.3	9354.8
15°	8797.1	8971.2	9611.5	11088.2	12361.4	13000.2	13183.1	12951.5	11951.3	10599.9	9236.7
17.5°	8985.9	9174.8	9835.7	11119.2	11880.4	12153.4	12300.9	12395.3	11951.3	10982.0	9582.0
20°	9760.5	9964.1	10663.3	11433.4	11482.1	11380.3	11538.2	11870.1	12089.9	11707.8	10411.1
22.5°	10831.5	11070.5	11859.8	11971.9	11287.4	10902.3	10923.0	11443.8	12342.2	12628.4	11561.8
25°	12137.1	12429.2	13231.8	12774.5	11368.5	10617.6	10610.2	11092.6	12588.6	13550.5	12843.8
27.5°	13433.9	13755.5	14460.7	13754.0	11703.4	10566.0	10551.2	10986.4	12829.0	14370.7	14243.8
30°	14521.2	14834.0	15441.8	14463.7	12064.9	10686.9	10616.1	11100.0	12972.2	14903.3	15264.7
32.5°	15406.4	15657.2	16148.4	14952.0	12451.4	10921.5	10768.1	11403.9	13215.6	15353.3	16203.0
35°	16380.1	16644.1	16840.3	15416.7	12885.1	11259.3	11039.5	11886.3	13590.3	15810.6	17231.3
37.5°	17490.9	17753.5	17729.9	15841.6	13435.4	11818.5	11678.3	12650.5	14173.0	16263.5	18379.1
40°	18578.2	18846.7	18654.9	16306.3	14081.6	12740.5	12637.3	13798.3	14953.5	16843.3	19724.5
42.5°	19596.2	19886.8	19476.7	16745.9	14851.7	13903.1	14080.1	15276.5	15930.1	17557.3	20884.1
45°	20416.4	20713.0	20165.6	17173.8	15663.1	15313.4	15846.0	16914.1	17104.4	18160.7	21667.5
47.5°	21012.4	21292.7	20643.6	17601.6	16701.7	17038.0	17966.0	18631.3	18165.1	18684.4	22223.6
50°	21393.1	21611.4	20783.8	18137.1	18064.8	19050.3	20174.5	20499.0	19163.9	19156.5	22899.3
52.5°	21635.0	21733.8	20887.0	18696.2	19487.0	21241.1	22337.2	22439.0	20192.2	19675.8	23809.6
55°	22468.5	22548.2	21618.8	19373.4	20662.8	23160.4	24293.5	24199.0	21356.2	20692.3	24883.6
57.5°	23890.7	23974.8	23130.9	20347.1	21614.3	24346.6	25711.2	25880.9	22720.8	22120.4	26034.3
60°	24604.7	24761.1	24460.2	21580.4	22536.4	25104.9	26677.5	27218.9	24426.2	24002.8	27149.6
62.5°	23957.1	24184.3	24621.0	22948.0	23452.6	25522.4	26978.5	27698.4	26173.0	26196.6	27837.1
65°	22664.8	22846.2	23586.8	23697.4	23983.7	25470.7	26234.9	27028.6	27242.5	28211.8	27800.2
67.5°	21103.9	21171.8	21800.2	23756.5	23213.6	23918.7	24001.4	24588.5	26397.2	28925.8	26683.4
70°	18857.0	18893.9	19442.7	21781.1	19948.8	20103.7	19981.2	20100.7	22694.3	27186.5	23864.2
72.5°	15176.2	15269.2	16049.6	18088.4	14533.0	14086.0	15047.9	14994.8	17477.7	22968.7	17724.0
75°	11173.8	11334.6	12513.3	14569.9	10200.1	9226.4	9928.6	10116.0	12424.8	17766.8	11083.8
77.5°	7823.4	7942.9	9084.8	10710.5	7382.3	6597.5	6343.7	6566.5	8201.1	12852.7	5583.9
80°	4507.0	4551.2	5280.0	6184.4	4974.6	5691.6	5156.1	5309.5	4914.2	5718.2	2401.8
82.5°	2949.1	2956.5	3241.2	3680.8	3098.1	3599.7	2664.4	3406.4	3022.9	2297.0	781.9
85°	1593.3	1602.2	1879.5	2612.7	1754.1	991.4	582.7	1196.5	1869.2	526.7	213.9
87.5°	175.6	160.8	566.5	950.1	486.8	90.0	31.0	134.3	299.5	33.9	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°	10447.9	10447.9	10447.9	10447.9	10447.9	10447.9	10447.9	10447.9	10447.9	10447.9	10447.9
2.5°	11172.3	11049.9	10744.5	10421.4	10161.7	9918.3	9673.4	9373.9	9142.3	9095.1	9018.4
5°	10933.3	10545.3	9905.0	9261.8	8744.0	8090.4	7675.9	7352.8	7037.1	7017.9	6954.5
7.5°	10098.3	9587.9	8686.5	7796.9	7068.1	6445.5	5817.0	5396.6	5066.1	4949.6	4880.2
10°	9295.7	8721.9	7596.2	6581.2	5930.6	5380.4	4937.8	4498.1	4099.8	3825.4	3701.5
12.5°	8735.1	8100.8	6860.1	5985.2	5519.0	4996.8	4456.8	3908.0	3449.2	3118.7	2916.6
15°	8518.3	7841.1	6613.7	5749.2	5173.8	4512.9	3822.5	3195.5	2686.5	2387.0	2205.5
17.5°	8776.4	7988.6	6594.5	5461.5	4657.5	3835.7	3073.0	2332.4	1853.0	1625.8	1509.2
20°	9431.5	8457.8	6587.1	5108.9	4043.7	3033.2	2081.6	1534.3	1243.7	1116.8	1062.2
22.5°	10358.0	9056.8	6646.1	4760.7	3404.9	2167.2	1436.9	1127.1	978.1	910.2	879.3
25°	11550.0	9897.7	6812.9	4445.0	2804.5	1616.9	1119.7	944.2	839.4	786.3	764.2
27.5°	12820.2	10865.4	7072.5	4170.6	2316.2	1289.4	958.9	808.5	733.2	696.3	675.7
30°	13867.6	11986.7	7335.1	3865.2	1962.1	1124.2	877.8	737.6	650.6	627.0	607.8
32.5°	14783.8	12834.9	7521.0	3589.4	1730.5	998.8	793.7	659.5	600.4	554.7	534.1
35°	15732.4	13541.6	7515.1	3396.1	1571.2	904.3	722.9	590.1	519.3	466.2	450.0
37.5°	16759.2	14339.7	7386.7	3230.9	1501.8	829.1	683.1	553.2	482.4	429.3	408.7
40°	17961.6	15177.7	7255.4	3076.0	1482.7	768.6	655.0	523.7	448.5	396.9	376.2
42.5°	19132.9	15933.0	7140.4	2960.9	1400.0	767.1	629.9	501.6	421.9	371.8	348.2
45°	20069.7	16636.7	7118.2	2891.6	1313.0	793.7	616.7	486.8	401.3	351.1	329.0
47.5°	20848.7	17400.9	7259.9	2842.9	1230.4	724.4	649.1	476.5	382.1	333.4	308.3
50°	21775.2	18339.2	7593.3	2763.2	1143.3	652.1	743.5	479.5	365.9	315.7	289.2
52.5°	23067.5	19637.5	8083.1	2629.0	1023.8	585.7	731.7	482.4	348.2	296.5	270.0
55°	24516.2	21258.8	8609.7	2406.2	857.1	498.6	627.0	461.8	314.2	275.9	250.8
57.5°	26038.7	22729.7	8922.5	2140.6	681.6	430.8	501.6	420.5	277.4	247.8	231.6
60°	26277.7	23288.8	8779.4	1814.6	541.4	374.7	371.8	427.8	247.8	218.3	206.5
62.5°	25683.2	22586.6	8087.5	1524.0	452.9	329.0	305.4	373.2	224.2	194.7	182.9
65°	24539.8	20687.9	6966.3	1373.5	420.5	281.8	253.7	262.6	196.2	169.7	159.3
67.5°	22949.5	18153.3	5719.7	1287.9	416.0	241.9	216.9	199.2	169.7	147.5	138.7
70°	19698.0	15123.1	4563.0	1240.7	404.2	203.6	182.9	162.3	141.6	125.4	118.0
72.5°	14497.6	10716.4	3549.5	1189.1	407.2	162.3	159.3	134.3	113.6	97.4	94.4
75°	8376.6	6122.4	2328.0	963.4	388.0	125.4	132.8	94.4	79.7	67.9	67.9
77.5°	4464.2	3733.9	886.6	401.3	141.6	79.7	75.2	56.1	50.2	41.3	39.8
80°	1945.9	1643.5	267.0	112.1	78.2	42.8	28.0	25.1	22.1	17.7	16.2
82.5°	689.0	594.5	87.0	54.6	33.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	156.4	112.1	0.0	13.3	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





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	10447.9	10447.9	10447.9	10447.9	10447.9	10447.9	10447.9	10447.9	10447.9	10447.9	10447.9
2.5°	8862.0	8829.6	8637.8	8645.1	8679.1	8727.8	8612.7	8665.8	8808.9	8946.1	8997.7
5°	6852.7	6860.1	6743.5	6815.8	6880.7	6925.0	6739.1	6742.0	6855.6	7010.5	7091.7
7.5°	4828.6	4816.8	4822.7	4995.3	5117.8	5029.2	5098.6	4858.1	4872.9	4983.5	4900.9
10°	3589.4	3427.1	3335.6	3465.4	3599.7	3551.0	3431.5	3353.3	3407.9	3530.3	3521.5
12.5°	2820.7	2587.6	2450.4	2357.5	2468.1	2376.7	2373.7	2305.9	2232.1	2245.4	2441.6
15°	2121.5	1951.8	1789.5	1640.5	1637.6	1606.6	1448.7	1271.7	1256.9	1265.8	1367.6
17.5°	1459.1	1401.5	1335.1	1206.8	1172.8	1043.0	889.6	818.8	783.4	799.6	833.5
20°	1025.3	1003.2	1010.6	941.2	892.5	768.6	678.6	650.6	644.7	660.9	677.2
22.5°	849.8	809.9	805.5	774.5	725.8	635.8	587.2	570.9	563.6	578.3	590.1
25°	743.5	703.7	687.5	668.3	616.7	554.7	525.2	510.4	503.1	511.9	519.3
27.5°	655.0	618.1	603.4	590.1	540.0	495.7	472.1	458.8	452.9	455.9	463.2
30°	588.6	556.2	537.0	520.8	478.0	447.0	426.4	413.1	407.2	407.2	414.6
32.5°	519.3	501.6	483.9	463.2	423.4	402.8	382.1	367.3	361.4	362.9	368.8
35°	432.3	426.4	430.8	411.6	377.7	360.0	339.3	323.1	318.7	320.1	326.0
37.5°	383.6	357.0	373.2	362.9	343.7	320.1	293.6	278.8	271.5	275.9	278.8
40°	352.6	320.1	308.3	318.7	315.7	277.4	253.7	239.0	233.1	234.6	237.5
42.5°	326.0	287.7	261.1	259.6	277.4	241.9	216.9	203.6	196.2	196.2	199.2
45°	301.0	259.6	227.2	202.1	233.1	205.1	181.5	169.7	160.8	160.8	162.3
47.5°	281.8	236.0	197.7	165.2	175.6	168.2	149.0	137.2	128.3	128.3	129.8
50°	264.1	212.4	171.1	138.7	131.3	138.7	121.0	107.7	101.8	100.3	103.3
52.5°	244.9	188.8	146.1	118.0	103.3	104.7	94.4	85.6	78.2	78.2	81.1
55°	225.7	169.7	126.9	100.3	85.6	78.2	75.2	69.3	63.4	63.4	66.4
57.5°	206.5	149.0	107.7	82.6	67.9	62.0	62.0	57.5	53.1	53.1	56.1
60°	188.8	128.3	88.5	67.9	53.1	51.6	53.1	48.7	45.7	45.7	48.7
62.5°	168.2	109.2	72.3	56.1	42.8	41.3	45.7	42.8	39.8	39.8	42.8
65°	143.1	92.9	57.5	42.8	32.5	32.5	38.4	35.4	32.5	32.5	35.4
67.5°	121.0	78.2	44.3	31.0	23.6	25.1	32.5	29.5	28.0	28.0	31.0
70°	100.3	60.5	31.0	19.2	13.3	19.2	25.1	25.1	25.1	25.1	28.0
72.5°	75.2	41.3	17.7	7.4	5.9	13.3	20.7	23.6	22.1	22.1	26.6
75°	48.7	23.6	5.9	0.0	0.0	7.4	16.2	19.2	19.2	17.7	22.1
77.5°	28.0	7.4	0.0	0.0	0.0	0.0	10.3	8.9	7.4	5.9	10.3
80°	7.4	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: P324114  
 CATALOG NUMBER: GAN-SAOA-730-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10447.9	10447.9	10447.9	10447.9	10447.9	10447.9	10447.9	10447.9	10447.9	10447.9
2.5°	9205.8	9379.8	9624.7	9884.4	10284.2	10601.4	10912.7	11179.7	11283.0	11325.7
5°	7286.4	7541.6	7900.1	8360.4	9081.8	9731.0	10388.9	11051.3	11339.0	11411.3
7.5°	5228.4	5554.4	6010.3	6587.1	7432.5	8273.4	9192.5	10164.7	10610.2	10722.3
10°	3869.7	4268.0	4790.2	5398.1	6205.0	7069.5	8071.3	9182.2	9691.1	9840.1
12.5°	2745.5	3284.0	3983.3	4722.4	5421.7	6193.2	7206.8	8431.2	8965.3	9126.1
15°	1612.5	2133.3	2960.9	3950.8	4846.3	5628.2	6657.9	8046.2	8634.8	8797.1
17.5°	925.0	1184.7	1810.2	2913.7	4129.3	5212.2	6485.3	8142.1	8835.5	8985.9
20°	706.7	789.3	1043.0	1876.6	3291.4	4803.5	6485.3	8685.0	9539.2	9760.5
22.5°	618.1	678.6	781.9	1119.7	2422.4	4365.4	6560.6	9469.8	10586.6	10831.5
25°	548.8	603.4	691.9	842.4	1652.3	3844.6	6739.1	10433.2	11820.0	12137.1
27.5°	491.3	542.9	622.6	737.6	1130.1	3216.1	6979.6	11563.3	13180.2	13433.9
30°	439.6	488.3	560.6	641.7	871.9	2503.6	7184.6	12628.4	14248.3	14521.2
32.5°	390.9	435.2	500.1	560.6	714.0	1851.5	7206.8	13472.3	15134.9	15406.4
35°	345.2	385.0	444.1	491.3	591.6	1462.0	6863.0	14204.0	16021.6	16380.1
37.5°	301.0	339.3	390.9	426.4	520.8	1192.0	6337.8	15019.8	17159.0	17490.9
40°	259.6	293.6	346.7	370.3	492.7	916.1	5766.9	15875.5	18274.3	18578.2
42.5°	221.3	253.7	305.4	351.1	432.3	684.5	5150.2	16678.1	19277.5	19596.2
45°	184.4	218.3	270.0	371.8	358.5	511.9	4490.8	17210.6	20069.7	20416.4
47.5°	149.0	187.4	258.2	354.1	286.2	376.2	3968.5	17715.2	20670.2	21012.4
50°	119.5	157.9	290.6	315.7	234.6	287.7	3750.2	18166.6	21064.1	21393.1
52.5°	97.4	132.8	274.4	241.9	196.2	237.5	3868.2	18898.4	21428.5	21635.0
55°	81.1	104.7	165.2	168.2	166.7	202.1	4014.2	19948.8	22371.2	22468.5
57.5°	70.8	84.1	115.1	129.8	140.2	180.0	4017.2	21456.5	23830.2	23890.7
60°	60.5	73.8	95.9	104.7	121.0	160.8	3871.1	21983.2	24404.1	24604.7
62.5°	53.1	64.9	79.7	87.0	101.8	144.6	3528.9	21220.4	23616.3	23957.1
65°	47.2	59.0	66.4	73.8	90.0	129.8	2965.3	19695.0	22309.2	22664.8
67.5°	41.3	51.6	59.0	66.4	81.1	115.1	2183.4	17923.2	20808.8	21103.9
70°	36.9	45.7	53.1	59.0	70.8	97.4	1324.8	15208.7	18734.6	18857.0
72.5°	35.4	41.3	48.7	53.1	62.0	85.6	671.3	11176.7	14977.1	15176.2
75°	31.0	36.9	44.3	47.2	54.6	73.8	272.9	7341.0	10853.6	11173.8
77.5°	25.1	33.9	39.8	42.8	47.2	60.5	138.7	4691.4	7616.9	7823.4
80°	8.9	25.1	33.9	35.4	39.8	44.3	91.5	2568.5	4418.5	4507.0
82.5°	0.0	16.2	26.6	25.1	28.0	33.9	59.0	1221.5	2916.6	2949.1
85°	0.0	7.4	20.7	16.2	11.8	23.6	20.7	267.0	1529.9	1593.3
87.5°	0.0	0.0	1.5	7.4	5.9	8.9	3.0	1.5	138.7	175.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)