

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: P324172

Luminaire Tested: **GAN-SA8C-740-U-SLL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324172  
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-SA8C-740-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 1050mA 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: 42026 lumens  
Efficiency: N/A  
Efficacy: 94.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

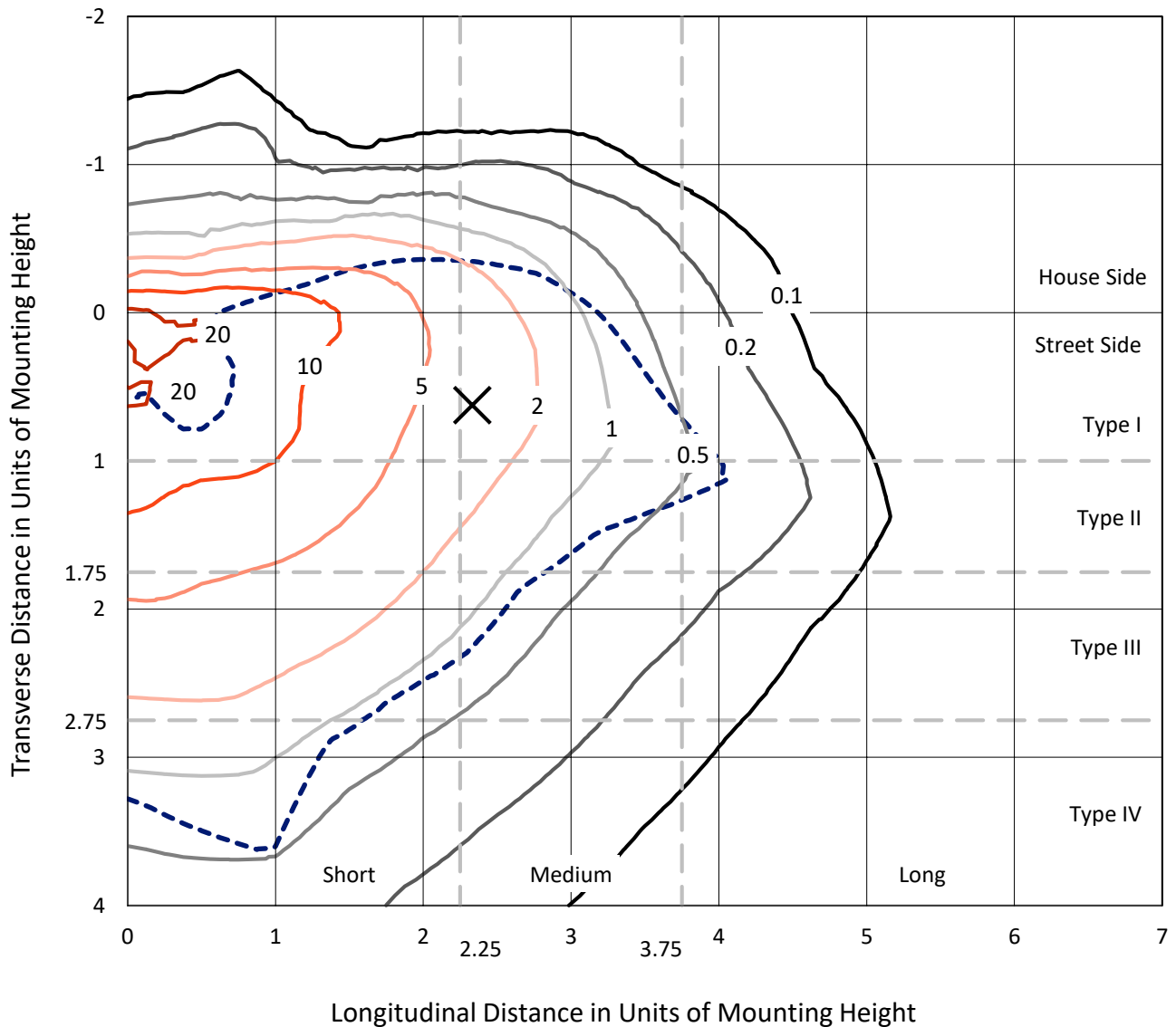
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P324172  
 CATALOG NUMBER: GAN-SA8C-740-U-SLL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

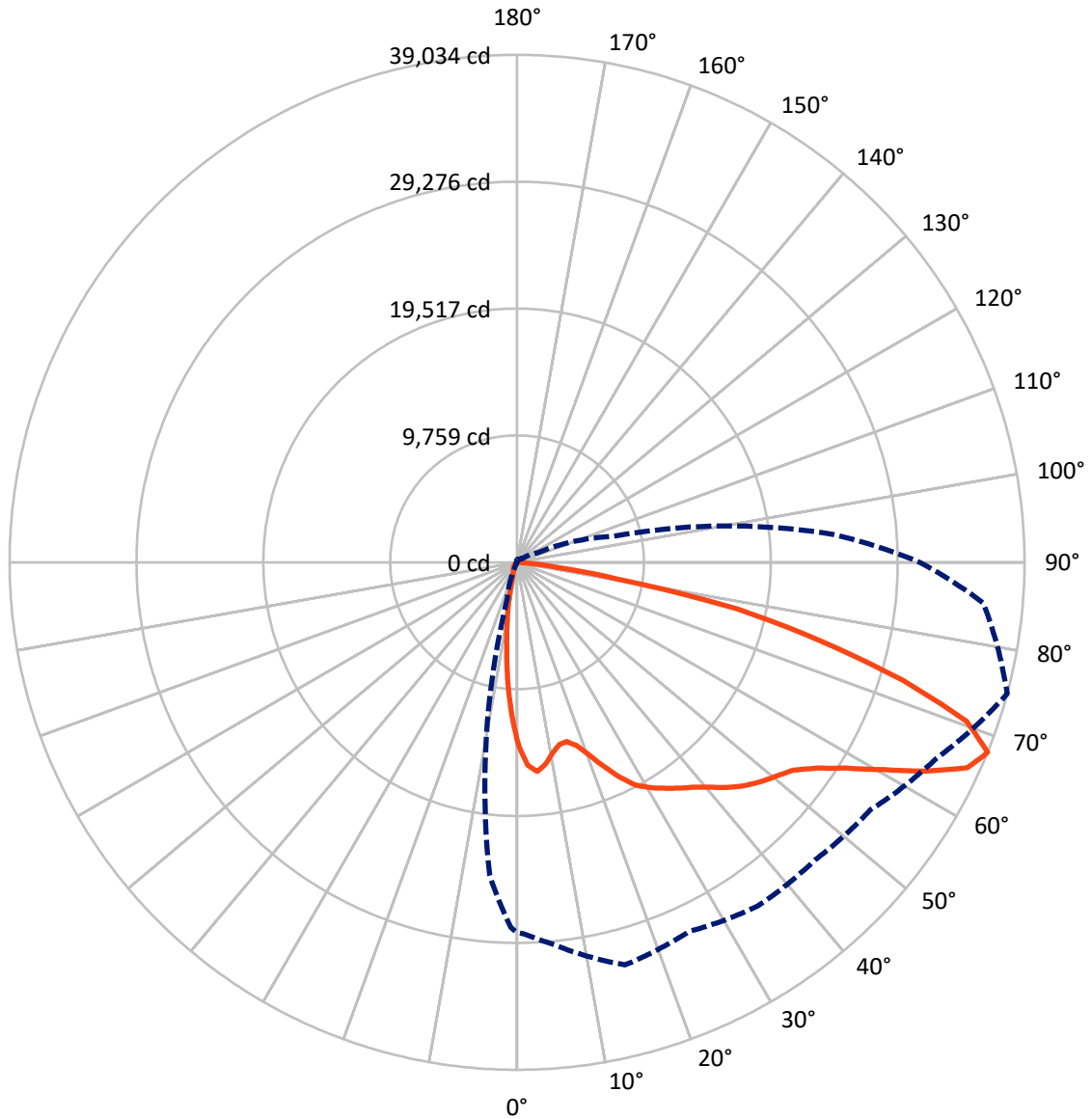
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 29.2 fc  
 Type III - Medium - N/A

REPORT NUMBER: P324172  
CATALOG NUMBER: GAN-SA8C-740-U-SLL-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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 CATALOG NUMBER: GAN-SA8C-740-U-SLL-HSS

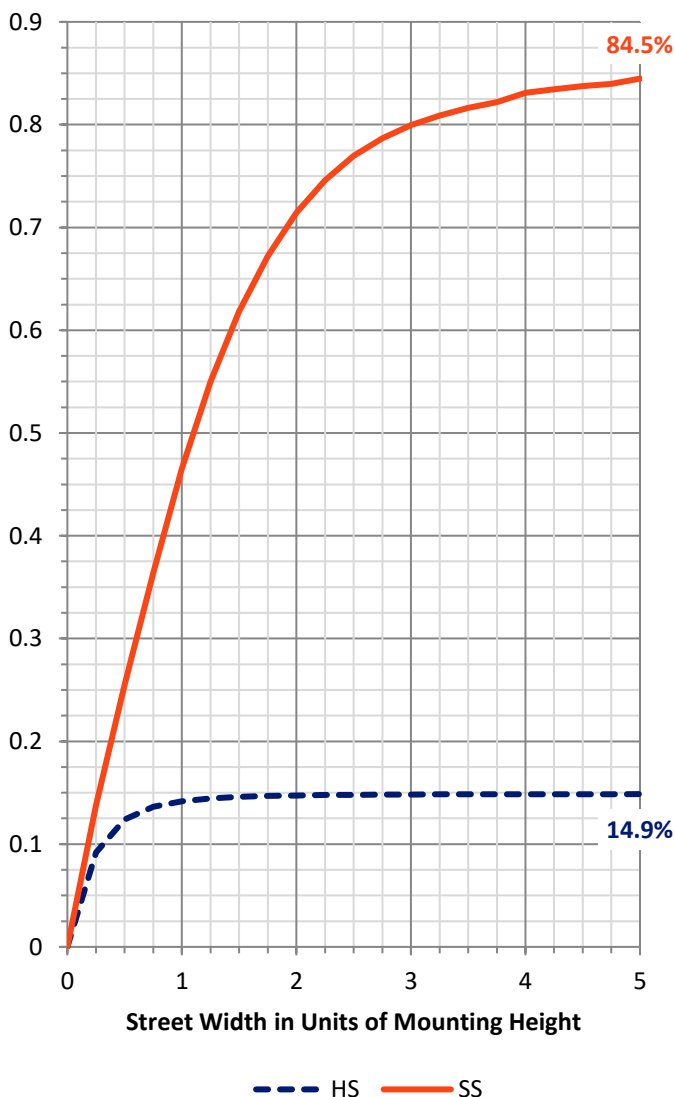
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6306.4	0.0	6306.4
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	35719.6	0.0	35719.6
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	42026.0	0.0	42026.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1069.5	2.5
10°-20°	2105.8	5.0
20°-30°	2979.1	7.1
30°-40°	4380.1	10.4
40°-50°	6295.7	15.0
50°-60°	8862.7	21.1
60°-70°	10350.9	24.6
70°-80°	5280.7	12.6
80°-90°	701.5	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°	42026.0	100.0
0°-180°	42026.0	100.0

**Coefficient of Utilization**

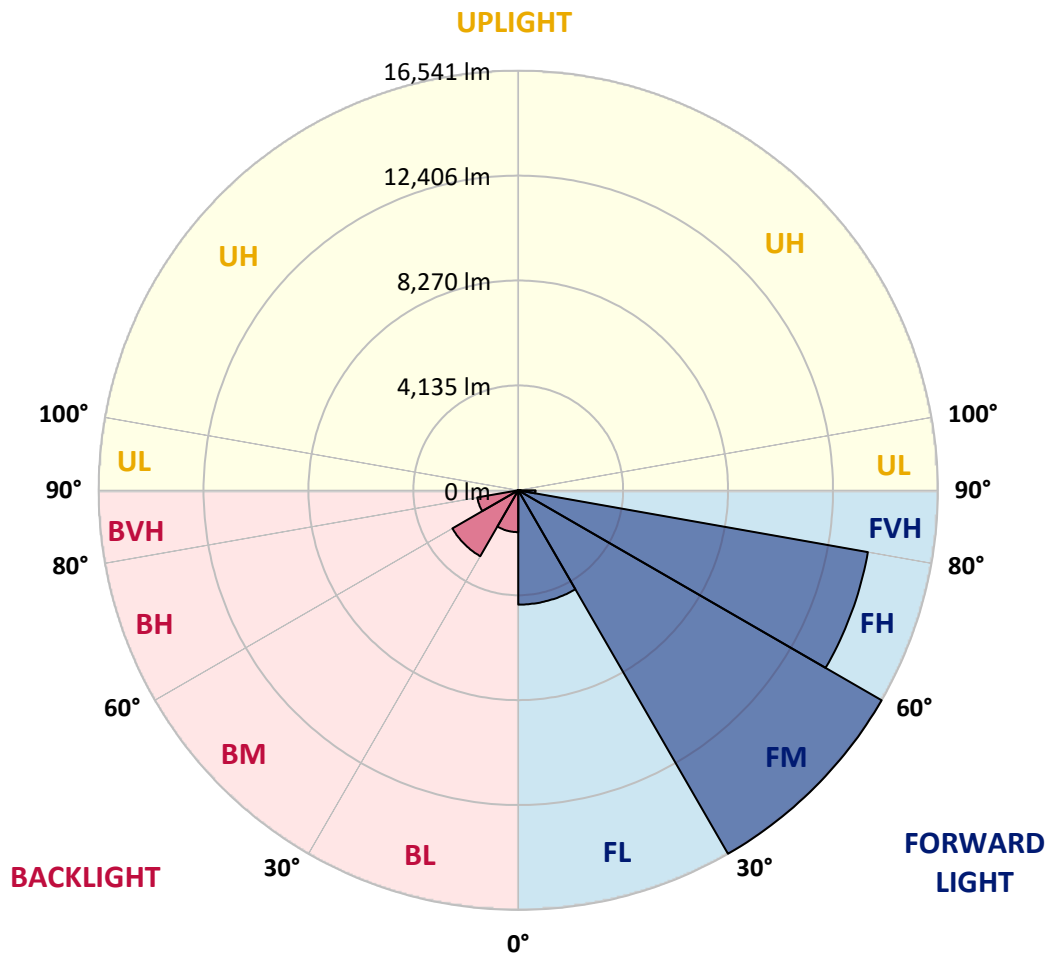


REPORT NUMBER: P324172  
 CATALOG NUMBER: GAN-SA8C-740-U-SLL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4505.2	10.7			
FM (30°-60°)	16540.7	39.4			
FH (60°-80°)	13993.5	33.3			G5
FVH (80°-90°)	680.2	1.6			G4/750
BL (0°-30°)	1649.2	3.9	B3/2500		
BM (30°-60°)	2997.9	7.1	B3/5000		
BH (60°-80°)	1638.1	3.9	B3/2500		G3/2500
BVH (80°-90°)	21.3	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-G5**  
 Type III Medium





REPORT NUMBER: P324172  
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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14099.0	14099.0	14099.0	14099.0	14099.0	14099.0	14099.0	14099.0	14099.0	14099.0	14099.0
2.5°	15283.5	15307.4	15430.9	15717.5	16030.1	16054.0	16265.0	16048.0	15974.4	15624.0	15261.6
5°	15399.0	15490.6	15914.6	16756.8	17487.4	17722.3	17889.5	17463.5	17015.6	16159.5	15245.7
7.5°	14469.3	14622.6	15289.5	16870.2	18176.2	18753.5	18863.0	18196.1	17099.2	15689.7	14316.0
10°	13278.8	13454.0	14258.3	16201.3	17995.0	18984.5	19135.8	18261.8	16685.1	14929.2	13310.6
12.5°	12315.2	12520.3	13342.5	15448.8	17371.9	18466.9	18765.5	18040.8	16326.7	14389.7	12623.8
15°	11871.3	12106.2	12970.2	14963.0	16681.1	17543.1	17790.0	17477.4	16127.7	14304.1	12464.5
17.5°	12126.1	12380.9	13272.8	15004.8	16032.1	16400.4	16599.5	16726.9	16127.7	14819.7	12930.4
20°	13171.3	13446.0	14389.7	15428.9	15494.6	15357.2	15570.2	16018.2	16314.8	15799.2	14049.2
22.5°	14616.6	14939.1	16004.2	16155.5	15231.8	14712.2	14740.0	15442.8	16655.2	17041.4	15602.1
25°	16378.5	16772.7	17855.7	17238.5	15341.3	14327.9	14318.0	14969.0	16987.7	18285.7	17332.1
27.5°	18128.4	18562.4	19514.0	18560.4	15793.2	14258.3	14238.4	14825.7	17312.2	19392.6	19221.4
30°	19595.7	20017.7	20837.9	19518.0	16280.9	14421.5	14326.0	14978.9	17505.3	20111.3	20599.0
32.5°	20790.2	21128.6	21791.5	20177.0	16802.5	14738.1	14531.0	15389.1	17833.8	20718.5	21865.2
35°	22104.1	22460.5	22725.2	20804.1	17387.8	15194.0	14897.3	16040.1	18339.5	21335.6	23252.8
37.5°	23603.2	23957.6	23925.7	21377.5	18130.4	15948.5	15759.4	17071.3	19125.8	21946.8	24801.7
40°	25070.4	25432.8	25173.9	22004.6	19002.4	17192.7	17053.4	18620.2	20179.0	22729.2	26617.3
42.5°	26444.1	26836.3	26282.8	22597.8	20041.6	18761.5	19000.4	20615.0	21496.9	23692.8	28182.1
45°	27551.0	27951.1	27212.6	23175.2	21136.6	20664.7	21383.4	22824.8	23081.6	24507.0	29239.2
47.5°	28355.3	28733.5	27857.6	23752.5	22538.1	22992.0	24244.2	25142.1	24513.0	25213.8	29989.7
50°	28868.9	29163.6	28046.7	24475.2	24377.6	25707.5	27224.5	27662.5	25860.8	25850.8	30901.5
52.5°	29195.4	29328.8	28186.1	25229.7	26296.8	28663.9	30143.0	30280.4	27248.4	26551.6	32129.9
55°	30320.2	30427.7	29173.5	26143.5	27883.5	31253.9	32782.9	32655.5	28819.1	27923.3	33579.2
57.5°	32239.4	32352.9	31214.1	27457.4	29167.5	32854.5	34696.1	34925.0	30660.7	29850.4	35132.0
60°	33202.9	33414.0	33007.8	29121.8	30411.8	33877.8	36000.0	36730.7	32962.0	32390.7	36637.1
62.5°	32329.0	32635.6	33224.8	30967.2	31648.1	34441.2	36406.2	37377.7	35319.2	35351.0	37564.8
65°	30585.0	30829.9	31829.3	31978.6	32364.8	34371.5	35402.8	36473.9	36762.5	38070.5	37515.1
67.5°	28478.7	28570.3	29418.4	32058.2	31325.6	32277.2	32388.7	33181.0	35621.8	39034.1	36008.0
70°	25446.7	25496.5	26237.0	29392.5	26919.9	27128.9	26963.7	27125.0	30624.8	36686.9	32203.5
72.5°	20479.6	20605.0	21658.2	24409.5	19611.6	19008.4	20306.4	20234.7	23585.3	30995.1	23917.7
75°	15078.5	15295.5	16886.2	19661.4	13764.5	12450.6	13398.2	13651.1	16766.7	23975.5	14957.0
77.5°	10557.3	10718.6	12259.5	14453.4	9962.1	8903.0	8560.5	8861.2	11067.0	17344.0	7535.3
80°	6082.0	6141.7	7125.2	8345.5	6713.1	7680.6	6957.9	7165.0	6631.4	7716.4	3241.1
82.5°	3979.7	3989.6	4373.8	4967.1	4180.7	4857.6	3595.4	4596.8	4079.2	3099.7	1055.1
85°	2150.1	2162.0	2536.3	3525.7	2367.1	1337.8	786.4	1614.6	2522.4	710.7	288.7
87.5°	236.9	217.0	764.5	1282.1	657.0	121.4	41.8	181.2	404.1	45.8	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: P324172  
 CATALOG NUMBER: GAN-SA8C-740-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14099.0	14099.0	14099.0	14099.0	14099.0	14099.0	14099.0	14099.0	14099.0	14099.0	14099.0
2.5°	15076.5	14911.3	14499.2	14063.2	13712.8	13384.3	13053.8	12649.7	12337.1	12273.4	12169.9
5°	14754.0	14230.4	13366.4	12498.4	11799.6	10917.7	10358.2	9922.3	9496.2	9470.3	9384.7
7.5°	13627.2	12938.4	11722.0	10521.5	9538.0	8697.9	7849.8	7282.4	6836.5	6679.2	6585.6
10°	12544.2	11769.7	10250.7	8881.1	8003.1	7260.5	6663.3	6070.0	5532.5	5162.2	4995.0
12.5°	11787.7	10931.6	9257.3	8076.8	7447.7	6742.9	6014.3	5273.7	4654.5	4208.6	3935.9
15°	11495.0	10581.2	8924.9	7758.2	6981.8	6089.9	5158.2	4312.1	3625.3	3221.2	2976.3
17.5°	11843.4	10780.3	8899.0	7370.0	6285.0	5176.1	4146.9	3147.5	2500.5	2193.9	2036.6
20°	12727.3	11413.4	8889.0	6894.2	5456.8	4093.1	2809.1	2070.5	1678.3	1507.1	1433.4
22.5°	13977.6	12221.7	8968.7	6424.4	4594.8	2924.5	1939.1	1521.0	1319.9	1228.3	1186.5
25°	15586.1	13356.4	9193.6	5998.3	3784.6	2181.9	1511.0	1274.1	1132.8	1061.1	1031.2
27.5°	17300.2	14662.4	9544.0	5628.1	3125.6	1740.0	1294.0	1091.0	989.4	939.7	911.8
30°	18713.7	16175.4	9898.4	5216.0	2647.8	1517.0	1184.5	995.4	878.0	846.1	820.2
32.5°	19950.0	17320.2	10149.2	4843.7	2335.2	1347.8	1071.1	889.9	810.3	748.5	720.7
35°	21230.1	18273.8	10141.2	4582.9	2120.2	1220.4	975.5	796.3	700.8	629.1	607.2
37.5°	22615.7	19350.8	9968.0	4359.9	2026.7	1118.8	921.8	746.6	651.0	579.3	551.5
40°	24238.3	20481.6	9790.9	4150.9	2000.8	1037.2	883.9	706.7	605.2	535.5	507.7
42.5°	25819.0	21500.9	9635.6	3995.6	1889.3	1035.2	850.1	676.9	569.4	501.7	469.8
45°	27083.1	22450.5	9605.7	3902.0	1771.8	1071.1	832.2	657.0	541.5	473.8	444.0
47.5°	28134.3	23481.8	9796.8	3836.3	1660.3	977.5	876.0	643.0	515.6	449.9	416.1
50°	29384.5	24747.9	10246.8	3728.8	1542.9	879.9	1003.4	647.0	493.7	426.0	390.2
52.5°	31128.5	26499.8	10907.7	3547.6	1381.6	790.4	987.4	651.0	469.8	400.2	364.3
55°	33083.5	28687.8	11618.4	3247.0	1156.7	672.9	846.1	623.1	424.0	372.3	338.4
57.5°	35138.0	30672.6	12040.5	2888.7	919.8	581.3	676.9	567.4	374.3	334.5	312.6
60°	35460.5	31427.1	11847.4	2448.7	730.6	505.7	501.7	577.3	334.5	294.6	278.7
62.5°	34658.2	30479.5	10913.7	2056.5	611.2	444.0	412.1	503.7	302.6	262.8	246.9
65°	33115.3	27917.3	9400.7	1853.5	567.4	380.2	342.4	354.4	264.8	228.9	215.0
67.5°	30969.2	24497.1	7718.4	1738.0	561.4	326.5	292.7	268.8	228.9	199.1	187.1
70°	26581.5	20407.9	6157.6	1674.3	545.5	274.7	246.9	219.0	191.1	169.2	159.3
72.5°	19563.8	14461.3	4789.9	1604.6	549.5	219.0	215.0	181.2	153.3	131.4	127.4
75°	11303.9	8261.9	3141.5	1300.0	523.6	169.2	179.2	127.4	107.5	91.6	91.6
77.5°	6024.2	5038.8	1196.5	541.5	191.1	107.5	101.5	75.7	67.7	55.7	53.8
80°	2625.9	2217.8	360.3	151.3	105.5	57.7	37.8	33.8	29.9	23.9	21.9
82.5°	929.7	802.3	117.5	73.7	45.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	211.0	151.3	0.0	17.9	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: P324172  
 CATALOG NUMBER: GAN-SA8C-740-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	14099.0	14099.0	14099.0	14099.0	14099.0	14099.0	14099.0	14099.0	14099.0	14099.0	14099.0
2.5°	11958.9	11915.1	11656.3	11666.2	11712.0	11777.7	11622.4	11694.1	11887.2	12072.3	12142.0
5°	9247.4	9257.3	9100.0	9197.6	9285.2	9344.9	9094.1	9098.1	9251.4	9460.4	9569.9
7.5°	6516.0	6500.0	6508.0	6740.9	6906.2	6786.7	6880.3	6555.8	6575.7	6725.0	6613.5
10°	4843.7	4624.7	4501.2	4676.4	4857.6	4791.9	4630.7	4525.1	4598.8	4764.0	4752.1
12.5°	3806.5	3491.9	3306.8	3181.3	3330.6	3207.2	3203.2	3111.7	3012.1	3030.0	3294.8
15°	2862.8	2633.9	2414.9	2213.8	2209.8	2168.0	1955.0	1716.1	1696.2	1708.1	1845.5
17.5°	1968.9	1891.3	1801.7	1628.5	1582.7	1407.5	1200.5	1104.9	1057.1	1079.0	1124.8
20°	1383.6	1353.8	1363.7	1270.1	1204.4	1037.2	915.8	878.0	870.0	891.9	913.8
22.5°	1146.7	1093.0	1087.0	1045.2	979.5	858.0	792.3	770.4	760.5	780.4	796.3
25°	1003.4	949.6	927.7	901.8	832.2	748.5	708.7	688.8	678.9	690.8	700.8
27.5°	883.9	834.2	814.2	796.3	728.6	668.9	637.1	619.1	611.2	615.2	625.1
30°	794.3	750.5	724.7	702.8	645.0	603.2	575.3	557.4	549.5	549.5	559.4
32.5°	700.8	676.9	653.0	625.1	571.4	543.5	515.6	495.7	487.8	489.7	497.7
35°	583.3	575.3	581.3	555.4	509.7	485.8	457.9	436.0	430.0	432.0	440.0
37.5°	517.6	481.8	503.7	489.7	463.9	432.0	396.2	376.3	366.3	372.3	376.3
40°	475.8	432.0	416.1	430.0	426.0	374.3	342.4	322.5	314.5	316.5	320.5
42.5°	440.0	388.2	352.4	350.4	374.3	326.5	292.7	274.7	264.8	264.8	268.8
45°	406.1	350.4	306.6	272.7	314.5	276.7	244.9	228.9	217.0	217.0	219.0
47.5°	380.2	318.5	266.8	223.0	236.9	227.0	201.1	185.1	173.2	173.2	175.2
50°	356.4	286.7	230.9	187.1	177.2	187.1	163.2	145.3	137.4	135.4	139.4
52.5°	330.5	254.8	197.1	159.3	139.4	141.3	127.4	115.5	105.5	105.5	109.5
55°	304.6	228.9	171.2	135.4	115.5	105.5	101.5	93.6	85.6	85.6	89.6
57.5°	278.7	201.1	145.3	111.5	91.6	83.6	83.6	77.6	71.7	71.7	75.7
60°	254.8	173.2	119.4	91.6	71.7	69.7	71.7	65.7	61.7	61.7	65.7
62.5°	227.0	147.3	97.6	75.7	57.7	55.7	61.7	57.7	53.8	53.8	57.7
65°	193.1	125.4	77.6	57.7	43.8	43.8	51.8	47.8	43.8	43.8	47.8
67.5°	163.2	105.5	59.7	41.8	31.9	33.8	43.8	39.8	37.8	37.8	41.8
70°	135.4	81.6	41.8	25.9	17.9	25.9	33.8	33.8	33.8	33.8	37.8
72.5°	101.5	55.7	23.9	10.0	8.0	17.9	27.9	31.9	29.9	29.9	35.8
75°	65.7	31.9	8.0	0.0	0.0	10.0	21.9	25.9	25.9	23.9	29.9
77.5°	37.8	10.0	0.0	0.0	0.0	0.0	13.9	11.9	10.0	8.0	13.9
80°	10.0	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: P324172  
 CATALOG NUMBER: GAN-SA8C-740-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14099.0	14099.0	14099.0	14099.0	14099.0	14099.0	14099.0	14099.0	14099.0	14099.0
2.5°	12422.7	12657.6	12988.1	13338.5	13878.0	14306.0	14726.1	15086.5	15225.8	15283.5
5°	9832.7	10177.1	10660.9	11282.0	12255.5	13131.5	14019.4	14913.3	15301.5	15399.0
7.5°	7055.5	7495.4	8110.6	8889.0	10029.8	11164.5	12404.8	13716.8	14318.0	14469.3
10°	5221.9	5759.4	6464.2	7284.4	8373.4	9540.0	10891.8	12390.9	13077.7	13278.8
12.5°	3704.9	4431.6	5375.2	6372.6	7316.3	8357.5	9725.2	11377.6	12098.2	12315.2
15°	2176.0	2878.7	3995.6	5331.4	6539.9	7595.0	8984.6	10857.9	11652.3	11871.3
17.5°	1248.2	1598.6	2442.7	3931.9	5572.3	7033.6	8751.7	10987.3	11923.0	12126.1
20°	953.6	1065.1	1407.5	2532.3	4441.5	6482.1	8751.7	11720.0	12872.7	13171.3
22.5°	834.2	915.8	1055.1	1511.0	3268.9	5890.8	8853.2	12779.1	14286.1	14616.6
25°	740.6	814.2	933.7	1136.8	2229.7	5188.1	9094.1	14079.1	15950.5	16378.5
27.5°	662.9	732.6	840.1	995.4	1525.0	4340.0	9418.6	15604.1	17786.0	18128.4
30°	593.3	659.0	756.5	866.0	1176.6	3378.4	9695.3	17041.4	19227.4	19595.7
32.5°	527.6	587.3	674.9	756.5	963.6	2498.5	9725.2	18180.2	20423.8	20790.2
35°	465.9	519.6	599.2	662.9	798.3	1972.9	9261.3	19167.6	21620.3	22104.1
37.5°	406.1	457.9	527.6	575.3	702.8	1608.6	8552.6	20268.6	23155.3	23603.2
40°	350.4	396.2	467.8	499.7	664.9	1236.3	7782.1	21423.2	24660.3	25070.4
42.5°	298.6	342.4	412.1	473.8	583.3	923.7	6950.0	22506.2	26014.1	26444.1
45°	248.9	294.6	364.3	501.7	483.8	690.8	6060.1	23224.9	27083.1	27551.0
47.5°	201.1	252.8	348.4	477.8	386.2	507.7	5355.3	23905.8	27893.4	28355.3
50°	161.3	213.0	392.2	426.0	316.5	388.2	5060.7	24515.0	28425.0	28868.9
52.5°	131.4	179.2	370.3	326.5	264.8	320.5	5219.9	25502.4	28916.7	29195.4
55°	109.5	141.3	223.0	227.0	225.0	272.7	5417.0	26919.9	30188.8	30320.2
57.5°	95.6	113.5	155.3	175.2	189.1	242.9	5421.0	28954.5	32157.8	32239.4
60°	81.6	99.5	129.4	141.3	163.2	217.0	5223.9	29665.2	32932.2	33202.9
62.5°	71.7	87.6	107.5	117.5	137.4	195.1	4762.0	28636.0	31869.1	32329.0
65°	63.7	79.6	89.6	99.5	121.4	175.2	4001.6	26577.5	30105.2	30585.0
67.5°	55.7	69.7	79.6	89.6	109.5	155.3	2946.4	24186.5	28080.5	28478.7
70°	49.8	61.7	71.7	79.6	95.6	131.4	1787.8	20523.4	25281.5	25446.7
72.5°	47.8	55.7	65.7	71.7	83.6	115.5	905.8	15082.5	20210.8	20479.6
75°	41.8	49.8	59.7	63.7	73.7	99.5	368.3	9906.3	14646.5	15078.5
77.5°	33.8	45.8	53.8	57.7	63.7	81.6	187.1	6330.8	10278.6	10557.3
80°	11.9	33.8	45.8	47.8	53.8	59.7	123.4	3466.0	5962.5	6082.0
82.5°	0.0	21.9	35.8	33.8	37.8	45.8	79.6	1648.4	3935.9	3979.7
85°	0.0	10.0	27.9	21.9	15.9	31.9	27.9	360.3	2064.5	2150.1
87.5°	0.0	0.0	2.0	10.0	8.0	11.9	4.0	2.0	187.1	236.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)