

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: P324135

Luminaire Tested: **GAN-SA1D-730-U-SLL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324135  
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-SA1D-730-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5485 lumens  
Efficiency: N/A  
Efficacy: 81.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

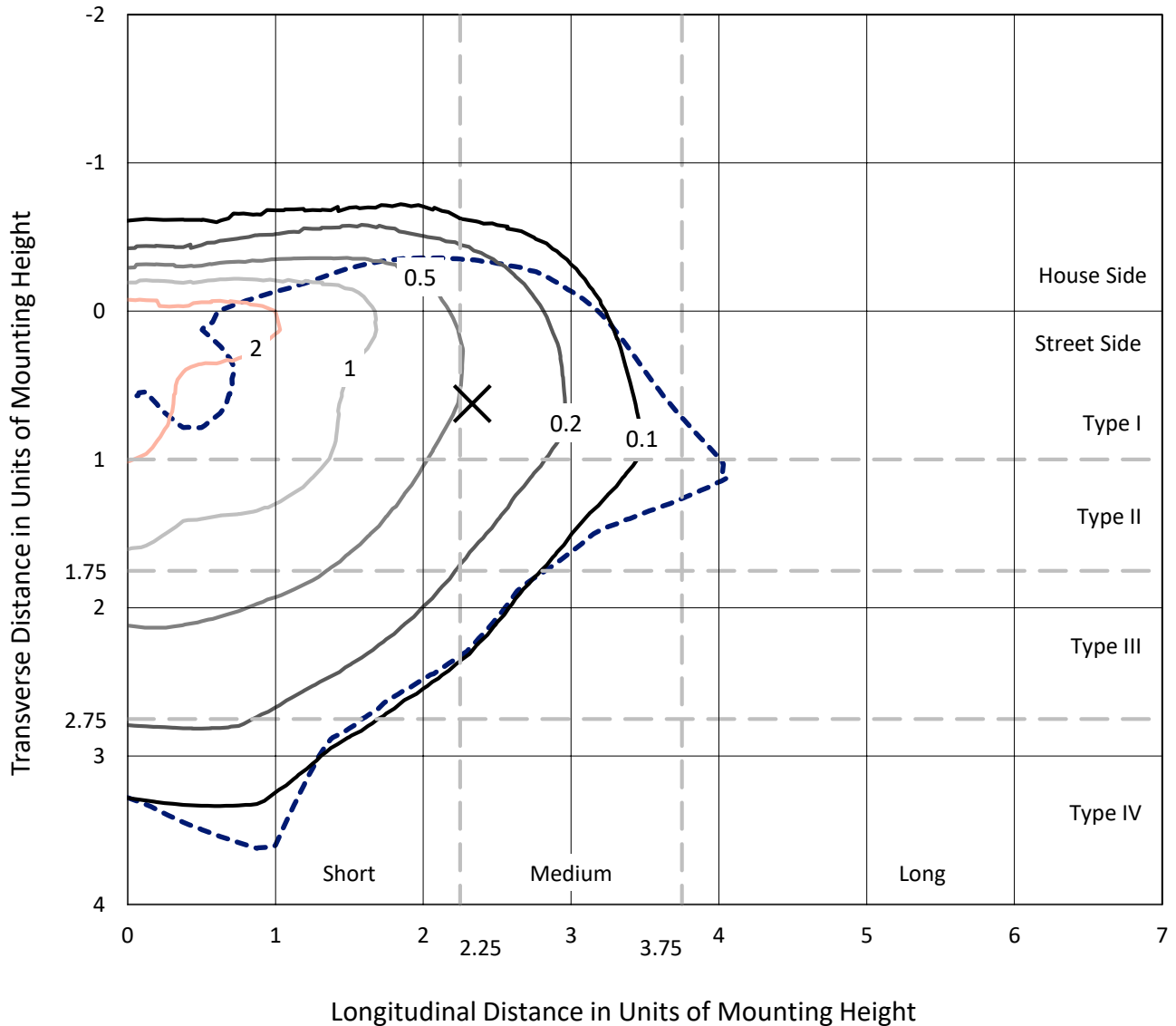
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P324135  
 CATALOG NUMBER: GAN-SA1D-730-U-SLL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

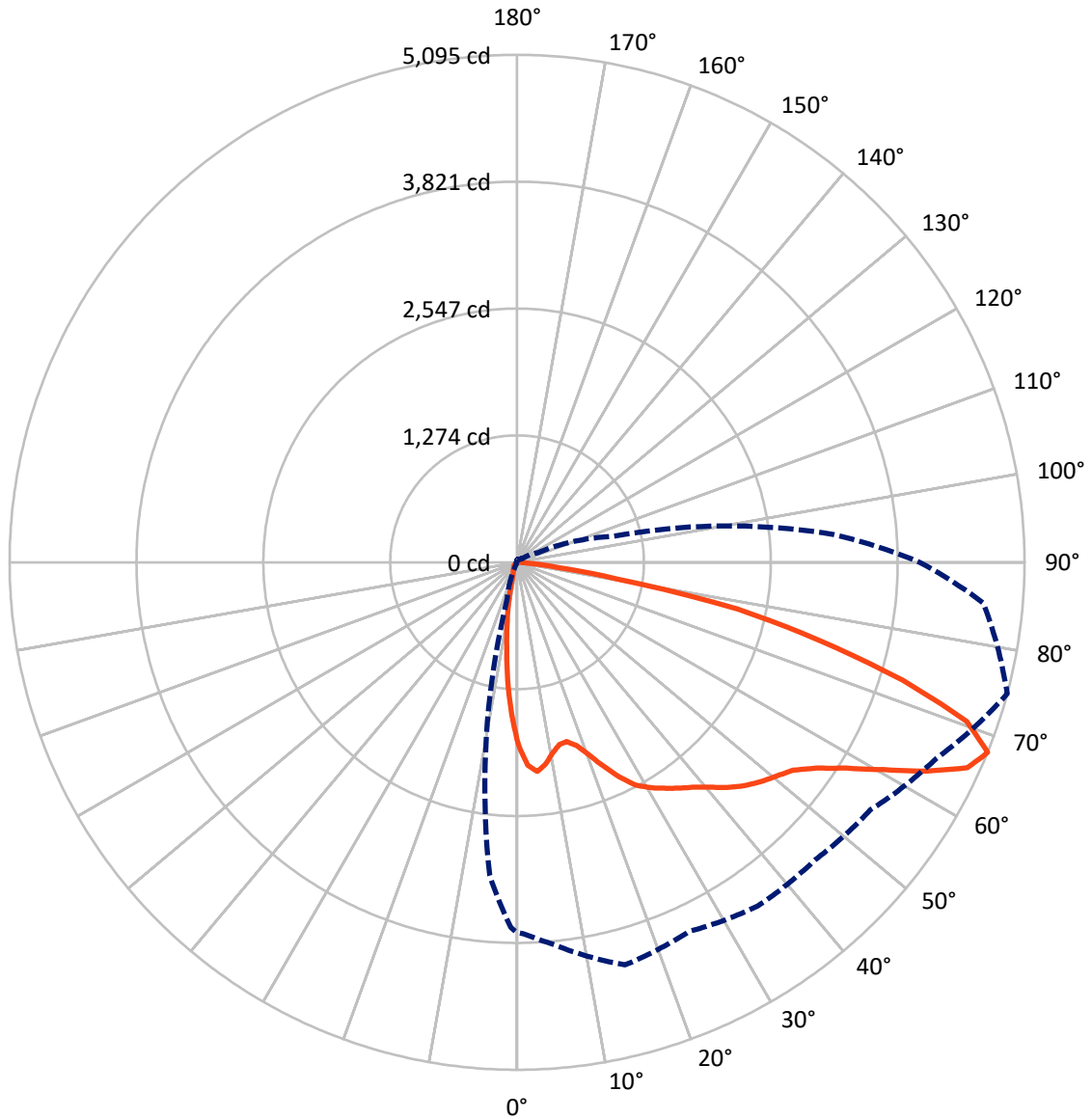
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type III - Medium - N/A

REPORT NUMBER: P324135  
CATALOG NUMBER: GAN-SA1D-730-U-SLL-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P324135  
 CATALOG NUMBER: GAN-SA1D-730-U-SLL-HSS

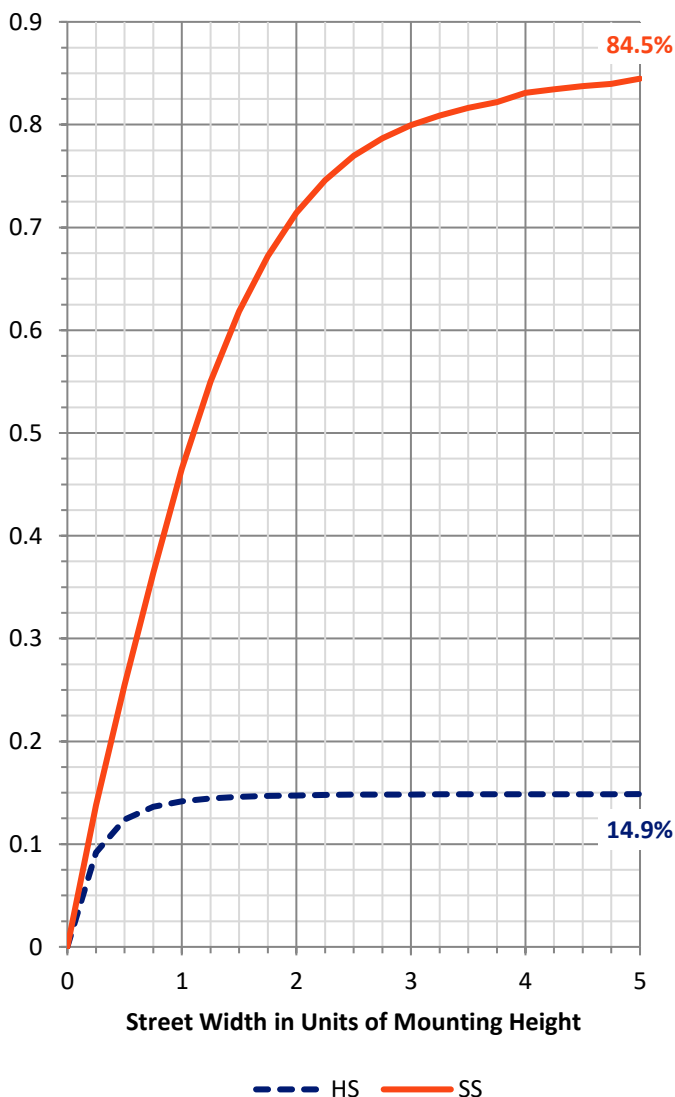
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	823.1	0.0	823.1
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	4661.9	0.0	4661.9
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	5485.0	0.0	5485.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.6	2.5
10°-20°	274.8	5.0
20°-30°	388.8	7.1
30°-40°	571.7	10.4
40°-50°	821.7	15.0
50°-60°	1156.7	21.1
60°-70°	1350.9	24.6
70°-80°	689.2	12.6
80°-90°	91.6	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°	5485.0	100.0
0°-180°	5485.0	100.0

**Coefficient of Utilization**

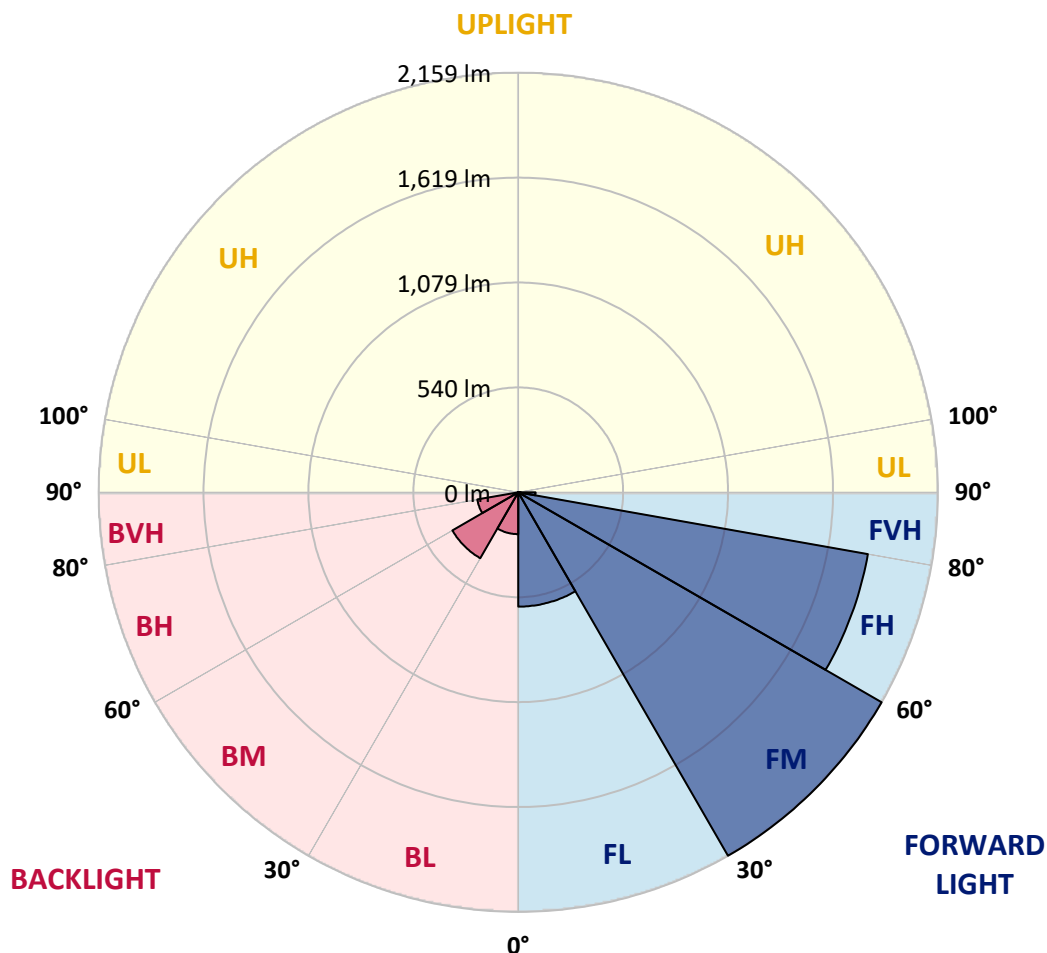


REPORT NUMBER: P324135  
 CATALOG NUMBER: GAN-SA1D-730-U-SLL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	588.0	10.7			
FM (30°-60°)	2158.8	39.4			
FH (60°-80°)	1826.3	33.3			G2/5000
FVH (80°-90°)	88.8	1.6			G1/100
BL (0°-30°)	215.2	3.9	B1/500		
BM (30°-60°)	391.3	7.1	B1/1000		
BH (60°-80°)	213.8	3.9	B1/500		G1/500
BVH (80°-90°)	2.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type III Medium





REPORT NUMBER: P324135  
 CATALOG NUMBER: GAN-SA1D-730-U-SLL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1
2.5°	1994.7	1997.8	2014.0	2051.4	2092.2	2095.3	2122.8	2094.5	2084.9	2039.2	1991.9
5°	2009.8	2021.7	2077.1	2187.0	2282.4	2313.0	2334.8	2279.2	2220.8	2109.0	1989.8
7.5°	1888.5	1908.5	1995.5	2201.8	2372.3	2447.6	2461.9	2374.9	2231.7	2047.7	1868.4
10°	1733.1	1755.9	1860.9	2114.5	2348.6	2477.7	2497.5	2383.4	2177.6	1948.5	1737.2
12.5°	1607.3	1634.1	1741.4	2016.3	2267.3	2410.2	2449.2	2354.6	2130.9	1878.1	1647.6
15°	1549.4	1580.0	1692.8	1952.9	2177.1	2289.6	2321.9	2281.1	2104.9	1866.9	1626.8
17.5°	1582.6	1615.9	1732.3	1958.3	2092.4	2140.5	2166.5	2183.1	2104.9	1934.2	1687.6
20°	1719.0	1754.9	1878.1	2013.7	2022.3	2004.3	2032.1	2090.6	2129.3	2062.0	1833.6
22.5°	1907.7	1949.8	2088.8	2108.5	1988.0	1920.2	1923.8	2015.5	2173.7	2224.2	2036.3
25°	2137.6	2189.1	2330.4	2249.9	2002.3	1870.0	1868.7	1953.7	2217.1	2386.5	2262.1
27.5°	2366.0	2422.7	2546.9	2422.4	2061.2	1860.9	1858.3	1935.0	2259.5	2531.0	2508.7
30°	2557.5	2612.6	2719.7	2547.4	2124.9	1882.2	1869.7	1955.0	2284.7	2624.8	2688.5
32.5°	2713.4	2757.6	2844.1	2633.4	2193.0	1923.5	1896.5	2008.5	2327.6	2704.1	2853.7
35°	2884.9	2931.4	2966.0	2715.2	2269.4	1983.0	1944.3	2093.5	2393.6	2784.6	3034.8
37.5°	3080.6	3126.8	3122.6	2790.1	2366.3	2081.5	2056.8	2228.1	2496.2	2864.4	3237.0
40°	3272.1	3319.3	3285.6	2871.9	2480.1	2243.9	2225.7	2430.2	2633.6	2966.5	3473.9
42.5°	3451.3	3502.5	3430.3	2949.3	2615.7	2448.6	2479.8	2690.6	2805.7	3092.2	3678.2
45°	3595.8	3648.0	3551.6	3024.7	2758.6	2697.0	2790.8	2979.0	3012.5	3198.5	3816.1
47.5°	3700.8	3750.1	3635.8	3100.0	2941.5	3000.8	3164.2	3281.4	3199.3	3290.8	3914.1
50°	3767.8	3806.3	3660.5	3194.4	3181.6	3355.2	3553.2	3610.4	3375.2	3373.9	4033.1
52.5°	3810.4	3827.8	3678.7	3292.8	3432.1	3741.0	3934.1	3952.0	3556.3	3465.4	4193.4
55°	3957.2	3971.3	3807.6	3412.1	3639.2	4079.1	4278.6	4262.0	3761.3	3644.4	4382.6
57.5°	4207.7	4222.5	4073.9	3583.6	3806.8	4288.0	4528.3	4558.2	4001.7	3895.9	4585.2
60°	4333.5	4361.0	4308.0	3800.8	3969.2	4421.5	4698.5	4793.9	4302.0	4227.5	4781.7
62.5°	4219.4	4259.4	4336.3	4041.7	4130.5	4495.1	4751.5	4878.3	4609.7	4613.8	4902.8
65°	3991.8	4023.7	4154.2	4173.7	4224.1	4486.0	4620.6	4760.4	4798.0	4968.7	4896.3
67.5°	3716.9	3728.8	3839.5	4184.1	4088.4	4212.6	4227.2	4330.6	4649.2	5094.5	4699.6
70°	3321.2	3327.7	3424.3	3836.1	3513.4	3540.7	3519.2	3540.2	3997.0	4788.2	4203.0
72.5°	2672.9	2689.3	2826.7	3185.8	2559.6	2480.9	2650.3	2640.9	3078.2	4045.3	3121.6
75°	1968.0	1996.3	2203.9	2566.1	1796.5	1625.0	1748.7	1781.7	2188.3	3129.1	1952.1
77.5°	1377.9	1398.9	1600.0	1886.4	1300.2	1162.0	1117.3	1156.5	1444.4	2263.6	983.5
80°	793.8	801.6	929.9	1089.2	876.2	1002.4	908.1	935.1	865.5	1007.1	423.0
82.5°	519.4	520.7	570.8	648.3	545.6	634.0	469.3	599.9	532.4	404.6	137.7
85°	280.6	282.2	331.0	460.2	308.9	174.6	102.6	210.7	329.2	92.8	37.7
87.5°	30.9	28.3	99.8	167.3	85.7	15.8	5.5	23.6	52.7	6.0	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: P324135  
 CATALOG NUMBER: GAN-SA1D-730-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1
2.5°	1967.7	1946.1	1892.3	1835.4	1789.7	1746.8	1703.7	1651.0	1610.2	1601.9	1588.3
5°	1925.6	1857.3	1744.5	1631.2	1540.0	1424.9	1351.9	1295.0	1239.4	1236.0	1224.8
7.5°	1778.5	1688.6	1529.9	1373.2	1244.9	1135.2	1024.5	950.5	892.3	871.7	859.5
10°	1637.2	1536.1	1337.9	1159.1	1044.5	947.6	869.7	792.2	722.1	673.7	651.9
12.5°	1538.5	1426.7	1208.2	1054.1	972.0	880.0	784.9	688.3	607.5	549.3	513.7
15°	1500.3	1381.0	1164.8	1012.6	911.2	794.8	673.2	562.8	473.2	420.4	388.4
17.5°	1545.7	1407.0	1161.4	961.9	820.3	675.6	541.2	410.8	326.3	286.3	265.8
20°	1661.1	1489.6	1160.1	899.8	712.2	534.2	366.6	270.2	219.0	196.7	187.1
22.5°	1824.3	1595.1	1170.5	838.5	599.7	381.7	253.1	198.5	172.3	160.3	154.9
25°	2034.2	1743.2	1199.9	782.9	493.9	284.8	197.2	166.3	147.8	138.5	134.6
27.5°	2257.9	1913.7	1245.6	734.5	407.9	227.1	168.9	142.4	129.1	122.6	119.0
30°	2442.4	2111.1	1291.9	680.8	345.6	198.0	154.6	129.9	114.6	110.4	107.1
32.5°	2603.8	2260.5	1324.6	632.2	304.8	175.9	139.8	116.1	105.8	97.7	94.1
35°	2770.8	2385.0	1323.6	598.1	276.7	159.3	127.3	103.9	91.5	82.1	79.2
37.5°	2951.7	2525.6	1301.0	569.0	264.5	146.0	120.3	97.4	85.0	75.6	72.0
40°	3163.4	2673.1	1277.8	541.7	261.1	135.4	115.4	92.2	79.0	69.9	66.3
42.5°	3369.7	2806.2	1257.6	521.5	246.6	135.1	110.9	88.3	74.3	65.5	61.3
45°	3534.7	2930.1	1253.7	509.3	231.2	139.8	108.6	85.7	70.7	61.8	57.9
47.5°	3671.9	3064.7	1278.6	500.7	216.7	127.6	114.3	83.9	67.3	58.7	54.3
50°	3835.1	3230.0	1337.4	486.7	201.4	114.8	131.0	84.4	64.4	55.6	50.9
52.5°	4062.7	3458.6	1423.6	463.0	180.3	103.2	128.9	85.0	61.3	52.2	47.5
55°	4317.9	3744.2	1516.4	423.8	151.0	87.8	110.4	81.3	55.3	48.6	44.2
57.5°	4586.0	4003.2	1571.5	377.0	120.0	75.9	88.3	74.1	48.8	43.7	40.8
60°	4628.1	4101.7	1546.3	319.6	95.4	66.0	65.5	75.4	43.7	38.5	36.4
62.5°	4523.4	3978.0	1424.4	268.4	79.8	57.9	53.8	65.7	39.5	34.3	32.2
65°	4322.0	3643.6	1226.9	241.9	74.1	49.6	44.7	46.2	34.6	29.9	28.1
67.5°	4041.9	3197.2	1007.4	226.8	73.3	42.6	38.2	35.1	29.9	26.0	24.4
70°	3469.3	2663.5	803.7	218.5	71.2	35.9	32.2	28.6	24.9	22.1	20.8
72.5°	2553.4	1887.4	625.2	209.4	71.7	28.6	28.1	23.6	20.0	17.1	16.6
75°	1475.3	1078.3	410.0	169.7	68.3	22.1	23.4	16.6	14.0	12.0	12.0
77.5°	786.2	657.6	156.2	70.7	24.9	14.0	13.3	9.9	8.8	7.3	7.0
80°	342.7	289.5	47.0	19.7	13.8	7.5	4.9	4.4	3.9	3.1	2.9
82.5°	121.3	104.7	15.3	9.6	6.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.5	19.7	0.0	2.3	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





REPORT NUMBER: P324135  
 CATALOG NUMBER: GAN-SA1D-730-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1
2.5°	1560.8	1555.1	1521.3	1522.6	1528.6	1537.2	1516.9	1526.2	1551.5	1575.6	1584.7
5°	1206.9	1208.2	1187.7	1200.4	1211.9	1219.6	1186.9	1187.4	1207.4	1234.7	1249.0
7.5°	850.4	848.3	849.4	879.8	901.4	885.8	898.0	855.6	858.2	877.7	863.2
10°	632.2	603.6	587.5	610.3	634.0	625.4	604.4	590.6	600.2	621.8	620.2
12.5°	496.8	455.7	431.6	415.2	434.7	418.6	418.1	406.1	393.1	395.5	430.0
15°	373.6	343.8	315.2	288.9	288.4	283.0	255.2	224.0	221.4	222.9	240.9
17.5°	257.0	246.8	235.1	212.5	206.6	183.7	156.7	144.2	138.0	140.8	146.8
20°	180.6	176.7	178.0	165.8	157.2	135.4	119.5	114.6	113.5	116.4	119.3
22.5°	149.7	142.6	141.9	136.4	127.8	112.0	103.4	100.6	99.3	101.9	103.9
25°	131.0	123.9	121.1	117.7	108.6	97.7	92.5	89.9	88.6	90.2	91.5
27.5°	115.4	108.9	106.3	103.9	95.1	87.3	83.1	80.8	79.8	80.3	81.6
30°	103.7	98.0	94.6	91.7	84.2	78.7	75.1	72.8	71.7	71.7	73.0
32.5°	91.5	88.3	85.2	81.6	74.6	70.9	67.3	64.7	63.7	63.9	65.0
35°	76.1	75.1	75.9	72.5	66.5	63.4	59.8	56.9	56.1	56.4	57.4
37.5°	67.6	62.9	65.7	63.9	60.5	56.4	51.7	49.1	47.8	48.6	49.1
40°	62.1	56.4	54.3	56.1	55.6	48.8	44.7	42.1	41.1	41.3	41.8
42.5°	57.4	50.7	46.0	45.7	48.8	42.6	38.2	35.9	34.6	34.6	35.1
45°	53.0	45.7	40.0	35.6	41.1	36.1	32.0	29.9	28.3	28.3	28.6
47.5°	49.6	41.6	34.8	29.1	30.9	29.6	26.2	24.2	22.6	22.6	22.9
50°	46.5	37.4	30.1	24.4	23.1	24.4	21.3	19.0	17.9	17.7	18.2
52.5°	43.1	33.3	25.7	20.8	18.2	18.4	16.6	15.1	13.8	13.8	14.3
55°	39.8	29.9	22.3	17.7	15.1	13.8	13.3	12.2	11.2	11.2	11.7
57.5°	36.4	26.2	19.0	14.6	12.0	10.9	10.9	10.1	9.4	9.4	9.9
60°	33.3	22.6	15.6	12.0	9.4	9.1	9.4	8.6	8.1	8.1	8.6
62.5°	29.6	19.2	12.7	9.9	7.5	7.3	8.1	7.5	7.0	7.0	7.5
65°	25.2	16.4	10.1	7.5	5.7	5.7	6.8	6.2	5.7	5.7	6.2
67.5°	21.3	13.8	7.8	5.5	4.2	4.4	5.7	5.2	4.9	4.9	5.5
70°	17.7	10.7	5.5	3.4	2.3	3.4	4.4	4.4	4.4	4.4	4.9
72.5°	13.3	7.3	3.1	1.3	1.0	2.3	3.6	4.2	3.9	3.9	4.7
75°	8.6	4.2	1.0	0.0	0.0	1.3	2.9	3.4	3.4	3.1	3.9
77.5°	4.9	1.3	0.0	0.0	0.0	0.0	1.8	1.6	1.3	1.0	1.8
80°	1.3	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: P324135  
 CATALOG NUMBER: GAN-SA1D-730-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1	1840.1
2.5°	1621.3	1652.0	1695.1	1740.9	1811.3	1867.1	1922.0	1969.0	1987.2	1994.7
5°	1283.3	1328.3	1391.4	1472.5	1599.5	1713.8	1829.7	1946.4	1997.1	2009.8
7.5°	920.8	978.3	1058.6	1160.1	1309.0	1457.1	1619.0	1790.2	1868.7	1888.5
10°	681.5	751.7	843.7	950.7	1092.8	1245.1	1421.5	1617.2	1706.8	1733.1
12.5°	483.5	578.4	701.5	831.7	954.9	1090.8	1269.3	1484.9	1579.0	1607.3
15°	284.0	375.7	521.5	695.8	853.5	991.3	1172.6	1417.1	1520.8	1549.4
17.5°	162.9	208.6	318.8	513.2	727.3	918.0	1142.2	1434.0	1556.1	1582.6
20°	124.5	139.0	183.7	330.5	579.7	846.0	1142.2	1529.6	1680.1	1719.0
22.5°	108.9	119.5	137.7	197.2	426.6	768.8	1155.5	1667.9	1864.5	1907.7
25°	96.7	106.3	121.9	148.4	291.0	677.1	1186.9	1837.5	2081.8	2137.6
27.5°	86.5	95.6	109.6	129.9	199.0	566.4	1229.3	2036.6	2321.3	2366.0
30°	77.4	86.0	98.7	113.0	153.6	440.9	1265.4	2224.2	2509.4	2557.5
32.5°	68.9	76.7	88.1	98.7	125.8	326.1	1269.3	2372.8	2665.6	2713.4
35°	60.8	67.8	78.2	86.5	104.2	257.5	1208.7	2501.7	2821.8	2884.9
37.5°	53.0	59.8	68.9	75.1	91.7	209.9	1116.2	2645.3	3022.1	3080.6
40°	45.7	51.7	61.1	65.2	86.8	161.4	1015.7	2796.0	3218.5	3272.1
42.5°	39.0	44.7	53.8	61.8	76.1	120.6	907.1	2937.4	3395.2	3451.3
45°	32.5	38.5	47.5	65.5	63.1	90.2	790.9	3031.2	3534.7	3595.8
47.5°	26.2	33.0	45.5	62.4	50.4	66.3	698.9	3120.1	3640.5	3700.8
50°	21.0	27.8	51.2	55.6	41.3	50.7	660.5	3199.6	3709.9	3767.8
52.5°	17.1	23.4	48.3	42.6	34.6	41.8	681.3	3328.4	3774.0	3810.4
55°	14.3	18.4	29.1	29.6	29.4	35.6	707.0	3513.4	3940.1	3957.2
57.5°	12.5	14.8	20.3	22.9	24.7	31.7	707.5	3779.0	4197.1	4207.7
60°	10.7	13.0	16.9	18.4	21.3	28.3	681.8	3871.7	4298.1	4333.5
62.5°	9.4	11.4	14.0	15.3	17.9	25.5	621.5	3737.4	4159.4	4219.4
65°	8.3	10.4	11.7	13.0	15.8	22.9	522.3	3468.7	3929.2	3991.8
67.5°	7.3	9.1	10.4	11.7	14.3	20.3	384.5	3156.7	3664.9	3716.9
70°	6.5	8.1	9.4	10.4	12.5	17.1	233.3	2678.6	3299.6	3321.2
72.5°	6.2	7.3	8.6	9.4	10.9	15.1	118.2	1968.5	2637.8	2672.9
75°	5.5	6.5	7.8	8.3	9.6	13.0	48.1	1292.9	1911.6	1968.0
77.5°	4.4	6.0	7.0	7.5	8.3	10.7	24.4	826.3	1341.5	1377.9
80°	1.6	4.4	6.0	6.2	7.0	7.8	16.1	452.4	778.2	793.8
82.5°	0.0	2.9	4.7	4.4	4.9	6.0	10.4	215.1	513.7	519.4
85°	0.0	1.3	3.6	2.9	2.1	4.2	3.6	47.0	269.4	280.6
87.5°	0.0	0.0	0.3	1.3	1.0	1.6	0.5	0.3	24.4	30.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)