

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: P324095

Luminaire Tested: **GAN-SA1D-727-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324095
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-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 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: 5036 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

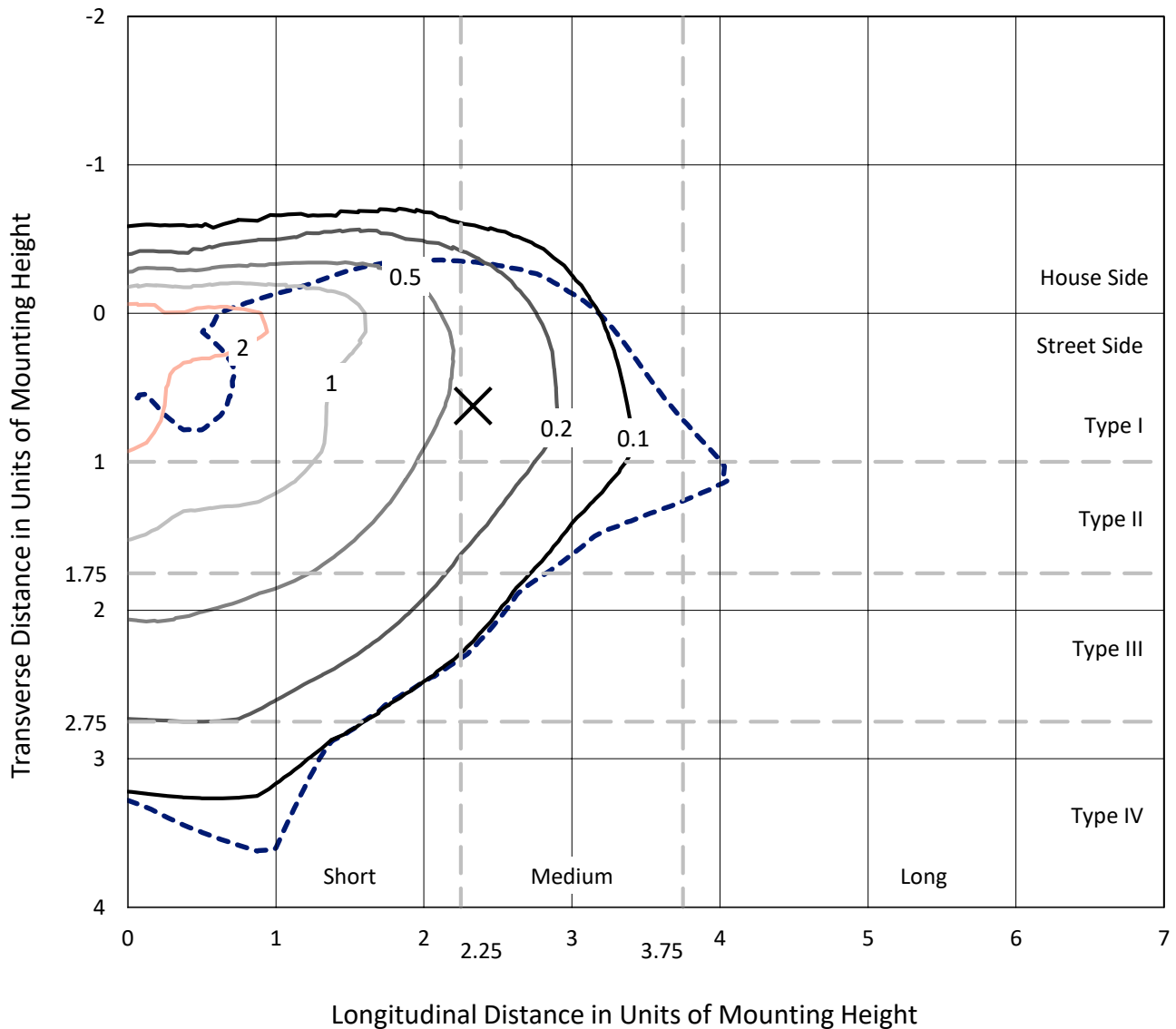
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324095
 CATALOG NUMBER: GAN-SA1D-727-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

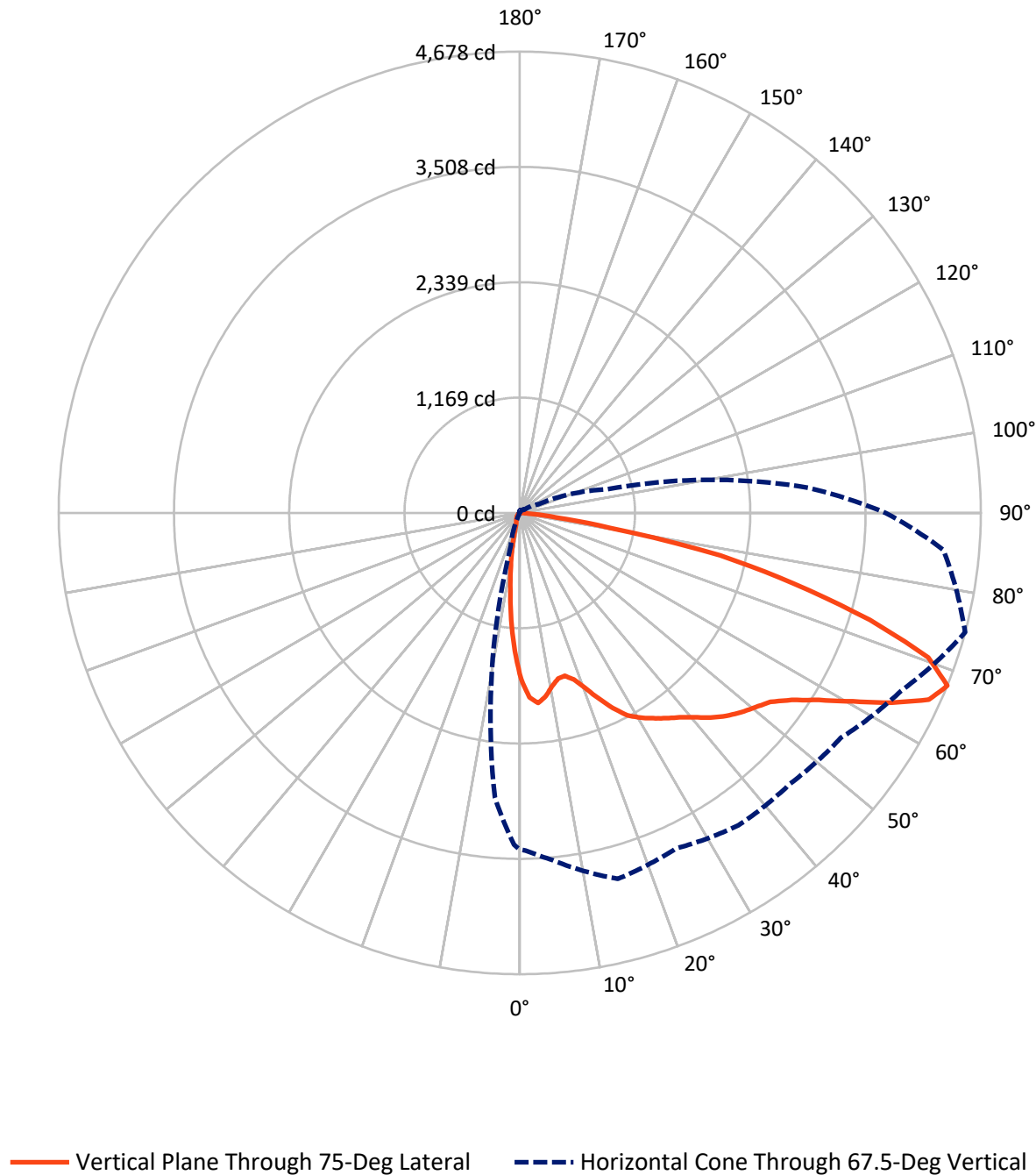
× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P324095
CATALOG NUMBER: GAN-SA1D-727-U-SLL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P324095

CATALOG NUMBER: GAN-SA1D-727-U-SLL-HSS

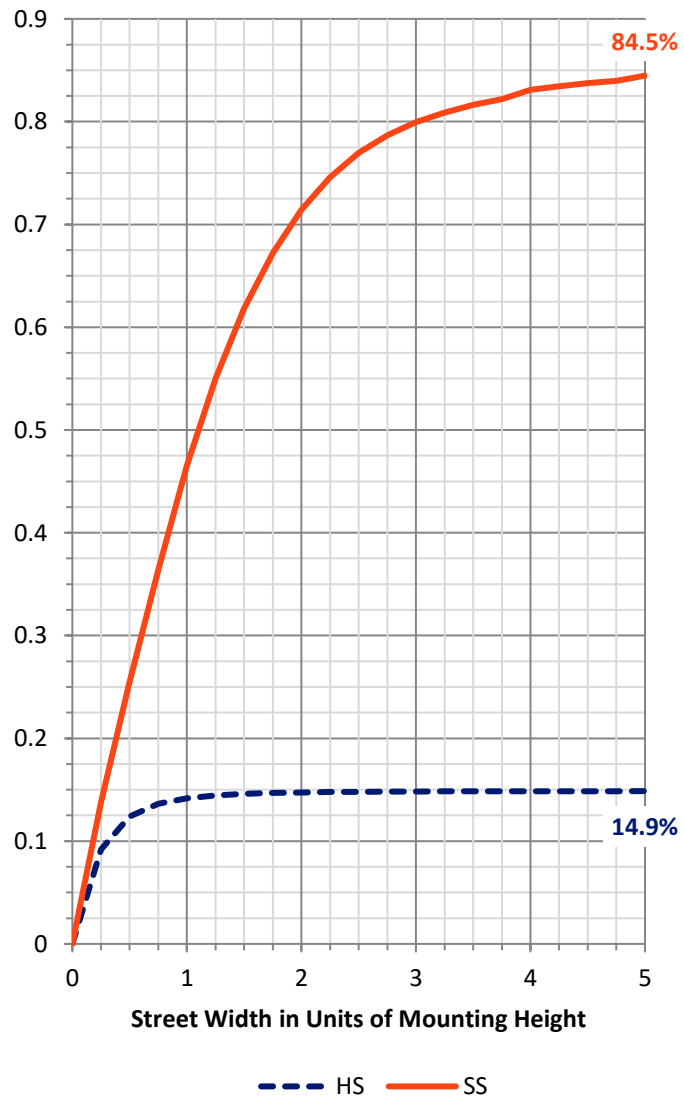
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	755.7	0.0	755.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	4280.3	0.0	4280.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	5036.0	0.0	5036.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.2	2.5
10°-20°	252.3	5.0
20°-30°	357.0	7.1
30°-40°	524.9	10.4
40°-50°	754.4	15.0
50°-60°	1062.0	21.1
60°-70°	1240.3	24.6
70°-80°	632.8	12.6
80°-90°	84.1	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°	5036.0	100.0
0°-180°	5036.0	100.0

Coefficient of Utilization



REPORT NUMBER: P324095

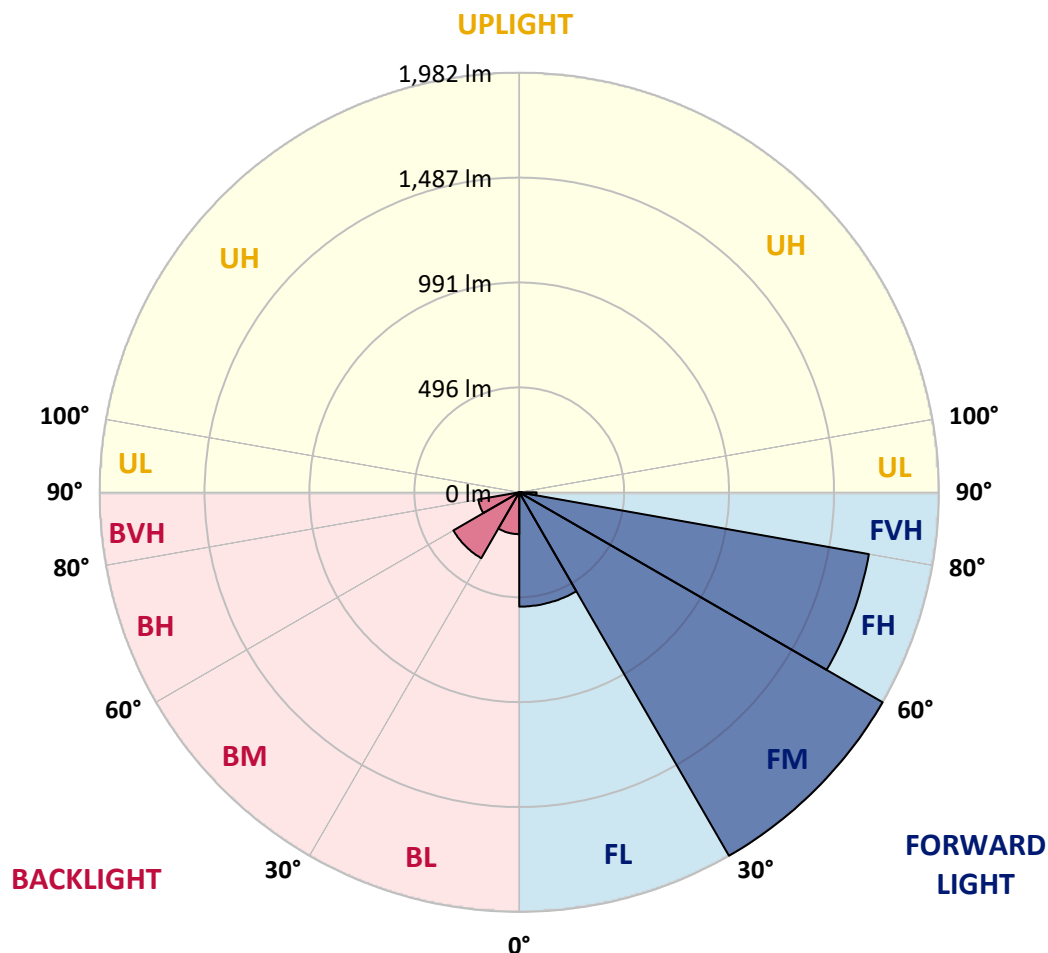
CATALOG NUMBER: GAN-SA1D-727-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	539.9	10.7			
FM	(30°-60°)	1982.1	39.4			
FH	(60°-80°)	1676.8	33.3			G1/1800
FVH	(80°-90°)	81.5	1.6			G1/100
BL	(0°-30°)	197.6	3.9	B1/500		
BM	(30°-60°)	359.2	7.1	B1/1000		
BH	(60°-80°)	196.3	3.9	B1/500		G1/500
BVH	(80°-90°)	2.5	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-G1

Type III Medium



REPORT NUMBER: P324095

CATALOG NUMBER: GAN-SA1D-727-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1689.5	1689.5	1689.5	1689.5	1689.5	1689.5	1689.5	1689.5	1689.5	1689.5	1689.5
2.5°	1831.4	1834.3	1849.1	1883.4	1920.9	1923.8	1949.0	1923.0	1914.2	1872.2	1828.8
5°	1845.3	1856.2	1907.1	2008.0	2095.5	2123.7	2143.7	2092.7	2039.0	1936.4	1826.9
7.5°	1733.9	1752.2	1832.2	2021.6	2178.1	2247.2	2260.4	2180.5	2049.0	1880.1	1715.5
10°	1591.2	1612.2	1708.6	1941.4	2156.4	2274.9	2293.1	2188.3	1999.4	1789.0	1595.0
12.5°	1475.7	1500.3	1598.8	1851.2	2081.7	2212.9	2248.7	2161.8	1956.4	1724.3	1512.7
15°	1422.5	1450.7	1554.2	1793.0	1998.9	2102.2	2131.8	2094.3	1932.6	1714.1	1493.6
17.5°	1453.1	1483.6	1590.5	1798.0	1921.1	1965.3	1989.1	2004.4	1932.6	1775.9	1549.5
20°	1578.3	1611.2	1724.3	1848.9	1856.7	1840.3	1865.8	1919.5	1955.0	1893.2	1683.5
22.5°	1751.5	1790.2	1917.8	1935.9	1825.2	1763.0	1766.3	1850.5	1995.8	2042.1	1869.6
25°	1962.6	2009.9	2139.7	2065.7	1838.4	1716.9	1715.7	1793.7	2035.6	2191.2	2076.9
27.5°	2172.3	2224.3	2338.4	2224.1	1892.5	1708.6	1706.2	1776.6	2074.5	2323.8	2303.3
30°	2348.2	2398.7	2497.0	2338.9	1951.0	1728.1	1716.7	1794.9	2097.7	2409.9	2468.4
32.5°	2491.3	2531.9	2611.3	2417.8	2013.5	1766.1	1741.3	1844.1	2137.0	2482.7	2620.1
35°	2648.7	2691.4	2723.2	2493.0	2083.6	1820.7	1785.2	1922.1	2197.6	2556.7	2786.4
37.5°	2828.4	2870.8	2867.0	2561.7	2172.6	1911.1	1888.5	2045.7	2291.9	2629.9	2972.0
40°	3004.2	3047.6	3016.6	2636.8	2277.1	2060.2	2043.5	2231.3	2418.1	2723.7	3189.6
42.5°	3168.8	3215.8	3149.5	2707.9	2401.6	2248.2	2276.8	2470.3	2576.0	2839.1	3377.1
45°	3301.5	3349.4	3260.9	2777.1	2532.8	2476.3	2562.4	2735.1	2765.9	2936.7	3503.8
47.5°	3397.8	3443.2	3338.2	2846.3	2700.8	2755.1	2905.2	3012.8	2937.4	3021.4	3593.7
50°	3459.4	3494.7	3360.9	2932.9	2921.2	3080.5	3262.3	3314.8	3098.9	3097.7	3703.0
52.5°	3498.5	3514.5	3377.6	3023.3	3151.2	3434.8	3612.1	3628.5	3265.2	3181.7	3850.1
55°	3633.3	3646.2	3495.9	3132.8	3341.3	3745.2	3928.4	3913.1	3453.4	3346.1	4023.8
57.5°	3863.3	3876.9	3740.4	3290.2	3495.2	3937.0	4157.6	4185.1	3674.1	3577.0	4209.9
60°	3978.7	4004.0	3955.3	3489.7	3644.3	4059.6	4313.9	4401.5	3949.9	3881.4	4390.2
62.5°	3874.0	3910.7	3981.4	3710.8	3792.4	4127.1	4362.6	4479.0	4232.3	4236.1	4501.4
65°	3665.0	3694.4	3814.1	3832.0	3878.3	4118.8	4242.3	4370.7	4405.3	4562.0	4495.5
67.5°	3412.6	3423.6	3525.2	3841.6	3753.8	3867.8	3881.2	3976.1	4268.6	4677.5	4314.9
70°	3049.3	3055.3	3144.0	3522.1	3225.8	3250.9	3231.1	3250.4	3669.8	4396.2	3859.0
72.5°	2454.1	2469.1	2595.3	2925.0	2350.1	2277.8	2433.3	2424.7	2826.2	3714.2	2866.1
75°	1806.9	1832.9	2023.5	2356.0	1649.4	1492.0	1605.5	1635.8	2009.2	2873.0	1792.3
77.5°	1265.1	1284.4	1469.1	1732.0	1193.8	1066.8	1025.8	1061.8	1326.2	2078.3	903.0
80°	728.8	736.0	853.8	1000.0	804.4	920.4	833.8	858.6	794.6	924.7	388.4
82.5°	476.9	478.1	524.1	595.2	501.0	582.1	430.8	550.8	488.8	371.4	126.4
85°	257.6	259.1	303.9	422.5	283.6	160.3	94.2	193.5	302.3	85.2	34.6
87.5°	28.4	26.0	91.6	153.6	78.7	14.6	5.0	21.7	48.4	5.5	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: P324095

CATALOG NUMBER: GAN-SA1D-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1689.5	1689.5	1689.5	1689.5	1689.5	1689.5	1689.5	1689.5	1689.5	1689.5	1689.5
2.5°	1806.6	1786.8	1737.4	1685.2	1643.2	1603.8	1564.2	1515.8	1478.4	1470.7	1458.3
5°	1768.0	1705.2	1601.7	1497.7	1414.0	1308.3	1241.2	1189.0	1137.9	1134.8	1124.6
7.5°	1633.0	1550.4	1404.6	1260.8	1142.9	1042.3	940.6	872.7	819.2	800.4	789.2
10°	1503.2	1410.4	1228.4	1064.2	959.0	870.0	798.5	727.4	663.0	618.6	598.6
12.5°	1412.5	1309.9	1109.3	967.8	892.5	808.0	720.7	631.9	557.8	504.3	471.6
15°	1377.5	1268.0	1069.5	929.7	836.6	729.8	618.1	516.7	434.4	386.0	356.6
17.5°	1419.2	1291.8	1066.4	883.2	753.1	620.3	496.9	377.2	299.6	262.9	244.0
20°	1525.1	1367.7	1065.2	826.1	653.9	490.5	336.6	248.1	201.1	180.6	171.8
22.5°	1674.9	1464.5	1074.7	769.8	550.6	350.4	232.4	182.3	158.2	147.2	142.2
25°	1867.7	1600.5	1101.7	718.8	453.5	261.5	181.1	152.7	135.7	127.2	123.6
27.5°	2073.1	1757.0	1143.7	674.4	374.5	208.5	155.1	130.7	118.6	112.6	109.3
30°	2242.5	1938.3	1186.1	625.0	317.3	181.8	141.9	119.3	105.2	101.4	98.3
32.5°	2390.6	2075.5	1216.2	580.4	279.8	161.5	128.3	106.6	97.1	89.7	86.4
35°	2544.0	2189.8	1215.2	549.2	254.1	146.2	116.9	95.4	84.0	75.4	72.8
37.5°	2710.1	2318.8	1194.5	522.4	242.9	134.1	110.5	89.5	78.0	69.4	66.1
40°	2904.5	2454.3	1173.2	497.4	239.8	124.3	105.9	84.7	72.5	64.2	60.8
42.5°	3093.9	2576.5	1154.6	478.8	226.4	124.1	101.9	81.1	68.2	60.1	56.3
45°	3245.4	2690.3	1151.1	467.6	212.3	128.3	99.7	78.7	64.9	56.8	53.2
47.5°	3371.3	2813.8	1174.0	459.7	199.0	117.1	105.0	77.1	61.8	53.9	49.9
50°	3521.2	2965.6	1227.9	446.8	184.9	105.4	120.2	77.5	59.2	51.1	46.8
52.5°	3730.1	3175.5	1307.1	425.1	165.6	94.7	118.3	78.0	56.3	48.0	43.7
55°	3964.4	3437.7	1392.2	389.1	138.6	80.6	101.4	74.7	50.8	44.6	40.6
57.5°	4210.6	3675.5	1442.8	346.2	110.2	69.7	81.1	68.0	44.8	40.1	37.5
60°	4249.3	3765.9	1419.7	293.4	87.6	60.6	60.1	69.2	40.1	35.3	33.4
62.5°	4153.1	3652.4	1307.8	246.4	73.2	53.2	49.4	60.4	36.3	31.5	29.6
65°	3968.2	3345.3	1126.5	222.1	68.0	45.6	41.0	42.5	31.7	27.4	25.8
67.5°	3711.1	2935.5	924.9	208.3	67.3	39.1	35.1	32.2	27.4	23.9	22.4
70°	3185.3	2445.5	737.9	200.6	65.4	32.9	29.6	26.2	22.9	20.3	19.1
72.5°	2344.3	1732.9	574.0	192.3	65.8	26.2	25.8	21.7	18.4	15.7	15.3
75°	1354.6	990.0	376.4	155.8	62.7	20.3	21.5	15.3	12.9	11.0	11.0
77.5°	721.9	603.8	143.4	64.9	22.9	12.9	12.2	9.1	8.1	6.7	6.4
80°	314.7	265.8	43.2	18.1	12.6	6.9	4.5	4.1	3.6	2.9	2.6
82.5°	111.4	96.1	14.1	8.8	5.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.3	18.1	0.0	2.1	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: P324095

CATALOG NUMBER: GAN-SA1D-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1689.5	1689.5	1689.5	1689.5	1689.5	1689.5	1689.5	1689.5	1689.5	1689.5	1689.5
2.5°	1433.0	1427.8	1396.8	1398.0	1403.5	1411.3	1392.7	1401.3	1424.5	1446.6	1455.0
5°	1108.1	1109.3	1090.5	1102.2	1112.7	1119.8	1089.7	1090.2	1108.6	1133.6	1146.8
7.5°	780.8	778.9	779.9	807.8	827.6	813.3	824.5	785.6	788.0	805.9	792.5
10°	580.4	554.2	539.4	560.4	582.1	574.2	554.9	542.3	551.1	570.9	569.4
12.5°	456.1	418.4	396.3	381.2	399.1	384.3	383.8	372.9	360.9	363.1	394.8
15°	343.1	315.6	289.4	265.3	264.8	259.8	234.3	205.6	203.3	204.7	221.1
17.5°	235.9	226.6	215.9	195.1	189.7	168.7	143.9	132.4	126.7	129.3	134.8
20°	165.8	162.2	163.4	152.2	144.3	124.3	109.7	105.2	104.3	106.9	109.5
22.5°	137.4	131.0	130.3	125.2	117.4	102.8	94.9	92.3	91.1	93.5	95.4
25°	120.2	113.8	111.2	108.1	99.7	89.7	84.9	82.5	81.3	82.8	84.0
27.5°	105.9	100.0	97.6	95.4	87.3	80.2	76.3	74.2	73.2	73.7	74.9
30°	95.2	89.9	86.8	84.2	77.3	72.3	68.9	66.8	65.8	65.8	67.0
32.5°	84.0	81.1	78.2	74.9	68.5	65.1	61.8	59.4	58.4	58.7	59.6
35°	69.9	68.9	69.7	66.6	61.1	58.2	54.9	52.2	51.5	51.8	52.7
37.5°	62.0	57.7	60.4	58.7	55.6	51.8	47.5	45.1	43.9	44.6	45.1
40°	57.0	51.8	49.9	51.5	51.1	44.8	41.0	38.6	37.7	37.9	38.4
42.5°	52.7	46.5	42.2	42.0	44.8	39.1	35.1	32.9	31.7	31.7	32.2
45°	48.7	42.0	36.7	32.7	37.7	33.2	29.3	27.4	26.0	26.0	26.2
47.5°	45.6	38.2	32.0	26.7	28.4	27.2	24.1	22.2	20.8	20.8	21.0
50°	42.7	34.4	27.7	22.4	21.2	22.4	19.6	17.4	16.5	16.2	16.7
52.5°	39.6	30.5	23.6	19.1	16.7	16.9	15.3	13.8	12.6	12.6	13.1
55°	36.5	27.4	20.5	16.2	13.8	12.6	12.2	11.2	10.3	10.3	10.7
57.5°	33.4	24.1	17.4	13.4	11.0	10.0	10.0	9.3	8.6	8.6	9.1
60°	30.5	20.8	14.3	11.0	8.6	8.3	8.6	7.9	7.4	7.4	7.9
62.5°	27.2	17.7	11.7	9.1	6.9	6.7	7.4	6.9	6.4	6.4	6.9
65°	23.1	15.0	9.3	6.9	5.2	5.2	6.2	5.7	5.2	5.2	5.7
67.5°	19.6	12.6	7.2	5.0	3.8	4.1	5.2	4.8	4.5	4.5	5.0
70°	16.2	9.8	5.0	3.1	2.1	3.1	4.1	4.1	4.1	4.1	4.5
72.5°	12.2	6.7	2.9	1.2	1.0	2.1	3.3	3.8	3.6	3.6	4.3
75°	7.9	3.8	1.0	0.0	0.0	1.2	2.6	3.1	3.1	2.9	3.6
77.5°	4.5	1.2	0.0	0.0	0.0	0.0	1.7	1.4	1.2	1.0	1.7
80°	1.2	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: P324095

CATALOG NUMBER: GAN-SA1D-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1689.5	1689.5	1689.5	1689.5	1689.5	1689.5	1689.5	1689.5	1689.5	1689.5
2.5°	1488.6	1516.8	1556.4	1598.4	1663.0	1714.3	1764.6	1807.8	1824.5	1831.4
5°	1178.3	1219.5	1277.5	1351.9	1468.6	1573.6	1679.9	1787.1	1833.6	1845.3
7.5°	845.5	898.2	971.9	1065.2	1201.9	1337.9	1486.5	1643.7	1715.7	1733.9
10°	625.7	690.2	774.6	872.9	1003.4	1143.2	1305.2	1484.8	1567.1	1591.2
12.5°	444.0	531.0	644.1	763.6	876.7	1001.5	1165.4	1363.4	1449.7	1475.7
15°	260.7	345.0	478.8	638.9	783.7	910.1	1076.6	1301.1	1396.3	1422.5
17.5°	149.6	191.6	292.7	471.2	667.7	842.8	1048.7	1316.6	1428.7	1453.1
20°	114.3	127.6	168.7	303.5	532.2	776.8	1048.7	1404.4	1542.5	1578.3
22.5°	100.0	109.7	126.4	181.1	391.7	705.9	1060.9	1531.3	1711.9	1751.5
25°	88.7	97.6	111.9	136.2	267.2	621.7	1089.7	1687.1	1911.4	1962.6
27.5°	79.4	87.8	100.7	119.3	182.7	520.1	1128.6	1869.8	2131.3	2172.3
30°	71.1	79.0	90.7	103.8	141.0	404.8	1161.8	2042.1	2304.0	2348.2
32.5°	63.2	70.4	80.9	90.7	115.5	299.4	1165.4	2178.5	2447.4	2491.3
35°	55.8	62.3	71.8	79.4	95.7	236.4	1109.8	2296.9	2590.8	2648.7
37.5°	48.7	54.9	63.2	68.9	84.2	192.8	1024.9	2428.8	2774.7	2828.4
40°	42.0	47.5	56.1	59.9	79.7	148.1	932.5	2567.2	2955.1	3004.2
42.5°	35.8	41.0	49.4	56.8	69.9	110.7	832.8	2696.9	3117.3	3168.8
45°	29.8	35.3	43.7	60.1	58.0	82.8	726.2	2783.1	3245.4	3301.5
47.5°	24.1	30.3	41.7	57.3	46.3	60.8	641.7	2864.6	3342.5	3397.8
50°	19.3	25.5	47.0	51.1	37.9	46.5	606.4	2937.6	3406.2	3459.4
52.5°	15.7	21.5	44.4	39.1	31.7	38.4	625.5	3056.0	3465.1	3498.5
55°	13.1	16.9	26.7	27.2	27.0	32.7	649.1	3225.8	3617.5	3633.3
57.5°	11.5	13.6	18.6	21.0	22.7	29.1	649.6	3469.6	3853.5	3863.3
60°	9.8	11.9	15.5	16.9	19.6	26.0	626.0	3554.8	3946.3	3978.7
62.5°	8.6	10.5	12.9	14.1	16.5	23.4	570.6	3431.5	3818.9	3874.0
65°	7.6	9.5	10.7	11.9	14.6	21.0	479.5	3184.8	3607.5	3665.0
67.5°	6.7	8.3	9.5	10.7	13.1	18.6	353.1	2898.3	3364.9	3412.6
70°	6.0	7.4	8.6	9.5	11.5	15.7	214.2	2459.3	3029.5	3049.3
72.5°	5.7	6.7	7.9	8.6	10.0	13.8	108.5	1807.3	2421.9	2454.1
75°	5.0	6.0	7.2	7.6	8.8	11.9	44.1	1187.1	1755.1	1806.9
77.5°	4.1	5.5	6.4	6.9	7.6	9.8	22.4	758.6	1231.7	1265.1
80°	1.4	4.1	5.5	5.7	6.4	7.2	14.8	415.3	714.5	728.8
82.5°	0.0	2.6	4.3	4.1	4.5	5.5	9.5	197.5	471.6	476.9
85°	0.0	1.2	3.3	2.6	1.9	3.8	3.3	43.2	247.4	257.6
87.5°	0.0	0.0	0.2	1.2	1.0	1.4	0.5	0.2	22.4	28.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)