

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: P319916

Luminaire Tested: **GAN-SA2B-727-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319916
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9291 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

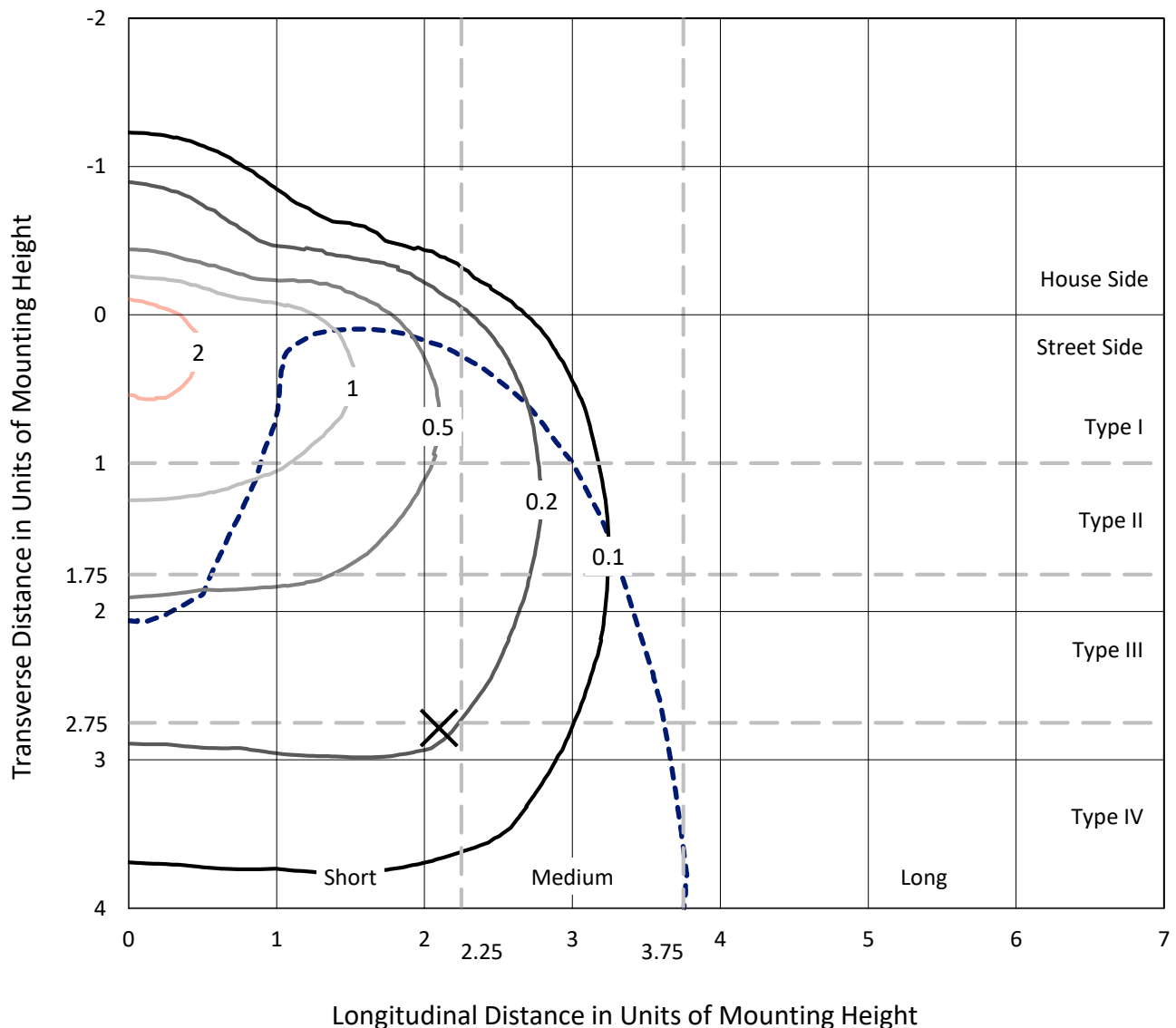
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319916
 CATALOG NUMBER: GAN-SA2B-727-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

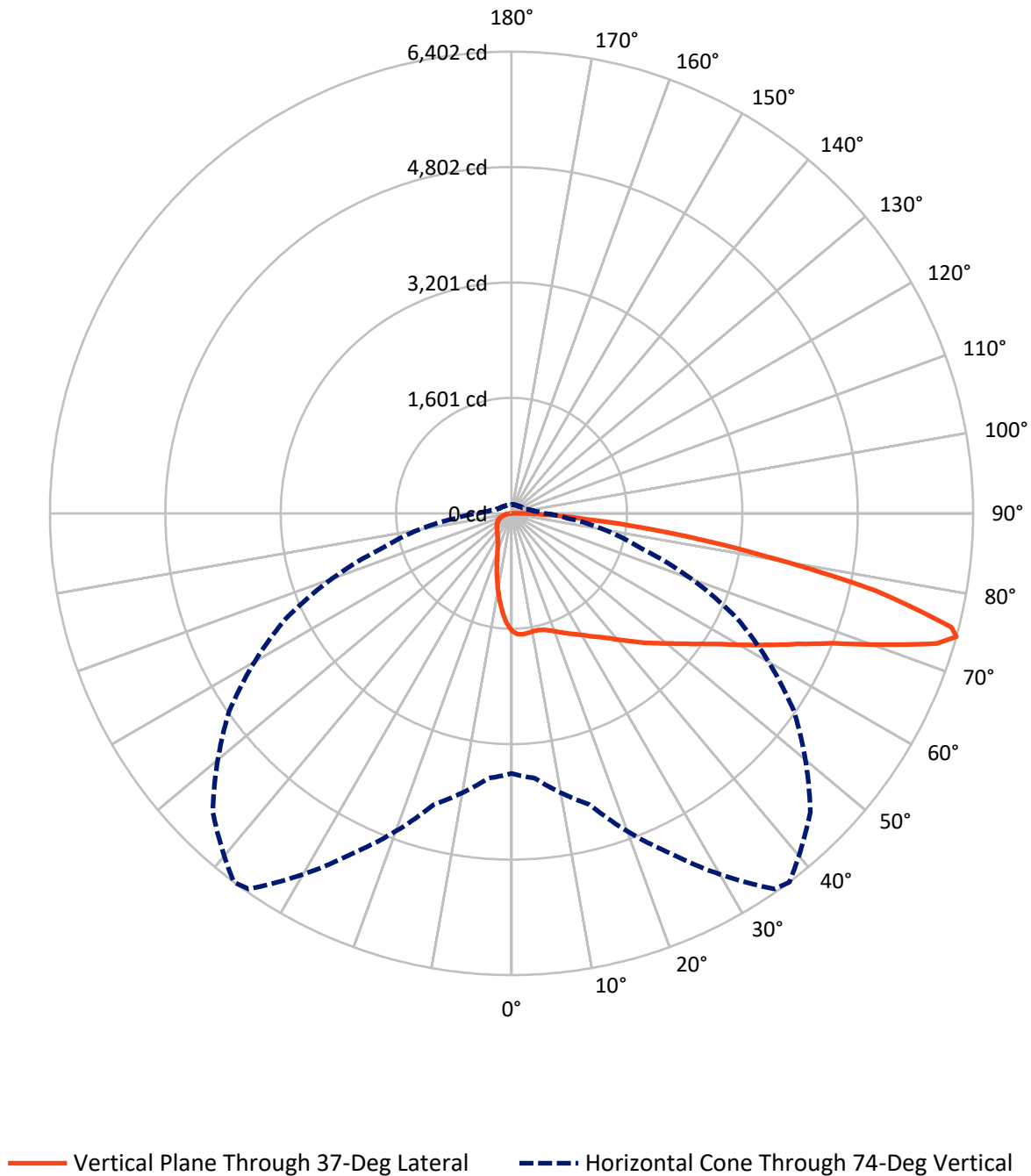
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P319916
CATALOG NUMBER: GAN-SA2B-727-U-SL4

Luminous Intensity Polar Plot



REPORT NUMBER: P319916

CATALOG NUMBER: GAN-SA2B-727-U-SL4

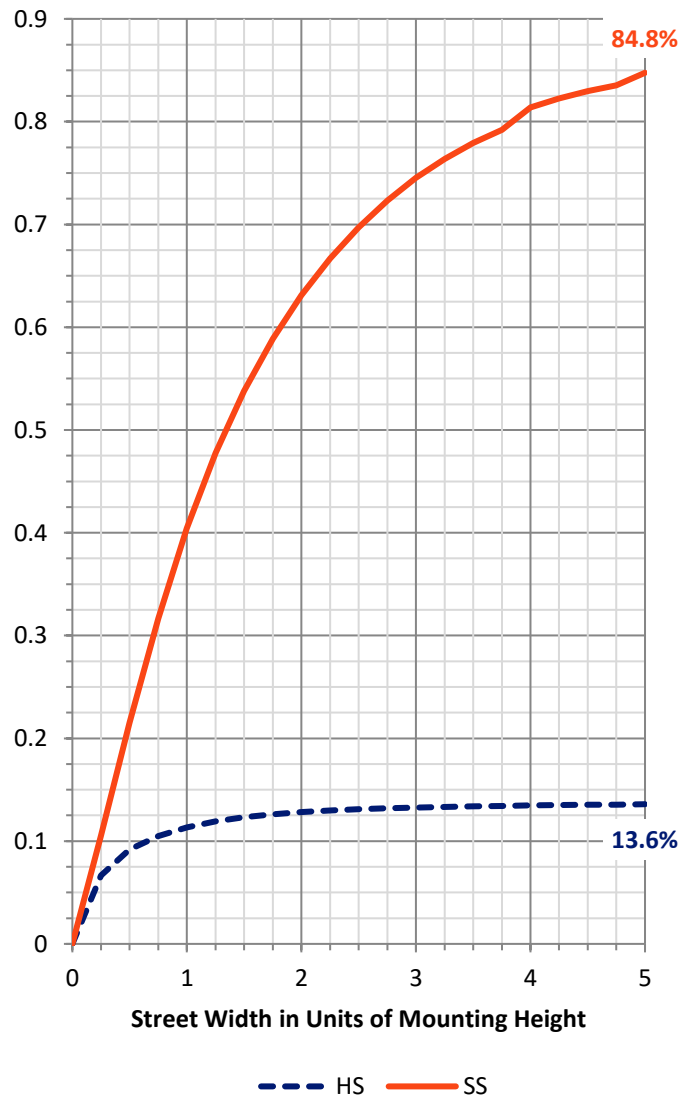
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1278.4	0.0	1278.4
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	8012.6	0.0	8012.6
	% Fixture	86.2	0.0	86.2
Total	Lumens	9291.0	0.0	9291.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.2	1.6
10°-20°	369.5	4.0
20°-30°	569.4	6.1
30°-40°	827.9	8.9
40°-50°	1218.6	13.1
50°-60°	1711.3	18.4
60°-70°	2165.9	23.3
70°-80°	1907.2	20.5
80°-90°	377.1	4.1
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°	9291.0	100.0
0°-180°	9291.0	100.0

Coefficient of Utilization



REPORT NUMBER: P319916

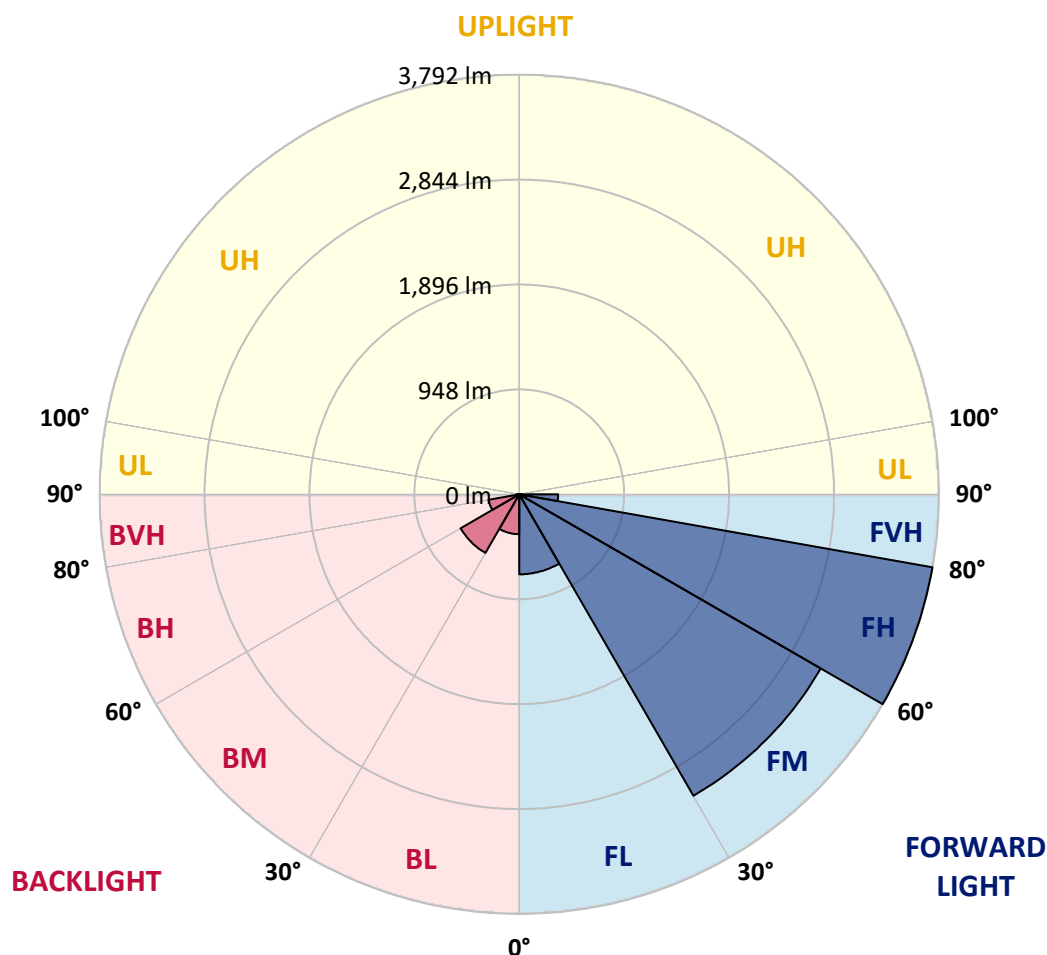
CATALOG NUMBER: GAN-SA2B-727-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	722.9	7.8			
FM	(30°-60°)	3146.0	33.9			
FH	(60°-80°)	3792.1	40.8			G2/5000
FVH	(80°-90°)	351.6	3.8			G3/500
BL	(0°-30°)	360.1	3.9	B1/500		
BM	(30°-60°)	611.8	6.6	B1/1000		
BH	(60°-80°)	281.0	3.0	B1/500		G1/500
BVH	(80°-90°)	25.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short



REPORT NUMBER: P319916

CATALOG NUMBER: GAN-SA2B-727-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	1637.0	1637.0	1637.0	1637.0	1637.0	1637.0	1637.0	1637.0	1637.0	1637.0	1637.0
2.5°	1693.0	1693.3	1693.0	1690.4	1684.2	1678.9	1674.7	1668.5	1654.7	1644.2	1628.5
5°	1709.0	1707.1	1705.8	1700.9	1691.0	1685.1	1677.0	1665.2	1642.6	1621.7	1596.1
7.5°	1701.5	1699.2	1696.3	1690.4	1679.3	1674.3	1662.9	1647.5	1620.3	1592.9	1556.2
10°	1678.3	1677.6	1676.3	1675.0	1665.5	1661.6	1651.1	1634.7	1607.9	1574.5	1531.7
12.5°	1652.4	1654.1	1659.3	1666.2	1661.9	1659.9	1653.4	1642.3	1614.8	1578.8	1527.1
15°	1636.1	1640.6	1654.7	1672.7	1676.3	1675.7	1674.0	1666.8	1637.7	1597.8	1537.5
17.5°	1630.5	1638.0	1664.9	1694.6	1705.1	1707.4	1708.1	1695.6	1663.2	1621.0	1548.3
20°	1640.6	1650.1	1689.4	1730.3	1747.0	1748.3	1745.4	1723.8	1687.4	1641.0	1554.2
22.5°	1671.4	1679.9	1729.0	1775.1	1794.1	1796.1	1787.3	1754.5	1713.0	1664.5	1562.4
25°	1730.6	1741.1	1790.2	1836.3	1846.2	1846.5	1833.7	1793.1	1746.3	1697.6	1580.1
27.5°	1807.9	1818.3	1862.5	1907.7	1902.5	1899.5	1882.2	1841.6	1789.9	1743.1	1611.5
30°	1894.0	1905.4	1947.3	1979.4	1966.9	1961.0	1947.0	1894.6	1850.4	1805.3	1659.6
32.5°	1983.0	1993.4	2030.1	2052.0	2036.3	2033.7	2012.4	1964.6	1929.3	1900.2	1737.5
35°	2074.3	2081.8	2117.8	2130.2	2109.3	2108.6	2102.8	2058.9	2036.6	2050.4	1850.7
37.5°	2167.6	2169.5	2200.3	2200.9	2194.7	2197.3	2203.6	2176.1	2182.3	2225.2	1998.0
40°	2250.7	2255.9	2278.2	2285.0	2295.8	2305.0	2336.1	2318.1	2366.2	2442.1	2181.3
42.5°	2312.2	2322.4	2358.0	2375.7	2410.7	2425.1	2469.0	2485.7	2582.5	2696.4	2399.3
45°	2364.2	2380.0	2437.2	2473.6	2532.8	2558.0	2620.8	2676.8	2827.0	2972.3	2628.7
47.5°	2420.5	2440.5	2512.2	2581.6	2662.1	2690.5	2804.8	2888.5	3087.9	3249.9	2845.0
50°	2503.3	2518.7	2588.8	2697.7	2798.2	2834.9	2992.9	3113.1	3353.0	3514.3	3032.5
52.5°	2618.9	2613.0	2672.2	2825.1	2959.9	3005.1	3193.9	3352.0	3621.6	3753.5	3190.9
55°	2735.1	2725.2	2766.8	2958.3	3148.4	3195.9	3415.1	3591.9	3877.2	3968.9	3312.4
57.5°	2864.3	2845.7	2880.7	3108.5	3363.1	3419.7	3662.9	3846.8	4128.6	4143.0	3389.6
60°	2997.5	2972.3	3011.6	3294.7	3635.7	3702.5	3952.8	4095.5	4365.5	4282.4	3414.5
62.5°	3114.0	3096.4	3156.9	3502.5	3943.0	4016.3	4237.6	4360.0	4599.2	4340.3	3324.8
65°	3215.8	3218.8	3323.5	3736.2	4285.7	4363.9	4564.2	4685.9	4783.1	4306.0	3115.0
67.5°	3337.2	3353.9	3532.6	4043.8	4717.0	4802.8	5039.4	5041.4	4885.9	4104.4	2702.0
70°	3514.3	3548.7	3820.3	4470.6	5330.4	5448.2	5630.8	5250.2	4741.6	3557.8	2126.0
72.5°	3671.4	3735.5	4126.3	4958.9	6077.9	6167.2	5976.7	5129.7	4138.4	2666.3	1324.5
74°	3607.6	3687.1	4181.9	5199.4	6359.3	6402.2	5859.9	4778.2	3450.5	1846.5	769.8
75°	3470.1	3556.5	4100.8	5197.2	6323.6	6299.7	5577.8	4376.7	2841.7	1259.4	512.2
77.5°	2800.5	2891.8	3455.4	4454.2	5185.0	5162.5	4284.7	2936.0	1244.6	413.0	260.2
80°	1628.2	1697.9	2145.0	2828.7	3496.3	3537.2	2817.9	1452.8	489.6	232.0	176.4
82.5°	723.3	771.4	1036.2	1443.9	2110.0	2162.6	1475.7	761.2	302.4	141.1	106.0
85°	474.6	510.2	629.0	687.6	1004.7	1040.7	722.3	592.7	199.6	77.6	77.9
87.5°	341.3	375.7	467.4	408.1	461.1	436.6	393.1	548.5	80.2	44.2	26.2
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: P319916

CATALOG NUMBER: GAN-SA2B-727-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1637.0	1637.0	1637.0	1637.0	1637.0	1637.0	1637.0	1637.0	1637.0	1637.0	1637.0
2.5°	1621.7	1616.4	1604.6	1582.4	1569.9	1559.5	1542.1	1532.0	1527.4	1527.1	1529.0
5°	1581.4	1569.3	1538.9	1501.5	1471.8	1444.6	1410.9	1390.6	1376.2	1367.7	1370.0
7.5°	1534.6	1515.6	1467.8	1408.3	1360.5	1307.8	1255.8	1224.7	1200.5	1182.5	1185.7
10°	1502.5	1476.3	1406.6	1320.9	1241.4	1164.8	1093.1	1050.2	1016.2	990.0	992.0
12.5°	1491.7	1456.4	1359.8	1245.3	1133.7	1029.0	935.4	869.6	834.6	804.8	807.1
15°	1493.4	1445.9	1320.6	1177.2	1036.8	904.9	791.4	714.4	667.0	646.4	646.7
17.5°	1494.7	1433.8	1279.3	1104.2	940.9	789.1	665.7	587.8	543.0	524.0	524.3
20°	1490.4	1414.2	1228.3	1020.4	840.8	682.7	563.2	497.1	463.1	448.4	448.4
22.5°	1484.9	1390.9	1170.7	936.3	741.9	590.4	489.9	439.5	419.9	410.1	409.8
25°	1487.5	1373.6	1111.8	849.9	651.0	516.8	441.2	407.8	394.7	388.5	388.2
27.5°	1501.5	1365.4	1057.4	763.9	571.4	461.5	408.4	384.9	376.4	372.4	372.4
30°	1527.1	1365.4	1000.8	690.6	505.3	420.6	383.2	367.2	361.3	358.7	358.7
32.5°	1571.6	1372.9	946.2	617.9	452.6	388.5	362.3	351.5	346.9	345.6	345.6
35°	1648.2	1398.5	892.8	549.2	410.1	362.3	342.3	336.1	332.8	332.5	333.5
37.5°	1755.8	1450.5	842.7	498.4	380.0	341.0	325.6	320.7	318.8	320.4	321.7
40°	1891.3	1521.2	797.2	452.6	357.1	324.0	310.3	307.0	306.0	308.3	310.3
42.5°	2055.0	1616.7	759.9	419.6	339.4	309.6	297.2	293.2	292.3	294.9	297.5
45°	2232.0	1719.5	733.8	395.0	325.6	298.8	285.7	281.5	279.5	280.8	283.7
47.5°	2393.0	1816.7	723.3	377.7	312.5	289.6	275.6	270.3	267.1	266.4	268.7
50°	2528.9	1889.0	728.2	367.2	302.1	279.5	265.7	259.9	254.9	252.0	253.6
52.5°	2627.7	1934.5	732.8	362.6	293.9	268.4	254.9	249.4	242.8	237.9	237.9
55°	2699.4	1945.0	722.6	359.0	287.7	256.3	242.8	237.6	231.1	225.5	224.8
57.5°	2727.5	1915.6	685.0	353.8	283.4	244.8	230.1	226.1	220.6	214.0	213.7
60°	2689.6	1824.6	612.3	342.7	277.9	235.3	217.3	214.7	212.1	205.9	205.5
62.5°	2537.0	1624.9	518.4	320.1	266.7	225.2	205.5	206.8	207.2	202.9	202.3
65°	2260.5	1350.7	426.8	290.6	250.0	213.1	193.4	199.6	203.2	202.6	201.6
67.5°	1858.6	1051.2	361.6	259.5	228.1	196.4	180.3	187.5	190.5	192.8	192.1
70°	1379.5	741.3	299.1	226.8	201.6	176.7	163.3	166.9	164.9	167.6	168.5
72.5°	769.1	444.8	243.8	194.1	174.1	153.8	144.3	143.7	139.4	139.4	139.4
74°	461.5	326.3	214.4	173.8	157.4	138.8	130.6	127.6	123.7	124.0	123.7
75°	371.1	280.5	196.7	160.4	145.6	129.9	121.7	117.8	114.9	114.9	114.5
77.5°	234.3	213.1	158.4	127.6	116.5	107.0	101.5	96.2	96.2	95.9	95.6
80°	177.1	169.5	123.4	96.5	89.3	82.1	78.5	76.3	76.3	77.2	76.9
82.5°	121.4	127.6	86.7	67.4	63.8	58.6	57.9	58.3	57.3	56.0	55.6
85°	88.7	95.9	58.6	42.5	38.9	35.7	38.3	39.6	38.0	35.0	33.7
87.5°	34.0	62.8	31.4	17.7	16.4	14.1	16.4	17.0	18.3	14.4	14.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)