

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: P318189

Luminaire Tested: **GAN-SA5A-827-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318189
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16802 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

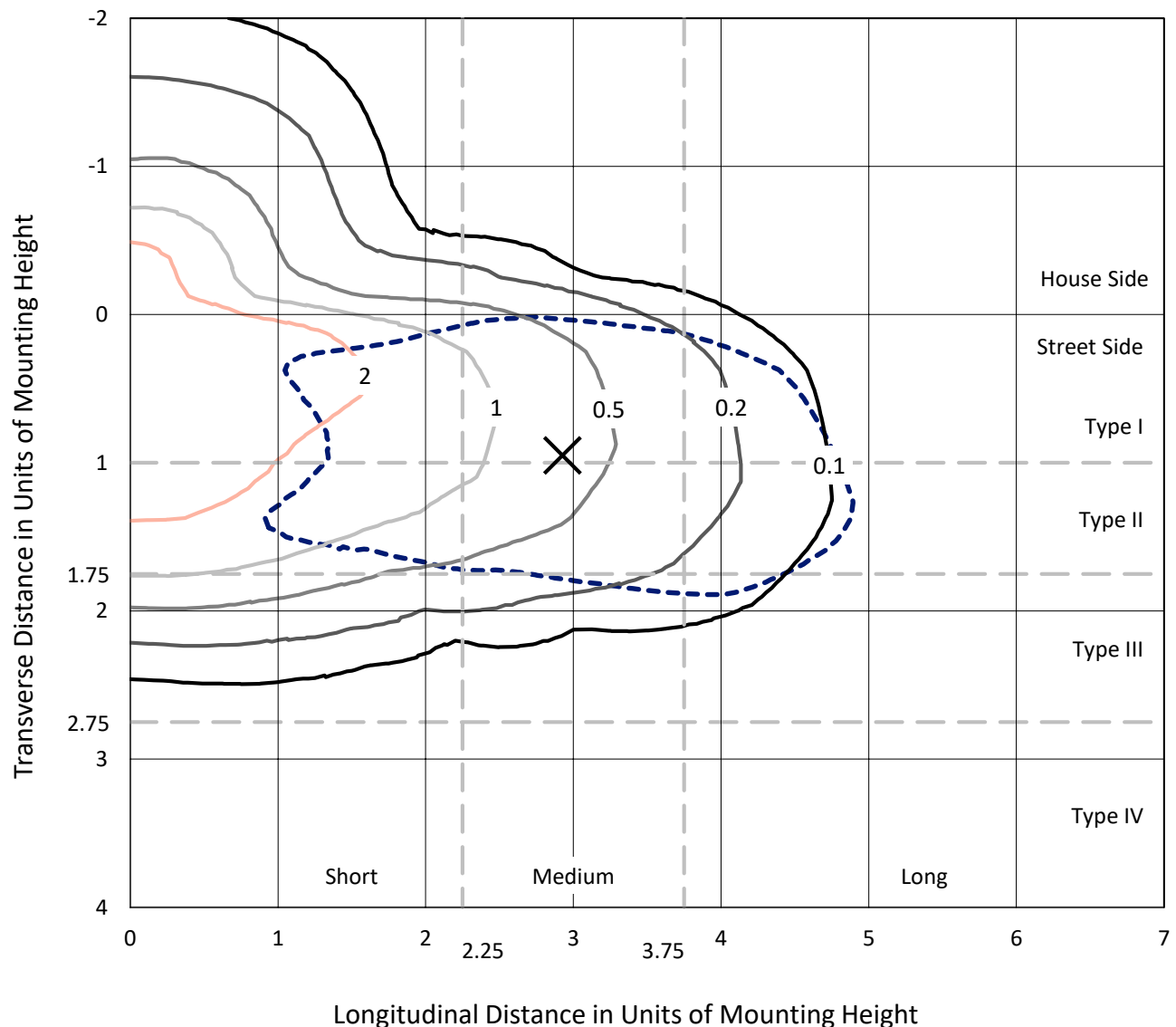
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318189
 CATALOG NUMBER: GAN-SA5A-827-U-T2

Iso-Footcandle Lines of Horizontal Illumination

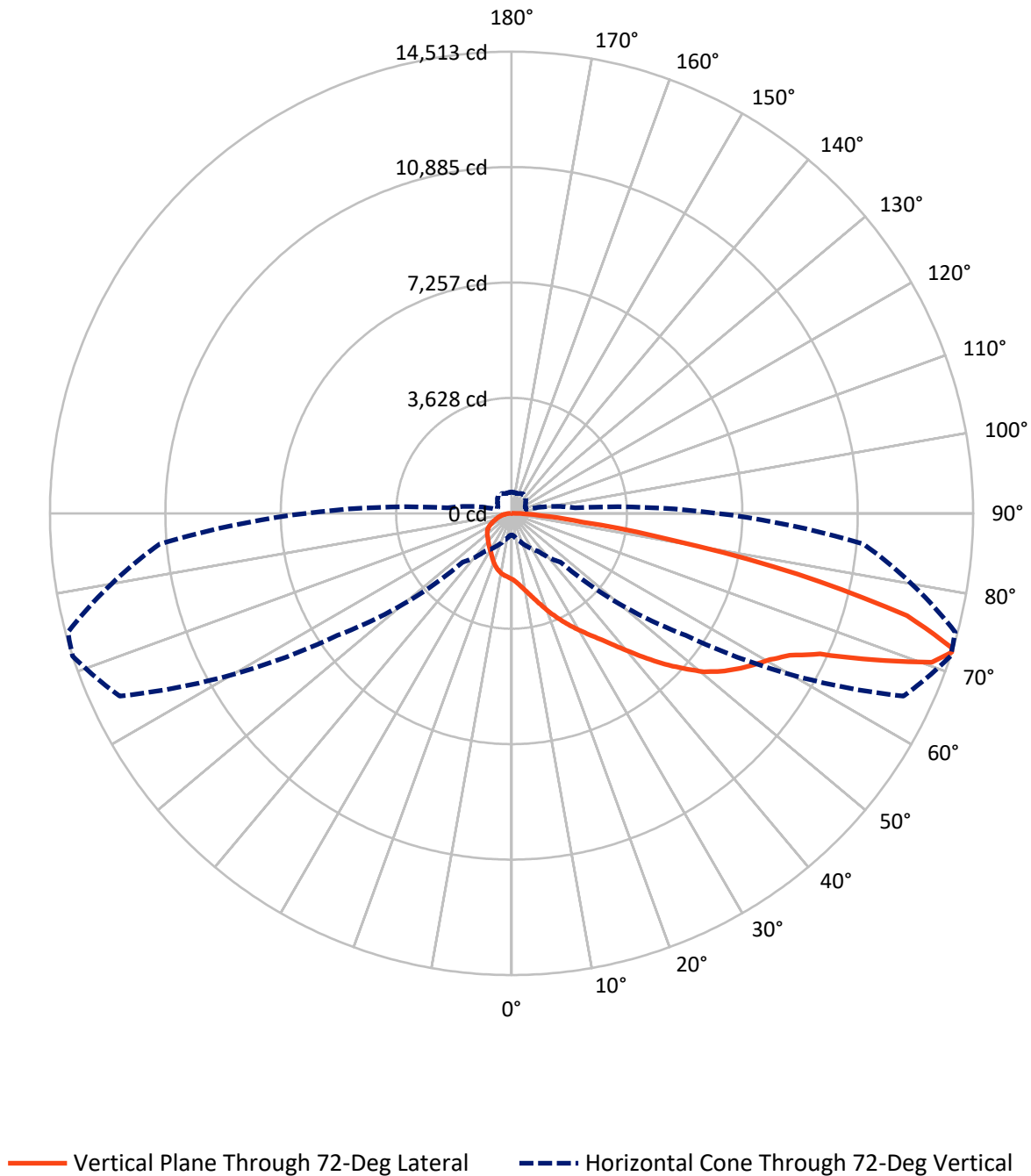
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Medium - N/A

REPORT NUMBER: P318189
CATALOG NUMBER: GAN-SA5A-827-U-T2

Luminous Intensity Polar Plot



REPORT NUMBER: P318189

CATALOG NUMBER: GAN-SA5A-827-U-T2

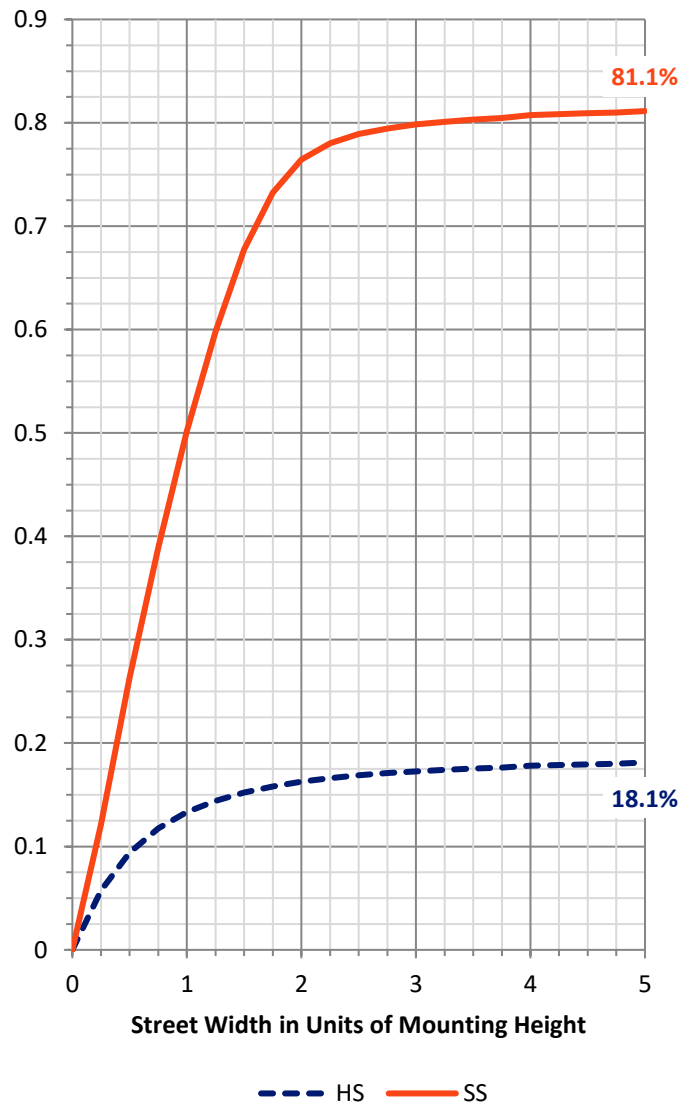
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3116.9	0.0	3116.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	13685.1	0.0	13685.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	16802.0	0.0	16802.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.1	1.2
10°-20°	669.3	4.0
20°-30°	1172.9	7.0
30°-40°	1739.0	10.4
40°-50°	2543.5	15.1
50°-60°	3499.8	20.8
60°-70°	3896.3	23.2
70°-80°	2640.1	15.7
80°-90°	433.9	2.6
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°	16802.0	100.0
0°-180°	16802.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318189

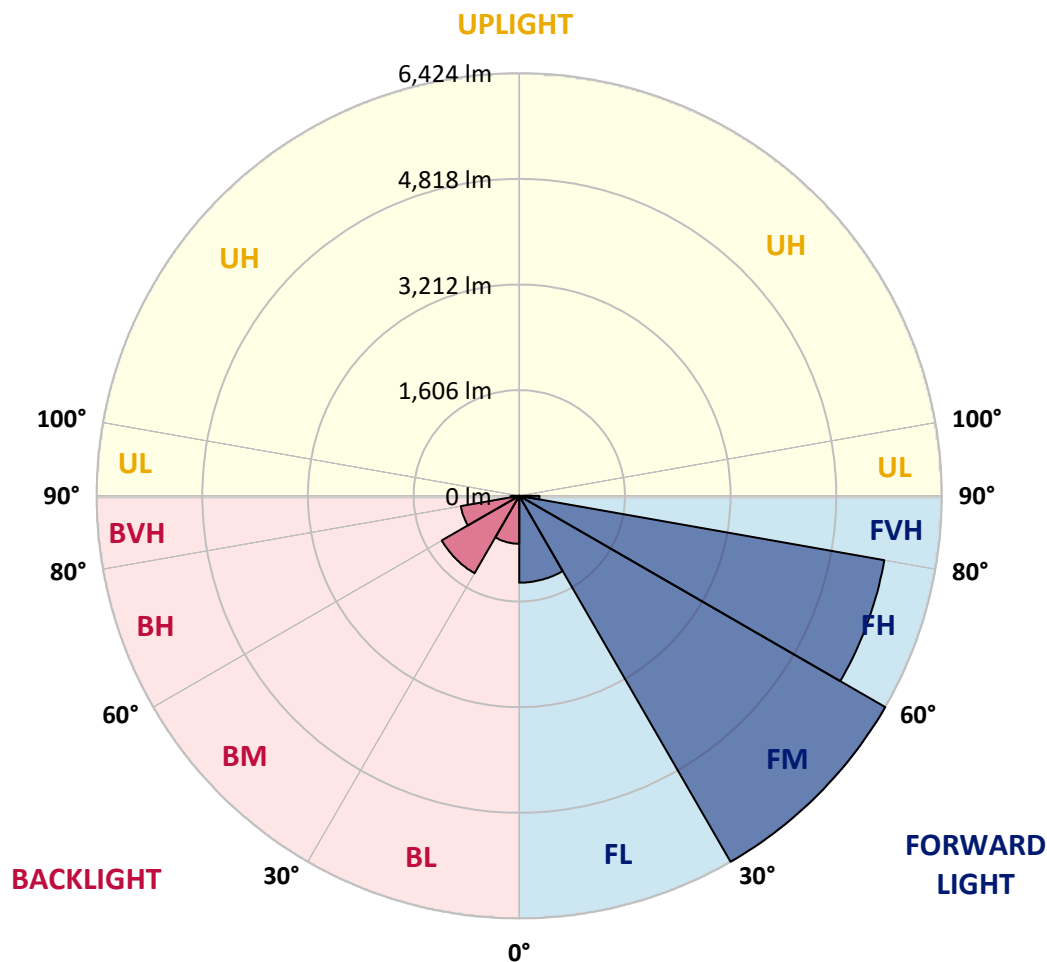
CATALOG NUMBER: GAN-SA5A-827-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1320.7	7.9			
FM	(30°-60°)	6423.6	38.2			
FH	(60°-80°)	5634.7	33.5			G3/7500
FVH	(80°-90°)	306.1	1.8			G3/500
BL	(0°-30°)	728.6	4.3	B2/1000		
BM	(30°-60°)	1358.7	8.1	B2/2500		
BH	(60°-80°)	901.8	5.4	B2/1000		G2/1000
BVH	(80°-90°)	127.8	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





REPORT NUMBER: P318189

CATALOG NUMBER: GAN-SA5A-827-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2067.1	2067.1	2067.1	2067.1	2067.1	2067.1	2067.1	2067.1	2067.1	2067.1	2067.1
2.5°	2283.5	2280.0	2267.8	2267.8	2244.7	2225.0	2188.0	2163.1	2133.6	2123.2	2088.5
5°	2504.5	2505.6	2490.6	2480.2	2446.0	2404.4	2341.3	2284.0	2226.8	2203.6	2132.5
7.5°	2690.2	2687.8	2683.8	2675.1	2643.3	2600.5	2515.4	2430.4	2345.9	2311.2	2188.6
10°	2809.3	2814.5	2818.0	2822.1	2808.8	2778.1	2697.7	2594.1	2483.6	2436.2	2255.7
12.5°	2869.5	2878.8	2895.0	2922.7	2944.7	2941.2	2882.8	2772.9	2641.6	2582.0	2339.6
15°	2904.8	2916.9	2942.4	2992.2	3054.1	3089.3	3073.7	2974.2	2827.9	2754.4	2442.0
17.5°	2926.8	2936.6	2976.0	3042.5	3134.5	3228.2	3269.3	3186.0	3038.4	2954.5	2559.4
20°	2941.8	2949.3	2998.5	3076.6	3195.8	3345.1	3459.6	3438.8	3270.4	3161.7	2682.1
22.5°	2975.4	2981.7	3028.6	3107.3	3239.2	3431.8	3643.0	3674.2	3515.1	3391.9	2813.4
25°	3069.1	3069.1	3108.4	3163.4	3287.2	3507.0	3798.0	3936.3	3765.1	3621.6	2934.9
27.5°	3247.9	3246.1	3260.6	3279.7	3373.4	3583.4	3936.3	4167.7	4024.2	3867.5	3052.9
30°	3459.6	3471.2	3472.9	3463.7	3507.6	3678.9	4064.2	4411.9	4285.2	4116.2	3173.8
32.5°	3732.1	3739.6	3730.9	3700.3	3693.9	3814.2	4189.7	4667.6	4567.5	4376.0	3284.3
35°	4078.1	4063.6	4036.4	3973.9	3914.3	3995.3	4333.2	4923.3	4884.5	4690.1	3436.5
37.5°	4448.9	4449.5	4415.9	4274.2	4192.0	4226.7	4531.0	5213.1	5268.1	5063.9	3631.4
40°	4746.3	4761.9	4782.7	4596.4	4490.0	4538.0	4782.7	5549.3	5721.7	5507.0	3885.4
42.5°	4953.9	4971.9	5030.9	4914.0	4803.5	4892.6	5078.9	5907.9	6230.8	6018.4	4182.8
45°	5173.8	5183.6	5225.3	5174.9	5104.4	5305.1	5412.7	6279.4	6769.4	6563.4	4515.4
47.5°	5405.2	5415.6	5458.4	5424.9	5387.8	5690.4	5761.0	6629.4	7285.4	7162.2	4870.6
50°	5691.0	5697.9	5738.4	5677.7	5689.3	5980.8	6072.2	6950.4	7826.3	7700.2	5227.0
52.5°	6080.9	6082.7	6138.8	6083.8	6029.4	6193.7	6340.1	7253.0	8250.4	8190.8	5583.4
55°	6386.4	6404.9	6588.9	6577.3	6546.1	6387.0	6564.0	7541.1	8628.8	8657.1	5961.7
57.5°	6191.4	6263.7	6636.3	6899.0	7154.7	6867.7	6866.6	7865.7	8980.5	9114.7	6377.7
60°	5422.6	5520.9	6069.9	6652.5	7452.6	7704.3	7494.8	8262.0	9335.7	9568.3	6899.0
62.5°	3872.7	4034.7	4778.7	5708.9	7044.2	8258.5	8773.4	8890.8	9818.8	10093.6	7576.4
65°	1957.7	2080.4	2704.0	3824.7	5627.9	7896.3	10163.0	10267.7	10658.2	10902.4	8619.5
67.5°	1189.5	1235.7	1540.0	2127.3	3450.3	6150.9	10616.6	12562.8	12282.8	12412.3	10106.9
70°	876.5	910.6	1100.4	1412.8	1984.4	3609.4	9224.6	14200.6	14016.6	14002.1	11206.1
72°	682.7	707.5	875.3	1141.4	1451.0	2165.4	6686.1	13596.0	14513.0	14440.1	11105.4
72.5°	647.4	669.4	822.1	1074.3	1371.1	1962.9	6011.5	13188.1	14477.1	14444.1	10975.3
75°	509.7	525.3	608.6	830.8	1073.2	1113.7	3294.1	10220.3	12842.8	13376.7	9871.4
77.5°	421.7	424.1	468.0	604.6	836.6	787.4	1618.1	7091.0	9196.3	9783.5	6992.7
80°	343.6	346.5	367.4	424.1	632.9	582.6	768.3	4077.5	5148.9	5155.3	3325.4
82.5°	273.6	274.2	297.4	310.1	454.7	416.5	440.3	1914.4	2249.9	2164.3	1195.2
85°	192.7	188.6	290.4	254.6	297.4	267.3	243.0	757.9	930.3	889.8	374.3
87.5°	64.2	66.5	129.0	164.9	173.6	151.6	108.2	290.4	351.2	348.3	118.6
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: P318189

CATALOG NUMBER: GAN-SA5A-827-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2067.1	2067.1	2067.1	2067.1	2067.1	2067.1	2067.1	2067.1	2067.1	2067.1	2067.1
2.5°	2077.5	2059.0	2031.8	2001.7	1978.0	1953.7	1935.8	1926.5	1916.1	1907.4	1917.8
5°	2099.5	2064.8	2006.9	1950.2	1908.6	1871.5	1844.9	1831.0	1818.3	1809.6	1810.8
7.5°	2135.4	2079.2	1982.0	1899.3	1841.5	1801.5	1774.3	1765.1	1757.0	1754.7	1757.6
10°	2173.5	2090.8	1949.1	1839.1	1773.2	1740.2	1728.1	1734.4	1740.2	1745.4	1751.2
12.5°	2216.9	2101.2	1901.0	1768.6	1712.4	1699.7	1711.9	1739.6	1759.9	1772.0	1779.6
15°	2273.6	2110.5	1845.5	1698.0	1660.4	1674.8	1715.9	1763.9	1799.2	1821.8	1825.3
17.5°	2325.7	2109.9	1774.3	1626.8	1618.1	1660.4	1722.3	1790.0	1837.4	1869.2	1875.6
20°	2379.5	2094.3	1691.6	1557.4	1575.3	1644.8	1725.2	1806.7	1864.0	1901.0	1909.7
22.5°	2429.8	2067.1	1600.8	1494.3	1539.5	1623.9	1714.2	1796.9	1854.2	1884.3	1893.5
25°	2464.0	2019.6	1508.8	1441.1	1507.6	1598.5	1678.3	1744.8	1787.7	1802.7	1805.0
27.5°	2481.3	1957.7	1422.0	1394.8	1474.7	1556.8	1611.8	1644.8	1656.9	1655.8	1653.4
30°	2483.6	1876.2	1347.4	1357.2	1436.5	1495.5	1521.5	1515.2	1499.5	1472.9	1475.2
32.5°	2476.1	1784.2	1284.9	1321.4	1387.9	1420.9	1422.0	1391.4	1349.7	1307.5	1295.9
35°	2478.4	1693.9	1230.0	1280.9	1328.9	1343.3	1330.0	1284.9	1228.2	1173.8	1162.3
37.5°	2503.9	1615.3	1182.5	1234.0	1263.5	1267.0	1247.9	1200.4	1158.8	1105.6	1100.9
40°	2564.6	1559.1	1137.4	1181.4	1198.1	1199.9	1172.7	1139.1	1142.6	1114.2	1113.7
42.5°	2674.0	1534.8	1097.5	1126.4	1136.8	1140.3	1119.5	1098.0	1128.1	1109.6	1103.3
45°	2815.1	1540.6	1063.9	1072.6	1091.7	1107.9	1095.2	1069.1	1080.7	1000.3	973.7
47.5°	2978.3	1577.6	1037.3	1026.3	1059.3	1089.9	1070.3	1030.9	989.9	910.0	895.0
50°	3169.2	1634.9	1013.0	980.6	1024.0	1065.7	1046.0	989.9	928.0	889.2	884.0
52.5°	3368.2	1704.9	988.7	930.3	979.4	1047.1	1037.3	980.6	904.2	866.1	859.1
55°	3593.8	1775.5	958.0	871.8	931.4	1038.5	1033.3	947.1	886.3	864.9	859.7
57.5°	3874.4	1855.9	917.5	811.1	886.3	1007.2	991.0	926.8	867.8	851.6	849.9
60°	4240.0	1974.5	859.1	746.3	831.3	959.2	955.7	897.3	838.3	826.7	824.4
62.5°	4788.5	2170.6	778.7	681.5	770.0	877.6	909.4	857.4	807.0	806.5	807.6
65°	5638.9	2465.7	691.3	624.8	708.1	808.8	855.6	816.3	775.2	786.8	788.5
67.5°	6624.7	2710.4	605.7	569.3	645.1	743.4	807.0	775.2	733.0	763.1	763.7
70°	6952.8	2491.7	530.5	514.3	579.7	680.4	754.4	730.1	687.3	717.4	714.5
72°	6470.3	2011.5	481.9	472.7	530.5	628.3	707.5	687.9	645.6	665.9	658.4
72.5°	6318.1	1917.8	469.8	462.2	517.2	615.0	695.4	677.5	635.2	652.6	645.6
75°	5636.0	1665.6	403.8	405.5	451.3	550.2	627.1	621.3	578.0	579.7	577.4
77.5°	4087.9	1221.3	340.2	351.7	384.1	483.7	558.3	554.8	507.4	498.7	497.0
80°	1897.0	623.1	277.1	282.3	315.9	404.4	476.1	471.5	433.3	422.3	416.0
82.5°	649.7	296.2	208.3	211.7	244.7	325.7	413.1	410.2	378.4	357.0	343.6
85°	232.0	147.5	145.8	142.3	174.7	256.3	359.8	344.2	297.4	253.4	252.2
87.5°	75.2	63.1	75.2	74.6	101.8	173.6	261.5	222.7	215.8	179.3	175.9
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)