

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: P318226

Luminaire Tested: **GAN-SA2A-830-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318226
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-SA2A-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7435 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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

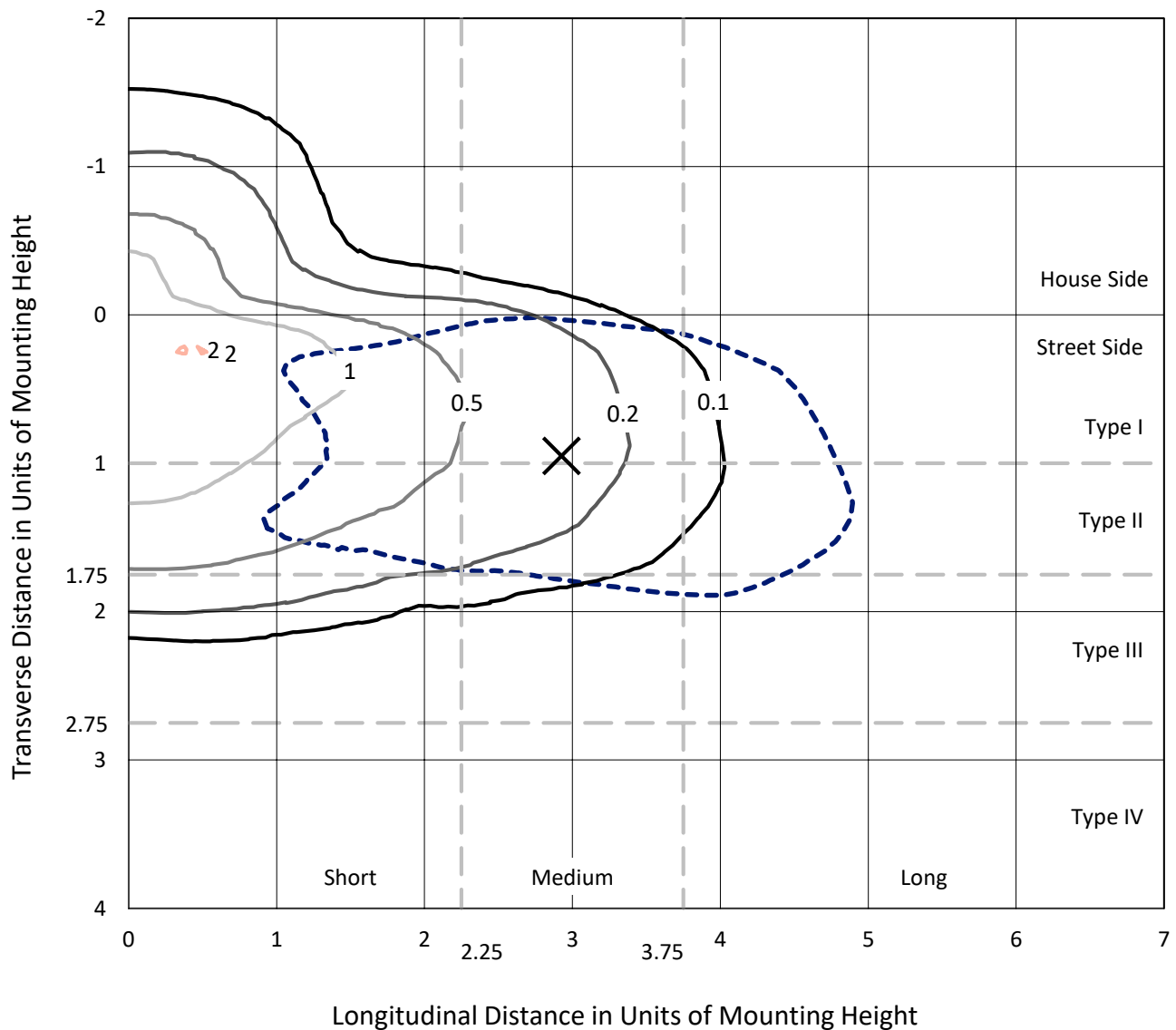


REPORT NUMBER: P318226

CATALOG NUMBER: GAN-SA2A-830-U-T2

Iso-Footcandle Lines of Horizontal Illumination

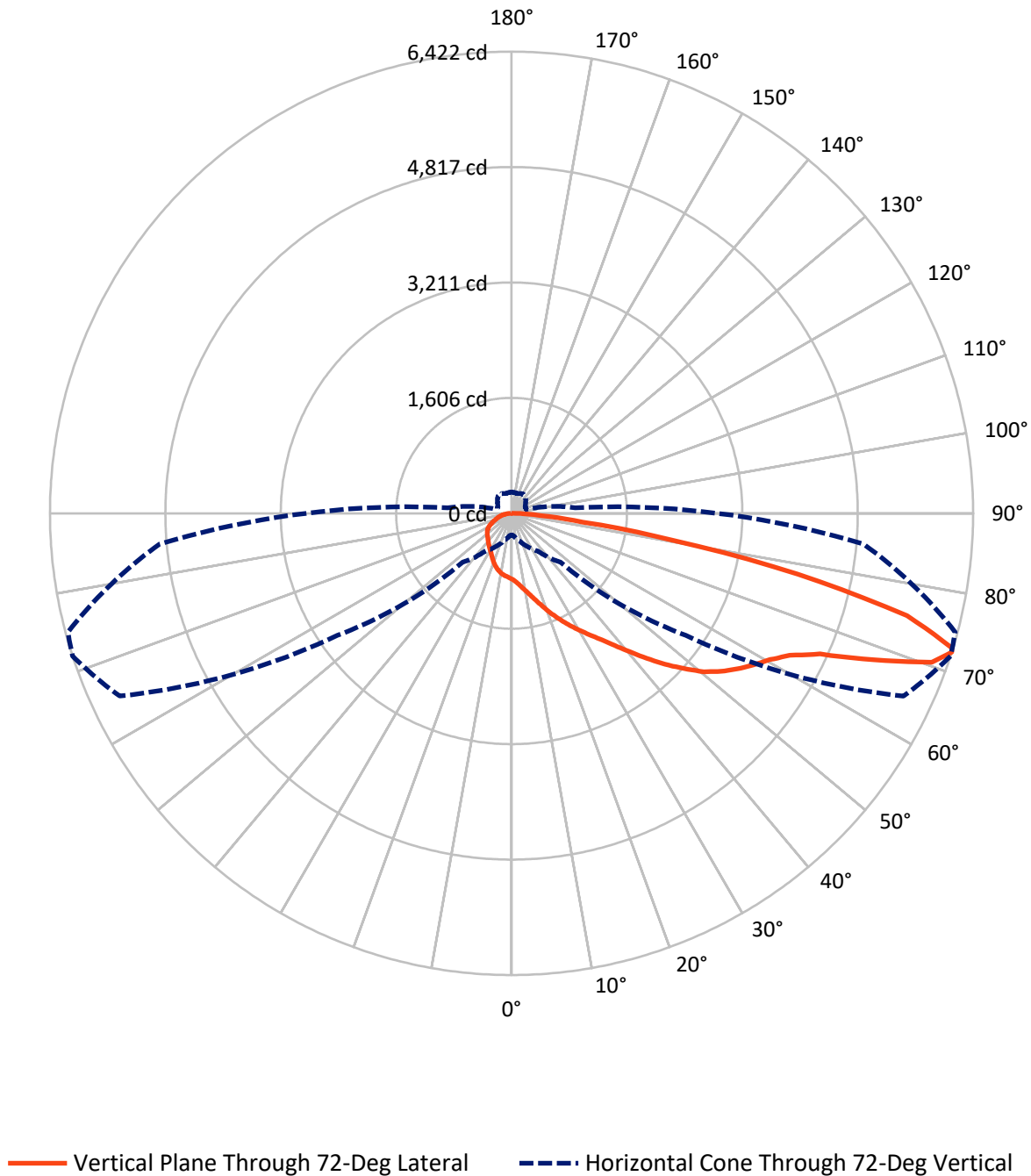
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type III - Medium - N/A

REPORT NUMBER: P318226
CATALOG NUMBER: GAN-SA2A-830-U-T2

Luminous Intensity Polar Plot



REPORT NUMBER: P318226

CATALOG NUMBER: GAN-SA2A-830-U-T2

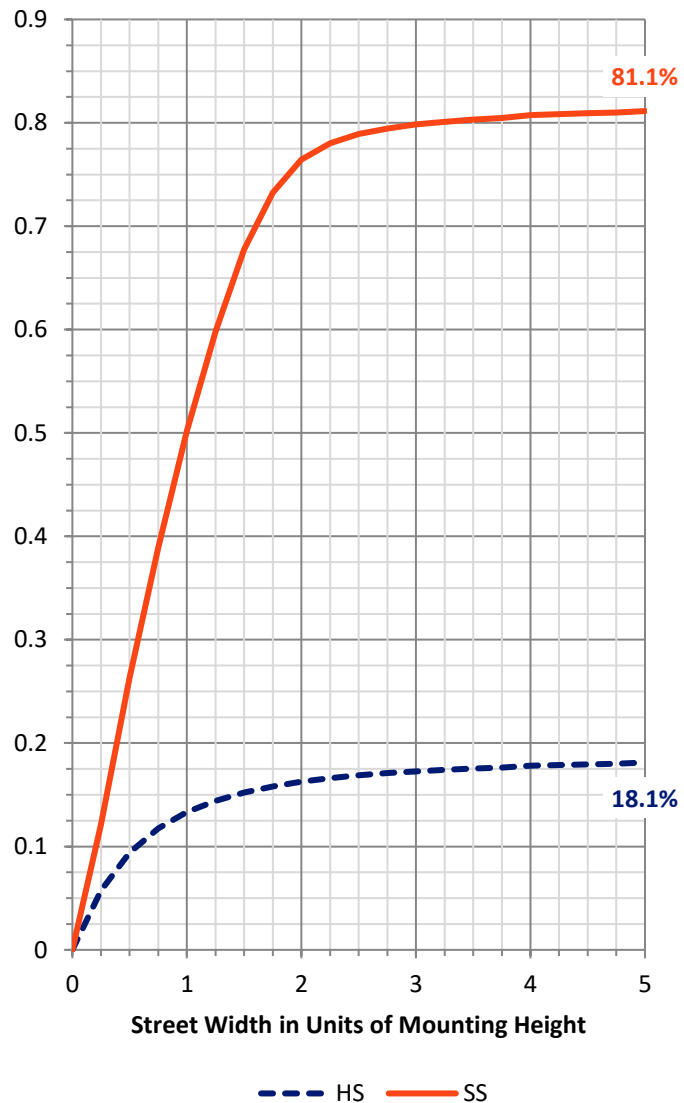
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1379.2	0.0	1379.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	6055.8	0.0	6055.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	7435.0	0.0	7435.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.7	1.2
10°-20°	296.2	4.0
20°-30°	519.0	7.0
30°-40°	769.5	10.4
40°-50°	1125.5	15.1
50°-60°	1548.7	20.8
60°-70°	1724.1	23.2
70°-80°	1168.3	15.7
80°-90°	192.0	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°	7435.0	100.0
0°-180°	7435.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318226

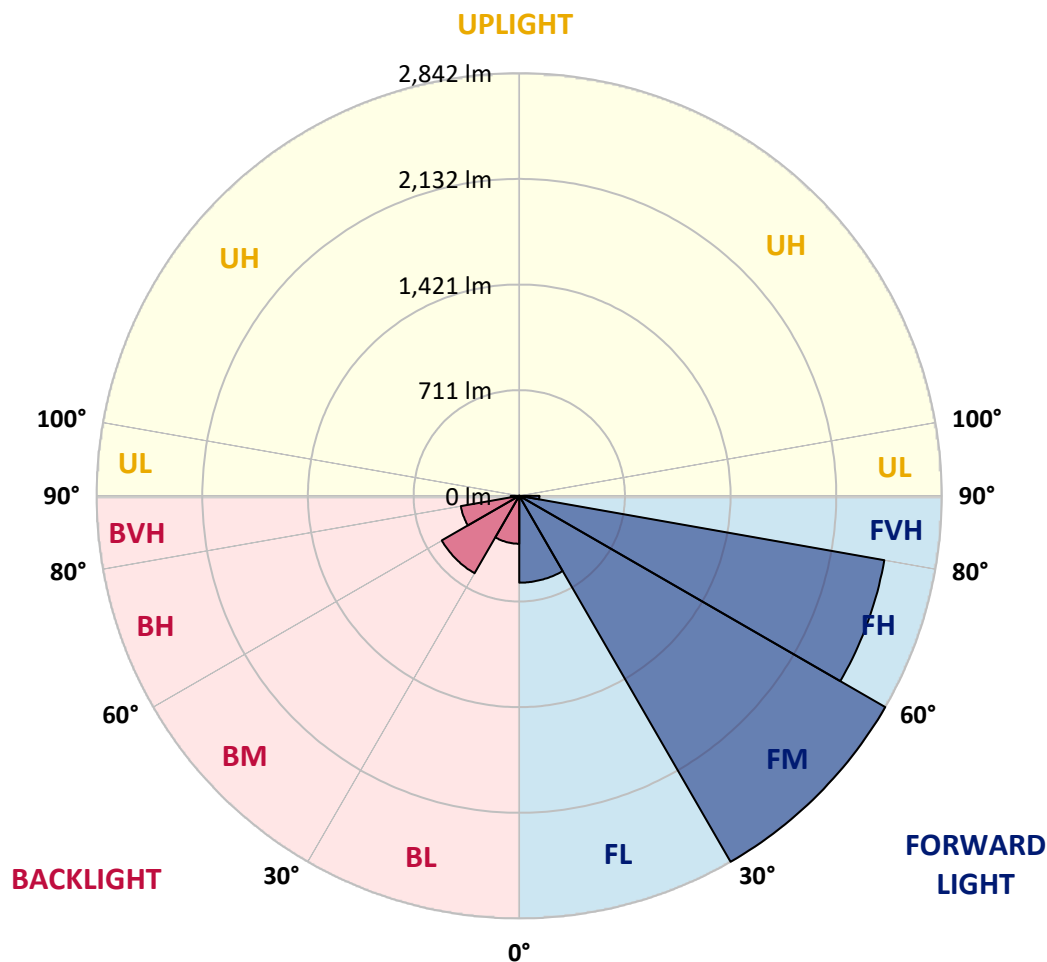
CATALOG NUMBER: GAN-SA2A-830-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	584.4	7.9			
FM	(30°-60°)	2842.5	38.2			
FH	(60°-80°)	2493.4	33.5			G2/5000
FVH	(80°-90°)	135.4	1.8			G2/225
BL	(0°-30°)	322.4	4.3	B1/500		
BM	(30°-60°)	601.2	8.1	B1/1000		
BH	(60°-80°)	399.0	5.4	B1/500		G1/500
BVH	(80°-90°)	56.6	0.8			G1/100
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: P318226

CATALOG NUMBER: GAN-SA2A-830-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	914.7	914.7	914.7	914.7	914.7	914.7	914.7	914.7	914.7	914.7	914.7
2.5°	1010.4	1008.9	1003.5	1003.5	993.3	984.6	968.2	957.2	944.1	939.5	924.2
5°	1108.2	1108.7	1102.1	1097.5	1082.4	1063.9	1036.0	1010.7	985.4	975.1	943.6
7.5°	1190.4	1189.4	1187.6	1183.8	1169.7	1150.7	1113.1	1075.5	1038.1	1022.7	968.5
10°	1243.2	1245.5	1247.0	1248.8	1242.9	1229.3	1193.7	1147.9	1099.0	1078.0	998.2
12.5°	1269.8	1273.9	1281.0	1293.3	1303.1	1301.5	1275.7	1227.0	1168.9	1142.5	1035.3
15°	1285.4	1290.8	1302.0	1324.0	1351.4	1367.1	1360.1	1316.1	1251.3	1218.8	1080.6
17.5°	1295.1	1299.5	1316.9	1346.3	1387.0	1428.5	1446.7	1409.8	1344.5	1307.4	1132.6
20°	1301.8	1305.1	1326.9	1361.4	1414.2	1480.2	1530.9	1521.7	1447.2	1399.1	1186.8
22.5°	1316.6	1319.4	1340.2	1375.0	1433.4	1518.6	1612.1	1625.9	1555.5	1500.9	1244.9
25°	1358.1	1358.1	1375.5	1399.8	1454.6	1551.9	1680.7	1741.8	1666.1	1602.6	1298.7
27.5°	1437.2	1436.4	1442.8	1451.3	1492.8	1585.7	1741.8	1844.2	1780.8	1711.4	1350.9
30°	1530.9	1536.0	1536.8	1532.7	1552.1	1627.9	1798.4	1952.3	1896.2	1821.5	1404.4
32.5°	1651.5	1654.8	1651.0	1637.4	1634.6	1687.8	1854.0	2065.4	2021.1	1936.4	1453.3
35°	1804.6	1798.2	1786.1	1758.5	1732.1	1768.0	1917.5	2178.6	2161.4	2075.4	1520.7
37.5°	1968.7	1968.9	1954.1	1891.4	1855.0	1870.4	2005.0	2306.8	2331.2	2240.8	1606.9
40°	2100.2	2107.2	2116.4	2033.9	1986.8	2008.1	2116.4	2455.6	2531.9	2436.9	1719.3
42.5°	2192.2	2200.1	2226.2	2174.5	2125.6	2165.0	2247.5	2614.3	2757.2	2663.2	1850.9
45°	2289.4	2293.8	2312.2	2289.9	2258.7	2347.5	2395.2	2778.7	2995.5	2904.4	1998.1
47.5°	2391.8	2396.4	2415.4	2400.5	2384.2	2518.0	2549.3	2933.5	3223.8	3169.3	2155.3
50°	2518.3	2521.4	2539.3	2512.4	2517.5	2646.6	2687.0	3075.6	3463.2	3407.4	2313.0
52.5°	2690.8	2691.6	2716.4	2692.1	2668.1	2740.8	2805.5	3209.5	3650.9	3624.5	2470.7
55°	2826.0	2834.2	2915.6	2910.5	2896.7	2826.3	2904.6	3337.0	3818.3	3830.8	2638.1
57.5°	2739.7	2771.7	2936.6	3052.8	3166.0	3039.0	3038.5	3480.6	3973.9	4033.3	2822.2
60°	2399.5	2443.0	2686.0	2943.8	3297.8	3409.2	3316.5	3656.0	4131.1	4234.0	3052.8
62.5°	1713.7	1785.4	2114.6	2526.2	3117.1	3654.4	3882.3	3934.3	4344.9	4466.5	3352.6
65°	866.3	920.6	1196.6	1692.4	2490.4	3494.2	4497.2	4543.5	4716.3	4824.4	3814.2
67.5°	526.3	546.8	681.5	941.3	1526.8	2721.8	4697.9	5559.1	5435.2	5492.5	4472.4
70°	387.8	402.9	486.9	625.2	878.1	1597.2	4082.0	6283.9	6202.4	6196.0	4958.8
72°	302.1	313.1	387.3	505.1	642.1	958.2	2958.6	6016.3	6422.1	6389.8	4914.2
72.5°	286.5	296.2	363.8	475.4	606.7	868.6	2660.1	5835.8	6406.2	6391.6	4856.6
75°	225.5	232.5	269.3	367.6	474.9	492.8	1457.7	4522.6	5683.0	5919.3	4368.2
77.5°	186.6	187.7	207.1	267.5	370.2	348.4	716.0	3137.8	4069.4	4329.3	3094.3
80°	152.1	153.3	162.6	187.7	280.1	257.8	340.0	1804.3	2278.4	2281.2	1471.5
82.5°	121.1	121.3	131.6	137.2	201.2	184.3	194.8	847.1	995.6	957.7	528.9
85°	85.2	83.5	128.5	112.6	131.6	118.3	107.5	335.4	411.7	393.7	165.6
87.5°	28.4	29.4	57.1	73.0	76.8	67.1	47.9	128.5	155.4	154.1	52.5
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: P318226

CATALOG NUMBER: GAN-SA2A-830-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	914.7	914.7	914.7	914.7	914.7	914.7	914.7	914.7	914.7	914.7	914.7
2.5°	919.3	911.1	899.1	885.8	875.3	864.5	856.6	852.5	847.9	844.0	848.7
5°	929.0	913.7	888.1	863.0	844.6	828.2	816.4	810.2	804.6	800.8	801.3
7.5°	944.9	920.1	877.1	840.5	814.9	797.2	785.2	781.1	777.5	776.5	777.7
10°	961.8	925.2	862.5	813.8	784.6	770.1	764.7	767.5	770.1	772.4	774.9
12.5°	981.0	929.8	841.2	782.6	757.8	752.1	757.5	769.8	778.8	784.1	787.5
15°	1006.1	933.9	816.6	751.4	734.7	741.1	759.3	780.6	796.2	806.2	807.7
17.5°	1029.1	933.6	785.2	719.9	716.0	734.7	762.1	792.1	813.1	827.1	830.0
20°	1052.9	926.7	748.6	689.2	697.1	727.8	763.4	799.5	824.8	841.2	845.1
22.5°	1075.2	914.7	708.4	661.3	681.2	718.6	758.5	795.1	820.5	833.8	837.9
25°	1090.3	893.7	667.7	637.7	667.1	707.3	742.7	772.1	791.0	797.7	798.7
27.5°	1098.0	866.3	629.3	617.2	652.6	688.9	713.2	727.8	733.2	732.7	731.7
30°	1099.0	830.2	596.2	600.6	635.7	661.8	673.3	670.5	663.6	651.8	652.8
32.5°	1095.7	789.5	568.6	584.7	614.2	628.7	629.3	615.7	597.3	578.6	573.4
35°	1096.7	749.6	544.3	566.8	588.0	594.4	588.6	568.6	543.5	519.4	514.3
37.5°	1108.0	714.8	523.3	546.1	559.1	560.6	552.2	531.2	512.8	489.2	487.2
40°	1134.9	689.9	503.3	522.8	530.2	531.0	518.9	504.1	505.6	493.1	492.8
42.5°	1183.2	679.2	485.6	498.4	503.0	504.6	495.4	485.9	499.2	491.0	488.2
45°	1245.7	681.7	470.8	474.6	483.1	490.2	484.6	473.1	478.2	442.6	430.9
47.5°	1317.9	698.1	459.0	454.1	468.7	482.3	473.6	456.2	438.0	402.7	396.0
50°	1402.4	723.5	448.3	433.9	453.1	471.6	462.9	438.0	410.6	393.5	391.2
52.5°	1490.4	754.4	437.5	411.7	433.4	463.4	459.0	433.9	400.1	383.2	380.2
55°	1590.3	785.7	423.9	385.8	412.2	459.5	457.2	419.1	392.2	382.7	380.4
57.5°	1714.5	821.3	406.0	358.9	392.2	445.7	438.5	410.1	384.0	376.8	376.1
60°	1876.2	873.7	380.2	330.2	367.9	424.5	422.9	397.1	370.9	365.8	364.8
62.5°	2118.9	960.5	344.6	301.6	340.7	388.4	402.4	379.4	357.1	356.9	357.4
65°	2495.3	1091.1	305.9	276.5	313.3	357.9	378.6	361.2	343.0	348.2	348.9
67.5°	2931.5	1199.4	268.0	251.9	285.4	329.0	357.1	343.0	324.4	337.7	337.9
70°	3076.6	1102.6	234.8	227.6	256.5	301.1	333.8	323.1	304.1	317.4	316.2
72°	2863.1	890.1	213.3	209.2	234.8	278.0	313.1	304.4	285.7	294.7	291.3
72.5°	2795.8	848.7	207.9	204.5	228.9	272.1	307.7	299.8	281.1	288.8	285.7
75°	2494.0	737.0	178.7	179.5	199.7	243.5	277.5	274.9	255.7	256.5	255.5
77.5°	1808.9	540.4	150.5	155.6	170.0	214.0	247.0	245.5	224.5	220.7	219.9
80°	839.4	275.7	122.6	124.9	139.8	178.9	210.7	208.6	191.7	186.9	184.1
82.5°	287.5	131.1	92.2	93.7	108.3	144.1	182.8	181.5	167.4	158.0	152.1
85°	102.7	65.3	64.5	63.0	77.3	113.4	159.2	152.3	131.6	112.1	111.6
87.5°	33.3	27.9	33.3	33.0	45.1	76.8	115.7	98.6	95.5	79.4	77.8
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)