

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: P318546

Luminaire Tested: **GAN-SA2A-830-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7579 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

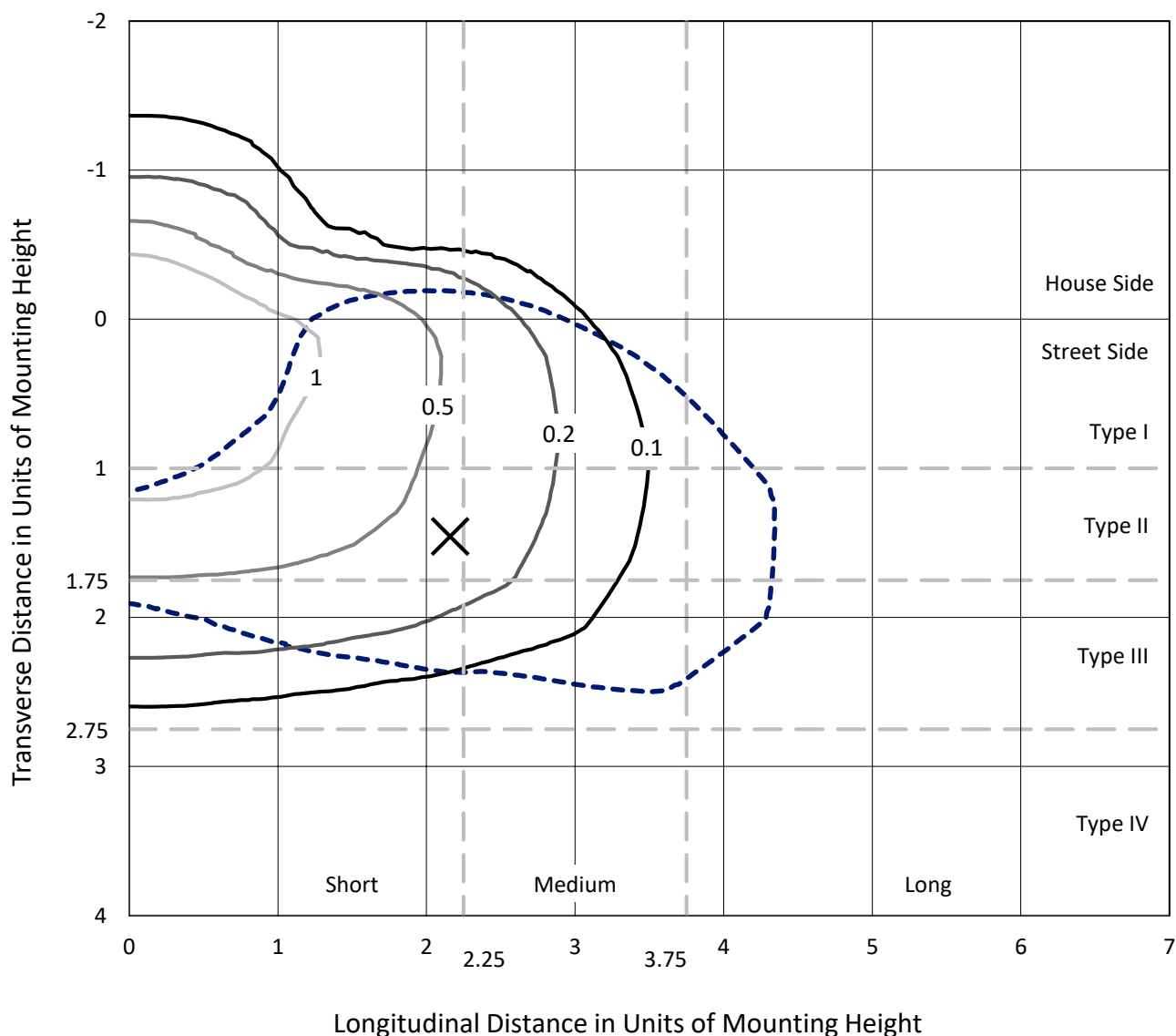
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318546
 CATALOG NUMBER: GAN-SA2A-830-U-T3

Iso-Footcandle Lines of Horizontal Illumination

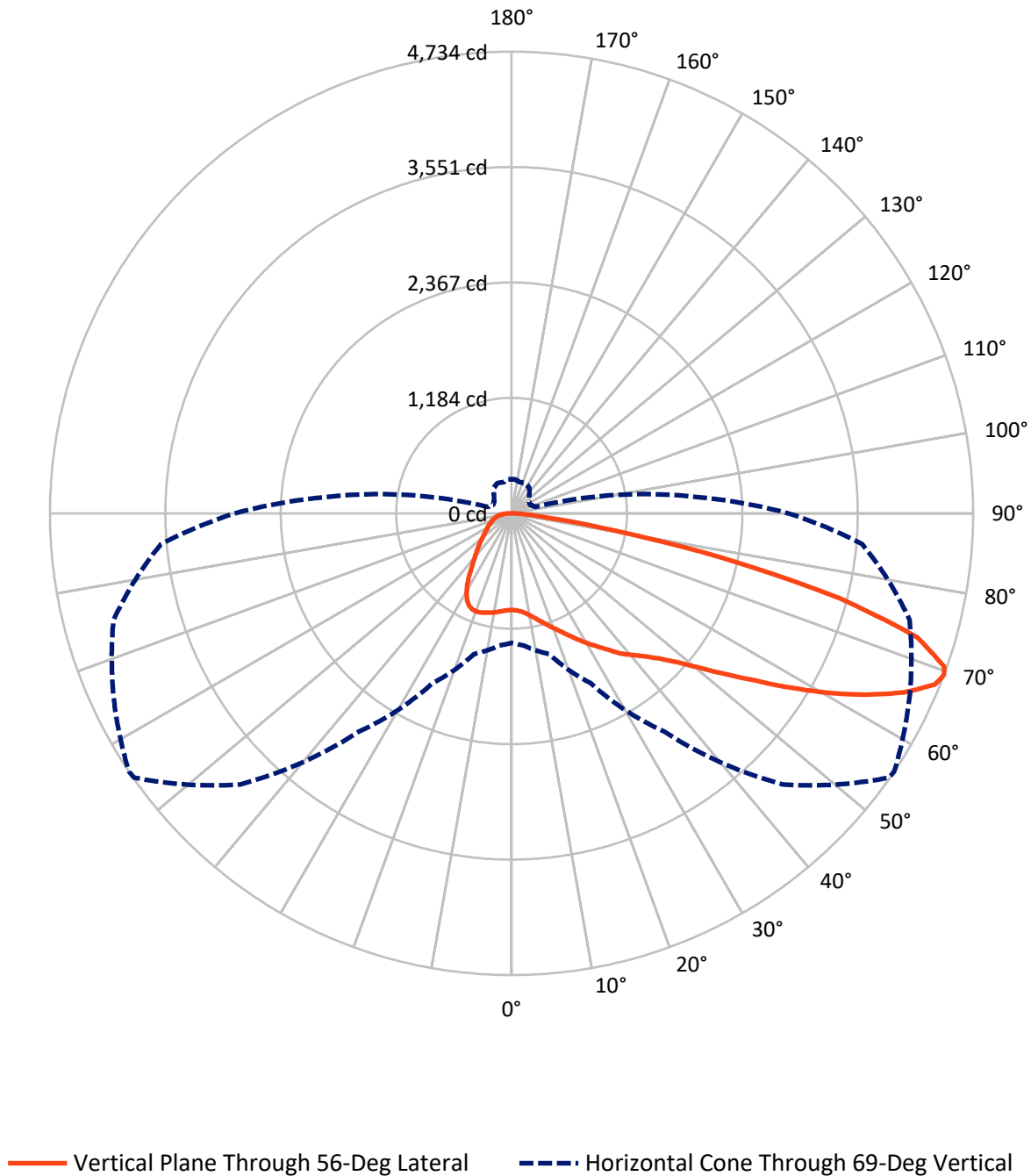
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type III - Short - N/A

REPORT NUMBER: P318546
CATALOG NUMBER: GAN-SA2A-830-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P318546

CATALOG NUMBER: GAN-SA2A-830-U-T3

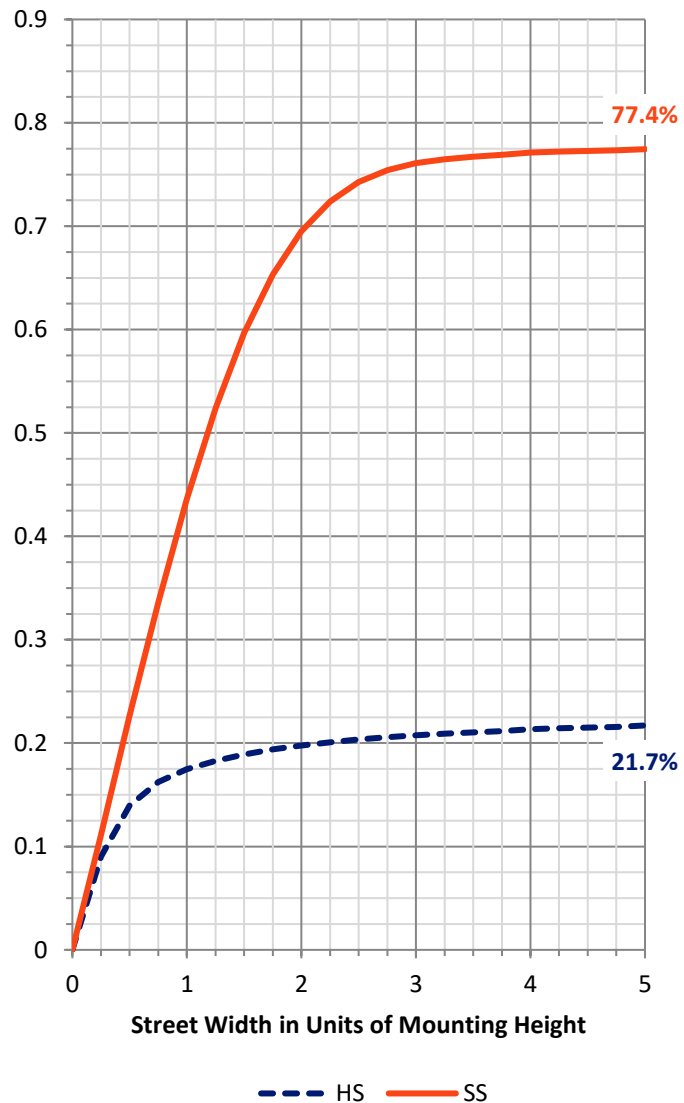
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1687.8	0.0	1687.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	5891.2	0.0	5891.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	7579.0	0.0	7579.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.3	1.3
10°-20°	312.9	4.1
20°-30°	546.3	7.2
30°-40°	784.7	10.4
40°-50°	1086.0	14.3
50°-60°	1591.1	21.0
60°-70°	1939.8	25.6
70°-80°	1072.5	14.2
80°-90°	148.5	2.0
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°	7579.0	100.0
0°-180°	7579.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318546

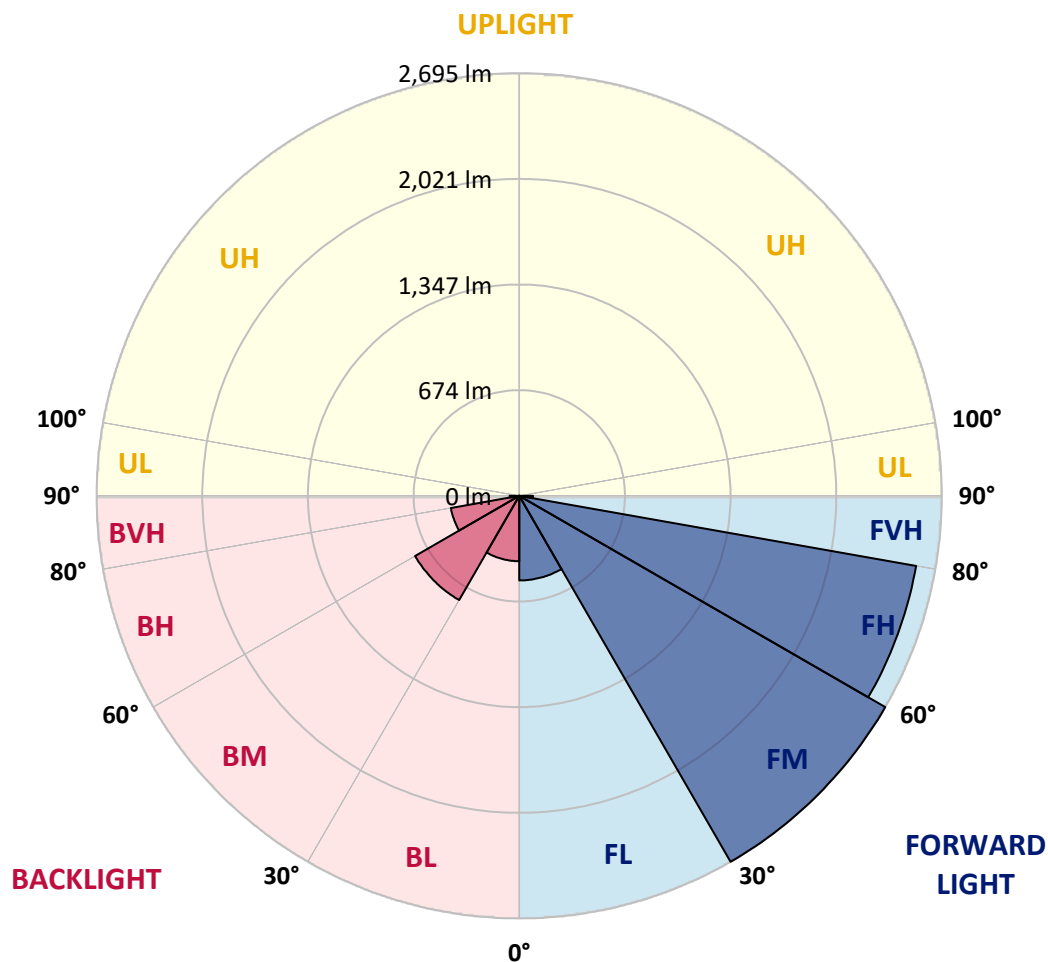
CATALOG NUMBER: GAN-SA2A-830-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	539.4	7.1			
FM	(30°-60°)	2694.6	35.6			
FH	(60°-80°)	2569.7	33.9			G2/5000
FVH	(80°-90°)	87.5	1.2			G1/100
BL	(0°-30°)	417.1	5.5	B1/500		
BM	(30°-60°)	767.1	10.1	B1/1000		
BH	(60°-80°)	442.6	5.8	B1/500		G1/500
BVH	(80°-90°)	61.0	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 Short





REPORT NUMBER: P318546

CATALOG NUMBER: GAN-SA2A-830-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	990.8	990.8	990.8	990.8	990.8	990.8	990.8	990.8	990.8	990.8	990.8
2.5°	997.1	998.2	997.4	999.5	997.1	998.7	997.4	997.4	996.6	994.2	991.6
5°	1012.8	1014.9	1013.6	1015.6	1012.8	1013.3	1010.9	1010.9	1008.6	1003.6	998.4
7.5°	1037.3	1039.7	1038.6	1040.7	1036.8	1036.8	1033.7	1033.4	1028.7	1020.6	1014.6
10°	1066.6	1069.7	1068.6	1071.8	1068.6	1069.7	1066.6	1066.6	1060.3	1048.8	1041.2
12.5°	1109.1	1113.0	1110.2	1109.9	1108.6	1110.7	1108.1	1107.5	1101.8	1086.1	1075.7
15°	1166.0	1170.2	1164.2	1163.7	1156.4	1155.6	1155.6	1154.8	1151.2	1132.4	1115.1
17.5°	1231.6	1232.9	1227.6	1219.3	1209.9	1203.9	1203.1	1205.2	1205.2	1183.3	1155.8
20°	1295.8	1298.1	1294.0	1284.6	1272.6	1263.7	1257.4	1261.6	1261.3	1235.2	1196.3
22.5°	1365.8	1371.2	1365.0	1353.0	1338.9	1329.0	1318.0	1321.6	1321.9	1289.8	1236.0
25°	1456.4	1451.4	1447.5	1430.5	1410.4	1400.2	1390.0	1393.7	1392.7	1348.5	1277.0
27.5°	1536.5	1537.6	1532.3	1514.3	1491.1	1468.6	1468.1	1470.5	1466.5	1409.6	1315.6
30°	1629.7	1630.3	1622.9	1606.8	1581.4	1552.4	1545.7	1549.6	1541.2	1467.6	1356.4
32.5°	1722.4	1725.0	1716.9	1697.4	1677.0	1641.7	1628.2	1630.8	1609.9	1526.9	1398.4
35°	1803.6	1807.3	1804.7	1791.6	1769.4	1739.1	1722.9	1721.4	1695.5	1599.4	1454.0
37.5°	1886.4	1889.8	1886.9	1875.9	1867.1	1834.9	1826.3	1826.3	1781.4	1673.6	1524.8
40°	1971.5	1976.7	1973.3	1958.2	1950.6	1936.0	1915.4	1910.4	1861.8	1762.6	1640.2
42.5°	2050.6	2057.4	2071.0	2062.1	2046.7	2048.8	2007.3	2004.7	1969.1	1894.2	1785.1
45°	2162.9	2172.8	2195.8	2189.0	2185.9	2174.4	2125.0	2122.7	2109.1	2071.2	1965.0
47.5°	2285.3	2298.9	2340.4	2341.7	2375.4	2353.7	2286.6	2278.5	2281.7	2283.2	2184.5
50°	2398.1	2413.0	2481.1	2513.3	2592.6	2597.3	2490.0	2482.7	2495.0	2531.0	2440.4
52.5°	2488.2	2507.0	2592.1	2691.3	2827.4	2866.0	2740.4	2734.9	2744.1	2806.2	2729.7
55°	2554.3	2574.6	2667.3	2848.0	3065.2	3133.4	3028.7	3023.4	3029.2	3108.3	3044.3
57.5°	2569.7	2574.6	2709.1	2953.5	3266.0	3429.7	3381.4	3370.9	3342.7	3411.7	3391.6
60°	2497.3	2517.2	2674.6	2990.5	3421.3	3721.9	3750.0	3737.0	3657.9	3714.3	3698.1
62.5°	2350.6	2386.1	2545.9	2934.1	3482.2	3960.5	4111.7	4096.0	3959.7	3996.3	3918.5
65°	2110.9	2126.1	2293.9	2739.6	3404.9	4113.2	4434.1	4426.3	4254.7	4197.6	3959.2
67.5°	1682.2	1710.7	1853.2	2333.1	3088.7	4095.2	4683.4	4682.7	4447.4	4272.2	3814.8
69°	1329.0	1358.5	1494.2	1921.9	2733.1	3930.5	4725.2	4734.4	4501.7	4226.8	3608.5
70°	1059.5	1093.7	1186.9	1618.8	2417.4	3713.2	4690.5	4706.9	4491.3	4151.9	3418.2
72.5°	450.9	478.6	544.9	834.4	1473.3	2772.8	4288.7	4350.8	4249.3	3799.9	2825.0
75°	196.9	205.5	235.5	340.2	654.0	1509.1	3359.7	3474.6	3633.3	3211.9	2104.4
77.5°	144.1	147.8	164.2	199.7	293.5	570.0	2160.5	2227.4	2620.3	2337.3	1290.8
80°	111.5	114.1	126.9	146.7	191.6	230.5	985.4	1042.8	1473.3	1200.5	537.6
82.5°	88.8	90.6	99.5	108.1	132.4	139.7	327.1	362.9	543.9	331.6	142.3
85°	82.5	84.6	87.7	78.8	84.9	82.0	141.5	148.0	164.2	130.3	59.5
87.5°	37.3	44.1	86.9	61.4	45.2	36.0	58.0	60.6	68.1	68.4	26.4
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: P318546

CATALOG NUMBER: GAN-SA2A-830-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	990.8	990.8	990.8	990.8	990.8	990.8	990.8	990.8	990.8	990.8	990.8
2.5°	993.2	992.4	993.7	990.6	994.5	994.2	992.9	993.5	996.1	995.8	996.1
5°	999.2	998.7	1000.2	997.9	1002.6	1004.2	1004.4	1006.8	1009.6	1010.4	1010.4
7.5°	1014.3	1014.3	1015.1	1012.0	1015.1	1014.9	1013.6	1015.9	1018.8	1019.0	1018.8
10°	1040.4	1040.7	1039.4	1031.3	1028.7	1021.6	1015.1	1015.4	1019.0	1021.9	1022.7
12.5°	1073.3	1072.3	1066.6	1051.7	1040.7	1026.3	1019.6	1019.3	1023.0	1025.3	1026.1
15°	1110.9	1108.1	1093.2	1068.9	1049.6	1035.5	1024.5	1021.9	1019.8	1017.2	1017.5
17.5°	1146.5	1139.9	1115.1	1081.4	1061.1	1042.3	1021.1	1004.2	992.4	985.6	983.5
20°	1182.5	1169.7	1133.9	1093.2	1067.3	1033.1	992.4	957.9	936.5	926.6	924.8
22.5°	1215.4	1194.8	1151.4	1105.5	1062.4	1002.3	938.4	888.2	858.5	845.2	846.2
25°	1247.5	1218.8	1169.7	1114.1	1037.3	948.0	863.2	801.5	767.1	752.2	751.7
27.5°	1275.7	1243.1	1189.5	1107.0	990.6	870.7	774.1	714.1	685.4	672.6	670.5
30°	1308.1	1273.6	1215.9	1080.1	922.2	781.4	687.2	644.9	624.5	611.7	609.4
32.5°	1347.5	1315.1	1237.6	1031.3	834.7	688.2	619.3	589.8	571.3	556.9	554.3
35°	1404.9	1369.9	1243.1	961.3	738.6	614.6	569.4	539.2	514.1	495.6	493.7
37.5°	1477.0	1438.6	1230.5	870.7	645.4	566.8	527.9	490.6	458.0	431.8	427.7
40°	1580.9	1522.9	1195.8	766.3	576.7	530.0	487.5	444.9	404.4	373.9	367.9
42.5°	1705.7	1621.9	1142.5	662.4	526.4	492.7	447.2	394.5	355.9	334.2	331.1
45°	1864.5	1724.8	1068.6	571.5	476.8	455.3	403.9	355.3	331.3	315.4	312.8
47.5°	2045.6	1840.2	991.1	497.6	434.7	420.4	369.2	337.9	318.8	306.3	303.9
50°	2268.4	1970.5	908.9	437.1	392.4	378.3	352.7	328.2	313.0	303.4	301.0
52.5°	2519.5	2117.4	849.6	389.3	357.4	347.3	344.1	323.0	310.7	303.4	301.0
55°	2790.0	2267.1	785.6	349.1	327.1	330.0	338.4	323.5	315.1	306.3	302.9
57.5°	3060.8	2421.6	714.3	315.1	303.1	317.2	334.5	324.5	317.5	308.9	305.7
60°	3274.9	2519.5	603.9	286.7	284.1	303.1	325.1	316.7	307.6	307.8	307.3
62.5°	3374.9	2514.3	482.0	261.4	265.0	284.1	309.9	304.4	296.9	307.0	307.8
65°	3318.7	2389.0	375.2	238.4	244.6	264.2	294.2	298.4	301.0	320.6	323.2
67.5°	3083.2	2145.1	290.6	218.3	226.1	250.6	295.8	325.1	328.5	349.1	348.8
69°	2839.6	1916.4	252.5	207.8	217.0	254.0	316.2	342.0	329.2	351.2	348.0
70°	2635.5	1735.5	232.1	200.8	212.8	260.0	329.8	341.8	325.3	344.1	338.9
72.5°	2029.7	1248.5	196.9	187.7	198.7	248.8	333.7	334.2	316.2	319.8	311.0
75°	1392.1	789.0	171.8	170.0	177.3	224.3	321.1	319.3	292.4	287.2	279.9
77.5°	767.6	400.8	145.9	153.0	158.0	198.7	291.9	289.3	267.1	256.1	253.5
80°	296.1	175.5	123.2	136.0	139.2	172.1	255.9	253.5	235.0	220.9	217.0
82.5°	111.7	91.9	101.8	117.8	116.7	142.0	216.7	215.4	197.4	176.8	170.5
85°	51.7	55.1	80.7	97.1	89.6	105.2	173.4	175.7	153.8	129.2	129.2
87.5°	21.9	30.8	57.2	73.4	60.3	71.0	127.2	121.4	111.5	77.3	72.6
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)