

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: P321845

Luminaire Tested: **GAN-SA1C-727-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321845
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4406 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

Input Watts (W): 59
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

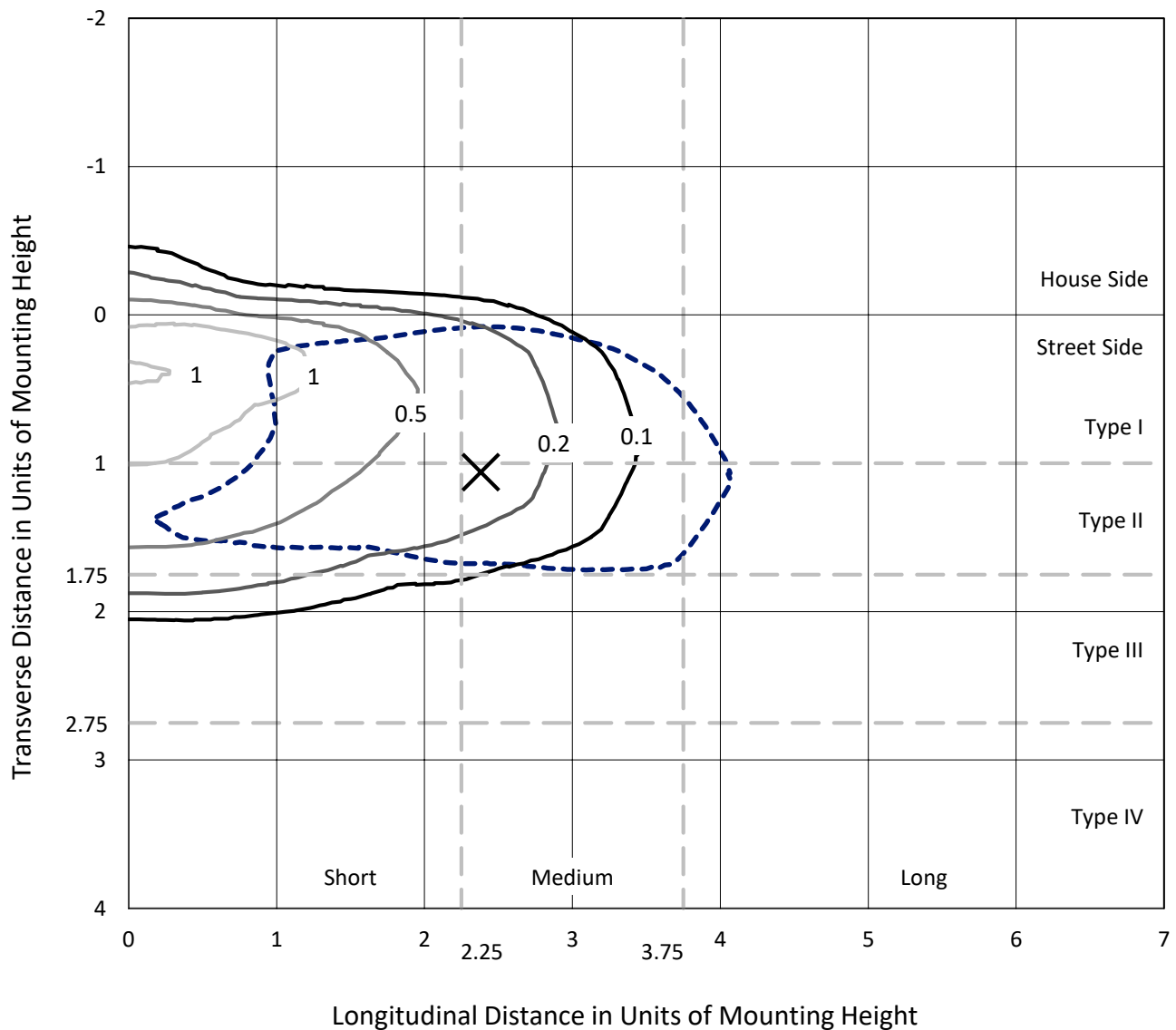


REPORT NUMBER: P321845

CATALOG NUMBER: GAN-SA1C-727-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

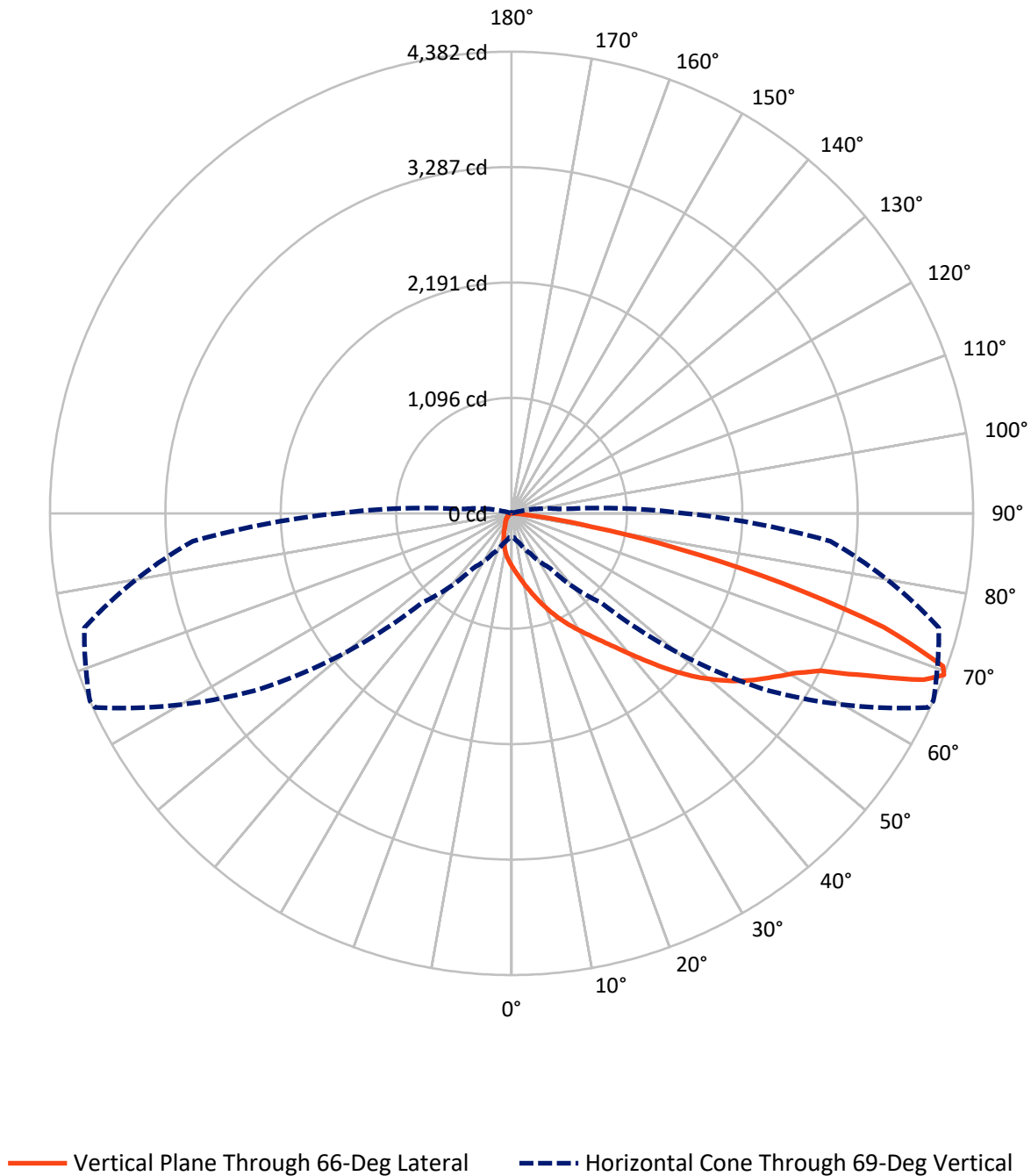
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type II - Medium - N/A

REPORT NUMBER: P321845
CATALOG NUMBER: GAN-SA1C-727-U-T2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P321845

CATALOG NUMBER: GAN-SA1C-727-U-T2-HSS

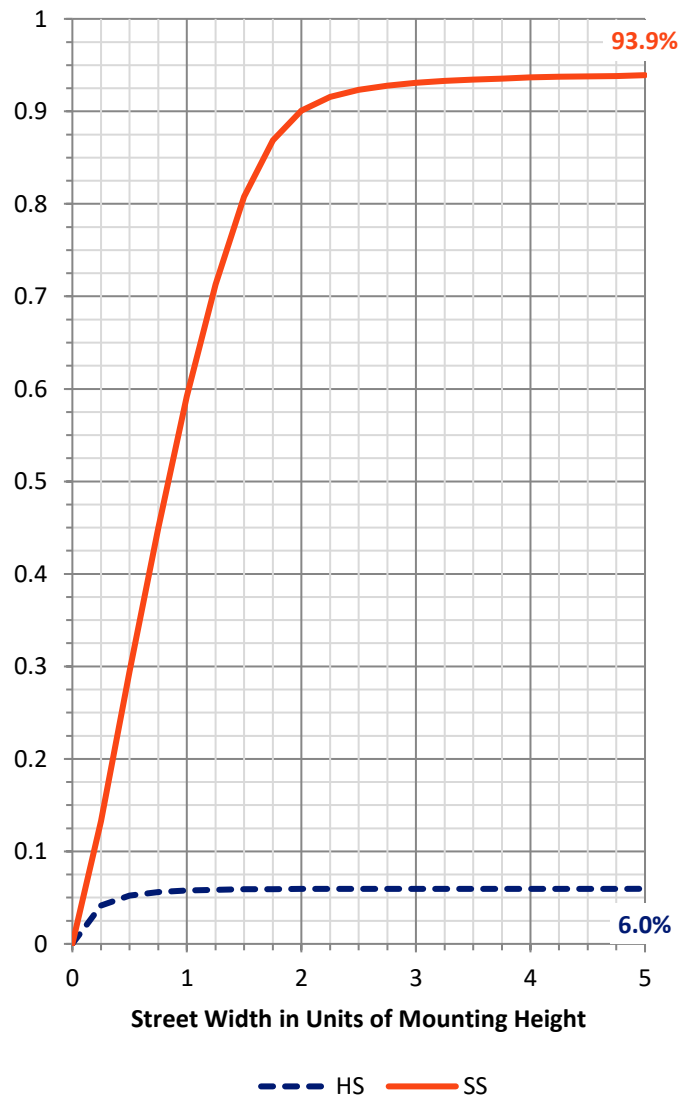
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	264.3	0.0	264.3
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	4141.7	0.0	4141.7
	% Fixture	94.0	0.0	94.0
Total	Lumens	4406.0	0.0	4406.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.5	1.1
10°-20°	144.3	3.3
20°-30°	251.2	5.7
30°-40°	440.7	10.0
40°-50°	737.7	16.7
50°-60°	1084.3	24.6
60°-70°	1113.4	25.3
70°-80°	549.6	12.5
80°-90°	36.3	0.8
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°	4406.0	100.0
0°-180°	4406.0	100.0

Coefficient of Utilization



REPORT NUMBER: P321845

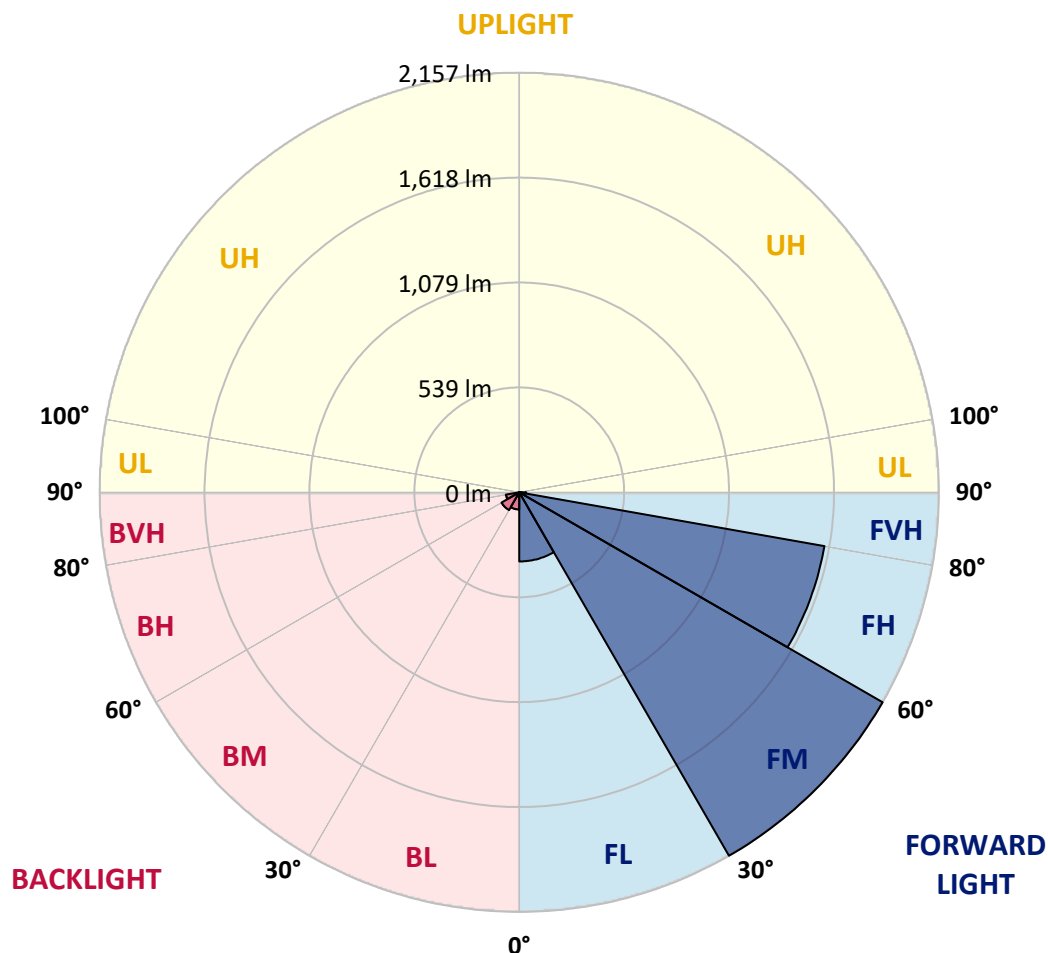
CATALOG NUMBER: GAN-SA1C-727-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	355.5	8.1			
FM	(30°-60°)	2157.4	49.0			
FH	(60°-80°)	1593.3	36.2			G1/1800
FVH	(80°-90°)	35.5	0.8			G1/100
BL	(0°-30°)	88.4	2.0	B0/110		
BM	(30°-60°)	105.4	2.4	B0/220		
BH	(60°-80°)	69.6	1.6	B0/110		G0/110
BVH	(80°-90°)	0.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium



REPORT NUMBER: P321845

CATALOG NUMBER: GAN-SA1C-727-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4
2.5°	590.1	587.6	586.6	582.0	574.0	568.0	556.2	542.6	540.1	526.9	510.8
5°	666.7	664.6	663.2	656.7	648.5	633.3	611.9	586.6	581.8	556.7	524.4
7.5°	720.1	723.9	723.9	719.7	709.4	697.9	671.8	637.2	631.2	592.7	542.6
10°	751.3	755.9	759.4	763.0	761.5	756.9	732.2	693.3	686.0	634.9	563.8
12.5°	754.2	758.8	768.9	783.7	798.2	808.6	793.1	755.5	747.1	683.9	588.9
15°	737.9	742.7	758.2	787.1	822.0	852.6	857.6	824.3	815.7	742.3	620.3
17.5°	709.4	712.6	734.8	774.7	829.6	885.6	916.0	898.2	890.2	809.0	655.2
20°	688.3	690.6	710.1	753.0	825.0	906.4	971.2	976.7	968.3	880.6	693.1
22.5°	724.5	728.7	729.3	749.6	812.4	916.6	1019.8	1053.9	1047.6	956.6	730.4
25°	823.5	828.3	812.4	799.8	823.1	921.2	1061.4	1133.0	1128.0	1038.4	767.8
27.5°	954.3	959.3	938.8	901.3	878.9	938.6	1098.5	1213.4	1213.2	1125.0	808.2
30°	1082.8	1087.8	1066.9	1029.4	977.9	987.8	1130.5	1297.5	1298.7	1214.4	851.1
32.5°	1217.5	1223.8	1202.3	1154.1	1100.4	1072.7	1175.5	1382.0	1389.2	1318.0	899.5
35°	1370.7	1371.6	1341.2	1290.8	1228.8	1186.4	1247.7	1476.8	1493.8	1446.3	960.8
37.5°	1521.0	1527.1	1502.2	1422.6	1365.7	1317.6	1355.0	1595.3	1619.4	1603.0	1040.9
40°	1632.3	1645.1	1641.5	1555.7	1501.7	1467.4	1488.3	1736.1	1766.7	1785.5	1142.0
42.5°	1702.2	1711.8	1728.2	1676.5	1627.5	1633.2	1645.7	1900.2	1937.9	1993.5	1258.1
45°	1782.4	1787.0	1800.6	1777.8	1744.7	1801.6	1812.7	2085.0	2124.5	2217.2	1387.1
47.5°	1880.3	1891.2	1895.0	1874.0	1859.0	1950.6	1973.6	2253.0	2308.5	2456.9	1523.5
50°	2005.0	2008.0	2014.5	2000.9	1985.8	2078.7	2118.0	2429.4	2479.9	2697.3	1658.1
52.5°	2127.0	2137.5	2160.1	2151.5	2145.5	2187.7	2246.7	2588.5	2644.8	2897.8	1792.4
55°	2162.2	2171.2	2249.3	2302.6	2352.0	2322.1	2369.8	2731.0	2791.9	3076.9	1921.7
57.5°	2021.8	2040.0	2175.2	2314.1	2519.0	2530.9	2538.9	2877.3	2931.9	3214.2	2056.3
60°	1666.9	1670.4	1892.2	2130.6	2491.4	2713.2	2785.8	3034.5	3080.3	3342.1	2217.5
62.5°	1060.2	1096.4	1339.8	1676.3	2199.2	2686.8	3084.5	3272.2	3288.9	3495.5	2448.5
65°	505.0	528.4	703.8	1035.7	1593.0	2349.3	3290.6	3702.2	3709.8	3799.6	2757.2
67.5°	279.6	290.9	374.4	557.5	931.3	1661.4	3207.3	4211.6	4218.7	4110.1	3028.0
69°	218.7	228.3	294.0	420.2	631.4	1194.1	2902.4	4360.8	4382.0	4199.1	3037.6
70°	185.6	195.0	253.2	354.9	507.7	922.7	2583.5	4323.8	4346.2	4190.7	2965.8
72.5°	113.6	119.1	168.7	249.9	340.3	464.2	1593.2	3656.6	3694.5	3844.1	2548.9
75°	76.6	79.5	105.5	172.4	243.4	239.0	827.7	2577.4	2659.4	2990.3	1882.6
77.5°	54.8	57.5	70.7	111.5	170.6	157.8	374.8	1601.8	1619.4	1793.5	1026.7
80°	31.2	33.7	50.0	66.3	115.7	105.3	149.0	765.1	773.9	769.1	342.8
82.5°	16.3	18.4	27.4	43.7	74.3	68.9	61.9	256.1	257.4	214.1	75.1
85°	3.1	3.8	13.6	29.9	38.3	29.9	25.3	60.1	61.3	54.2	18.6
87.5°	0.0	0.2	5.4	6.7	7.5	7.7	8.2	11.7	12.6	17.0	5.0
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: P321845

CATALOG NUMBER: GAN-SA1C-727-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4	501.4
2.5°	503.7	496.2	481.7	465.0	452.0	439.3	429.2	418.8	415.0	413.1	412.9
5°	508.7	492.8	462.3	430.9	405.2	380.9	363.5	347.0	339.2	335.7	334.2
7.5°	517.1	491.6	442.4	394.5	357.4	327.1	303.0	285.0	276.0	272.3	270.8
10°	526.9	489.9	419.2	356.0	308.7	277.3	253.4	235.6	225.8	221.6	219.5
12.5°	538.5	487.0	392.4	317.0	267.0	235.6	206.8	184.8	173.5	168.7	166.4
15°	552.7	484.0	364.3	280.4	230.4	192.1	160.5	145.7	143.4	142.5	142.7
17.5°	566.7	479.4	333.8	244.2	191.9	150.0	133.9	133.1	133.5	133.5	133.5
20°	579.3	469.0	300.5	213.2	155.3	126.6	123.3	121.8	120.8	119.9	118.9
22.5°	589.1	455.0	268.5	182.5	126.8	115.9	110.7	106.1	102.3	99.8	98.6
25°	595.8	436.3	239.2	153.0	114.1	105.5	96.1	88.3	82.5	78.9	77.4
27.5°	600.8	416.2	213.0	128.1	105.3	93.3	81.0	71.8	65.7	62.6	61.3
30°	604.4	393.4	190.0	112.6	95.4	80.6	67.4	58.4	54.0	52.3	51.5
32.5°	607.7	368.1	168.3	105.3	86.2	68.9	56.5	49.6	46.9	44.8	44.2
35°	616.1	344.7	147.5	97.5	76.8	58.8	48.6	43.5	40.8	39.6	39.1
37.5°	636.0	327.3	127.7	89.6	67.4	50.9	42.5	38.9	36.4	35.2	34.7
40°	668.0	318.5	110.9	81.0	58.2	44.8	38.5	35.2	32.4	30.6	30.1
42.5°	715.1	319.8	99.2	72.4	50.9	40.0	34.7	30.8	27.8	26.2	25.7
45°	772.2	329.0	91.0	64.0	44.8	36.2	30.6	26.4	23.6	22.2	21.8
47.5°	834.2	343.8	84.3	56.5	40.0	32.6	26.4	22.0	19.7	18.4	18.2
50°	899.5	358.3	77.4	49.2	35.8	29.1	22.2	18.2	16.3	15.3	14.9
52.5°	965.6	375.0	71.2	42.5	32.2	24.9	18.4	14.9	13.4	12.6	12.1
55°	1036.7	387.6	65.1	37.3	28.7	21.1	15.3	12.3	11.1	10.0	9.8
57.5°	1120.4	407.0	58.8	32.2	24.5	17.6	12.6	9.8	8.8	7.7	7.5
60°	1233.5	429.8	52.1	28.5	20.1	14.4	10.3	8.0	6.7	5.9	5.7
62.5°	1382.5	455.2	43.7	24.9	16.3	11.7	8.2	6.3	4.8	3.8	3.8
65°	1571.4	496.4	35.8	20.9	13.4	9.6	6.3	4.6	2.7	1.7	1.7
67.5°	1681.7	503.5	28.9	17.2	10.9	8.2	5.2	3.1	0.8	0.2	0.0
69°	1646.3	462.3	24.5	14.6	9.4	7.7	4.8	2.3	0.4	0.0	0.0
70°	1579.8	422.7	21.6	13.0	8.6	7.3	4.6	1.7	0.4	0.0	0.0
72.5°	1305.4	300.9	16.3	9.6	6.3	6.5	4.2	1.0	0.4	0.0	0.0
75°	950.9	182.9	11.7	6.7	4.0	4.8	2.9	0.4	0.2	0.0	0.0
77.5°	529.0	86.2	7.3	3.8	2.5	2.9	1.5	0.0	0.0	0.0	0.0
80°	171.8	23.4	3.3	2.1	1.5	1.7	0.6	0.0	0.0	0.0	0.0
82.5°	31.8	6.7	1.9	1.0	0.4	0.4	0.0	0.0	0.0	0.0	0.0
85°	6.9	2.7	1.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	0.8	0.2	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

(END OF REPORT)