

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: P322485

Luminaire Tested: **GAN-SA1C-727-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322485
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4399 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

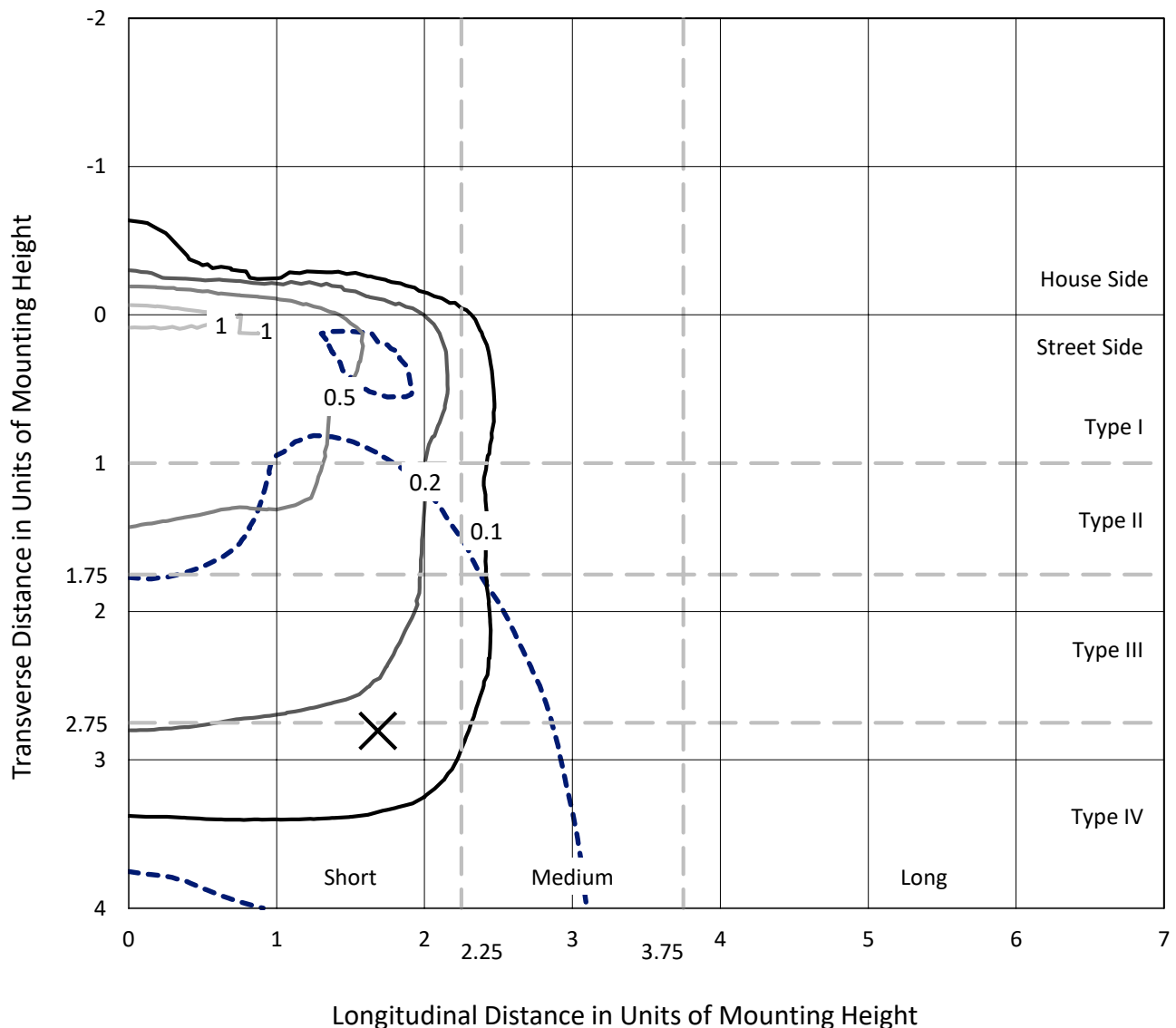
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322485
 CATALOG NUMBER: GAN-SA1C-727-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

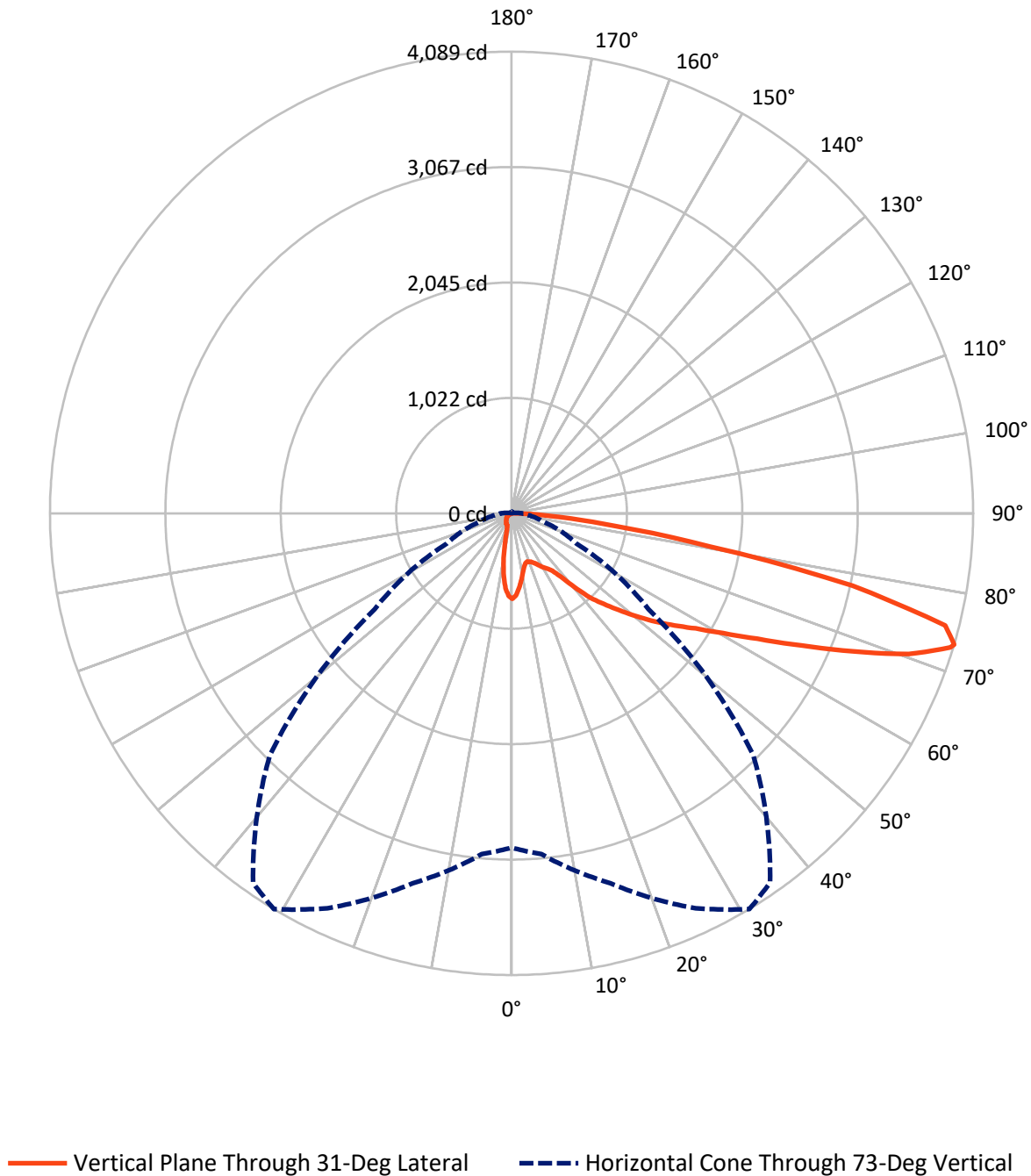
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P322485
CATALOG NUMBER: GAN-SA1C-727-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P322485

CATALOG NUMBER: GAN-SA1C-727-U-T4FT-HSS

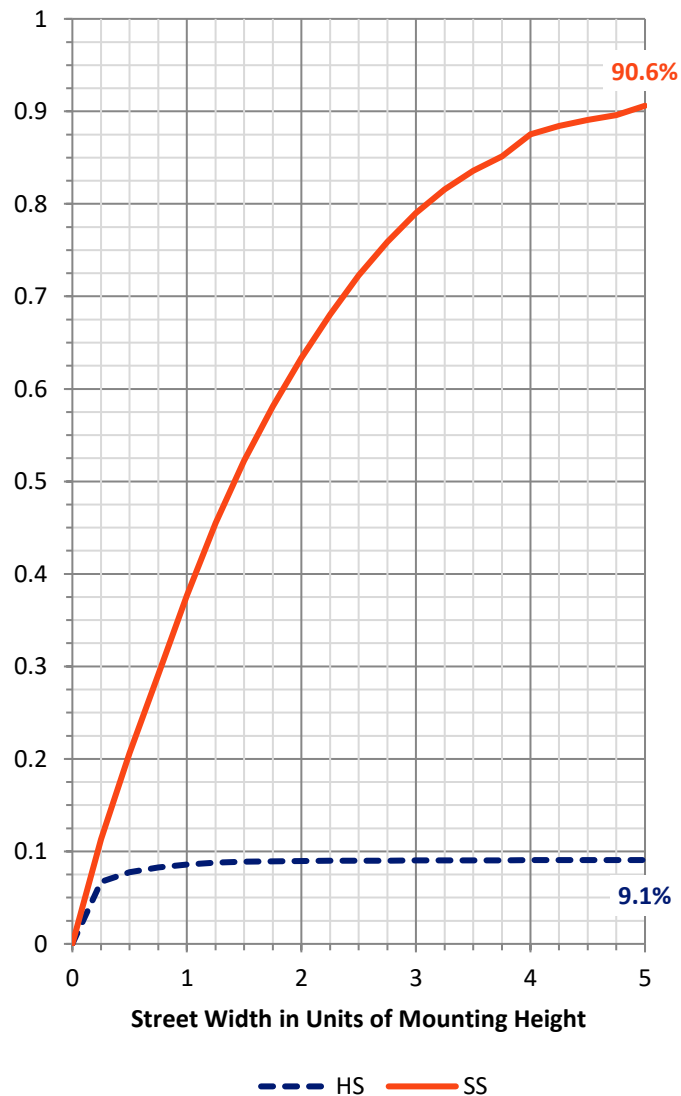
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	401.0	0.0	401.0
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	3998.0	0.0	3998.0
	% Fixture	90.9	0.0	90.9
Total	Lumens	4399.0	0.0	4399.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.8	1.4
10°-20°	136.3	3.1
20°-30°	204.2	4.6
30°-40°	324.8	7.4
40°-50°	580.0	13.2
50°-60°	900.0	20.5
60°-70°	1196.4	27.2
70°-80°	900.0	20.5
80°-90°	94.6	2.1
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°	4399.0	100.0
0°-180°	4399.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322485

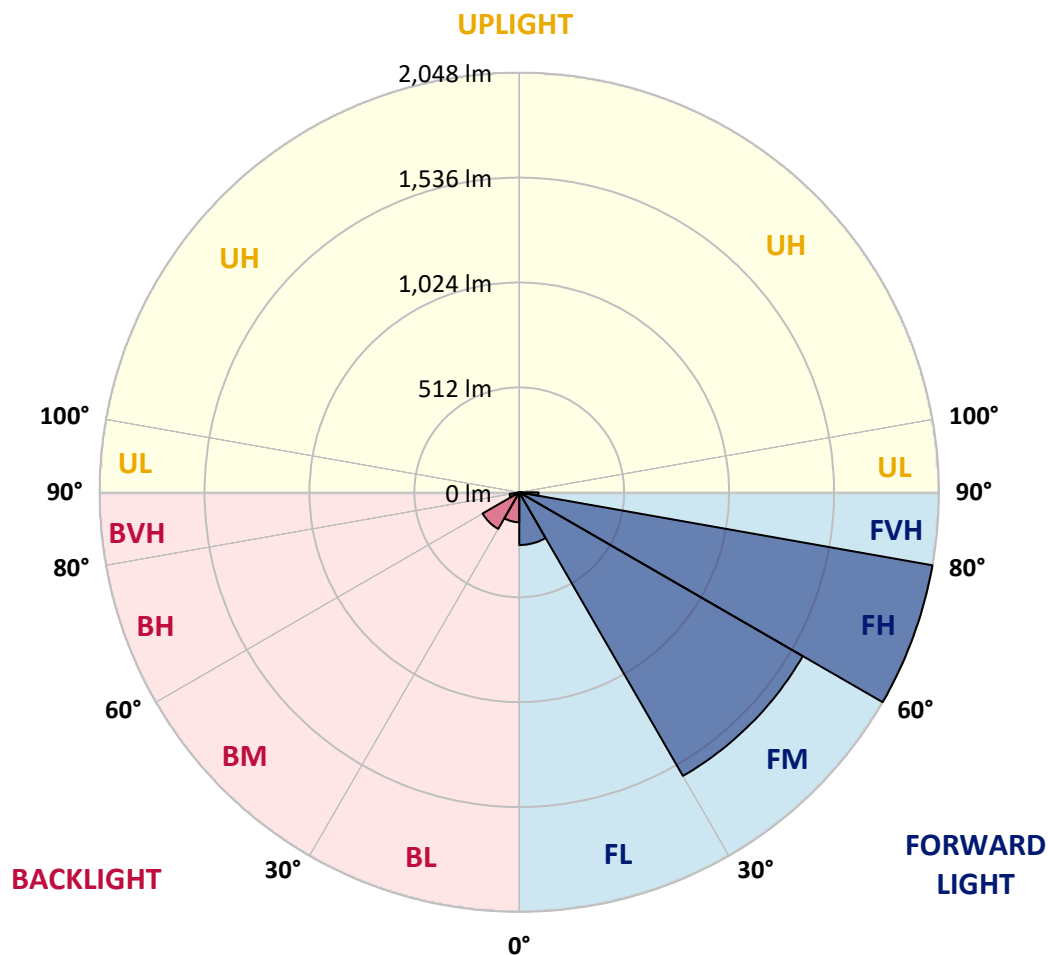
CATALOG NUMBER: GAN-SA1C-727-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	257.3	5.9			
FM	(30°-60°)	1598.4	36.3			
FH	(60°-80°)	2048.4	46.6			G2/5000
FVH	(80°-90°)	93.8	2.1			G1/100
BL	(0°-30°)	145.8	3.3	B1/500		
BM	(30°-60°)	206.4	4.7	B0/220		
BH	(60°-80°)	48.0	1.1	B0/110		G0/110
BVH	(80°-90°)	0.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



REPORT NUMBER: P322485

CATALOG NUMBER: GAN-SA1C-727-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	756.9	756.9	756.9	756.9	756.9	756.9	756.9	756.9	756.9	756.9	756.9
2.5°	717.2	720.3	723.5	724.1	729.5	729.7	737.5	743.3	749.1	754.7	756.6
5°	643.6	648.6	654.4	660.2	671.6	676.1	695.1	714.5	733.0	750.6	759.2
7.5°	565.1	570.7	578.8	593.3	606.0	614.8	644.7	679.1	713.6	746.1	764.8
10°	493.4	498.5	507.2	522.4	542.0	554.1	594.3	642.1	692.7	742.0	773.2
12.5°	447.7	450.5	455.3	471.6	489.3	502.8	550.2	609.4	675.5	741.8	786.8
15°	439.3	440.2	436.3	443.7	457.4	470.6	518.6	582.9	662.4	745.2	804.4
17.5°	452.7	452.3	439.3	438.5	449.5	460.2	503.1	564.6	653.1	753.2	827.2
20°	472.9	471.4	449.0	444.9	456.6	466.7	502.0	557.7	649.7	766.5	855.0
22.5°	499.8	497.3	462.2	457.9	470.3	480.9	515.3	564.4	652.7	784.4	887.3
25°	533.2	529.3	484.8	480.0	492.7	503.3	539.2	583.6	661.7	806.2	928.2
27.5°	570.9	565.3	520.9	508.7	523.1	534.1	571.1	612.8	675.9	829.2	978.4
30°	606.4	599.1	559.0	538.8	556.4	568.7	605.5	647.7	698.7	864.7	1047.0
32.5°	642.1	633.9	593.0	568.9	584.9	598.2	641.0	695.7	741.6	918.9	1138.3
35°	724.4	715.7	665.6	625.8	625.5	633.1	690.8	761.4	798.2	994.5	1247.2
37.5°	862.8	857.8	810.0	734.5	714.2	705.8	758.6	839.7	879.6	1098.5	1370.1
40°	1014.3	1010.0	956.4	888.0	857.2	836.5	855.9	948.9	994.5	1225.5	1495.6
42.5°	1185.4	1165.0	1069.4	1049.0	1021.4	1005.7	988.3	1083.4	1135.7	1363.7	1620.1
45°	1340.9	1306.4	1182.4	1151.4	1145.2	1149.1	1158.7	1264.2	1294.6	1527.9	1744.0
47.5°	1433.4	1406.3	1311.2	1281.4	1279.7	1305.3	1378.5	1468.5	1452.8	1671.1	1853.2
50°	1521.5	1496.9	1417.9	1425.2	1433.2	1468.1	1628.0	1678.6	1597.2	1800.9	1953.3
52.5°	1592.7	1555.3	1513.9	1555.0	1594.2	1650.4	1885.5	1867.2	1699.7	1904.2	2039.0
55°	1633.8	1616.8	1636.8	1678.2	1751.8	1843.1	2128.5	2024.1	1774.6	1998.5	2096.0
57.5°	1784.5	1751.1	1791.0	1826.7	1922.7	2050.4	2336.7	2141.0	1828.6	2056.8	2109.1
60°	1966.8	1939.9	1963.4	2022.8	2152.4	2302.4	2531.3	2236.3	1856.8	2094.3	2075.1
62.5°	2257.0	2221.5	2206.9	2273.4	2445.1	2609.0	2678.9	2302.4	1850.6	2077.7	1958.4
65°	2645.8	2609.0	2543.5	2603.8	2822.3	2937.9	2844.0	2316.4	1807.5	1943.6	1663.5
67.5°	3044.0	3017.3	2961.3	3062.9	3260.1	3297.4	3018.6	2282.4	1668.9	1575.9	1175.3
70°	3307.1	3295.6	3332.0	3556.8	3732.6	3721.9	3178.8	2099.7	1300.8	969.1	581.4
72.5°	3117.4	3172.1	3440.7	3848.2	4063.0	3975.2	3096.5	1612.3	743.5	372.8	168.1
73°	2960.3	3030.2	3391.9	3859.2	4089.1	3992.9	3027.4	1479.9	633.7	294.3	127.4
75°	2059.4	2145.3	2808.1	3594.2	3967.3	3804.3	2523.5	905.8	293.6	130.4	51.4
77.5°	999.9	1063.4	1546.2	2596.9	3085.3	2972.3	1571.0	337.5	132.6	81.6	23.7
80°	373.3	415.0	671.2	1321.7	1783.0	1829.7	691.0	127.6	88.3	65.7	12.1
82.5°	97.7	108.9	247.5	589.4	913.8	956.4	217.8	64.4	64.6	54.0	7.3
85°	31.2	35.7	77.3	264.6	430.5	378.0	56.8	31.2	46.9	40.3	4.1
87.5°	3.9	5.0	24.5	62.2	94.9	52.7	8.8	9.3	20.0	22.4	2.4
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: P322485

CATALOG NUMBER: GAN-SA1C-727-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	756.9	756.9	756.9	756.9	756.9	756.9	756.9	756.9	756.9	756.9	756.9
2.5°	758.6	757.5	757.7	752.1	748.5	741.1	733.6	730.2	726.5	725.0	726.5
5°	762.5	760.5	754.9	737.7	719.4	695.7	673.6	656.8	635.7	629.9	635.9
7.5°	768.5	764.6	748.2	713.2	672.5	627.3	576.5	539.4	509.1	489.5	496.6
10°	777.3	770.0	737.1	677.4	604.7	524.6	452.5	396.3	356.5	340.1	339.5
12.5°	792.2	778.4	723.3	630.9	521.8	415.0	320.5	259.6	227.3	206.4	206.0
15°	808.5	788.3	705.8	575.2	425.4	297.3	206.4	160.2	139.3	132.6	131.7
17.5°	828.5	799.7	683.2	506.5	324.4	197.0	134.8	121.4	120.5	119.9	119.9
20°	853.7	813.3	654.2	427.9	230.1	131.5	114.5	115.4	115.8	114.9	115.2
22.5°	883.0	827.0	619.5	343.6	155.6	110.0	109.6	110.6	111.1	110.6	110.9
25°	917.0	843.0	577.3	255.1	112.4	104.4	105.5	107.0	108.1	108.1	108.1
27.5°	959.2	862.3	526.5	178.0	97.1	98.6	101.6	104.4	105.9	106.3	106.3
30°	1014.1	886.4	465.6	122.1	88.3	90.8	96.4	101.8	104.6	105.0	105.3
32.5°	1083.4	913.6	395.0	90.2	80.7	82.7	88.7	97.7	103.1	104.0	104.0
35°	1162.8	945.0	319.0	78.6	75.3	76.0	80.7	91.1	100.5	102.9	103.1
37.5°	1249.8	976.0	242.6	73.4	70.8	70.8	74.3	83.1	94.3	101.6	102.5
40°	1331.0	994.7	170.1	69.3	66.7	66.7	69.7	76.2	86.8	97.7	100.1
42.5°	1405.9	1001.2	118.4	65.4	62.9	63.5	66.1	71.3	79.2	90.2	92.3
45°	1482.9	1000.1	86.3	60.9	59.0	60.9	62.9	66.7	72.5	78.8	79.2
47.5°	1541.1	991.1	68.5	56.6	55.3	57.9	59.6	62.2	65.4	65.0	65.0
50°	1595.5	969.1	55.1	50.8	51.7	54.7	55.5	56.4	56.6	52.5	52.1
52.5°	1636.8	934.9	44.1	44.6	48.0	51.0	50.2	48.9	46.7	41.8	40.9
55°	1650.6	869.0	34.7	36.8	42.6	46.5	43.3	40.5	36.4	32.3	31.4
57.5°	1625.6	784.0	28.2	28.6	35.9	39.2	35.5	32.3	27.8	24.3	23.7
60°	1572.7	689.5	23.2	21.5	27.8	30.6	28.2	25.0	20.9	18.3	18.1
62.5°	1467.6	588.7	19.2	16.8	21.1	23.5	22.0	19.6	16.1	14.4	14.2
65°	1246.8	471.0	15.5	13.6	16.4	18.3	17.0	15.3	12.7	11.4	11.2
67.5°	870.3	318.4	12.7	11.2	12.9	14.4	13.3	12.5	10.1	9.9	10.1
70°	419.8	153.5	10.5	9.0	10.1	11.2	10.8	10.1	9.7	11.2	12.9
72.5°	120.3	51.4	8.4	7.5	8.2	8.8	9.3	9.0	10.5	13.6	15.7
73°	92.6	41.5	8.0	7.1	7.7	8.6	9.0	8.8	10.8	13.8	15.7
75°	39.6	20.0	6.0	5.8	6.5	7.5	8.0	8.0	10.8	14.0	15.1
77.5°	17.9	10.8	3.9	4.5	5.6	6.0	6.7	6.7	8.6	10.8	10.8
80°	10.1	5.8	3.0	3.4	4.1	4.1	4.1	3.7	3.9	4.3	4.7
82.5°	6.5	3.9	2.4	2.8	2.6	2.2	1.7	1.7	1.5	1.7	2.2
85°	3.7	2.2	2.2	1.7	1.1	0.9	1.1	0.9	0.2	0.0	0.2
87.5°	2.2	1.3	0.6	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)