

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: P324102

Luminaire Tested: **GAN-SA8D-727-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324102
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38554 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

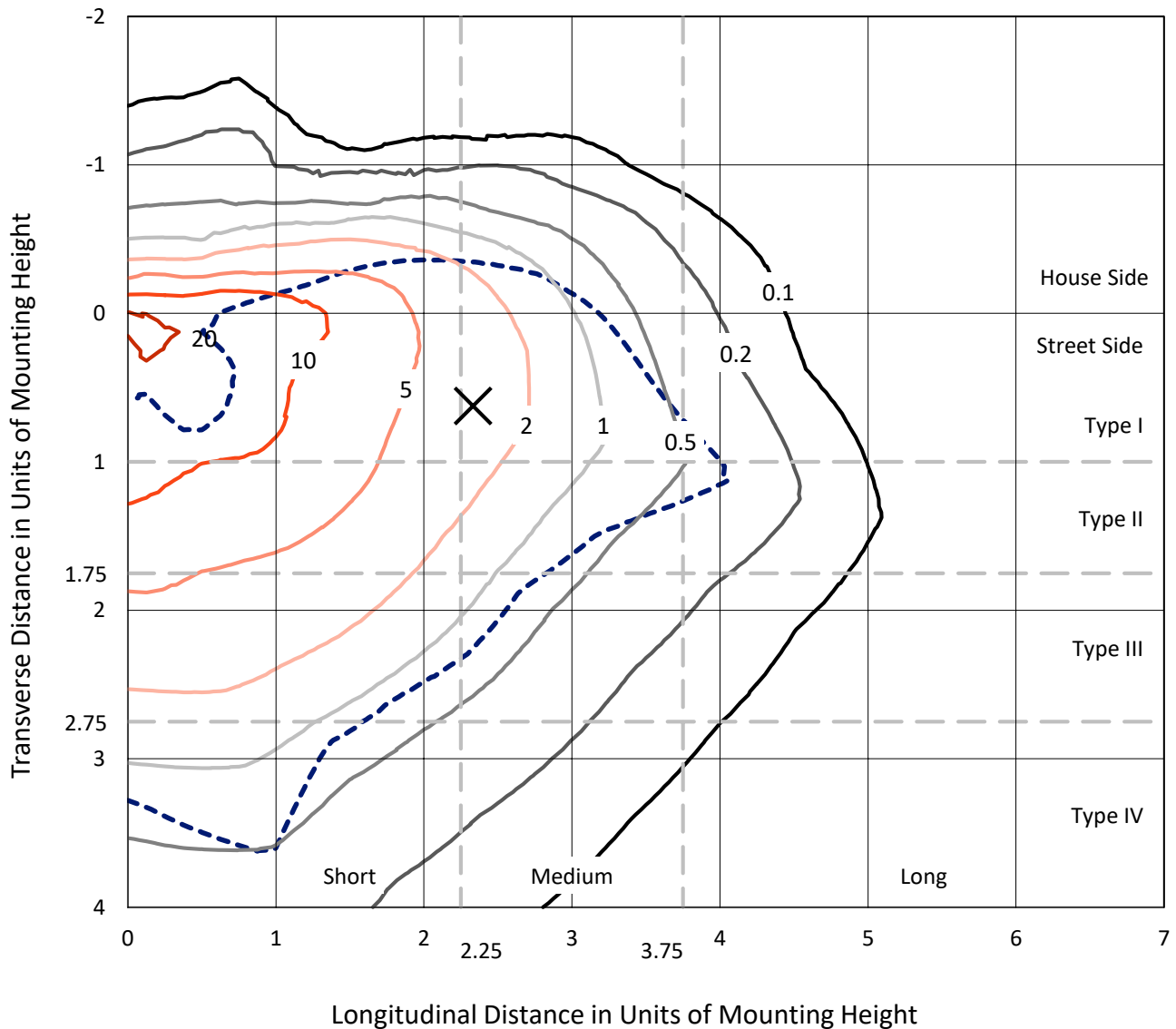
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

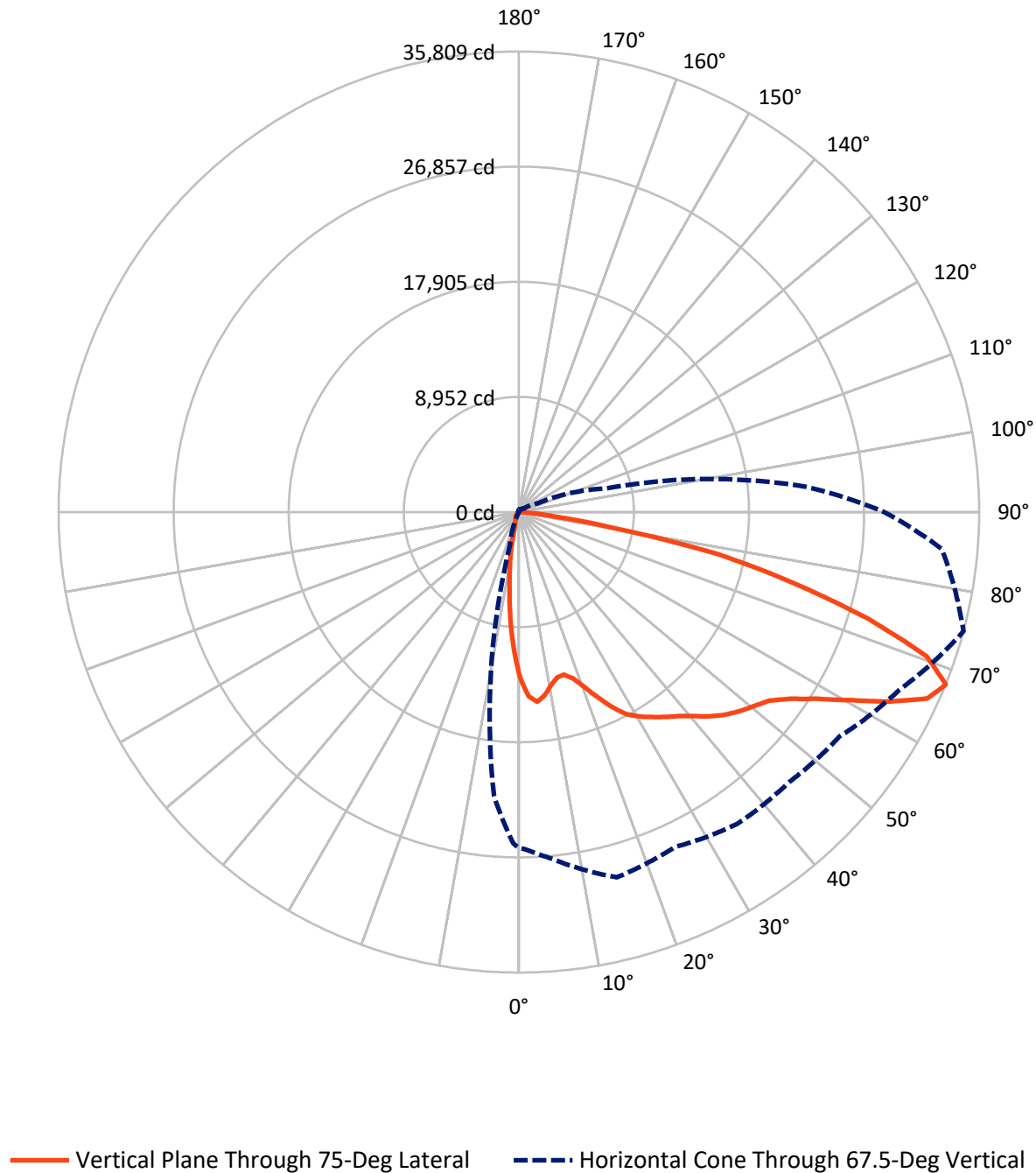
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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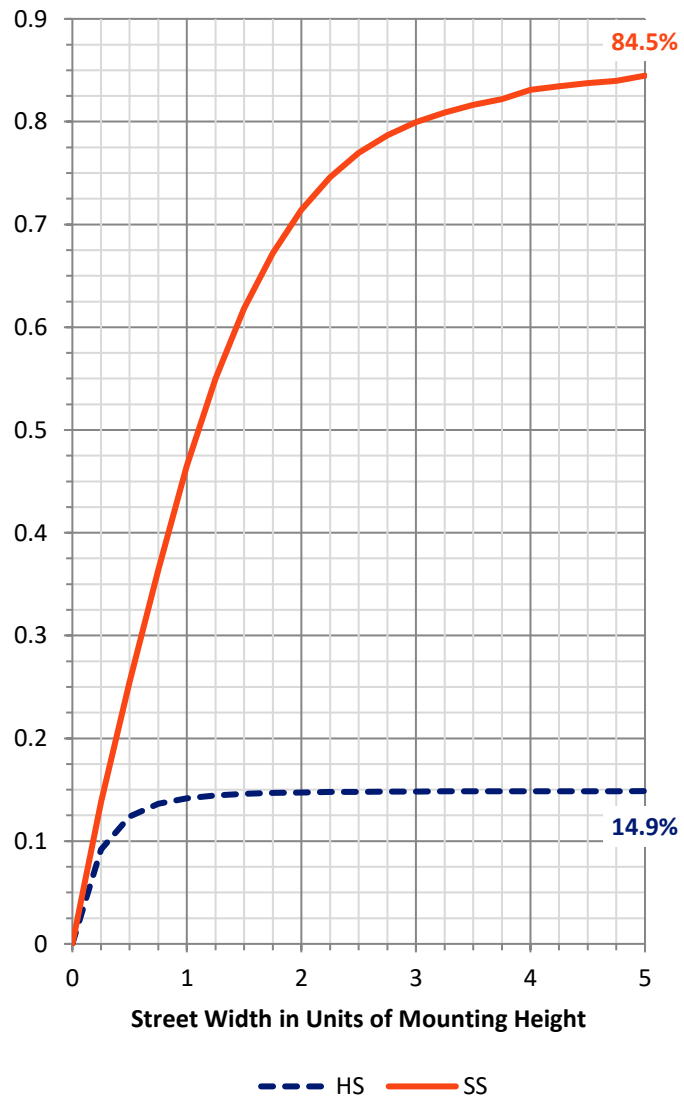
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5785.4	0.0	5785.4
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	32768.6	0.0	32768.6
	% Fixture	85.0	0.0	85.0
Total	Lumens	38554.0	0.0	38554.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	981.1	2.5
10°-20°	1931.8	5.0
20°-30°	2733.0	7.1
30°-40°	4018.3	10.4
40°-50°	5775.6	15.0
50°-60°	8130.5	21.1
60°-70°	9495.7	24.6
70°-80°	4844.4	12.6
80°-90°	643.5	1.7
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°	38554.0	100.0
0°-180°	38554.0	100.0

Coefficient of Utilization



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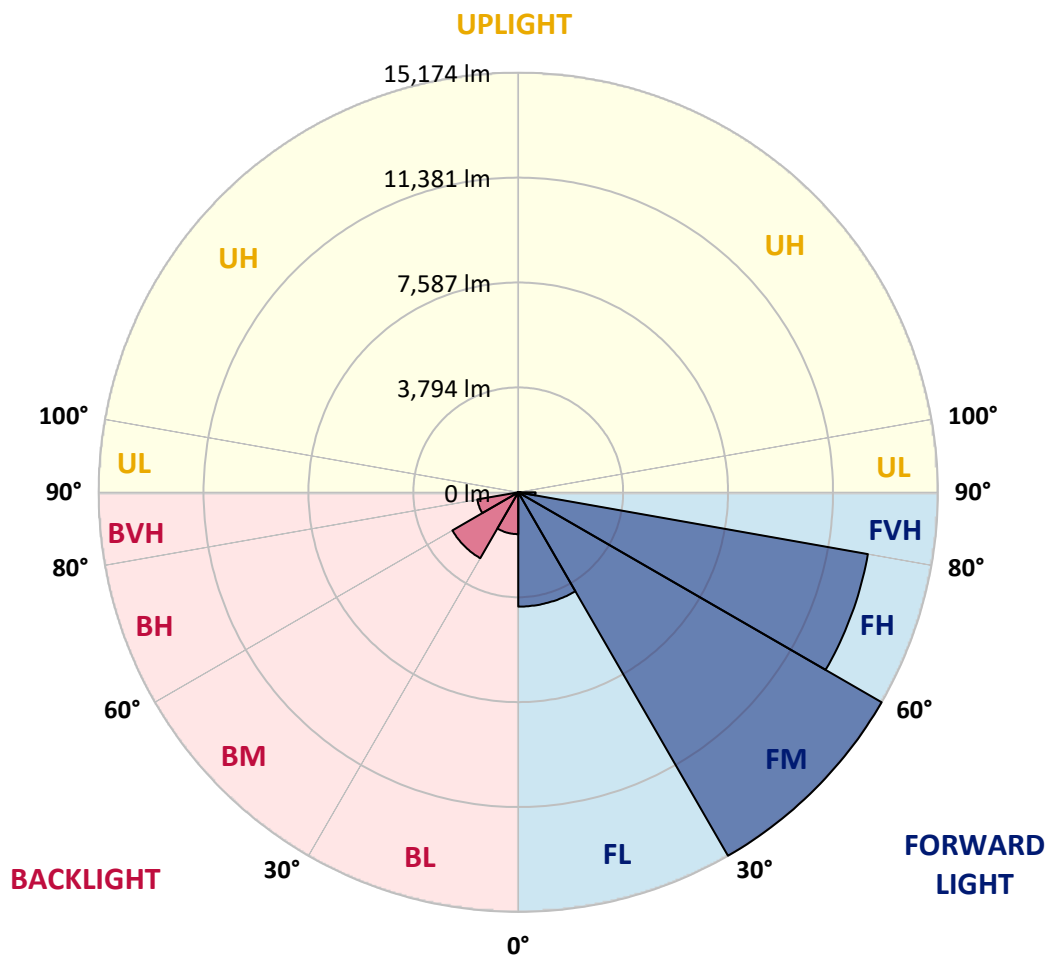
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4133.0	10.7			
FM	(30°-60°)	15174.2	39.4			
FH	(60°-80°)	12837.4	33.3			G5
FVH	(80°-90°)	624.0	1.6			G4/750
BL	(0°-30°)	1513.0	3.9	B3/2500		
BM	(30°-60°)	2750.2	7.1	B3/5000		
BH	(60°-80°)	1502.7	3.9	B3/2500		G3/2500
BVH	(80°-90°)	19.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12934.2	12934.2	12934.2	12934.2	12934.2	12934.2	12934.2	12934.2	12934.2	12934.2	12934.2
2.5°	14020.9	14042.8	14156.0	14419.0	14705.8	14727.7	14921.3	14722.2	14654.6	14333.2	14000.8
5°	14126.8	14210.8	14599.8	15372.4	16042.7	16258.2	16411.6	16020.7	15609.8	14824.5	13986.2
7.5°	13273.9	13414.5	14026.4	15476.5	16674.6	17204.2	17304.7	16692.8	15686.5	14393.5	13133.3
10°	12181.8	12342.5	13080.3	14862.8	16508.4	17416.1	17554.9	16753.1	15306.6	13695.8	12211.0
12.5°	11297.8	11485.9	12240.2	14172.5	15936.7	16941.2	17215.2	16550.4	14977.9	13200.9	11580.9
15°	10890.5	11106.0	11898.7	13726.8	15303.0	16093.8	16320.3	16033.5	14795.3	13122.3	11434.8
17.5°	11124.3	11358.1	12176.3	13765.2	14707.6	15045.5	15228.1	15345.0	14795.3	13595.3	11862.1
20°	12083.1	12335.2	13200.9	14154.2	14214.5	14088.5	14283.9	14694.8	14966.9	14493.9	12888.5
22.5°	13409.1	13704.9	14682.0	14820.8	13973.4	13496.7	13522.3	14167.0	15279.2	15633.6	14313.1
25°	15025.4	15387.0	16380.5	15814.4	14073.8	13144.2	13135.1	13732.3	15584.2	16775.0	15900.2
27.5°	16630.7	17028.9	17901.9	17027.1	14488.4	13080.3	13062.1	13600.8	15881.9	17790.5	17633.4
30°	17976.8	18363.9	19116.4	17905.5	14935.9	13230.1	13142.4	13741.5	16059.1	18449.8	18897.2
32.5°	19072.6	19383.0	19991.2	18510.1	15414.4	13520.5	13330.5	14117.7	16360.4	19006.8	20058.8
35°	20278.0	20604.9	20847.8	19085.4	15951.3	13938.7	13666.6	14714.9	16824.3	19573.0	21331.8
37.5°	21653.2	21978.3	21949.1	19611.3	16632.6	14630.9	14457.4	15660.9	17545.7	20133.7	22752.7
40°	22999.2	23331.6	23094.2	20186.6	17432.5	15772.4	15644.5	17081.8	18511.9	20851.4	24418.3
42.5°	24259.4	24619.2	24111.5	20730.9	18385.9	17211.5	17430.7	18911.8	19720.9	21735.4	25853.8
45°	25274.9	25641.9	24964.4	21260.5	19390.4	18957.5	19616.8	20939.1	21174.7	22482.4	26823.6
47.5°	26012.7	26359.7	25556.1	21790.2	20676.1	21092.5	22241.3	23065.0	22487.8	23130.7	27512.1
50°	26483.9	26754.2	25729.6	22453.1	22363.7	23583.7	24975.3	25377.1	23724.3	23715.1	28348.6
52.5°	26783.4	26905.8	25857.5	23145.3	24124.3	26295.8	27652.8	27778.8	24997.2	24358.0	29475.5
55°	27815.3	27913.9	26763.3	23983.6	25579.9	28671.9	30074.5	29957.6	26438.2	25616.4	30805.0
57.5°	29575.9	29680.0	28635.3	25189.0	26757.8	30140.2	31829.6	32039.7	28127.6	27384.3	32229.6
60°	30459.9	30653.5	30280.9	26715.8	27899.3	31079.0	33025.9	33696.1	30238.9	29714.7	33610.3
62.5°	29658.1	29939.3	30479.9	28408.9	29033.5	31595.8	33398.5	34289.7	32401.3	32430.5	34461.4
65°	28058.2	28282.8	29199.7	29336.7	29691.0	31531.9	32478.0	33460.6	33725.4	34925.3	34415.7
67.5°	26125.9	26209.9	26988.0	29409.7	28737.6	29610.6	29712.9	30439.8	32678.9	35809.2	33033.2
70°	23344.4	23390.1	24069.5	26964.2	24695.9	24887.7	24736.1	24884.0	28094.7	33656.0	29543.0
72.5°	18787.7	18902.7	19868.9	22392.9	17991.4	17438.0	18628.8	18563.0	21636.8	28434.4	21941.8
75°	13832.8	14031.8	15491.1	18037.0	12627.4	11422.0	12291.3	12523.3	15381.5	21994.7	13721.4
77.5°	9685.1	9833.1	11246.7	13259.3	9139.1	8167.4	7853.3	8129.1	10152.7	15911.2	6912.7
80°	5579.5	5634.3	6536.5	7656.1	6158.5	7046.1	6383.1	6573.0	6083.6	7078.9	2973.3
82.5°	3650.9	3660.0	4012.5	4556.7	3835.3	4456.3	3298.4	4217.0	3742.2	2843.6	968.0
85°	1972.5	1983.4	2326.8	3234.5	2171.5	1227.3	721.4	1481.2	2314.0	652.0	264.8
87.5°	217.3	199.1	701.3	1176.2	602.7	111.4	38.4	166.2	370.7	42.0	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12934.2	12934.2	12934.2	12934.2	12934.2	12934.2	12934.2	12934.2	12934.2	12934.2	12934.2
2.5°	13830.9	13679.4	13301.3	12901.3	12579.9	12278.5	11975.4	11604.6	11317.9	11259.4	11164.5
5°	13535.1	13054.7	12262.1	11465.8	10824.8	10015.7	9502.5	9102.5	8711.7	8687.9	8609.4
7.5°	12501.4	11869.4	10753.5	9652.3	8750.0	7979.3	7201.3	6680.8	6271.7	6127.4	6041.6
10°	11507.8	10797.4	9403.9	8147.3	7341.9	6660.7	6112.8	5568.5	5075.4	4735.7	4582.3
12.5°	10813.8	10028.5	8492.5	7409.5	6832.4	6185.8	5517.4	4838.0	4270.0	3860.9	3610.7
15°	10545.3	9707.0	8187.5	7117.3	6405.0	5586.8	4732.1	3955.9	3325.8	2955.0	2730.4
17.5°	10865.0	9889.7	8163.8	6761.1	5765.8	4748.5	3804.3	2887.5	2293.9	2012.6	1868.4
20°	11675.9	10470.5	8154.7	6324.6	5006.0	3755.0	2577.0	1899.4	1539.6	1382.5	1315.0
22.5°	12822.8	11212.0	8227.7	5893.6	4215.2	2682.9	1778.9	1395.3	1210.9	1126.9	1088.5
25°	14298.5	12253.0	8434.1	5502.8	3471.9	2001.7	1386.2	1168.9	1039.2	973.4	946.0
27.5°	15871.0	13451.1	8755.5	5163.1	2867.4	1596.2	1187.1	1000.8	907.7	862.0	836.5
30°	17167.7	14839.1	9080.6	4785.0	2429.0	1391.7	1086.7	913.2	805.4	776.2	752.5
32.5°	18301.8	15889.2	9310.7	4443.5	2142.3	1236.4	982.6	816.4	743.3	686.7	661.1
35°	19476.2	16764.1	9303.4	4204.3	1945.1	1119.6	894.9	730.5	642.9	577.1	557.0
37.5°	20747.3	17752.1	9144.5	3999.7	1859.2	1026.4	845.6	684.9	597.2	531.5	505.9
40°	22235.8	18789.5	8982.0	3807.9	1835.5	951.5	810.9	648.4	555.2	491.3	465.7
42.5°	23685.9	19724.6	8839.5	3665.5	1733.2	949.7	779.9	621.0	522.3	460.2	431.0
45°	24845.7	20595.7	8812.1	3579.6	1625.5	982.6	763.4	602.7	496.8	434.7	407.3
47.5°	25810.0	21541.8	8987.5	3519.4	1523.2	896.7	803.6	589.9	473.0	412.8	381.7
50°	26956.9	22703.4	9400.2	3420.8	1415.4	807.2	920.5	593.6	452.9	390.8	358.0
52.5°	28556.8	24310.5	10006.6	3254.6	1267.5	725.1	905.9	597.2	431.0	367.1	334.2
55°	30350.3	26317.7	10658.6	2978.8	1061.1	617.3	776.2	571.6	389.0	341.5	310.5
57.5°	32235.1	28138.6	11045.8	2650.0	843.8	533.3	621.0	520.5	343.4	306.8	286.7
60°	32530.9	28830.8	10868.6	2246.4	670.3	463.9	460.2	529.6	306.8	270.3	255.7
62.5°	31794.9	27961.4	10012.0	1886.6	560.7	407.3	378.1	462.1	277.6	241.1	226.5
65°	30379.5	25610.9	8624.0	1700.3	520.5	348.8	314.1	325.1	242.9	210.0	197.2
67.5°	28410.7	22473.2	7080.8	1594.4	515.0	299.5	268.5	246.6	210.0	182.6	171.7
70°	24385.4	18721.9	5648.9	1536.0	500.4	252.0	226.5	200.9	175.3	155.2	146.1
72.5°	17947.5	13266.6	4394.2	1472.0	504.1	200.9	197.2	166.2	140.6	120.5	116.9
75°	10370.0	7579.4	2882.0	1192.6	480.3	155.2	164.4	116.9	98.6	84.0	84.0
77.5°	5526.5	4622.5	1097.6	496.8	175.3	98.6	93.1	69.4	62.1	51.1	49.3
80°	2409.0	2034.6	330.6	138.8	96.8	53.0	34.7	31.0	27.4	21.9	20.1
82.5°	852.9	736.0	107.8	67.6	42.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	193.6	138.8	0.0	16.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	12934.2	12934.2	12934.2	12934.2	12934.2	12934.2	12934.2	12934.2	12934.2	12934.2	12934.2
2.5°	10970.9	10930.7	10693.3	10702.4	10744.4	10804.7	10662.2	10728.0	10905.1	11075.0	11138.9
5°	8483.4	8492.5	8348.2	8437.7	8518.1	8572.9	8342.8	8346.4	8487.0	8678.8	8779.3
7.5°	5977.6	5963.0	5970.3	6184.0	6335.6	6226.0	6311.9	6014.2	6032.4	6169.4	6067.1
10°	4443.5	4242.6	4129.4	4290.1	4456.3	4396.0	4248.1	4151.3	4218.9	4370.5	4359.5
12.5°	3492.0	3203.4	3033.6	2918.5	3055.5	2942.2	2938.6	2854.6	2763.3	2779.7	3022.6
15°	2626.3	2416.3	2215.4	2030.9	2027.2	1988.9	1793.5	1574.3	1556.0	1567.0	1693.0
17.5°	1806.3	1735.0	1652.8	1494.0	1451.9	1291.2	1101.3	1013.6	969.8	989.9	1031.9
20°	1269.3	1241.9	1251.0	1165.2	1104.9	951.5	840.1	805.4	798.1	818.2	838.3
22.5°	1052.0	1002.7	997.2	958.8	898.6	787.2	726.9	706.8	697.7	715.9	730.5
25°	920.5	871.2	851.1	827.3	763.4	686.7	650.2	631.9	622.8	633.7	642.9
27.5°	810.9	765.2	747.0	730.5	668.4	613.7	584.4	568.0	560.7	564.3	573.5
30°	728.7	688.5	664.8	644.7	591.7	553.4	527.8	511.4	504.1	504.1	513.2
32.5°	642.9	621.0	599.0	573.5	524.2	498.6	473.0	454.8	447.5	449.3	456.6
35°	535.1	527.8	533.3	509.6	467.5	445.6	420.1	400.0	394.5	396.3	403.6
37.5°	474.9	442.0	462.1	449.3	425.5	396.3	363.4	345.2	336.0	341.5	345.2
40°	436.5	396.3	381.7	394.5	390.8	343.4	314.1	295.9	288.6	290.4	294.0
42.5°	403.6	356.1	323.3	321.4	343.4	299.5	268.5	252.0	242.9	242.9	246.6
45°	372.6	321.4	281.3	250.2	288.6	253.9	224.6	210.0	199.1	199.1	200.9
47.5°	348.8	292.2	244.7	204.6	217.3	208.2	184.5	169.9	158.9	158.9	160.7
50°	326.9	263.0	211.9	171.7	162.5	171.7	149.8	133.3	126.0	124.2	127.8
52.5°	303.2	233.8	180.8	146.1	127.8	129.7	116.9	105.9	96.8	96.8	100.4
55°	279.4	210.0	157.1	124.2	105.9	96.8	93.1	85.8	78.5	78.5	82.2
57.5°	255.7	184.5	133.3	102.3	84.0	76.7	76.7	71.2	65.7	65.7	69.4
60°	233.8	158.9	109.6	84.0	65.7	63.9	65.7	60.3	56.6	56.6	60.3
62.5°	208.2	135.1	89.5	69.4	53.0	51.1	56.6	53.0	49.3	49.3	53.0
65°	177.2	115.1	71.2	53.0	40.2	40.2	47.5	43.8	40.2	40.2	43.8
67.5°	149.8	96.8	54.8	38.4	29.2	31.0	40.2	36.5	34.7	34.7	38.4
70°	124.2	74.9	38.4	23.7	16.4	23.7	31.0	31.0	31.0	31.0	34.7
72.5°	93.1	51.1	21.9	9.1	7.3	16.4	25.6	29.2	27.4	27.4	32.9
75°	60.3	29.2	7.3	0.0	0.0	9.1	20.1	23.7	23.7	21.9	27.4
77.5°	34.7	9.1	0.0	0.0	0.0	0.0	12.8	11.0	9.1	7.3	12.8
80°	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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

REPORT NUMBER: P324102

CATALOG NUMBER: GAN-SA8D-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12934.2	12934.2	12934.2	12934.2	12934.2	12934.2	12934.2	12934.2	12934.2	12934.2
2.5°	11396.4	11611.9	11915.1	12236.5	12731.5	13124.1	13509.5	13840.1	13967.9	14020.9
5°	9020.3	9336.3	9780.1	10349.9	11243.0	12046.6	12861.2	13681.2	14037.3	14126.8
7.5°	6472.6	6876.2	7440.5	8154.7	9201.1	10242.2	11380.0	12583.5	13135.1	13273.9
10°	4790.5	5283.6	5930.2	6682.6	7681.6	8751.9	9992.0	11367.2	11997.3	12181.8
12.5°	3398.8	4065.5	4931.1	5846.1	6711.8	7667.0	8921.7	10437.6	11098.7	11297.8
15°	1996.2	2640.9	3665.5	4891.0	5999.6	6967.5	8242.3	9960.9	10689.6	10890.5
17.5°	1145.1	1466.6	2240.9	3607.0	5112.0	6452.5	8028.6	10079.6	10938.0	11124.3
20°	874.8	977.1	1291.2	2323.1	4074.6	5946.6	8028.6	10751.7	11809.2	12083.1
22.5°	765.2	840.1	968.0	1386.2	2998.9	5404.2	8121.8	11723.3	13105.9	13409.1
25°	679.4	747.0	856.6	1042.8	2045.5	4759.5	8342.8	12915.9	14632.7	15025.4
27.5°	608.2	672.1	770.7	913.2	1399.0	3981.4	8640.5	14314.9	16316.6	16630.7
30°	544.3	604.5	694.0	794.5	1079.4	3099.3	8894.3	15633.6	17638.9	17976.8
32.5°	484.0	538.8	619.1	694.0	884.0	2292.1	8921.7	16678.2	18736.5	19072.6
35°	427.4	476.7	549.7	608.2	732.4	1809.9	8496.2	17584.1	19834.2	20278.0
37.5°	372.6	420.1	484.0	527.8	644.7	1475.7	7846.0	18594.1	21242.3	21653.2
40°	321.4	363.4	429.2	458.4	610.0	1134.2	7139.2	19653.3	22623.0	22999.2
42.5°	274.0	314.1	378.1	434.7	535.1	847.4	6375.8	20646.9	23864.9	24259.4
45°	228.3	270.3	334.2	460.2	443.8	633.7	5559.4	21306.2	24845.7	25274.9
47.5°	184.5	231.9	319.6	438.3	354.3	465.7	4912.9	21930.8	25589.0	26012.7
50°	147.9	195.4	359.8	390.8	290.4	356.1	4642.6	22489.7	26076.6	26483.9
52.5°	120.5	164.4	339.7	299.5	242.9	294.0	4788.7	23395.5	26527.7	26783.4
55°	100.4	129.7	204.6	208.2	206.4	250.2	4969.5	24695.9	27694.8	27815.3
57.5°	87.7	104.1	142.5	160.7	173.5	222.8	4973.1	26562.4	29501.0	29575.9
60°	74.9	91.3	118.7	129.7	149.8	199.1	4792.3	27214.4	30211.5	30459.9
62.5°	65.7	80.4	98.6	107.8	126.0	179.0	4368.6	26270.2	29236.2	29658.1
65°	58.4	73.1	82.2	91.3	111.4	160.7	3671.0	24381.8	27618.1	28058.2
67.5°	51.1	63.9	73.1	82.2	100.4	142.5	2703.0	22188.3	25760.7	26125.9
70°	45.7	56.6	65.7	73.1	87.7	120.5	1640.1	18827.8	23192.8	23344.4
72.5°	43.8	51.1	60.3	65.7	76.7	105.9	831.0	13836.4	18541.1	18787.7
75°	38.4	45.7	54.8	58.4	67.6	91.3	337.9	9087.9	13436.5	13832.8
77.5°	31.0	42.0	49.3	53.0	58.4	74.9	171.7	5807.8	9429.4	9685.1
80°	11.0	31.0	42.0	43.8	49.3	54.8	113.2	3179.7	5469.9	5579.5
82.5°	0.0	20.1	32.9	31.0	34.7	42.0	73.1	1512.2	3610.7	3650.9
85°	0.0	9.1	25.6	20.1	14.6	29.2	25.6	330.6	1893.9	1972.5
87.5°	0.0	0.0	1.8	9.1	7.3	11.0	3.7	1.8	171.7	217.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)