

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: P324414

Luminaire Tested: **GAN-SA0C-727-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324414
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0C-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43401 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

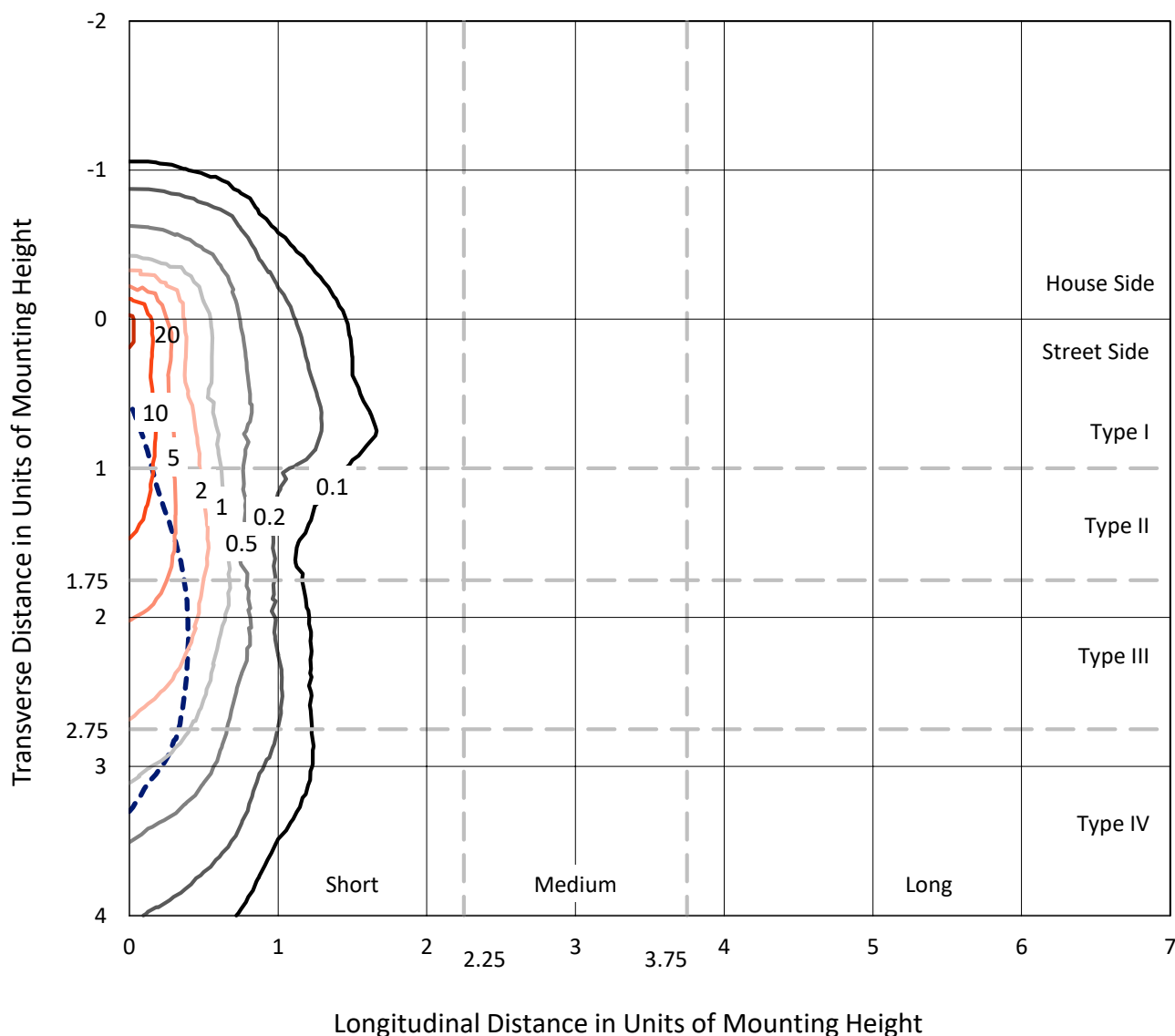
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

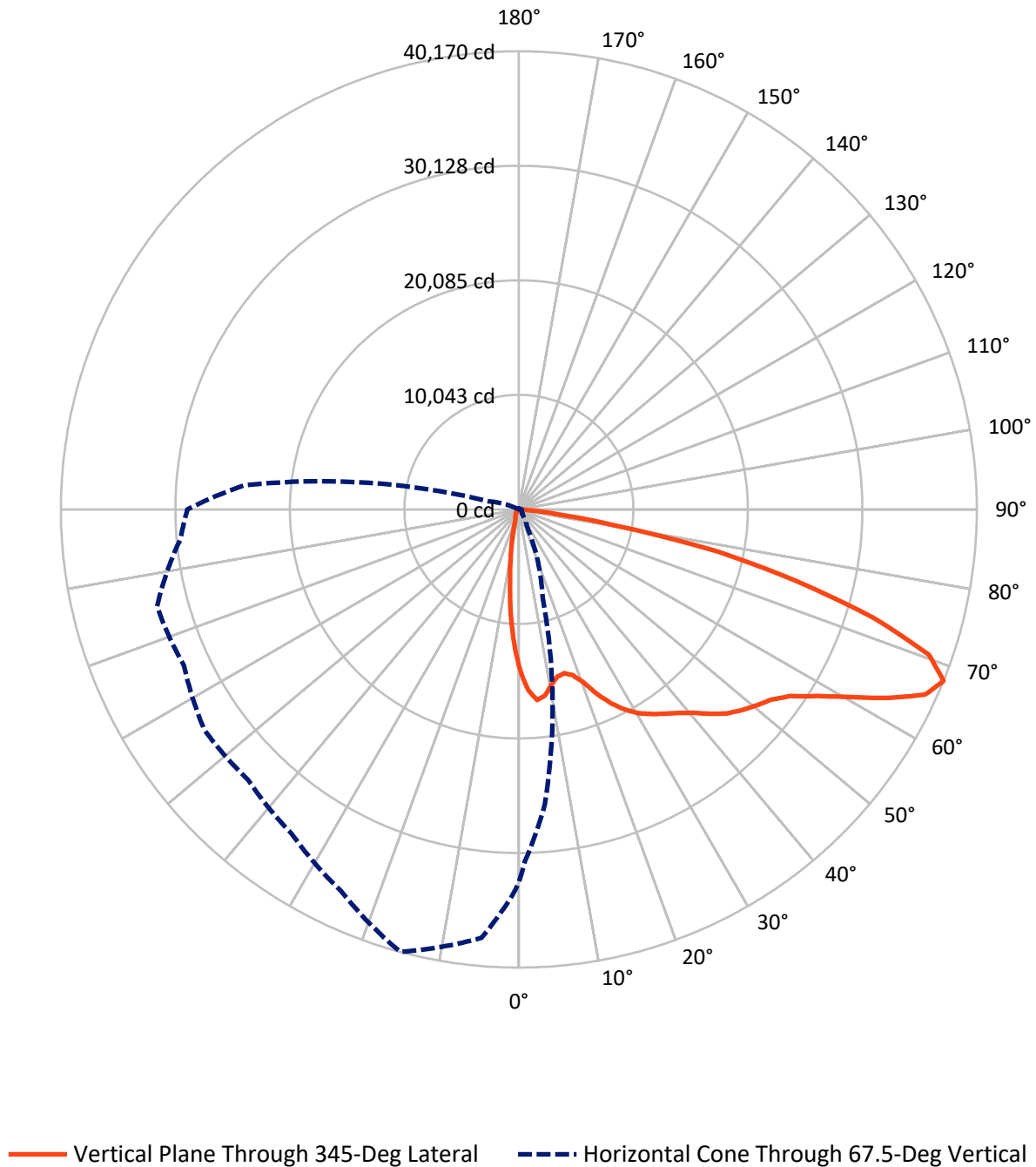
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5252.9	0.0	5252.9
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	38148.1	0.0	38148.1
	% Fixture	87.9	0.0	87.9
Total	Lumens	43401.0	0.0	43401.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1085.1	2.5
10°-20°	2159.8	5.0
20°-30°	3066.9	7.1
30°-40°	4530.0	10.4
40°-50°	6533.2	15.1
50°-60°	9171.3	21.1
60°-70°	10691.1	24.6
70°-80°	5465.5	12.6
80°-90°	698.0	1.6
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°	43401.0	100.0
0°-180°	43401.0	100.0

Coefficient of Utilization



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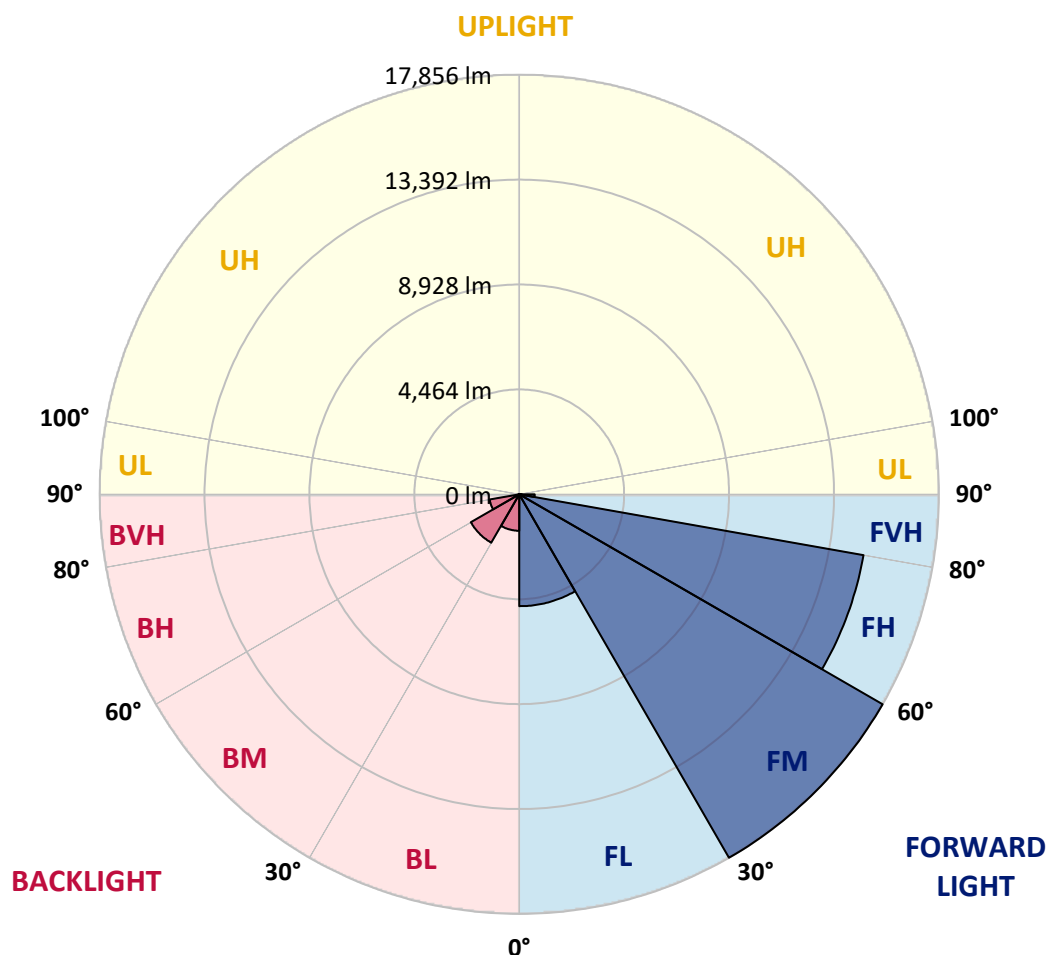
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4760.2	11.0			
FM	(30°-60°)	17855.9	41.1			
FH	(60°-80°)	14876.3	34.3			G5
FVH	(80°-90°)	655.6	1.5			G4/750
BL	(0°-30°)	1551.5	3.6	B3/2500		
BM	(30°-60°)	2378.7	5.5	B2/2500		
BH	(60°-80°)	1280.3	2.9	B3/2500		G3/2500
BVH	(80°-90°)	42.4	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14137.8	14137.8	14137.8	14137.8	14137.8	14137.8	14137.8	14137.8	14137.8	14137.8	14137.8
2.5°	15480.4	15361.2	15229.6	14799.9	14401.0	13944.5	13572.4	13313.3	12988.4	12566.9	12460.0
5°	15369.4	15241.9	14828.6	13872.6	13035.7	12221.5	11436.1	10975.5	10403.9	9824.1	9680.2
7.5°	14252.9	14119.3	13523.0	12213.3	11086.5	9910.4	8890.6	8259.4	7613.8	7083.3	6801.6
10°	13091.2	12945.3	12275.0	10685.6	9297.7	8234.7	7486.3	6883.8	6273.2	5705.7	5253.4
12.5°	12291.4	12100.2	11372.3	9571.2	8362.2	7640.5	6941.4	6219.7	5393.2	4784.6	4287.0
15°	11956.3	11738.3	10969.3	9141.5	8031.2	7184.0	6273.2	5387.0	4418.6	3721.6	3265.1
17.5°	12215.3	11931.6	11107.1	9112.7	7615.8	6462.3	5310.9	4270.5	3219.9	2514.6	2189.8
20°	13095.3	12723.2	11676.6	9104.4	7112.1	5604.9	4145.1	2969.0	2121.9	1706.6	1535.9
22.5°	14481.2	13989.8	12495.0	9170.2	6591.9	4704.4	2993.7	2017.0	1593.5	1377.6	1276.8
25°	16154.8	15585.3	13673.1	9402.6	6135.4	3828.5	2175.4	1593.5	1344.7	1186.4	1102.1
27.5°	17746.3	17283.6	15161.7	9737.7	5781.8	3121.2	1766.2	1350.9	1149.4	1044.5	976.7
30°	19335.6	18753.8	16689.4	10136.6	5356.2	2642.1	1552.4	1231.6	1030.1	919.1	875.9
32.5°	20491.2	20008.0	17886.1	10424.5	4901.8	2329.6	1387.9	1126.7	962.3	849.2	785.4
35°	21850.3	21303.3	18912.1	10488.2	4609.8	2132.2	1248.1	1013.7	834.8	734.0	666.2
37.5°	23318.3	22637.7	20096.4	10348.4	4381.6	2035.5	1143.2	962.3	779.3	676.5	604.5
40°	24942.6	24173.7	21233.4	10146.9	4157.4	2002.6	1063.0	923.2	736.1	631.2	557.2
42.5°	26653.3	25746.6	22218.3	9935.1	4015.6	1889.6	1054.8	884.1	703.2	590.1	516.1
45°	28090.5	27171.5	23229.9	9865.2	3914.8	1766.2	1089.7	857.4	680.6	557.2	485.2
47.5°	29235.8	28366.1	24266.2	10021.5	3857.3	1653.1	993.1	892.4	668.2	528.4	458.5
50°	30603.1	29618.2	25726.0	10488.2	3773.0	1540.0	898.5	1021.9	668.2	509.9	435.9
52.5°	32317.9	31343.3	27354.5	11212.0	3604.4	1383.8	808.1	1023.9	674.4	485.2	407.1
55°	34474.8	33767.5	29679.9	12005.6	3335.0	1153.5	699.1	880.0	649.7	440.0	380.4
57.5°	36543.2	35965.4	31799.8	12548.4	2975.2	900.6	608.6	709.4	594.2	386.5	339.3
59°	37108.6	36477.4	32577.0	12573.1	2705.8	785.4	563.4	586.0	581.9	361.9	314.6
60°	37108.6	36438.3	32801.1	12441.5	2510.5	721.7	534.6	522.3	606.6	345.4	300.2
62.5°	36436.3	35494.6	32073.2	11551.2	2047.9	614.8	466.7	431.8	544.9	310.5	265.2
65°	35038.1	33666.7	29593.6	9941.3	1825.8	563.4	403.0	353.7	378.3	273.5	232.3
67.5°	32706.5	30847.8	26018.0	8031.2	1737.4	549.0	347.5	300.2	285.8	234.4	203.6
70°	28600.5	26538.2	21677.5	6314.3	1661.3	542.8	292.0	252.9	230.3	197.4	172.7
72.5°	20816.0	18665.3	15390.0	4936.7	1616.1	555.1	234.4	211.8	189.2	154.2	133.6
75°	11906.9	10498.5	8650.0	3261.0	1377.6	530.5	180.9	176.8	135.7	111.0	92.5
77.5°	6151.9	5964.8	5183.4	1252.2	660.0	232.3	119.3	102.8	80.2	67.9	55.5
80°	2654.4	2625.6	2272.0	361.9	174.8	129.5	67.9	43.2	37.0	28.8	22.6
82.5°	917.0	917.0	808.1	121.3	78.1	63.7	8.2	0.0	0.0	0.0	0.0
85°	185.0	207.7	146.0	0.0	26.7	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14137.8	14137.8	14137.8	14137.8	14137.8	14137.8	14137.8	14137.8	14137.8	14137.8	14137.8
2.5°	12330.5	12081.7	12065.2	11909.0	11713.6	11625.2	11573.8	11664.3	11775.3	11787.7	11954.2
5°	9571.2	9310.1	9419.0	9141.5	9197.0	9141.5	9051.0	9067.4	9116.8	8962.6	9153.8
7.5°	6721.4	6524.0	6649.5	6575.4	6674.1	6713.2	6657.7	6575.4	6332.8	6304.0	6470.6
10°	5066.2	4842.1	4708.5	4568.7	4599.5	4663.3	4642.7	4583.1	4428.9	4437.1	4597.5
12.5°	4071.1	3820.2	3555.0	3211.6	3127.3	3174.6	3127.3	3092.4	2944.3	2956.7	3098.6
15°	3088.3	2882.7	2605.1	2329.6	2179.5	2193.9	2062.3	1969.8	1877.2	1766.2	1852.6
17.5°	2084.9	1959.5	1877.2	1795.0	1616.1	1575.0	1408.4	1229.6	1159.6	1108.2	1145.3
20°	1476.3	1408.4	1375.5	1371.4	1268.6	1217.2	1054.8	943.8	908.8	898.5	921.1
22.5°	1233.7	1184.3	1137.0	1110.3	1058.9	999.3	875.9	820.4	795.7	783.4	799.8
25°	1073.3	1036.3	986.9	941.7	921.1	857.4	769.0	727.9	711.4	699.1	707.3
27.5°	954.0	921.1	863.6	834.8	818.3	762.8	686.7	653.8	639.4	635.3	633.3
30°	859.5	828.6	775.2	742.3	713.5	664.1	618.9	586.0	571.6	567.5	563.4
32.5°	764.9	740.2	705.2	672.3	641.5	596.3	557.2	530.5	507.9	503.7	501.7
35°	645.6	620.9	602.4	600.4	571.6	528.4	499.6	464.7	446.2	440.0	442.1
37.5°	573.7	540.8	499.6	514.0	505.8	475.0	435.9	400.9	382.4	378.3	378.3
40°	528.4	493.5	446.2	421.5	446.2	440.0	378.3	343.4	324.9	322.8	318.7
42.5°	485.2	450.3	396.8	355.7	368.0	386.5	326.9	294.0	275.5	271.4	265.2
45°	454.4	417.4	357.8	310.5	285.8	324.9	279.6	238.5	228.2	220.0	215.9
47.5°	425.6	390.7	322.8	269.4	228.2	234.4	224.1	195.3	183.0	174.8	172.7
50°	400.9	363.9	292.0	230.3	189.2	172.7	180.9	154.2	143.9	135.7	131.6
52.5°	372.2	337.2	259.1	199.4	158.3	135.7	137.8	121.3	111.0	104.9	102.8
55°	349.5	314.6	232.3	174.8	139.8	111.0	98.7	94.6	88.4	84.3	82.2
57.5°	318.7	285.8	205.6	148.0	119.3	90.5	76.1	76.1	74.0	69.9	67.9
59°	300.2	271.4	189.2	133.6	109.0	78.1	67.9	69.9	67.9	63.7	61.7
60°	285.8	259.1	176.8	123.4	102.8	72.0	61.7	65.8	63.7	59.6	57.6
62.5°	252.9	234.4	152.2	102.8	90.5	57.6	51.4	55.5	55.5	53.5	51.4
65°	222.1	201.5	129.5	86.4	84.3	49.3	41.1	49.3	51.4	47.3	43.2
67.5°	193.3	172.7	113.1	69.9	78.1	39.1	30.8	41.1	55.5	43.2	39.1
70°	164.5	143.9	88.4	55.5	82.2	26.7	24.7	37.0	65.8	47.3	37.0
72.5°	127.5	111.0	61.7	41.1	88.4	18.5	18.5	30.8	74.0	51.4	35.0
75°	88.4	72.0	37.0	24.7	72.0	12.3	12.3	28.8	69.9	47.3	32.9
77.5°	51.4	39.1	12.3	2.1	37.0	0.0	2.1	20.6	49.3	28.8	14.4
80°	18.5	8.2	0.0	0.0	22.6	0.0	0.0	0.0	4.1	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

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	14137.8	14137.8	14137.8	14137.8	14137.8	14137.8	14137.8	14137.8	14137.8	14137.8	14137.8
2.5°	11997.4	12275.0	12523.8	12900.0	13346.2	13860.2	14302.3	14777.2	15223.4	15408.5	15535.9
5°	9192.9	9536.2	9937.2	10490.3	11226.3	12133.1	12982.3	13942.5	14974.6	15490.7	15976.0
7.5°	6499.4	6848.9	7346.5	7934.5	8824.8	9904.3	11014.6	12340.8	13738.9	14555.2	15359.1
10°	4673.5	5103.3	5567.9	6371.9	7276.6	8300.5	9443.7	10924.1	12482.6	13387.3	14355.7
12.5°	3180.8	3670.2	4373.3	5273.9	6336.9	7340.3	8333.4	9745.9	11555.3	12451.8	13490.1
15°	1908.1	2179.5	2923.8	3966.2	5269.8	6519.9	7607.6	9024.3	10952.9	12050.8	13130.3
17.5°	1176.1	1301.5	1706.6	2561.9	3931.3	5512.4	7003.1	8779.6	11039.2	12375.7	13531.2
20°	937.6	986.9	1116.5	1513.3	2605.1	4402.1	6322.5	8730.2	11744.5	13389.4	14629.2
22.5°	814.2	861.5	947.9	1100.0	1638.7	3295.9	5676.9	8775.5	12756.1	14908.8	16356.3
25°	717.6	758.7	840.9	966.4	1200.8	2321.3	4986.1	8977.0	14074.1	16794.3	18332.3
27.5°	641.5	676.5	752.5	867.7	1030.1	1620.2	4202.7	9221.6	15636.7	18722.9	20240.3
30°	571.6	602.4	670.3	777.2	894.4	1246.0	3343.2	9388.2	17201.4	20240.3	21603.5
32.5°	512.0	534.6	596.3	686.7	777.2	993.1	2541.3	9361.5	18363.1	21502.8	22584.3
35°	450.3	472.9	526.4	604.5	676.5	820.4	1998.5	8861.8	19374.7	22812.5	23706.9
37.5°	382.4	411.2	462.6	532.5	581.9	721.7	1616.1	8259.4	20400.7	24309.4	24959.1
40°	324.9	353.7	398.9	475.0	505.8	684.7	1241.9	7525.4	21554.2	25983.0	26332.6
42.5°	269.4	296.1	343.4	409.2	477.0	590.1	919.1	6686.5	22662.4	27414.1	27584.7
45°	217.9	244.7	294.0	359.8	509.9	489.4	711.4	5787.9	23556.8	28604.6	28660.1
47.5°	172.7	197.4	248.8	339.3	475.0	390.7	507.9	5082.7	24307.3	29533.9	29387.9
50°	133.6	154.2	207.7	388.6	415.3	322.8	384.5	4848.3	24979.7	30109.6	29731.3
52.5°	104.9	123.4	170.7	363.9	322.8	267.3	322.8	5068.3	25900.8	30586.7	29924.6
55°	84.3	102.8	133.6	207.7	220.0	226.2	275.5	5273.9	27490.2	31705.2	31065.7
57.5°	69.9	88.4	109.0	146.0	166.5	191.2	244.7	5296.5	29363.3	33563.9	32959.4
59°	63.7	80.2	98.7	129.5	146.0	174.8	230.3	5173.2	30023.3	34240.4	33938.1
60°	59.6	76.1	92.5	119.3	135.7	164.5	222.1	5056.0	30052.1	34215.7	34355.5
62.5°	51.4	67.9	82.2	100.7	115.1	139.8	199.4	4622.1	28834.9	33095.1	34104.7
65°	45.2	59.6	74.0	86.4	98.7	125.4	180.9	3830.5	26756.1	31287.8	32387.8
67.5°	41.1	51.4	67.9	76.1	88.4	111.0	160.4	2730.5	24159.3	29077.5	29790.9
70°	37.0	49.3	61.7	69.9	80.2	96.6	137.8	1568.8	20400.7	25841.2	26349.0
72.5°	35.0	47.3	55.5	65.8	72.0	86.4	125.4	738.1	14937.6	20700.9	22027.1
75°	30.8	43.2	51.4	61.7	67.9	78.1	106.9	353.7	9935.1	14980.8	16487.9
77.5°	18.5	35.0	47.3	55.5	59.6	67.9	88.4	203.6	6341.0	10369.0	12213.3
80°	0.0	12.3	35.0	47.3	51.4	57.6	67.9	160.4	3392.6	5923.6	7110.0
82.5°	0.0	0.0	24.7	37.0	35.0	39.1	51.4	100.7	1529.7	3871.7	4363.1
85°	0.0	0.0	8.2	28.8	24.7	18.5	35.0	35.0	335.1	1959.5	2444.7
87.5°	0.0	0.0	0.0	2.1	12.3	8.2	14.4	4.1	2.1	146.0	592.2
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: P324414

CATALOG NUMBER: GAN-SA0C-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14137.8	14137.8	14137.8	14137.8	14137.8	14137.8	14137.8	14137.8	14137.8	14137.8
2.5°	15982.1	16134.3	16391.3	16512.6	16453.0	16200.1	15897.8	15589.4	15408.5	15480.4
5°	16964.9	17748.3	18200.7	18350.8	18099.9	17532.4	16790.2	15811.5	15464.0	15369.4
7.5°	16964.9	18439.2	19372.6	19537.1	18977.9	17865.5	16473.5	14945.8	14438.0	14252.9
10°	16368.7	18375.4	19676.9	19938.1	19156.8	17493.4	15628.5	13884.9	13282.5	13091.2
12.5°	15696.3	17857.3	19228.7	19588.5	18947.0	17123.3	15042.5	13167.3	12458.0	12291.4
15°	15283.0	17219.9	18354.9	18616.0	18344.6	16907.4	14902.7	12951.4	12116.6	11956.3
17.5°	15431.1	16726.4	17135.6	17287.8	17470.7	16831.3	15283.0	13424.3	12367.5	12215.3
20°	15988.3	16206.2	15994.5	16185.7	16679.1	16905.3	16189.8	14567.5	13298.9	13095.3
22.5°	16934.1	15936.9	15342.7	15418.8	16019.1	17150.0	17575.6	16200.1	14736.1	14481.2
25°	18036.2	16154.8	14980.8	14912.9	15529.8	17472.8	18842.2	17976.5	16436.5	16154.8
27.5°	19422.0	16644.2	14906.8	14838.9	15359.1	17775.0	19894.9	19732.5	18227.4	17746.3
30°	20491.2	17125.3	15126.8	14970.5	15529.8	17984.8	20740.0	21223.1	19654.3	19335.6
32.5°	21258.1	17692.8	15484.5	15258.4	16010.9	18346.6	21391.7	22588.4	20974.4	20491.2
35°	21842.0	18309.6	16062.3	15690.2	16673.0	18895.6	22002.4	24042.1	22378.7	21850.3
37.5°	22389.0	19175.3	16964.9	16520.8	17711.3	19779.8	22648.0	25691.1	23949.5	23318.3
40°	23151.8	20156.0	18356.9	17962.2	19456.9	20984.6	23454.0	27410.0	25736.3	24942.6
42.5°	23914.6	21208.7	19781.8	19888.7	21634.4	22448.6	24494.4	29227.6	27500.4	26653.3
45°	24611.6	22294.4	21811.2	22304.7	23655.5	24054.4	25528.6	30278.2	28908.9	28090.5
47.5°	25232.6	23651.4	23828.2	25142.1	25954.2	25508.1	26301.7	31185.0	29957.5	29235.8
50°	25954.2	25407.3	26486.8	28345.5	28600.5	26824.0	27004.9	32258.3	31182.9	30603.1
52.5°	26743.8	27257.8	29431.1	31069.8	30987.6	28253.0	27712.2	33461.1	32862.8	32317.9
55°	27640.3	28752.6	32023.9	33619.4	33549.5	29848.5	28884.2	34947.7	34968.2	34474.8
57.5°	28970.6	30039.7	33783.9	35681.7	35798.9	31690.8	30870.4	36613.1	36872.2	36543.2
59°	29924.6	30874.5	34480.9	36543.2	37020.2	33115.7	32322.0	37579.5	37408.8	37108.6
60°	30631.9	31405.0	34826.3	36993.5	37729.6	34082.0	33393.2	38147.0	37472.6	37108.6
62.5°	32381.6	32560.5	35449.3	37503.4	38545.8	36228.6	36407.5	39113.3	37030.5	36436.3
65°	33197.9	33290.4	35441.1	36590.5	37756.3	37900.2	39142.1	39142.1	35951.0	35038.1
67.5°	32856.6	32410.4	33683.2	33563.9	34727.7	36907.1	40170.2	37707.0	33886.7	32706.5
70°	30080.9	28364.0	27798.6	27850.0	28740.3	32102.0	38134.6	33483.7	29980.1	28600.5
72.5°	25029.0	20910.6	19514.5	21108.0	21340.3	24671.2	32498.8	25216.1	22109.3	20816.0
75°	20131.3	14740.2	12470.3	14152.2	14547.0	18054.7	25140.0	15704.5	12914.4	11906.9
77.5°	14462.7	10580.7	8948.2	8831.0	9340.9	11450.5	17838.8	7903.7	6591.9	6151.9
80°	8216.2	6964.0	7498.6	7075.1	7332.1	7159.4	8475.3	3466.6	2839.5	2654.4
82.5°	4959.3	4116.3	4457.6	3711.3	4696.1	4089.6	3265.1	1110.3	964.3	917.0
85°	3226.0	2249.4	1172.0	785.4	1618.2	2613.3	729.9	302.2	232.3	185.0
87.5°	1112.4	573.7	57.6	24.7	172.7	487.3	26.7	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

(END OF REPORT)