

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: P268851

Luminaire Tested: **GAN-AF-09-LED-U-SLL-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268851
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-SLL-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32826.6 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 374
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: 28.75 FT

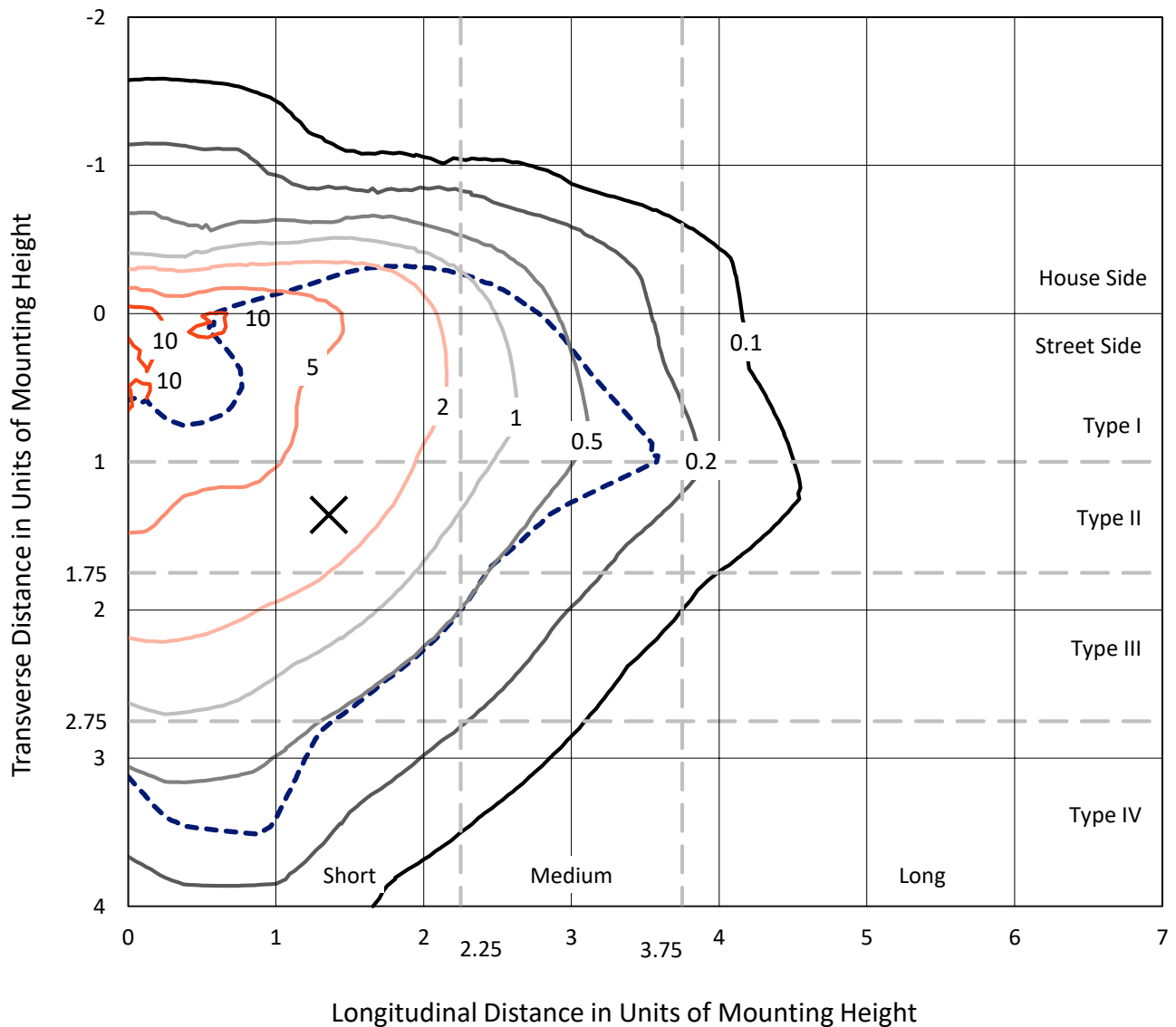


REPORT NUMBER: P268851

CATALOG NUMBER: GAN-AF-09-LED-U-SLL-7027-800

Iso-Footcandle Lines of Horizontal Illumination

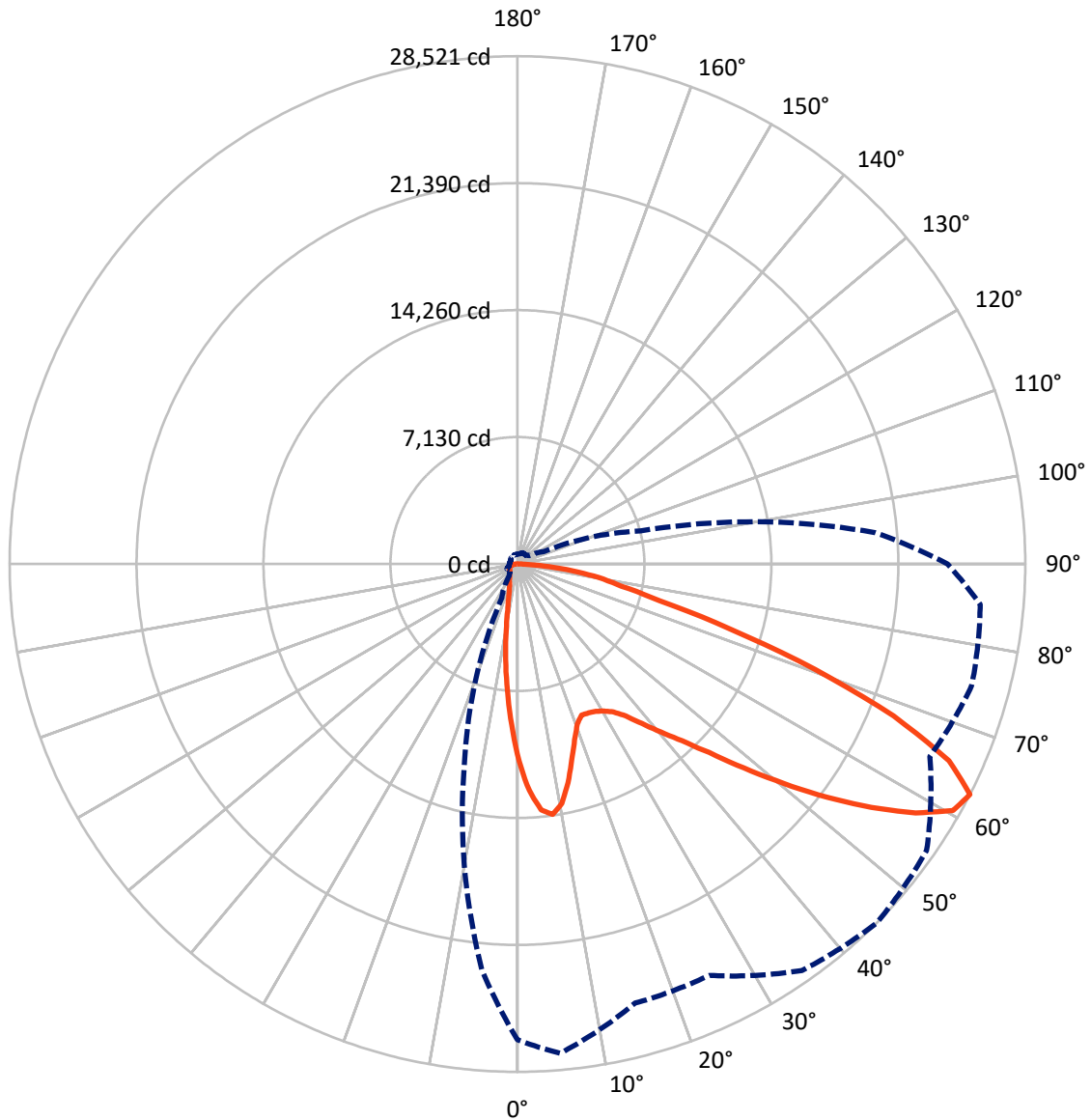
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.5 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P268851
CATALOG NUMBER: GAN-AF-09-LED-U-SLL-7027-800

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical



REPORT NUMBER: P268851

CATALOG NUMBER: GAN-AF-09-LED-U-SLL-7027-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5432.4	0.0	5432.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	27394.3	0.0	27394.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	32826.6	0.0	32826.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	807.3	2.5
10°-20°	1480.5	4.5
20°-30°	2158.5	6.6
30°-40°	3324.4	10.1
40°-50°	4892.6	14.9
50°-60°	7176.5	21.9
60°-70°	8022.3	24.4
70°-80°	3927.6	12.0
80°-90°	1037.0	3.2
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°	32826.6	100.0
0°-180°	32826.6	100.0



REPORT NUMBER: P268851

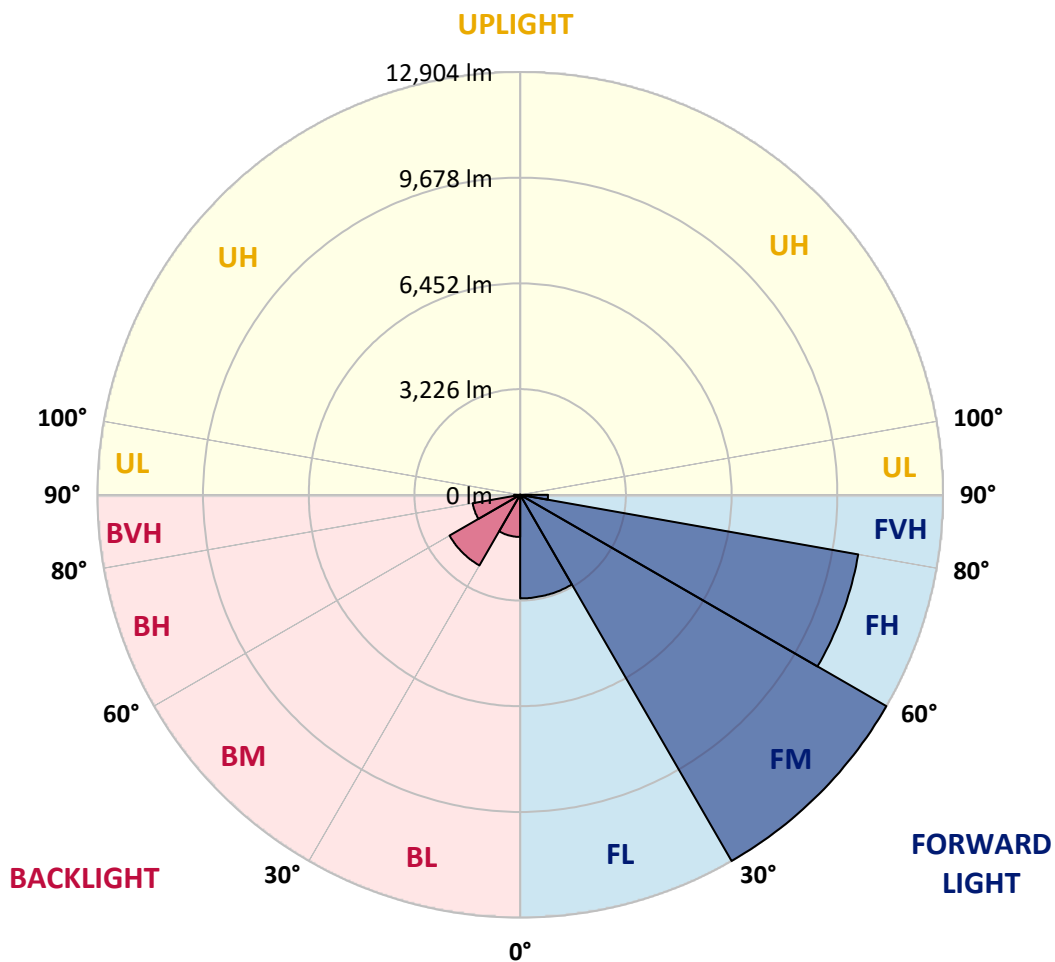
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3161.1	9.6			
FM (30°-60°)	12904.4	39.3			
FH (60°-80°)	10477.1	31.9			G4/12000
FVH (80°-90°)	851.6	2.6			G5
BL (0°-30°)	1285.2	3.9	B3/2500		
BM (30°-60°)	2489.1	7.6	B2/2500		
BH (60°-80°)	1472.7	4.5	B3/2500		G3/2500
BVH (80°-90°)	185.4	0.6			G2/225
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 Short





REPORT NUMBER: P268851
 CATALOG NUMBER: GAN-AF-09-LED-U-SLL-7027-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7
2.5°	11523.6	11707.8	12066.8	12335.7	12662.4	12738.1	12842.8	12739.9	12557.6	12315.9	12236.5
5°	10836.2	11229.5	12101.2	12868.1	13550.2	13867.8	13956.2	13694.5	13165.7	12471.1	12047.0
7.5°	9733.7	10293.0	11473.2	12602.9	13608.0	14201.7	14187.1	13579.0	12606.5	11474.9	10794.7
10°	8782.5	9421.5	10774.8	12037.9	13104.5	13680.1	13458.1	12680.4	11520.0	10217.2	9479.2
12.5°	8250.3	8876.4	10249.8	11518.2	12409.7	12608.3	12438.7	11677.1	10583.6	9266.2	8620.2
15°	8158.2	8845.8	10040.4	11072.6	11572.4	11399.2	11197.1	10855.9	10083.7	8959.4	8286.3
17.5°	8557.1	9315.0	10280.4	10762.1	10677.3	10376.1	10318.3	10356.2	10170.3	9300.5	8524.6
20°	9322.3	10231.6	10852.5	10616.0	9997.1	9582.0	9596.5	10175.7	10726.1	10165.0	9278.9
22.5°	10395.8	11433.4	11677.1	10693.7	9710.1	9217.5	9336.7	10275.0	11612.1	11428.1	10296.6
25°	11785.4	12730.9	12555.9	10975.1	9739.1	9262.7	9358.3	10617.8	12658.7	12691.3	11556.2
27.5°	13131.6	14008.4	13293.9	11348.6	9858.1	9369.1	9495.4	11157.4	13658.4	14062.6	12996.1
30°	14181.7	14791.8	13586.2	11689.7	10092.6	9576.7	9733.7	11669.8	14113.2	14988.4	14104.2
32.5°	15051.6	15490.1	14051.8	12111.9	10524.0	9903.3	10179.4	12292.3	14768.2	15869.0	15188.7
35°	16163.2	16287.6	14631.1	12583.0	11189.8	10471.6	10814.5	12902.4	15392.5	16758.6	16256.9
37.5°	17465.9	17305.4	15177.9	13227.2	12050.7	11361.3	11644.5	13571.9	15906.8	17767.3	17348.6
40°	18754.5	18368.3	15863.6	14226.8	13306.6	12409.7	12745.3	14286.5	16386.9	18777.9	18415.2
42.5°	19849.8	19277.7	16540.2	15325.9	14475.8	13566.5	13966.9	15006.5	16845.2	19640.5	19340.9
45°	20659.9	19949.0	17184.4	16381.5	16087.3	15103.8	15293.4	15831.1	17341.5	20360.4	20102.5
47.5°	21383.7	20623.8	17913.6	17446.2	17496.6	17103.3	16798.3	16791.1	17926.1	20948.7	20822.4
50°	22352.6	21560.5	18696.7	18543.4	19611.5	19349.9	18676.8	17911.8	18666.1	21616.4	21601.9
52.5°	23687.9	23043.9	19653.1	19725.3	21585.7	21757.2	20923.4	19257.9	19824.4	22841.7	22755.1
55°	25266.9	24891.7	20955.9	21084.1	24007.5	24130.1	23301.9	20941.5	21528.1	24615.5	24375.5
57.5°	26499.5	26420.1	22385.1	22715.4	25815.5	26367.7	25606.1	22890.4	23448.0	26109.6	25507.0
60°	26990.2	27374.6	23906.4	24361.0	27488.3	28100.1	27432.4	24602.9	25149.7	26728.6	25429.3
62.5°	26724.9	27584.0	25526.7	25488.9	27861.8	28520.5	28051.4	25555.6	26411.0	26089.8	24142.7
65°	25499.7	26831.5	26466.9	25198.4	26584.3	26638.3	26486.9	25129.7	26708.8	24070.5	21656.1
67.5°	22830.9	24747.2	25229.1	22708.2	23137.6	22785.7	22531.3	22798.4	25156.9	21044.4	18200.4
70°	18595.6	21479.3	21710.2	18162.6	17967.7	17731.3	17224.2	18691.3	22094.6	17247.6	14441.6
72.5°	13672.9	16704.5	17413.6	13321.0	12418.7	12467.4	12066.8	14086.1	17964.0	12812.2	10782.0
75°	9354.7	12095.7	13624.1	9295.1	8212.3	8232.2	8181.8	9980.8	14308.1	8912.5	8068.0
77.5°	6833.8	8641.9	10275.0	6249.1	6066.9	5955.0	5927.8	6983.6	10969.7	6471.0	6265.3
80°	5484.0	6384.4	6902.2	4330.9	4657.5	4648.5	4498.7	4801.8	7164.0	4733.3	4686.4
82.5°	3804.0	4906.5	5592.2	3394.3	3143.4	3091.2	3127.2	3576.5	5063.4	3235.5	3076.8
85°	2006.6	3259.1	5538.1	3008.2	1865.9	1488.8	1851.4	2928.7	4386.9	1714.2	1501.3
87.5°	256.2	942.0	3666.8	1200.0	736.3	397.1	878.8	1649.4	2816.8	350.1	305.0
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: P268851

CATALOG NUMBER: GAN-AF-09-LED-U-SLL-7027-800

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7
2.5°	12032.5	11792.6	11478.6	11188.0	10886.6	10587.2	10195.6	9950.2	9780.6	9748.0	9675.9
5°	11740.2	10942.7	10339.9	9818.5	9345.6	8677.9	8308.1	8001.3	7837.1	7820.9	7781.1
7.5°	10392.2	9291.4	8477.7	7739.5	7070.1	6530.6	5935.1	5657.2	5543.5	5570.6	5597.6
10°	8990.1	7759.5	6824.8	6070.4	5480.3	5025.6	4547.4	4224.4	4000.6	3955.4	3946.6
12.5°	7965.2	6615.4	5707.7	5175.3	4718.8	4291.2	3784.1	3403.3	3112.7	3013.5	2946.8
15°	7532.1	6056.0	5105.0	4531.2	4027.7	3484.5	3013.5	2614.7	2347.7	2261.0	2212.3
17.5°	7624.2	5900.7	4690.0	3955.4	3311.3	2744.7	2151.0	1809.9	1649.4	1607.8	1607.8
20°	8107.7	5872.0	4347.1	3425.0	2622.0	1965.1	1477.9	1283.0	1230.7	1225.3	1239.8
22.5°	8786.2	5973.0	4090.8	2964.9	2037.3	1434.7	1151.3	1079.1	1055.7	1061.1	1077.2
25°	9796.7	6314.0	3905.0	2555.1	1598.9	1174.8	1026.8	983.5	972.7	987.1	1006.9
27.5°	10995.0	6655.2	3789.5	2246.7	1349.9	1073.7	976.3	931.2	938.4	956.3	974.4
30°	12047.0	6934.7	3607.2	2026.4	1272.2	1079.1	976.3	915.0	907.6	911.3	916.7
32.5°	12990.7	7124.3	3394.3	1817.1	1097.2	958.2	911.3	902.3	862.6	848.1	849.9
35°	13804.7	7124.3	3266.1	1694.5	983.5	849.9	774.1	729.1	709.2	711.0	730.9
37.5°	14589.6	6981.6	3203.0	1625.9	922.1	808.5	741.7	701.9	674.8	669.4	673.1
40°	15282.5	6774.2	3130.9	1596.9	875.2	783.1	720.0	687.6	658.6	649.7	651.5
42.5°	15838.2	6606.3	3051.5	1559.1	846.4	765.1	705.6	676.8	644.3	635.2	633.3
45°	16439.3	6550.4	2946.8	1483.3	860.8	767.0	701.9	671.3	638.9	627.9	624.3
47.5°	17231.4	6725.5	2838.6	1393.1	891.5	776.0	707.3	671.3	637.0	627.9	624.3
50°	18229.2	7136.9	2701.4	1261.4	860.8	801.2	705.6	665.9	637.0	627.9	620.8
52.5°	19510.5	7692.6	2521.0	1109.8	842.7	862.6	701.9	655.0	627.9	615.3	602.8
55°	21067.8	8147.4	2306.2	985.4	801.2	846.4	696.5	642.4	613.5	595.4	584.6
57.5°	22208.3	8311.7	2030.1	904.1	743.4	819.3	689.3	626.2	595.4	581.1	566.7
60°	21982.8	7994.0	1797.2	853.5	709.2	739.8	683.9	611.7	579.2	568.4	555.8
62.5°	20176.4	7164.0	1647.5	830.0	687.6	674.8	689.3	597.4	564.9	554.0	550.4
65°	17467.8	5938.6	1587.9	824.6	669.4	637.0	640.6	581.1	548.5	539.5	536.0
67.5°	14409.2	4792.7	1535.7	842.7	646.1	609.9	592.0	559.5	532.3	523.4	516.0
70°	11363.1	3986.1	1512.1	831.9	617.1	582.9	563.0	536.0	512.6	503.5	498.0
72.5°	9150.8	3367.2	1499.6	821.1	579.2	546.8	528.7	505.2	480.1	476.5	471.0
75°	7743.2	2647.2	1373.2	786.7	536.0	503.5	490.8	469.2	443.9	443.9	440.3
77.5°	5973.0	1914.6	1142.3	696.5	490.8	454.7	443.9	427.7	398.8	404.1	402.4
80°	4412.0	1248.7	893.3	577.4	434.9	400.6	395.2	378.9	348.3	355.5	355.5
82.5°	3022.5	819.3	642.4	472.8	371.7	339.3	339.3	323.0	288.7	292.3	303.2
85°	1517.5	563.0	480.1	366.2	288.7	272.5	272.5	259.9	225.6	227.5	241.9
87.5°	462.0	339.3	317.6	261.6	207.5	203.9	194.9	185.9	164.2	162.5	171.4
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: P268851

CATALOG NUMBER: GAN-AF-09-LED-U-SLL-7027-800

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7
2.5°	9565.8	9462.9	9338.4	9064.1	8972.1	8966.7	9049.6	8963.1	9129.0	9058.7	9136.3
5°	7714.4	7613.2	7474.3	7124.3	6911.3	6766.9	6698.4	6496.4	6642.4	6536.0	6624.5
7.5°	5673.4	5697.0	5604.9	5399.2	4935.4	4702.5	4565.5	4442.7	4549.1	4538.3	4707.9
10°	3987.9	4051.1	3986.1	3778.7	3403.3	3275.2	3300.5	3349.2	3488.2	3560.3	3822.0
12.5°	2871.1	2867.4	2825.9	2639.9	2392.7	2407.3	2510.1	2594.9	2723.0	2798.8	3065.8
15°	2143.7	2111.2	2093.2	1941.6	1800.9	1831.6	1882.0	1891.1	1972.4	2017.5	2234.1
17.5°	1620.5	1636.7	1656.6	1548.3	1441.8	1421.9	1382.2	1333.5	1357.0	1366.1	1474.3
20°	1286.6	1351.6	1400.3	1324.6	1216.2	1158.5	1108.0	1075.5	1075.5	1073.7	1104.3
22.5°	1124.1	1171.1	1223.5	1171.1	1073.7	1023.2	994.3	969.0	965.4	965.4	994.3
25°	1035.7	1070.2	1120.6	1084.6	1012.3	974.4	947.4	915.0	902.3	898.7	918.4
27.5°	992.4	1006.9	1032.2	999.8	938.4	920.4	913.0	884.2	868.0	859.0	878.8
30°	918.4	915.0	916.7	884.2	835.6	833.6	846.4	851.8	846.4	844.5	875.2
32.5°	849.9	842.7	841.0	812.1	767.0	756.2	767.0	777.8	790.4	808.5	844.5
35°	763.3	781.3	792.1	767.0	712.7	680.2	667.7	647.8	637.0	637.0	678.5
37.5°	694.7	736.3	752.5	729.1	669.4	624.3	602.8	599.1	600.8	608.2	647.8
40°	671.3	701.9	716.4	693.0	633.3	592.0	579.2	575.6	579.2	590.0	629.8
42.5°	656.8	678.5	676.8	647.8	599.1	570.2	563.0	559.5	563.0	573.8	617.1
45°	644.3	658.6	644.3	609.9	564.9	550.4	552.2	550.4	554.0	564.9	606.4
47.5°	633.3	638.9	620.8	586.5	539.5	536.0	543.1	548.5	552.2	561.3	604.5
50°	617.1	617.1	600.8	564.9	518.0	519.7	528.7	541.4	543.1	554.0	588.3
52.5°	597.4	595.4	584.6	550.4	499.8	505.2	505.2	519.7	523.4	536.0	572.0
55°	581.1	577.4	572.0	539.5	483.6	492.6	487.2	492.6	501.7	514.3	554.0
57.5°	566.7	559.5	559.5	530.4	471.0	474.6	462.0	469.2	480.1	490.8	532.3
60°	552.2	544.9	548.5	518.0	451.0	447.5	442.1	456.6	460.1	472.8	514.3
62.5°	536.0	530.4	532.3	503.5	436.7	427.7	427.7	440.3	442.1	460.1	499.8
65°	523.4	516.0	514.3	489.0	420.4	409.6	415.0	420.4	424.1	442.1	480.1
67.5°	510.6	496.3	496.3	476.5	402.4	391.7	402.4	400.6	406.0	422.3	452.9
70°	494.4	474.6	476.5	467.4	384.4	371.7	380.7	378.9	382.6	393.4	424.1
72.5°	469.2	452.9	456.6	452.9	366.2	348.3	351.9	351.9	351.9	360.8	393.4
75°	436.7	424.1	434.9	443.9	344.7	319.3	323.0	323.0	317.6	323.0	362.7
77.5°	397.1	389.8	425.8	413.2	319.3	288.7	288.7	285.1	274.3	281.4	324.7
80°	353.8	348.3	393.4	346.4	290.5	250.8	247.3	238.2	227.5	232.8	276.0
82.5°	308.6	303.2	330.2	265.3	250.8	207.5	198.4	182.3	171.4	176.8	216.5
85°	252.7	252.7	254.4	200.3	191.2	158.8	148.0	126.3	113.6	117.3	155.1
87.5°	180.5	185.9	171.4	137.1	113.6	88.5	81.1	68.6	57.8	66.7	81.1
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: P268851

CATALOG NUMBER: GAN-AF-09-LED-U-SLL-7027-800

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7	11090.7
2.5°	9533.4	9731.8	9957.4	10246.1	10493.3	10899.3	11289.1	11523.6
5°	7128.0	7458.1	7869.5	8398.3	8890.9	9630.8	10365.3	10836.2
7.5°	5101.4	5455.0	5899.0	6559.5	7256.0	8199.8	9170.5	9733.7
10°	4220.7	4583.5	4957.0	5402.8	5973.0	6999.8	8147.4	8782.5
12.5°	3491.7	3879.7	4282.1	4751.3	5280.1	6196.8	7519.4	8250.3
15°	2672.5	3105.6	3580.1	4173.9	4836.1	5895.3	7364.2	8158.2
17.5°	1831.6	2315.2	2898.0	3630.7	4441.0	5797.9	7642.2	8557.1
20°	1261.4	1613.3	2235.8	3094.8	4069.2	5785.4	8176.4	9322.3
22.5°	1055.7	1212.6	1667.3	2602.1	3789.5	5940.5	9004.6	10395.8
25°	976.3	1070.2	1331.7	2174.4	3585.6	6297.7	10145.0	11785.4
27.5°	929.3	1014.1	1208.9	1894.7	3425.0	6712.9	11254.9	13131.6
30°	947.4	1033.9	1174.8	1752.2	3206.6	7059.3	12240.0	14181.7
32.5°	853.5	891.5	1006.9	1625.9	3049.7	7349.8	13102.7	15051.6
35°	727.2	794.0	898.7	1566.4	3053.2	7544.8	14042.8	16163.2
37.5°	693.0	759.6	835.6	1544.6	3094.8	7752.3	15121.9	17465.9
40°	671.3	732.7	797.5	1532.0	3134.5	7941.7	16179.4	18754.5
42.5°	656.8	712.7	794.0	1488.8	3154.3	8111.3	17049.1	19849.8
45°	655.0	712.7	808.5	1445.5	3185.0	8293.6	17778.1	20659.9
47.5°	656.8	736.3	781.3	1393.1	3185.0	8598.5	18633.5	21383.7
50°	649.7	776.0	752.5	1319.2	3111.0	9175.9	19806.5	22352.6
52.5°	646.1	770.6	696.5	1205.4	2982.9	10092.6	21309.7	23687.9
55°	637.0	743.4	656.8	1035.7	2833.2	11092.5	22919.3	25266.9
57.5°	627.9	658.6	635.2	887.9	2602.1	11796.2	24027.2	26499.5
60°	703.7	575.6	617.1	815.7	2293.6	11989.3	23983.9	26990.2
62.5°	651.5	539.5	593.7	799.4	2077.1	11447.9	22876.0	26724.9
65°	510.6	516.0	570.2	846.4	2019.3	10013.2	20912.6	25499.7
67.5°	467.4	492.6	546.8	905.9	2024.7	8017.6	17978.5	22830.9
70°	440.3	467.4	519.7	936.6	2039.2	5976.6	14214.2	18595.6
72.5°	409.6	433.2	489.0	942.0	1945.3	4341.7	10955.3	13672.9
75°	373.5	395.2	445.6	821.1	1611.4	3011.7	8380.2	9354.7
77.5°	332.1	348.3	391.7	633.3	1196.5	1927.3	6290.7	6833.8
80°	283.3	292.3	328.4	463.7	819.3	1205.4	4976.9	5484.0
82.5°	227.5	231.0	254.4	348.3	532.3	774.1	3332.9	3804.0
85°	160.5	160.5	175.0	252.7	362.7	490.8	1809.9	2006.6
87.5°	75.7	77.7	77.7	139.0	189.5	249.0	416.9	256.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)