

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: P191277

Luminaire Tested: **GAN-AF-09-LED-U-SLL-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191277
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-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 615mA 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: 31519.2 lumens
Efficiency: N/A
Efficacy: 108.7 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

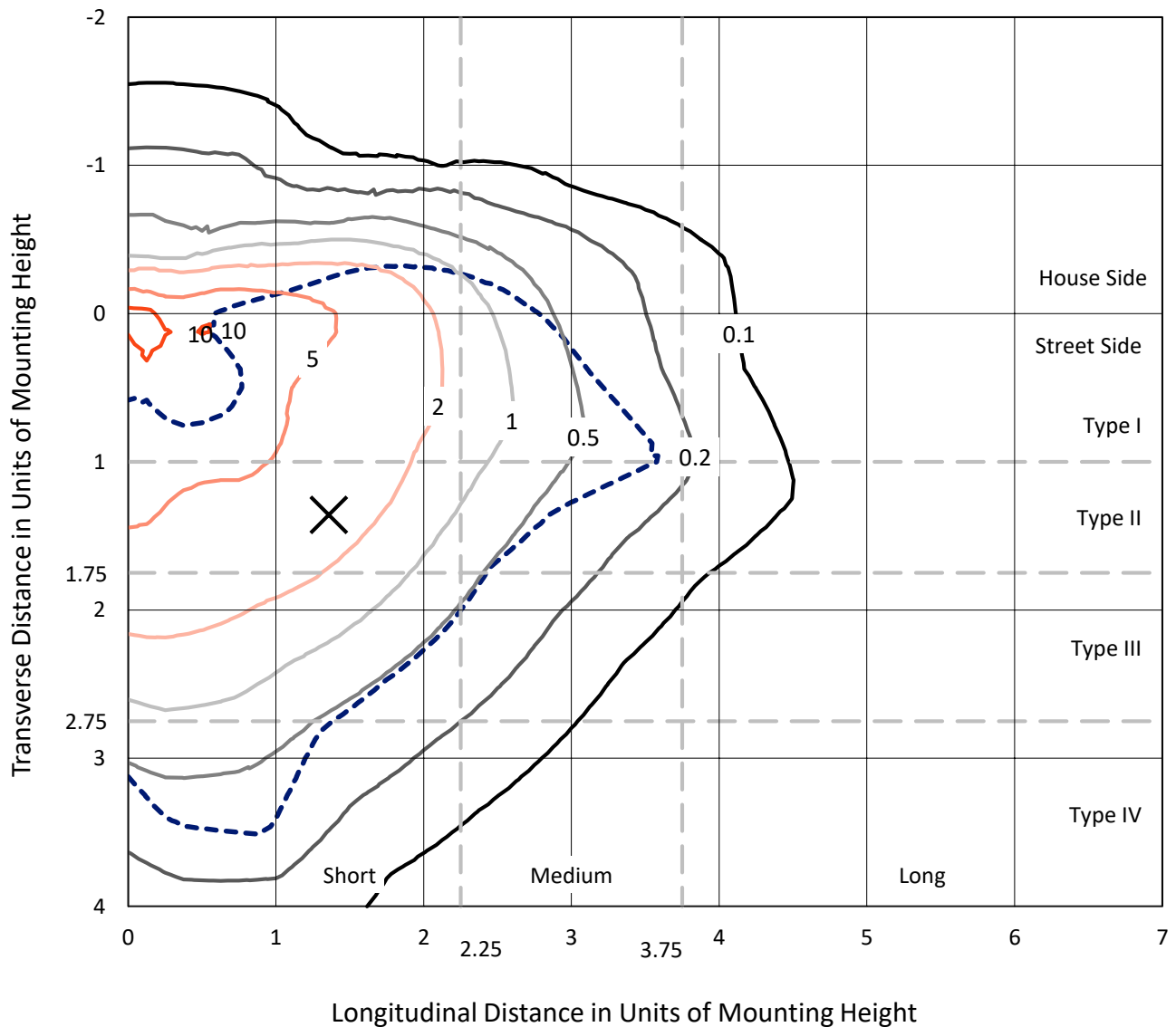
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P191277
 CATALOG NUMBER: GAN-AF-09-LED-U-SLL-600

Iso-Footcandle Lines of Horizontal Illumination

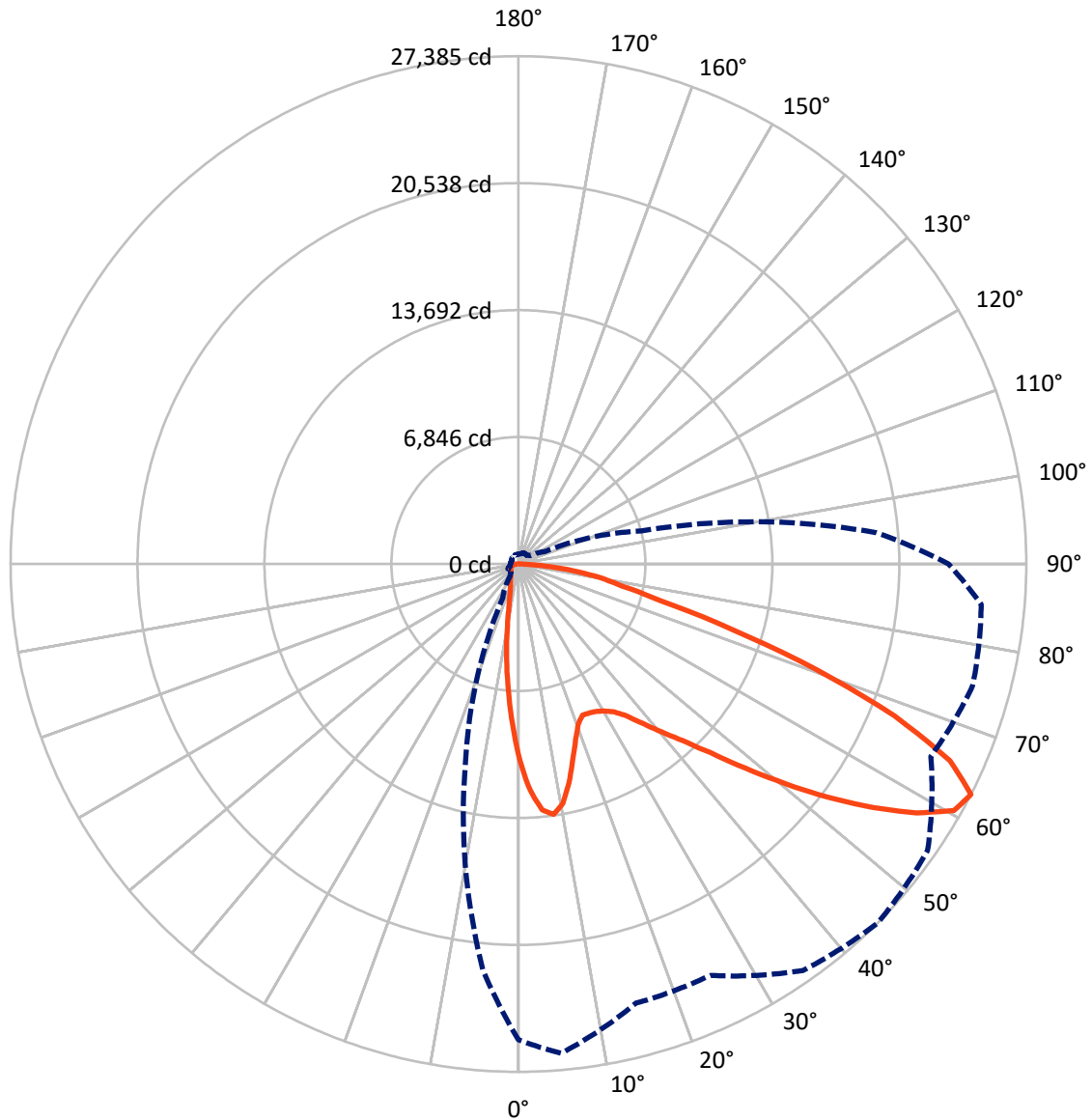
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.9 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P191277
CATALOG NUMBER: GAN-AF-09-LED-U-SLL-600

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191277

CATALOG NUMBER: GAN-AF-09-LED-U-SLL-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5216.0	0.0	5216.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	26303.2	0.0	26303.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	31519.2	0.0	31519.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	775.2	2.5
10°-20°	1421.5	4.5
20°-30°	2072.5	6.6
30°-40°	3192.0	10.1
40°-50°	4697.8	14.9
50°-60°	6890.6	21.9
60°-70°	7702.7	24.4
70°-80°	3771.2	12.0
80°-90°	995.7	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°	31519.2	100.0
0°-180°	31519.2	100.0



REPORT NUMBER: P191277

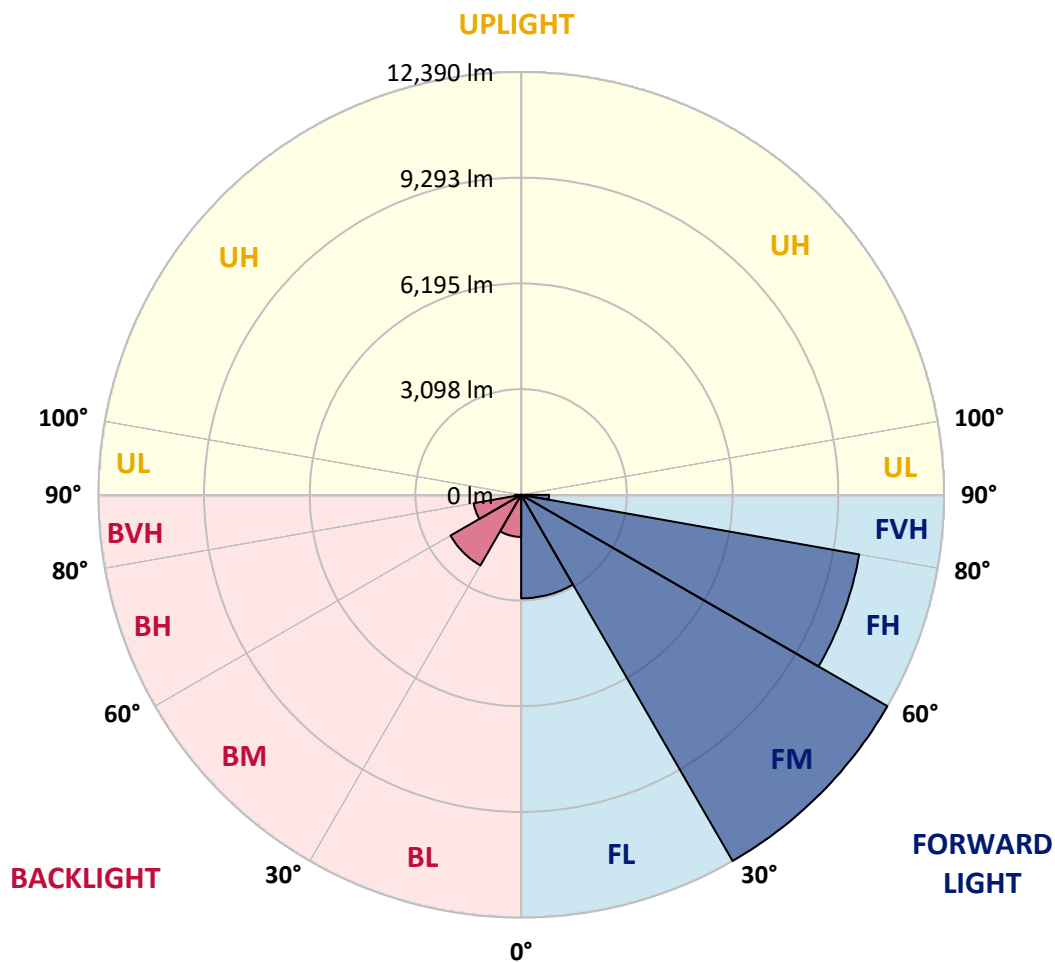
CATALOG NUMBER: GAN-AF-09-LED-U-SLL-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3035.2	9.6			
FM	(30°-60°)	12390.5	39.3			
FH	(60°-80°)	10059.8	31.9			G4/12000
FVH	(80°-90°)	817.7	2.6			G5
BL	(0°-30°)	1234.0	3.9	B3/2500		
BM	(30°-60°)	2389.9	7.6	B2/2500		
BH	(60°-80°)	1414.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	178.0	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: P191277

CATALOG NUMBER: GAN-AF-09-LED-U-SLL-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10648.9	10648.9	10648.9	10648.9	10648.9	10648.9	10648.9	10648.9	10648.9	10648.9	10648.9
2.5°	11064.7	11241.4	11586.2	11844.4	12158.0	12230.8	12331.3	12232.5	12057.5	11825.3	11749.1
5°	10404.5	10782.3	11619.2	12355.5	13010.5	13315.4	13400.3	13149.1	12641.4	11974.4	11567.2
7.5°	9345.9	9883.0	11016.2	12100.8	13065.9	13635.9	13622.1	13038.2	12104.3	11017.9	10364.7
10°	8432.8	9046.2	10345.6	11558.5	12582.5	13135.2	12922.1	12175.4	11061.3	9810.3	9101.6
12.5°	7921.6	8522.9	9841.5	11059.5	11915.4	12106.0	11943.2	11212.0	10162.0	8897.1	8276.9
15°	7833.3	8493.5	9640.5	10631.5	11111.5	10945.2	10751.1	10423.7	9682.0	8602.6	7956.3
17.5°	8216.2	8944.0	9870.9	10333.5	10252.1	9962.7	9907.3	9943.7	9765.2	8930.1	8185.0
20°	8950.9	9824.1	10420.2	10193.2	9598.9	9200.4	9214.2	9770.4	10298.9	9760.0	8909.3
22.5°	9981.7	10978.1	11212.0	10267.7	9323.4	8850.4	8964.7	9865.7	11149.7	10972.9	9886.5
25°	11316.0	12223.9	12055.8	10538.0	9351.1	8893.7	8985.5	10194.9	12154.5	12185.7	11095.8
27.5°	12608.5	13450.6	12764.5	10896.7	9465.5	8995.9	9117.3	10713.0	13114.4	13502.5	12478.6
30°	13616.9	14202.5	13045.1	11224.1	9690.7	9195.2	9345.9	11205.1	13551.0	14391.4	13542.4
32.5°	14452.0	14873.1	13492.1	11629.5	10104.8	9508.7	9773.9	11802.8	14180.0	15237.0	14583.7
35°	15519.4	15638.9	14048.3	12081.8	10744.2	10054.6	10383.8	12388.4	14779.5	16091.1	15609.4
37.5°	16770.4	16616.1	14573.4	12700.3	11570.6	10908.7	11180.8	13031.3	15273.3	17059.6	16657.7
40°	18007.4	17636.7	15231.7	13660.2	12776.6	11915.4	12237.7	13717.4	15734.2	18029.9	17681.7
42.5°	19059.1	18509.9	15881.5	14715.4	13899.3	13026.1	13410.7	14408.7	16174.3	18858.2	18570.5
45°	19837.2	19154.4	16500.0	15729.0	15446.6	14502.3	14684.3	15200.5	16650.8	19549.5	19301.8
47.5°	20532.0	19802.5	17200.0	16751.2	16799.8	16422.0	16129.3	16122.3	17212.2	20114.4	19993.1
50°	21462.3	20701.7	17952.0	17804.8	18830.5	18579.2	17932.9	17198.3	17922.5	20755.5	20741.6
52.5°	22744.5	22125.9	18870.3	18939.6	20726.0	20890.6	20090.0	18490.9	19034.9	21931.9	21848.7
55°	24260.6	23900.2	20121.2	20244.3	23051.2	23169.0	22373.7	20107.4	20670.6	23635.1	23404.6
57.5°	25444.0	25367.7	21493.5	21810.6	24787.3	25317.5	24586.3	21978.7	22514.0	25069.8	24491.0
60°	25915.2	26284.3	22954.2	23390.8	26393.5	26980.8	26339.8	23623.0	24148.0	25664.0	24416.5
62.5°	25660.5	26485.3	24510.1	24473.7	26752.1	27384.5	26934.1	24537.8	25359.1	25050.6	23181.1
65°	24484.1	25762.8	25412.8	24194.7	25525.4	25577.4	25431.9	24128.9	25645.0	23111.8	20793.5
67.5°	21921.5	23761.6	24224.2	21803.7	22216.0	21878.2	21633.9	21890.3	24154.8	20206.1	17475.5
70°	17855.0	20623.7	20845.5	17439.2	17252.0	17025.1	16538.1	17946.8	21214.6	16560.7	13866.4
72.5°	13128.2	16039.2	16720.0	12790.5	11924.1	11970.9	11586.2	13525.0	17248.5	12301.8	10352.6
75°	8982.0	11614.0	13081.5	8924.8	7885.3	7904.3	7855.9	9583.3	13738.2	8557.6	7746.7
77.5°	6561.5	8297.7	9865.7	6000.1	5825.2	5717.8	5691.8	6705.3	10532.8	6213.3	6015.8
80°	5265.5	6130.1	6627.4	4158.4	4471.9	4463.3	4319.5	4610.5	6878.6	4544.8	4499.7
82.5°	3652.4	4711.1	5369.5	3259.1	3018.3	2968.0	3002.7	3434.1	4861.8	3106.6	2954.2
85°	1926.7	3129.2	5317.5	2888.3	1791.6	1429.5	1777.7	2812.1	4212.1	1646.0	1441.5
87.5°	246.0	904.5	3520.8	1152.3	707.0	381.2	843.8	1583.6	2704.7	336.1	292.8
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: P191277

CATALOG NUMBER: GAN-AF-09-LED-U-SLL-600

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	10648.9	10648.9	10648.9	10648.9	10648.9	10648.9	10648.9	10648.9	10648.9	10648.9	10648.9
2.5°	11553.3	11322.8	11021.4	10742.4	10453.1	10165.5	9789.4	9553.8	9391.0	9359.8	9290.4
5°	11272.6	10506.8	9928.0	9427.3	8973.4	8332.3	7977.1	7682.6	7524.9	7509.3	7471.2
7.5°	9978.4	8921.5	8140.0	7431.3	6788.5	6270.5	5698.7	5431.9	5322.7	5348.7	5374.7
10°	8632.1	7450.4	6552.9	5828.7	5262.1	4825.5	4366.3	4056.1	3841.3	3798.0	3789.3
12.5°	7647.9	6351.9	5480.4	4969.3	4530.9	4120.2	3633.4	3267.8	2988.9	2893.5	2829.4
15°	7232.1	5814.8	4901.7	4350.7	3867.3	3345.8	2893.5	2510.6	2254.2	2171.0	2124.3
17.5°	7320.4	5665.8	4503.1	3798.0	3179.4	2635.3	2065.3	1737.9	1583.6	1543.8	1543.8
20°	7784.8	5638.1	4173.9	3288.6	2517.6	1886.8	1419.0	1231.9	1181.7	1176.5	1190.3
22.5°	8436.3	5735.1	3927.9	2846.8	1956.2	1377.5	1105.4	1036.1	1013.6	1018.8	1034.4
25°	9406.5	6062.5	3749.4	2453.4	1535.1	1127.9	985.9	944.3	933.9	947.8	966.8
27.5°	10557.1	6390.0	3638.5	2157.2	1296.0	1030.9	937.3	894.1	901.0	918.3	935.6
30°	11567.2	6658.6	3463.6	1945.8	1221.5	1036.1	937.3	878.4	871.6	875.0	880.1
32.5°	12473.4	6840.5	3259.1	1744.7	1053.4	920.0	875.0	866.3	828.2	814.4	816.1
35°	13254.8	6840.5	3136.1	1627.0	944.3	816.1	743.3	700.0	681.0	682.6	701.7
37.5°	14008.5	6703.6	3075.5	1561.1	885.4	776.2	712.1	674.0	648.0	642.8	646.3
40°	14673.8	6504.3	3006.1	1533.4	840.4	752.0	691.3	660.1	632.4	623.8	625.5
42.5°	15207.5	6343.2	2929.9	1497.0	812.6	734.7	677.5	649.8	618.6	609.9	608.1
45°	15784.4	6289.5	2829.4	1424.3	826.4	736.4	674.0	644.6	613.4	602.9	599.4
47.5°	16545.1	6457.6	2725.4	1337.6	855.9	745.0	679.2	644.6	611.6	602.9	599.4
50°	17503.2	6852.6	2593.8	1211.2	826.4	769.3	677.5	639.3	611.6	602.9	596.1
52.5°	18733.4	7386.3	2420.5	1065.6	809.2	828.2	674.0	628.9	602.9	590.9	578.7
55°	20228.6	7822.9	2214.3	946.0	769.3	812.6	668.8	616.8	589.1	571.7	561.4
57.5°	21323.7	7980.6	1949.2	868.1	713.8	786.6	661.8	601.2	571.7	557.9	544.0
60°	21107.2	7675.6	1725.7	819.6	681.0	710.3	656.6	587.4	556.2	545.7	533.7
62.5°	19372.7	6878.6	1581.9	797.0	660.1	648.0	661.8	573.5	542.4	531.9	528.5
65°	16772.1	5702.1	1524.7	791.9	642.8	611.6	615.1	557.9	526.7	518.0	514.6
67.5°	13835.2	4601.9	1474.5	809.2	620.3	585.6	568.4	537.2	511.2	502.5	495.5
70°	10910.5	3827.5	1452.0	798.7	592.6	559.7	540.6	514.6	492.0	483.4	478.2
72.5°	8786.2	3233.1	1439.8	788.4	556.2	525.0	507.7	485.2	460.8	457.5	452.2
75°	7434.8	2541.8	1318.6	755.4	514.6	483.4	471.3	450.5	426.3	426.3	422.8
77.5°	5735.1	1838.3	1096.8	668.8	471.3	436.6	426.3	410.6	382.9	388.1	386.4
80°	4236.3	1199.0	857.6	554.4	417.6	384.6	379.4	363.9	334.4	341.4	341.4
82.5°	2902.2	786.6	616.8	454.0	356.9	325.7	325.7	310.2	277.2	280.7	291.1
85°	1457.2	540.6	460.8	351.7	277.2	261.7	261.7	249.5	216.6	218.3	232.2
87.5°	443.6	325.7	304.9	251.2	199.3	195.8	187.1	178.5	157.6	155.9	164.6
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: P191277

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CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	10648.9	10648.9	10648.9	10648.9	10648.9	10648.9	10648.9	10648.9	10648.9	10648.9	10648.9
2.5°	9184.8	9086.1	8966.5	8703.1	8614.8	8609.6	8689.3	8606.1	8765.5	8697.9	8772.4
5°	7407.1	7310.0	7176.6	6840.5	6636.1	6497.5	6431.6	6237.5	6377.9	6275.7	6360.6
7.5°	5447.4	5470.0	5381.6	5184.1	4738.8	4515.3	4383.7	4265.8	4368.0	4357.6	4520.5
10°	3829.1	3889.8	3827.5	3628.2	3267.8	3144.8	3169.0	3215.9	3349.2	3418.5	3669.7
12.5°	2756.6	2753.2	2713.4	2534.9	2297.4	2311.4	2410.1	2491.6	2614.6	2687.3	2943.7
15°	2058.4	2027.2	2009.9	1864.3	1729.2	1758.7	1807.1	1815.8	1893.8	1937.1	2145.0
17.5°	1555.9	1571.6	1590.6	1486.7	1384.4	1365.3	1327.2	1280.4	1302.9	1311.6	1415.6
20°	1235.4	1297.7	1344.6	1271.7	1167.8	1112.4	1063.9	1032.7	1032.7	1030.9	1060.4
22.5°	1079.4	1124.5	1174.8	1124.5	1030.9	982.4	954.7	930.5	927.0	927.0	954.7
25°	994.5	1027.5	1075.9	1041.4	972.0	935.6	909.6	878.4	866.3	862.9	881.9
27.5°	953.0	966.8	991.0	959.9	901.0	883.6	876.8	849.0	833.4	824.7	843.8
30°	881.9	878.4	880.1	849.0	802.2	800.5	812.6	817.8	812.6	810.9	840.4
32.5°	816.1	809.2	807.4	779.7	736.4	726.0	736.4	746.8	758.9	776.2	810.9
35°	732.9	750.2	760.7	736.4	684.4	653.3	641.1	622.1	611.6	611.6	651.5
37.5°	667.1	707.0	722.5	700.0	642.8	599.4	578.7	575.2	576.9	583.9	622.1
40°	644.6	674.0	687.8	665.3	608.1	568.4	556.2	552.7	556.2	566.6	604.7
42.5°	630.6	651.5	649.8	622.1	575.2	547.5	540.6	537.2	540.6	551.0	592.6
45°	618.6	632.4	618.6	585.6	542.4	528.5	530.2	528.5	531.9	542.4	582.2
47.5°	608.1	613.4	596.1	563.1	518.0	514.6	521.5	526.7	530.2	538.9	580.4
50°	592.6	592.6	576.9	542.4	497.3	499.0	507.7	519.8	521.5	531.9	564.9
52.5°	573.5	571.7	561.4	528.5	480.0	485.2	485.2	499.0	502.5	514.6	549.2
55°	557.9	554.4	549.2	518.0	464.3	473.0	467.8	473.0	481.7	493.8	531.9
57.5°	544.0	537.2	537.2	509.4	452.2	455.7	443.6	450.5	460.8	471.3	511.2
60°	530.2	523.2	526.7	497.3	433.1	429.7	424.5	438.3	441.8	454.0	493.8
62.5°	514.6	509.4	511.2	483.4	419.3	410.6	410.6	422.8	424.5	441.8	480.0
65°	502.5	495.5	493.8	469.5	403.8	393.3	398.5	403.8	407.1	424.5	460.8
67.5°	490.3	476.5	476.5	457.5	386.4	375.9	386.4	384.6	389.8	405.4	434.9
70°	474.8	455.7	457.5	448.8	369.1	356.9	365.6	363.9	367.3	377.7	407.1
72.5°	450.5	434.9	438.3	434.9	351.7	334.4	337.9	337.9	337.9	346.6	377.7
75°	419.3	407.1	417.6	426.3	330.9	306.7	310.2	310.2	304.9	310.2	348.2
77.5°	381.2	374.3	408.9	396.8	306.7	277.2	277.2	273.7	263.4	270.3	311.9
80°	339.6	334.4	377.7	332.7	279.0	240.8	237.3	228.7	218.3	223.5	265.0
82.5°	296.2	291.1	317.1	254.7	240.8	199.3	190.6	175.0	164.6	169.8	208.0
85°	242.5	242.5	244.3	192.3	183.6	152.5	142.1	121.3	109.1	112.6	149.0
87.5°	173.3	178.5	164.6	131.7	109.1	84.9	77.9	65.9	55.4	64.1	77.9
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: P191277

CATALOG NUMBER: GAN-AF-09-LED-U-SLL-600

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	10648.9	10648.9	10648.9	10648.9	10648.9	10648.9	10648.9	10648.9
2.5°	9153.6	9344.1	9560.8	9838.0	10075.3	10465.2	10839.5	11064.7
5°	6844.0	7161.1	7556.1	8063.7	8536.7	9247.2	9952.4	10404.5
7.5°	4898.2	5237.8	5664.1	6298.2	6967.0	7873.1	8805.4	9345.9
10°	4052.6	4400.9	4759.6	5187.6	5735.1	6721.0	7822.9	8432.8
12.5°	3352.7	3725.2	4111.5	4562.1	5069.7	5949.9	7220.0	7921.6
15°	2566.1	2981.9	3437.6	4007.6	4643.5	5660.6	7070.9	7833.3
17.5°	1758.7	2223.0	2782.6	3486.1	4264.1	5567.0	7337.7	8216.2
20°	1211.2	1549.0	2146.8	2971.5	3907.2	5554.8	7850.6	8950.9
22.5°	1013.6	1164.3	1600.9	2498.5	3638.5	5703.9	8645.9	9981.7
25°	937.3	1027.5	1278.7	2087.8	3442.7	6047.0	9740.9	11316.0
27.5°	892.3	973.7	1160.8	1819.3	3288.6	6445.5	10806.6	12608.5
30°	909.6	992.8	1127.9	1682.4	3078.9	6778.2	11752.6	13616.9
32.5°	819.6	855.9	966.8	1561.1	2928.2	7057.1	12580.8	14452.0
35°	698.3	762.4	862.9	1503.9	2931.7	7244.2	13483.5	15519.4
37.5°	665.3	729.5	802.2	1483.2	2971.5	7443.5	14519.7	16770.4
40°	644.6	703.5	765.8	1471.0	3009.6	7625.4	15534.9	18007.4
42.5°	630.6	684.4	762.4	1429.5	3028.7	7788.2	16370.1	19059.1
45°	628.9	684.4	776.2	1387.8	3058.1	7963.3	17070.1	19837.2
47.5°	630.6	707.0	750.2	1337.6	3058.1	8256.0	17891.3	20532.0
50°	623.8	745.0	722.5	1266.6	2987.1	8810.6	19017.6	21462.3
52.5°	620.3	739.8	668.8	1157.4	2864.1	9690.7	20460.9	22744.5
55°	611.6	713.8	630.6	994.5	2720.2	10650.6	22006.4	24260.6
57.5°	602.9	632.4	609.9	852.4	2498.5	11326.3	23070.2	25444.0
60°	675.8	552.7	592.6	783.2	2202.2	11511.8	23028.7	25915.2
62.5°	625.5	518.0	570.1	767.5	1994.2	10991.9	21964.8	25660.5
65°	490.3	495.5	547.5	812.6	1938.8	9614.5	20079.7	24484.1
67.5°	448.8	473.0	525.0	869.8	1944.0	7698.2	17262.4	21921.5
70°	422.8	448.8	499.0	899.3	1957.9	5738.5	13648.1	17855.0
72.5°	393.3	415.8	469.5	904.5	1867.8	4168.7	10518.9	13128.2
75°	358.6	379.4	428.0	788.4	1547.2	2891.8	8046.4	8982.0
77.5°	318.9	334.4	375.9	608.1	1148.8	1850.5	6040.0	6561.5
80°	272.0	280.7	315.4	445.3	786.6	1157.4	4778.6	5265.5
82.5°	218.3	221.8	244.3	334.4	511.2	743.3	3200.2	3652.4
85°	154.2	154.2	168.1	242.5	348.2	471.3	1737.9	1926.7
87.5°	72.7	74.5	74.5	133.4	181.9	239.1	400.3	246.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)