

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: P191303

Luminaire Tested: **GAN-AF-05-LED-U-SLL-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191303
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-05-LED-U-SLL-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1200mA 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: 29339.3 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

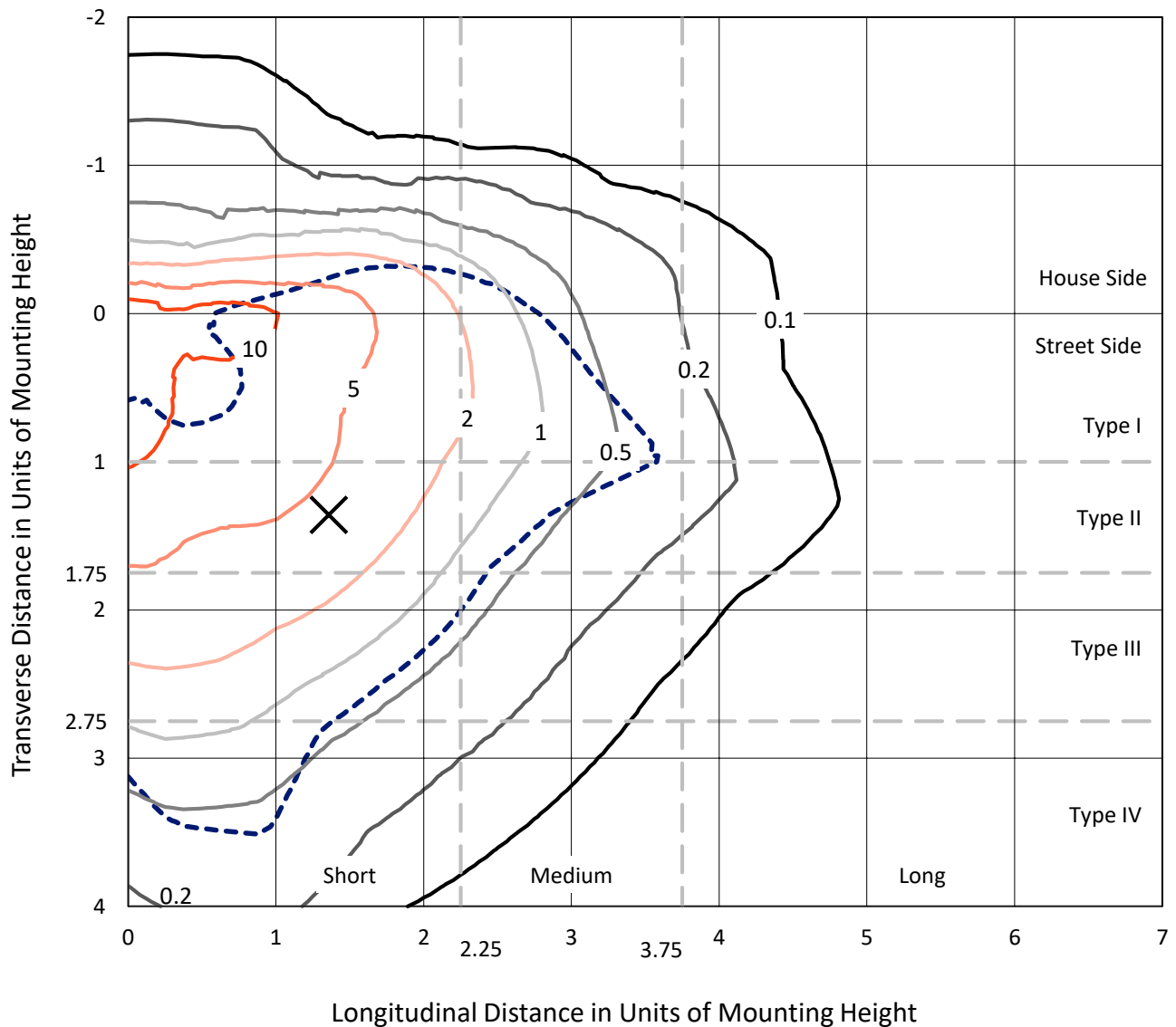
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

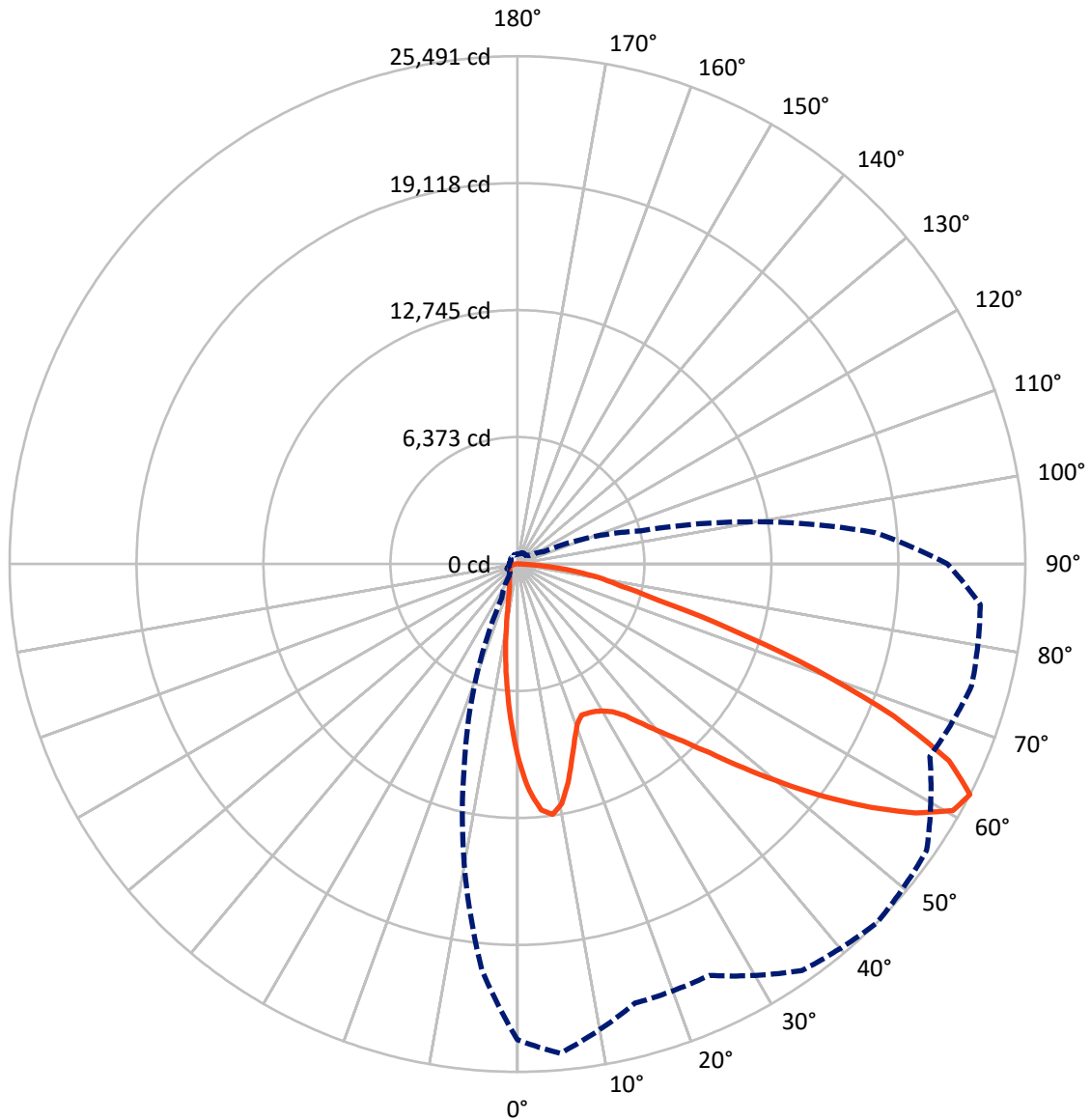
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4855.3	0.0	4855.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	24484.0	0.0	24484.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	29339.3	0.0	29339.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	721.6	2.5
10°-20°	1323.2	4.5
20°-30°	1929.2	6.6
30°-40°	2971.2	10.1
40°-50°	4372.9	14.9
50°-60°	6414.1	21.9
60°-70°	7170.0	24.4
70°-80°	3510.3	12.0
80°-90°	926.8	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°	29339.3	100.0
0°-180°	29339.3	100.0



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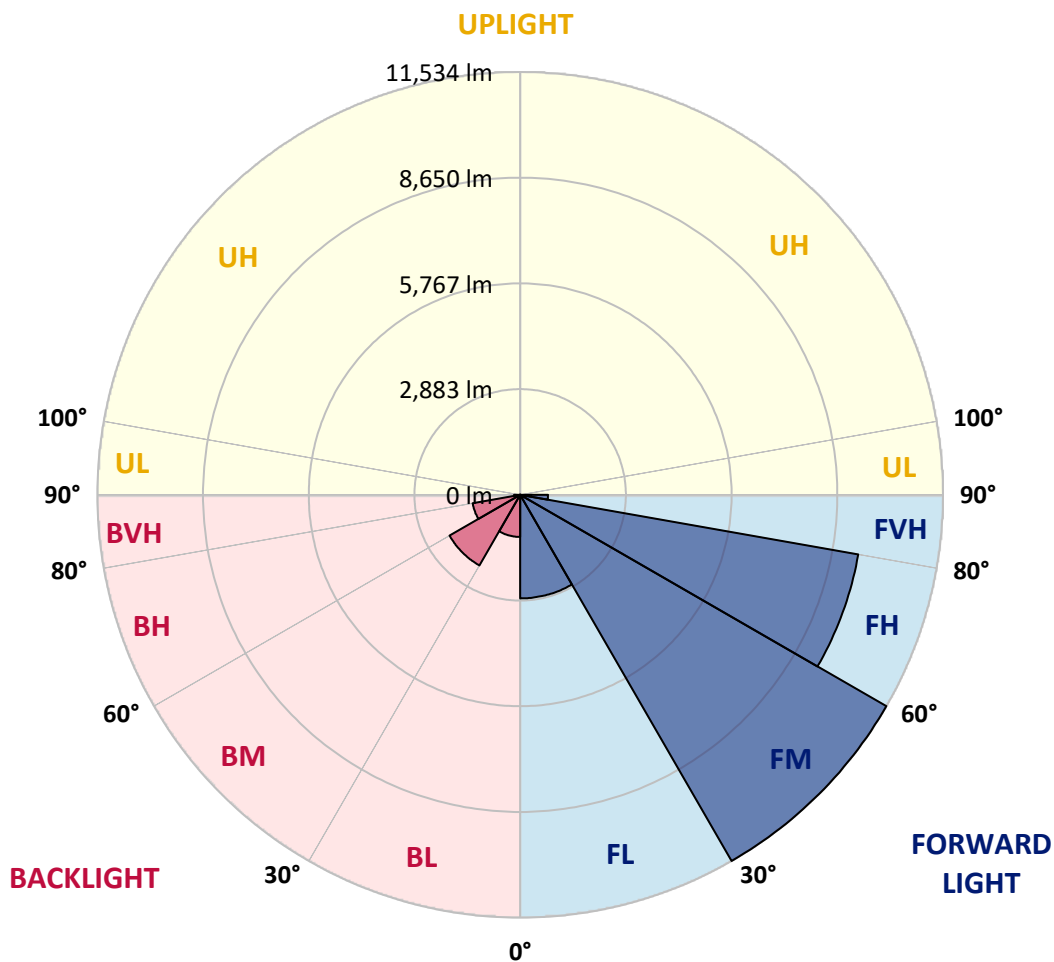
CATALOG NUMBER: GAN-AF-05-LED-U-SLL-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2825.3	9.6			
FM	(30°-60°)	11533.5	39.3			
FH	(60°-80°)	9364.1	31.9			G4/12000
FVH	(80°-90°)	761.1	2.6			G5
BL	(0°-30°)	1148.7	3.9	B3/2500		
BM	(30°-60°)	2224.6	7.6	B2/2500		
BH	(60°-80°)	1316.3	4.5	B3/2500		G3/2500
BVH	(80°-90°)	165.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4
2.5°	10299.5	10464.0	10784.9	11025.3	11317.1	11384.9	11478.4	11386.5	11223.6	11007.5	10936.5
5°	9685.0	10036.6	10815.6	11501.0	12110.6	12394.5	12473.6	12239.7	11767.1	11146.2	10767.2
7.5°	8699.6	9199.5	10254.3	11263.9	12162.3	12692.9	12680.0	12136.5	11267.2	10255.9	9647.9
10°	7849.6	8420.5	9630.2	10759.1	11712.3	12226.8	12028.4	11333.3	10296.2	9131.8	8472.2
12.5°	7373.8	7933.5	9160.8	10294.6	11091.3	11268.7	11117.1	10436.6	9459.2	8281.8	7704.5
15°	7291.6	7906.1	8973.7	9896.2	10343.0	10188.2	10007.5	9702.7	9012.4	8007.7	7406.1
17.5°	7648.0	8325.4	9188.2	9618.8	9543.0	9273.7	9222.1	9256.0	9089.8	8312.5	7618.9
20°	8331.8	9144.7	9699.5	9488.2	8935.0	8564.0	8576.9	9094.6	9586.6	9085.0	8293.1
22.5°	9291.5	10218.8	10436.6	9557.5	8678.6	8238.2	8344.7	9183.3	10378.4	10214.0	9202.8
25°	10533.3	11378.4	11222.0	9809.2	8704.4	8278.6	8364.1	9489.8	11313.9	11343.0	10328.5
27.5°	11736.5	12520.3	11881.7	10143.0	8810.8	8373.8	8486.6	9972.0	12207.4	12568.7	11615.5
30°	12675.2	13220.3	12142.9	10447.8	9020.5	8559.2	8699.6	10430.1	12613.8	13396.1	12605.8
32.5°	13452.5	13844.4	12559.0	10825.3	9405.9	8851.2	9097.9	10986.5	13199.3	14183.1	13575.1
35°	14446.0	14557.3	13076.7	11246.2	10001.1	9359.2	9665.7	11531.6	13757.4	14978.3	14529.9
37.5°	15610.4	15466.9	13565.5	11821.9	10770.4	10154.3	10407.5	12130.0	14217.0	15879.8	15505.7
40°	16762.0	16416.8	14178.3	12715.5	11892.9	11091.3	11391.4	12768.7	14646.0	16782.9	16458.8
42.5°	17741.0	17229.8	14783.1	13697.6	12938.1	12125.1	12483.2	13412.2	15055.7	17553.9	17286.2
45°	18465.2	17829.7	15358.9	14641.2	14378.3	13499.3	13668.7	14149.3	15499.1	18197.5	17966.8
47.5°	19111.9	18432.9	16010.4	15592.7	15637.8	15286.3	15013.7	15007.3	16021.8	18723.2	18610.3
50°	19978.0	19269.9	16710.4	16573.3	17528.1	17294.2	16692.7	16008.9	16683.0	19320.0	19307.1
52.5°	21171.5	20595.7	17565.2	17629.7	19292.5	19445.8	18700.7	17212.0	17718.4	20415.0	20337.6
55°	22582.7	22247.2	18729.6	18844.2	21456.9	21566.6	20826.4	18716.7	19240.9	22000.5	21786.0
57.5°	23684.3	23613.3	20007.0	20302.2	23073.0	23566.5	22885.9	20458.6	20957.0	23335.9	22797.2
60°	24122.9	24466.4	21366.6	21773.0	24568.1	25114.8	24518.1	21989.1	22477.8	23889.1	22727.8
62.5°	23885.8	24653.5	22815.0	22781.0	24901.9	25490.6	25071.3	22840.8	23605.2	23318.2	21577.9
65°	22790.7	23981.0	23655.2	22521.4	23760.1	23808.5	23672.9	22460.1	23871.3	21513.4	19355.5
67.5°	20405.4	22118.1	22548.8	20295.8	20679.6	20365.0	20137.6	20376.4	22484.3	18808.7	16266.9
70°	16620.1	19197.4	19403.8	16233.0	16058.8	15847.6	15394.4	16705.6	19747.3	15415.4	12907.4
72.5°	12220.3	14929.9	15563.7	11905.8	11099.4	11143.0	10784.9	12589.7	16055.6	11451.0	9636.6
75°	8360.9	10810.7	12176.8	8307.6	7340.0	7357.7	7312.6	8920.5	12788.0	7965.7	7210.9
77.5°	6107.7	7723.8	9183.3	5585.2	5422.3	5322.3	5298.1	6241.6	9804.4	5783.6	5599.7
80°	4901.4	5706.1	6169.0	3870.7	4162.7	4154.6	4020.7	4291.7	6402.9	4230.4	4188.5
82.5°	3399.8	4385.3	4998.1	3033.7	2809.5	2762.8	2795.0	3196.6	4525.5	2891.8	2749.9
85°	1793.4	2912.8	4949.8	2688.5	1667.6	1330.6	1654.7	2617.6	3920.8	1532.2	1341.9
87.5°	229.0	841.9	3277.2	1072.6	658.1	354.9	785.4	1474.1	2517.6	312.9	272.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4
2.5°	10754.3	10539.8	10259.2	9999.4	9730.1	9462.4	9112.4	8893.1	8741.5	8712.5	8647.9
5°	10493.0	9780.1	9241.4	8775.4	8352.8	7756.0	7425.4	7151.2	7004.5	6989.9	6954.4
7.5°	9288.2	8304.4	7577.0	6917.4	6319.0	5836.8	5304.5	5056.1	4954.6	4978.8	5002.9
10°	8035.1	6935.1	6099.7	5425.5	4898.1	4491.7	4064.3	3775.6	3575.6	3535.3	3527.2
12.5°	7119.0	5912.6	5101.4	4625.6	4217.5	3835.2	3382.1	3041.7	2782.1	2693.4	2633.7
15°	6731.9	5412.6	4562.7	4049.8	3599.8	3114.4	2693.4	2336.9	2098.3	2020.8	1977.4
17.5°	6814.2	5273.9	4191.7	3535.3	2959.5	2453.1	1922.4	1617.7	1474.1	1437.0	1437.0
20°	7246.4	5248.1	3885.3	3061.1	2343.4	1756.4	1320.9	1146.7	1100.0	1095.1	1108.0
22.5°	7852.8	5338.5	3656.2	2649.9	1820.9	1282.2	1029.0	964.4	943.5	948.4	962.8
25°	8755.9	5643.2	3490.1	2283.7	1429.0	1050.0	917.7	879.0	869.3	882.2	900.0
27.5°	9826.9	5948.0	3386.9	2008.0	1206.4	959.6	872.6	832.2	838.6	854.8	870.9
30°	10767.2	6198.1	3224.0	1811.2	1137.0	964.4	872.6	817.7	811.2	814.5	819.3
32.5°	11610.7	6367.4	3033.7	1624.1	980.6	856.4	814.5	806.4	770.9	758.0	759.6
35°	12338.0	6367.4	2919.2	1514.5	879.0	759.6	691.9	651.6	633.8	635.5	653.2
37.5°	13039.7	6240.0	2862.7	1453.1	824.2	722.5	662.9	627.4	603.2	598.3	601.6
40°	13659.0	6054.5	2798.3	1427.3	782.3	700.0	643.5	614.5	588.7	580.6	582.3
42.5°	14155.7	5904.6	2727.3	1393.5	756.4	683.8	630.6	604.8	575.8	567.7	566.1
45°	14692.7	5854.6	2633.7	1325.7	769.4	685.5	627.4	600.0	570.9	561.3	558.0
47.5°	15400.8	6011.0	2536.9	1245.1	796.8	693.6	632.2	600.0	569.4	561.3	558.0
50°	16292.6	6378.7	2414.4	1127.4	769.4	716.1	630.6	595.2	569.4	561.3	554.8
52.5°	17437.8	6875.5	2253.2	991.9	753.2	770.9	627.4	585.4	561.3	549.9	538.7
55°	18829.7	7281.9	2061.1	880.6	716.1	756.4	622.6	574.2	548.4	532.2	522.5
57.5°	19848.9	7428.7	1814.4	808.0	664.5	732.2	616.1	559.7	532.2	519.4	506.5
60°	19647.3	7144.8	1606.3	762.8	633.8	661.2	611.2	546.8	517.7	508.0	496.7
62.5°	18032.9	6402.9	1472.5	741.9	614.5	603.2	616.1	533.9	504.8	495.1	491.9
65°	15612.1	5307.8	1419.2	737.0	598.3	569.4	572.5	519.4	490.3	482.2	479.0
67.5°	12878.3	4283.6	1372.5	753.2	577.4	545.1	529.0	500.0	475.8	467.7	461.2
70°	10156.0	3562.7	1351.5	743.5	551.6	521.0	503.2	479.0	458.1	450.0	445.2
72.5°	8178.6	3009.5	1340.3	733.9	517.7	488.7	472.6	451.6	429.0	425.8	420.9
75°	6920.6	2366.0	1227.3	703.2	479.0	450.0	438.6	419.3	396.8	396.8	393.5
77.5°	5338.5	1711.2	1020.9	622.6	438.6	406.4	396.8	382.3	356.4	361.3	359.7
80°	3943.4	1116.0	798.3	516.1	388.7	358.0	353.2	338.7	311.3	317.7	317.7
82.5°	2701.5	732.2	574.2	422.6	332.3	303.2	303.2	288.7	258.1	261.3	271.0
85°	1356.3	503.2	429.0	327.4	258.1	243.6	243.6	232.2	201.6	203.3	216.1
87.5°	412.9	303.2	283.9	233.8	185.5	182.3	174.2	166.1	146.8	145.2	153.2
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4
2.5°	8549.5	8457.7	8346.4	8101.2	8018.9	8014.1	8088.3	8010.8	8159.3	8096.3	8165.7
5°	6894.8	6804.5	6680.3	6367.4	6177.1	6048.1	5986.8	5806.2	5936.8	5841.7	5920.6
7.5°	5070.7	5091.6	5009.4	4825.6	4411.1	4203.0	4080.4	3970.8	4065.9	4056.2	4207.8
10°	3564.4	3620.7	3562.7	3377.3	3041.7	2927.3	2949.9	2993.4	3117.5	3182.1	3415.9
12.5°	2566.0	2562.8	2525.7	2359.5	2138.6	2151.5	2243.4	2319.2	2433.7	2501.5	2740.2
15°	1916.0	1887.0	1870.9	1735.4	1609.6	1637.0	1682.1	1690.2	1762.9	1803.2	1996.7
17.5°	1448.3	1462.8	1480.5	1383.8	1288.6	1270.9	1235.4	1191.8	1212.8	1220.9	1317.7
20°	1149.9	1208.0	1251.6	1183.8	1087.1	1035.4	990.3	961.3	961.3	959.6	987.0
22.5°	1004.7	1046.7	1093.5	1046.7	959.6	914.5	888.6	866.1	862.9	862.9	888.6
25°	925.8	956.4	1001.6	969.3	904.8	870.9	846.7	817.7	806.4	803.2	820.9
27.5°	887.0	900.0	922.5	893.5	838.6	822.6	816.1	790.3	775.8	767.7	785.4
30°	820.9	817.7	819.3	790.3	746.8	745.1	756.4	761.3	756.4	754.8	782.3
32.5°	759.6	753.2	751.6	725.8	685.5	675.8	685.5	695.1	706.4	722.5	754.8
35°	682.2	698.4	708.0	685.5	637.1	608.0	596.8	579.0	569.4	569.4	606.4
37.5°	620.9	658.1	672.6	651.6	598.3	558.0	538.7	535.4	537.0	543.5	579.0
40°	600.0	627.4	640.3	619.3	566.1	529.0	517.7	514.4	517.7	527.4	562.8
42.5°	587.1	606.4	604.8	579.0	535.4	509.6	503.2	500.0	503.2	512.9	551.6
45°	575.8	588.7	575.8	545.1	504.8	491.9	493.5	491.9	495.1	504.8	541.9
47.5°	566.1	570.9	554.8	524.2	482.2	479.0	485.5	490.3	493.5	501.6	540.3
50°	551.6	551.6	537.0	504.8	462.9	464.5	472.6	483.9	485.5	495.1	525.8
52.5°	533.9	532.2	522.5	491.9	446.7	451.6	451.6	464.5	467.7	479.0	511.3
55°	519.4	516.1	511.3	482.2	432.2	440.3	435.5	440.3	448.4	459.6	495.1
57.5°	506.5	500.0	500.0	474.1	420.9	424.2	412.9	419.3	429.0	438.6	475.8
60°	493.5	487.0	490.3	462.9	403.2	400.0	395.2	408.1	411.2	422.6	459.6
62.5°	479.0	474.1	475.8	450.0	390.3	382.3	382.3	393.5	395.2	411.2	446.7
65°	467.7	461.2	459.6	437.1	375.8	366.1	370.9	375.8	379.0	395.2	429.0
67.5°	456.4	443.6	443.6	425.8	359.7	350.0	359.7	358.0	362.8	377.4	404.8
70°	441.9	424.2	425.8	417.7	343.5	332.3	340.3	338.7	341.9	351.6	379.0
72.5°	419.3	404.8	408.1	404.8	327.4	311.3	314.5	314.5	314.5	322.5	351.6
75°	390.3	379.0	388.7	396.8	308.0	285.5	288.7	288.7	283.9	288.7	324.2
77.5°	354.9	348.4	380.6	369.3	285.5	258.1	258.1	254.8	245.1	251.6	290.3
80°	316.1	311.3	351.6	309.6	259.6	224.2	221.0	212.9	203.3	208.1	246.7
82.5°	275.8	271.0	295.1	237.1	224.2	185.5	177.4	162.9	153.2	158.0	193.5
85°	225.8	225.8	227.4	179.0	170.9	141.9	132.3	112.9	101.6	104.9	138.7
87.5°	161.3	166.1	153.2	122.5	101.6	79.1	72.5	61.3	51.7	59.6	72.5
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: P191303

CATALOG NUMBER: GAN-AF-05-LED-U-SLL-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4	9912.4
2.5°	8520.6	8697.9	8899.6	9157.6	9378.5	9741.5	10089.8	10299.5
5°	6370.6	6665.8	7033.5	7506.1	7946.4	8607.6	9264.0	9685.0
7.5°	4559.4	4875.6	5272.3	5862.6	6485.1	7328.6	8196.3	8699.6
10°	3772.3	4096.5	4430.4	4828.7	5338.5	6256.2	7281.9	7849.6
12.5°	3120.8	3467.6	3827.3	4246.6	4719.1	5538.5	6720.6	7373.8
15°	2388.6	2775.7	3199.8	3730.5	4322.4	5269.1	6581.9	7291.6
17.5°	1637.0	2069.2	2590.2	3245.0	3969.2	5182.0	6830.2	7648.0
20°	1127.4	1441.8	1998.2	2766.0	3636.9	5170.7	7307.7	8331.8
22.5°	943.5	1083.8	1490.2	2325.7	3386.9	5309.4	8048.0	9291.5
25°	872.6	956.4	1190.3	1943.4	3204.7	5628.7	9067.2	10533.3
27.5°	830.6	906.4	1080.5	1693.5	3061.1	5999.7	10059.2	11736.5
30°	846.7	924.1	1050.0	1566.0	2866.0	6309.4	10939.7	12675.2
32.5°	762.8	796.8	900.0	1453.1	2725.7	6569.0	11710.6	13452.5
35°	650.0	709.6	803.2	1399.9	2728.9	6743.2	12551.0	14446.0
37.5°	619.3	679.0	746.8	1380.6	2766.0	6928.7	13515.4	15610.4
40°	600.0	654.8	712.9	1369.3	2801.5	7098.1	14460.5	16762.0
42.5°	587.1	637.1	709.6	1330.6	2819.3	7249.7	15237.9	17741.0
45°	585.4	637.1	722.5	1291.9	2846.7	7412.5	15889.5	18465.2
47.5°	587.1	658.1	698.4	1245.1	2846.7	7685.1	16653.9	19111.9
50°	580.6	693.6	672.6	1179.0	2780.5	8201.2	17702.3	19978.0
52.5°	577.4	688.7	622.6	1077.4	2666.0	9020.5	19045.8	21171.5
55°	569.4	664.5	587.1	925.8	2532.1	9914.0	20484.4	22582.7
57.5°	561.3	588.7	567.7	793.5	2325.7	10543.0	21474.7	23684.3
60°	629.0	514.4	551.6	729.0	2049.9	10715.6	21435.9	24122.9
62.5°	582.3	482.2	530.6	714.4	1856.3	10231.8	20445.7	23885.8
65°	456.4	461.2	509.6	756.4	1804.8	8949.5	18690.9	22790.7
67.5°	417.7	440.3	488.7	809.7	1809.6	7165.8	16068.5	20405.4
70°	393.5	417.7	464.5	837.1	1822.5	5341.6	12704.1	16620.1
72.5°	366.1	387.1	437.1	841.9	1738.6	3880.5	9791.4	12220.3
75°	333.9	353.2	398.3	733.9	1440.2	2691.8	7489.9	8360.9
77.5°	296.8	311.3	350.0	566.1	1069.3	1722.4	5622.2	6107.7
80°	253.2	261.3	293.5	414.5	732.2	1077.4	4448.2	4901.4
82.5°	203.3	206.4	227.4	311.3	475.8	691.9	2978.8	3399.8
85°	143.5	143.5	156.4	225.8	324.2	438.6	1617.7	1793.4
87.5°	67.7	69.4	69.4	124.2	169.3	222.6	372.6	229.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)