

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: P193842

Luminaire Tested: **GAN-AF-04-LED-U-SLL-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193842
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-04-LED-U-SLL-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 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: 18889 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 258
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



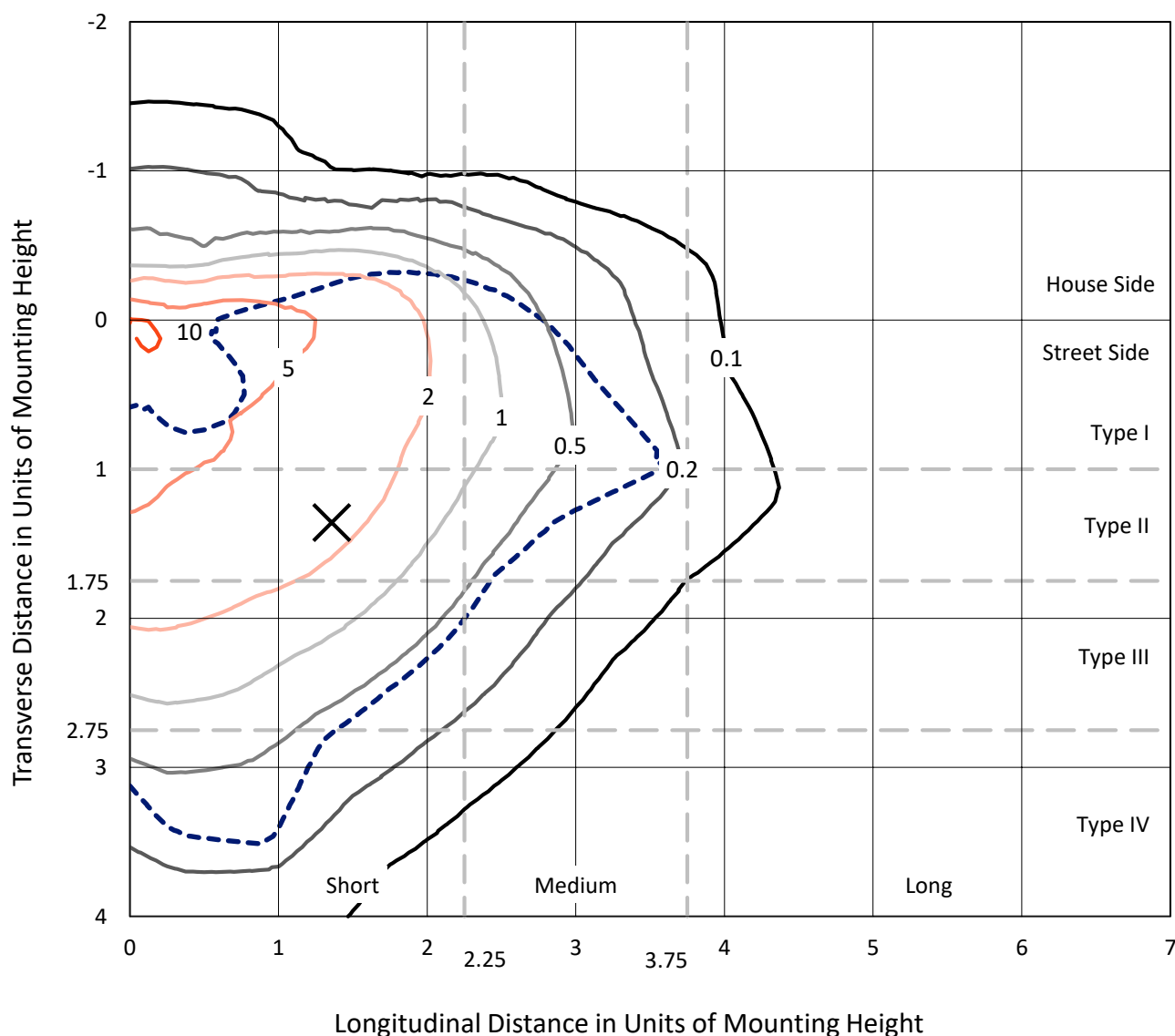
REPORT NUMBER: P193842

CATALOG NUMBER: GAN-AF-04-LED-U-SLL-8030-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

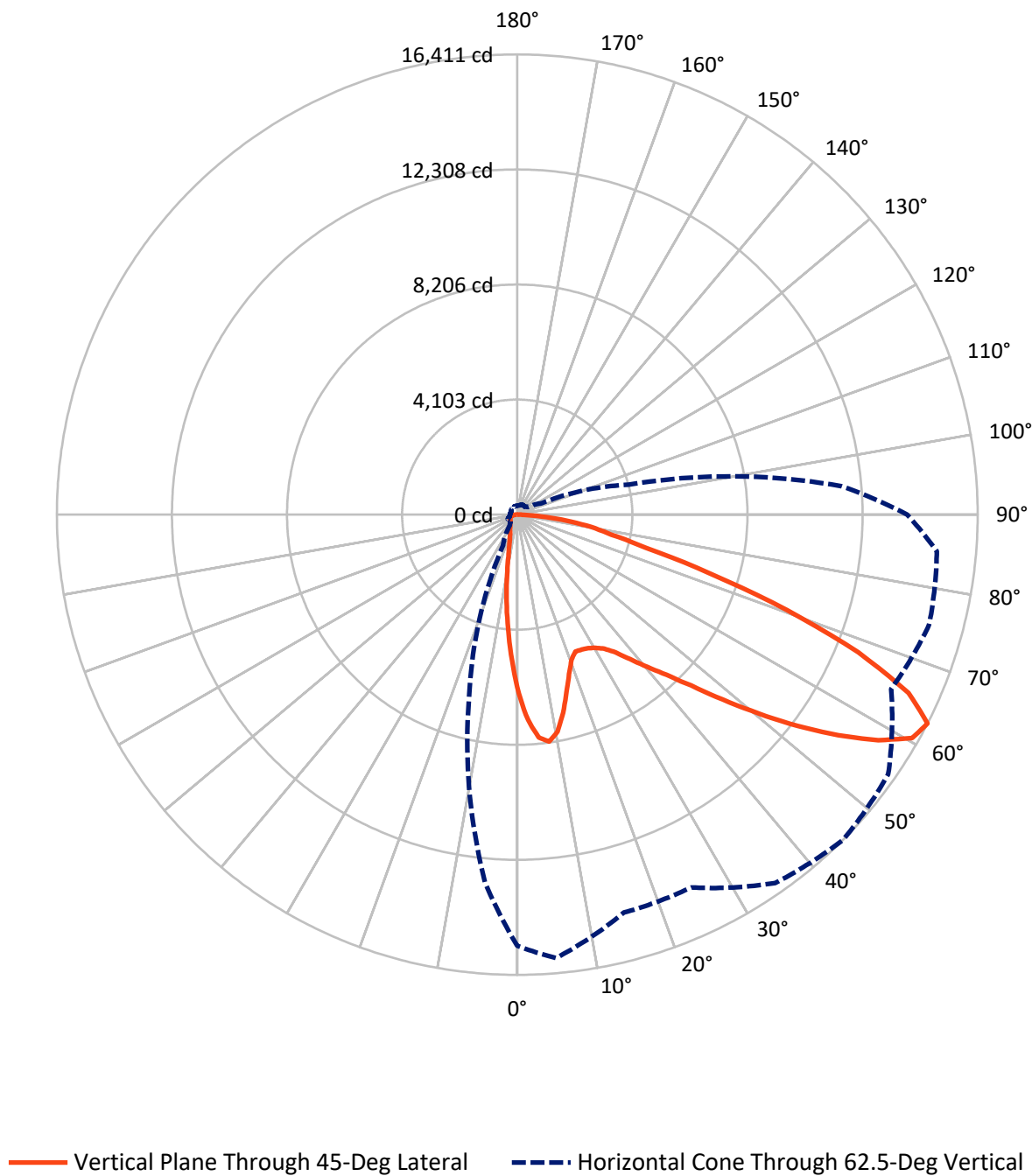


Based on 25 foot mounting height. Maximum calculated value = 12 fc
Type IV - Short - Non-Cutoff

REPORT NUMBER: P193842

CATALOG NUMBER: GAN-AF-04-LED-U-SLL-8030-1200

Luminous Intensity Polar Plot



REPORT NUMBER: P193842

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3125.9	0.0	3125.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	15763.1	0.0	15763.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	18889.0	0.0	18889.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.6	2.5
10°-20°	851.9	4.5
20°-30°	1242.0	6.6
30°-40°	1912.9	10.1
40°-50°	2815.3	14.9
50°-60°	4129.5	21.9
60°-70°	4616.1	24.4
70°-80°	2260.0	12.0
80°-90°	596.7	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°	18889.0	100.0
0°-180°	18889.0	100.0

Coefficient of Utilization



REPORT NUMBER: P193842

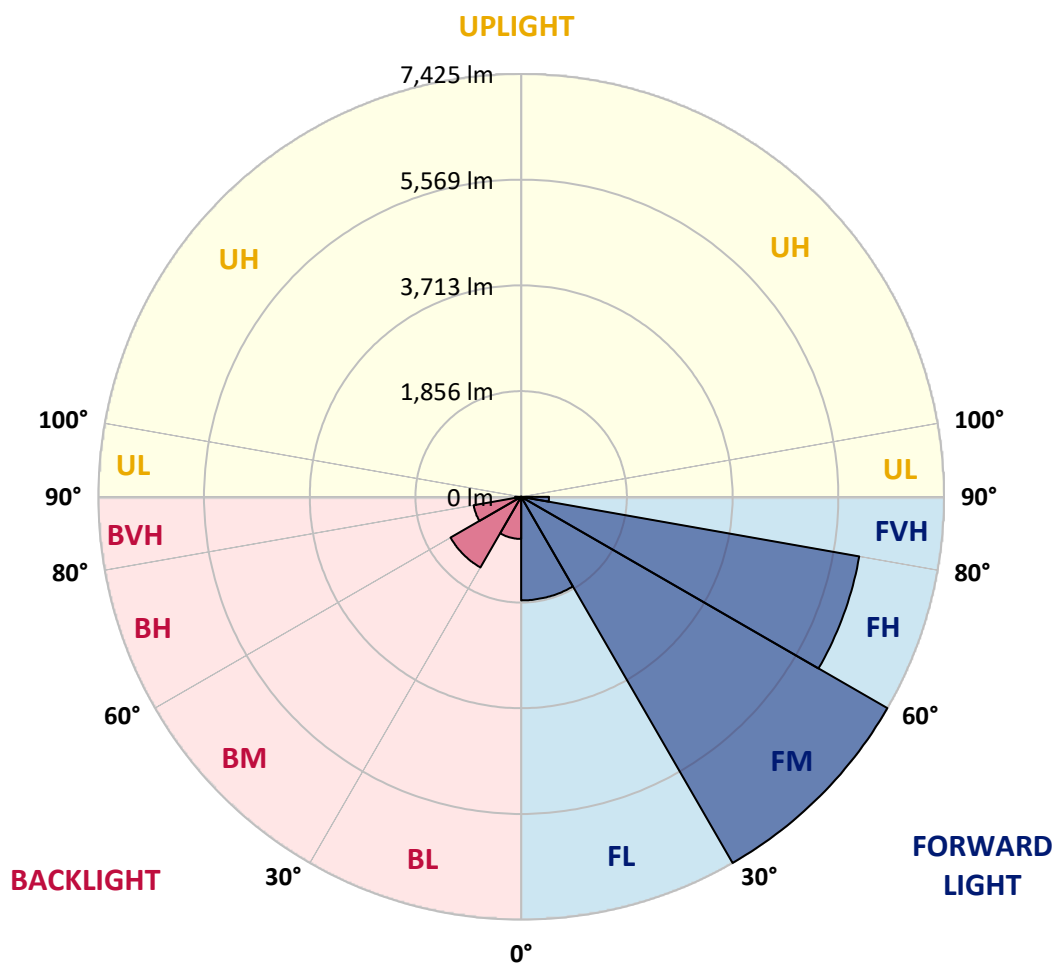
CATALOG NUMBER: GAN-AF-04-LED-U-SLL-8030-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1818.9	9.6			
FM	(30°-60°)	7425.4	39.3			
FH	(60°-80°)	6028.7	31.9			G3/7500
FVH	(80°-90°)	490.0	2.6			G3/500
BL	(0°-30°)	739.5	3.9	B2/1000		
BM	(30°-60°)	1432.2	7.6	B2/2500		
BH	(60°-80°)	847.4	4.5	B2/1000		G2/1000
BVH	(80°-90°)	106.7	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





REPORT NUMBER: P193842

CATALOG NUMBER: GAN-AF-04-LED-U-SLL-8030-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7
2.5°	6630.9	6736.8	6943.5	7098.2	7286.1	7329.7	7390.0	7330.8	7225.9	7086.8	7041.1
5°	6235.3	6461.7	6963.2	7404.5	7797.0	7979.7	8030.6	7880.1	7575.8	7176.1	6932.0
7.5°	5600.9	5922.8	6601.9	7251.9	7830.2	8171.8	8163.5	7813.6	7253.9	6602.9	6211.4
10°	5053.7	5421.2	6200.0	6926.9	7540.5	7871.8	7744.0	7296.5	6628.8	5879.2	5454.5
12.5°	4747.4	5107.7	5897.8	6627.8	7140.8	7255.0	7157.4	6719.2	6089.9	5331.9	4960.2
15°	4694.4	5090.0	5777.4	6371.3	6659.0	6559.3	6443.0	6246.7	5802.3	5155.4	4768.1
17.5°	4923.9	5360.0	5915.5	6192.7	6143.9	5970.5	5937.3	5959.1	5852.2	5351.7	4905.2
20°	5364.1	5887.5	6244.7	6108.6	5752.5	5513.7	5522.0	5855.3	6172.0	5849.0	5339.2
22.5°	5982.0	6579.0	6719.2	6153.3	5587.4	5303.9	5372.4	5912.4	6681.8	6575.9	5924.8
25°	6781.5	7325.6	7224.9	6315.3	5604.0	5329.9	5384.9	6109.7	7284.1	7302.7	6649.6
27.5°	7556.1	8060.7	7649.6	6530.2	5672.5	5391.1	5463.8	6420.1	7859.3	8091.9	7478.2
30°	8160.4	8511.4	7817.8	6726.5	5807.5	5510.5	5600.9	6715.0	8121.0	8624.6	8115.8
32.5°	8660.9	8913.2	8085.7	6969.4	6055.7	5698.5	5857.4	7073.3	8497.9	9131.3	8739.8
35°	9300.5	9372.2	8419.0	7240.4	6438.8	6025.6	6222.9	7424.2	8857.2	9643.2	9354.5
37.5°	10050.2	9957.8	8733.6	7611.1	6934.1	6537.5	6700.5	7809.5	9153.1	10223.6	9982.7
40°	10791.6	10569.4	9128.2	8186.4	7656.8	7140.8	7333.9	8220.6	9429.3	10805.1	10596.4
42.5°	11421.9	11092.7	9517.5	8818.7	8329.7	7806.3	8036.9	8634.9	9693.0	11301.4	11129.1
45°	11888.1	11479.0	9888.2	9426.2	9256.9	8691.0	8800.0	9109.5	9978.6	11715.7	11567.3
47.5°	12304.5	11867.3	10307.7	10038.8	10067.9	9841.5	9666.0	9661.9	10315.0	12054.2	11981.6
50°	12862.1	12406.2	10758.4	10670.1	11284.8	11134.3	10747.0	10306.7	10740.7	12438.4	12430.1
52.5°	13630.5	13259.8	11308.7	11350.2	12420.8	12519.4	12039.7	11081.3	11407.4	13143.5	13093.6
55°	14539.0	14323.1	12058.4	12132.1	13814.3	13884.9	13408.3	12050.1	12387.6	14164.2	14026.1
57.5°	15248.2	15202.5	12880.8	13070.8	14854.7	15172.4	14734.2	13171.5	13492.4	15023.9	14677.1
60°	15530.7	15751.8	13756.1	14017.8	15817.2	16169.2	15785.1	14156.9	14471.5	15380.1	14632.5
62.5°	15378.0	15872.3	14688.6	14666.7	16032.2	16411.2	16141.2	14705.2	15197.3	15012.5	13892.1
65°	14673.0	15439.3	15229.5	14499.6	15297.0	15328.2	15241.0	14460.1	15368.7	13850.6	12461.3
67.5°	13137.3	14240.0	14517.2	13066.6	13313.8	13111.3	12964.9	13118.6	14475.7	12109.3	10472.8
70°	10700.2	12359.5	12492.4	10451.0	10338.9	10202.9	9911.1	10755.3	12713.6	9924.6	8309.9
72.5°	7867.6	9612.0	10020.1	7665.1	7146.0	7174.0	6943.5	8105.4	10336.8	7372.3	6204.2
75°	5382.8	6960.1	7839.6	5348.6	4725.5	4737.0	4707.9	5743.1	8233.1	5128.4	4642.5
77.5°	3932.2	4972.7	5912.4	3595.8	3490.9	3426.6	3411.0	4018.4	6312.2	3723.5	3605.2
80°	3155.6	3673.7	3971.7	2492.0	2680.0	2674.8	2588.6	2763.1	4122.3	2723.6	2696.6
82.5°	2188.8	2823.3	3217.9	1953.1	1808.8	1778.7	1799.5	2058.0	2913.6	1861.8	1770.4
85°	1154.6	1875.3	3186.7	1730.9	1073.7	856.6	1065.4	1685.2	2524.2	986.4	863.9
87.5°	147.4	542.0	2109.9	690.5	423.6	228.4	505.7	949.1	1620.9	201.4	175.5
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: P193842

CATALOG NUMBER: GAN-AF-04-LED-U-SLL-8030-1200

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7
2.5°	6923.7	6785.6	6605.0	6437.8	6264.4	6092.0	5866.7	5725.5	5627.9	5609.2	5567.7
5°	6755.5	6296.6	5949.8	5649.7	5377.6	4993.4	4780.6	4604.1	4509.6	4500.2	4477.4
7.5°	5979.9	5346.5	4878.2	4453.5	4068.3	3757.8	3415.1	3255.2	3189.8	3205.4	3221.0
10°	5173.1	4464.9	3927.1	3493.0	3153.5	2891.8	2616.7	2430.8	2302.0	2276.1	2270.9
12.5°	4583.3	3806.6	3284.3	2978.0	2715.3	2469.2	2177.4	1958.3	1791.2	1734.1	1695.6
15°	4334.1	3484.7	2937.5	2607.3	2317.6	2005.1	1734.1	1504.6	1350.9	1301.1	1273.0
17.5°	4387.0	3395.4	2698.7	2276.1	1905.4	1579.3	1237.7	1041.5	949.1	925.2	925.2
20°	4665.3	3378.8	2501.4	1970.8	1508.7	1130.8	850.4	738.3	708.2	705.0	713.3
22.5°	5055.7	3437.0	2353.9	1706.0	1172.3	825.5	662.5	620.9	607.4	610.6	619.9
25°	5637.2	3633.2	2247.0	1470.3	920.0	676.0	590.8	565.9	559.7	568.0	579.4
27.5°	6326.7	3829.4	2180.5	1292.8	776.7	617.8	561.7	535.8	539.9	550.3	560.7
30°	6932.0	3990.4	2075.7	1166.1	732.0	620.9	561.7	526.4	522.3	524.4	527.5
32.5°	7475.1	4099.4	1953.1	1045.6	631.3	551.4	524.4	519.2	496.3	488.0	489.1
35°	7943.4	4099.4	1879.4	975.0	565.9	489.1	445.5	419.5	408.1	409.1	420.5
37.5°	8395.1	4017.4	1843.1	935.6	530.6	465.2	426.8	403.9	388.3	385.2	387.3
40°	8793.8	3898.0	1801.5	918.9	503.6	450.6	414.3	395.6	379.0	373.8	374.8
42.5°	9113.6	3801.4	1755.9	897.1	487.0	440.3	406.0	389.4	370.7	365.5	364.5
45°	9459.4	3769.2	1695.6	853.5	495.3	441.3	403.9	386.3	367.6	361.3	359.3
47.5°	9915.2	3869.9	1633.3	801.6	512.9	446.5	407.0	386.3	366.5	361.3	359.3
50°	10489.4	4106.7	1554.4	725.8	495.3	461.0	406.0	383.2	366.5	361.3	357.2
52.5°	11226.7	4426.5	1450.6	638.6	484.9	496.3	403.9	376.9	361.3	354.1	346.8
55°	12122.8	4688.2	1327.0	566.9	461.0	487.0	400.8	369.7	353.0	342.7	336.4
57.5°	12779.0	4782.7	1168.1	520.2	427.8	471.4	396.7	360.3	342.7	334.3	326.0
60°	12649.2	4599.9	1034.2	491.1	408.1	425.7	393.5	352.0	333.3	327.1	319.8
62.5°	11609.8	4122.3	948.0	477.6	395.6	388.3	396.7	343.7	325.0	318.8	316.7
65°	10051.3	3417.2	913.8	474.5	385.2	366.5	368.6	334.3	315.7	310.5	308.4
67.5°	8291.3	2757.9	883.6	484.9	371.7	351.0	340.6	321.9	306.3	301.1	297.0
70°	6538.5	2293.7	870.1	478.7	355.1	335.4	324.0	308.4	294.9	289.7	286.6
72.5°	5265.5	1937.6	862.9	472.5	333.3	314.6	304.2	290.7	276.2	274.1	271.0
75°	4455.6	1523.3	790.2	452.7	308.4	289.7	282.4	270.0	255.4	255.4	253.4
77.5°	3437.0	1101.7	657.3	400.8	282.4	261.7	255.4	246.1	229.5	232.6	231.6
80°	2538.8	718.5	514.0	332.3	250.2	230.5	227.4	218.1	200.4	204.6	204.6
82.5°	1739.2	471.4	369.7	272.0	213.9	195.2	195.2	185.9	166.1	168.2	174.4
85°	873.3	324.0	276.2	210.8	166.1	156.8	156.8	149.5	129.8	130.8	139.1
87.5°	265.8	195.2	182.8	150.6	119.4	117.3	112.1	107.0	94.5	93.5	98.6
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: P193842

CATALOG NUMBER: GAN-AF-04-LED-U-SLL-8030-1200

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7
2.5°	5504.3	5445.1	5373.5	5215.7	5162.7	5159.6	5207.3	5157.5	5253.0	5212.5	5257.2
5°	4439.0	4380.8	4300.9	4099.4	3976.9	3893.8	3854.4	3738.1	3822.2	3760.9	3811.8
7.5°	3264.6	3278.1	3225.1	3106.8	2839.9	2705.9	2627.0	2556.4	2617.7	2611.5	2709.1
10°	2294.8	2331.1	2293.7	2174.3	1958.3	1884.6	1899.1	1927.2	2007.1	2048.7	2199.2
12.5°	1652.0	1649.9	1626.1	1519.1	1376.9	1385.2	1444.3	1493.2	1566.9	1610.5	1764.2
15°	1233.6	1214.9	1204.5	1117.3	1036.3	1053.9	1083.0	1088.2	1134.9	1160.9	1285.5
17.5°	932.4	941.8	953.2	890.9	829.6	818.2	795.4	767.3	780.8	786.0	848.3
20°	740.3	777.7	805.8	762.2	699.9	666.6	637.5	618.9	618.9	617.8	635.5
22.5°	646.9	673.9	704.0	673.9	617.8	588.7	572.1	557.6	555.5	555.5	572.1
25°	596.0	615.7	644.8	624.1	582.5	560.7	545.1	526.4	519.2	517.1	528.5
27.5°	571.1	579.4	593.9	575.2	539.9	529.6	525.4	508.8	499.4	494.3	505.7
30°	528.5	526.4	527.5	508.8	480.8	479.7	487.0	490.1	487.0	485.9	503.6
32.5°	489.1	484.9	483.9	467.3	441.3	435.1	441.3	447.5	454.8	465.2	485.9
35°	439.2	449.6	455.8	441.3	410.1	391.5	384.2	372.8	366.5	366.5	390.4
37.5°	399.8	423.6	433.0	419.5	385.2	359.3	346.8	344.7	345.8	349.9	372.8
40°	386.3	403.9	412.2	398.7	364.5	340.6	333.3	331.2	333.3	339.5	362.4
42.5°	378.0	390.4	389.4	372.8	344.7	328.1	324.0	321.9	324.0	330.2	355.1
45°	370.7	379.0	370.7	351.0	325.0	316.7	317.7	316.7	318.8	325.0	348.9
47.5°	364.5	367.6	357.2	337.5	310.5	308.4	312.5	315.7	317.7	322.9	347.8
50°	355.1	355.1	345.8	325.0	298.0	299.0	304.2	311.5	312.5	318.8	338.5
52.5°	343.7	342.7	336.4	316.7	287.6	290.7	290.7	299.0	301.1	308.4	329.2
55°	334.3	332.3	329.2	310.5	278.3	283.5	280.4	283.5	288.7	295.9	318.8
57.5°	326.0	321.9	321.9	305.3	271.0	273.1	265.8	270.0	276.2	282.4	306.3
60°	317.7	313.6	315.7	298.0	259.6	257.5	254.4	262.7	264.8	272.0	295.9
62.5°	308.4	305.3	306.3	289.7	251.3	246.1	246.1	253.4	254.4	264.8	287.6
65°	301.1	297.0	295.9	281.4	241.9	235.7	238.8	241.9	244.0	254.4	276.2
67.5°	293.9	285.5	285.5	274.1	231.6	225.3	231.6	230.5	233.6	243.0	260.6
70°	284.5	273.1	274.1	268.9	221.2	213.9	219.1	218.1	220.1	226.4	244.0
72.5°	270.0	260.6	262.7	260.6	210.8	200.4	202.5	202.5	202.5	207.7	226.4
75°	251.3	244.0	250.2	255.4	198.3	183.8	185.9	185.9	182.8	185.9	208.7
77.5°	228.4	224.3	245.1	237.8	183.8	166.1	166.1	164.1	157.8	162.0	186.9
80°	203.5	200.4	226.4	199.4	167.2	144.3	142.3	137.1	130.8	133.9	158.9
82.5°	177.6	174.4	190.0	152.6	144.3	119.4	114.2	104.9	98.6	101.8	124.6
85°	145.4	145.4	146.4	115.3	110.1	91.4	85.1	72.7	65.4	67.5	89.3
87.5°	103.8	107.0	98.6	78.9	65.4	50.9	46.7	39.5	33.2	38.4	46.7
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: P193842

CATALOG NUMBER: GAN-AF-04-LED-U-SLL-8030-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7	6381.7
2.5°	5485.6	5599.8	5729.6	5895.8	6038.0	6271.7	6495.9	6630.9
5°	4101.5	4291.5	4528.3	4832.5	5116.0	5541.7	5964.3	6235.3
7.5°	2935.4	3138.9	3394.4	3774.4	4175.2	4718.3	5276.9	5600.9
10°	2428.7	2637.4	2852.4	3108.8	3437.0	4027.8	4688.2	5053.7
12.5°	2009.2	2232.5	2464.0	2734.0	3038.2	3565.7	4326.8	4747.4
15°	1537.8	1787.0	2060.1	2401.7	2782.8	3392.3	4237.5	4694.4
17.5°	1053.9	1332.2	1667.6	2089.2	2555.4	3336.2	4397.4	4923.9
20°	725.8	928.3	1286.5	1780.8	2341.5	3329.0	4704.8	5364.1
22.5°	607.4	697.8	959.4	1497.3	2180.5	3418.3	5181.4	5982.0
25°	561.7	615.7	766.3	1251.2	2063.2	3623.9	5837.6	6781.5
27.5°	534.8	583.6	695.7	1090.3	1970.8	3862.7	6476.2	7556.1
30°	545.1	595.0	676.0	1008.2	1845.2	4062.0	7043.2	8160.4
32.5°	491.1	512.9	579.4	935.6	1754.8	4229.2	7539.5	8660.9
35°	418.5	456.9	517.1	901.3	1756.9	4341.4	8080.5	9300.5
37.5°	398.7	437.1	480.8	888.8	1780.8	4460.8	8701.4	10050.2
40°	386.3	421.6	459.0	881.6	1803.6	4569.8	9309.9	10791.6
42.5°	378.0	410.1	456.9	856.6	1815.0	4667.4	9810.4	11421.9
45°	376.9	410.1	465.2	831.7	1832.7	4772.3	10229.9	11888.1
47.5°	378.0	423.6	449.6	801.6	1832.7	4947.8	10722.0	12304.5
50°	373.8	446.5	433.0	759.0	1790.1	5280.0	11397.0	12862.1
52.5°	371.7	443.4	400.8	693.6	1716.4	5807.5	12261.9	13630.5
55°	366.5	427.8	378.0	596.0	1630.2	6382.8	13188.1	14539.0
57.5°	361.3	379.0	365.5	510.9	1497.3	6787.7	13825.7	15248.2
60°	405.0	331.2	355.1	469.3	1319.7	6898.8	13800.8	15530.7
62.5°	374.8	310.5	341.6	460.0	1195.1	6587.3	13163.2	15378.0
65°	293.9	297.0	328.1	487.0	1161.9	5761.8	12033.5	14673.0
67.5°	268.9	283.5	314.6	521.3	1165.0	4613.4	10345.1	13137.3
70°	253.4	268.9	299.0	538.9	1173.3	3439.0	8179.1	10700.2
72.5°	235.7	249.2	281.4	542.0	1119.3	2498.3	6303.8	7867.6
75°	214.9	227.4	256.5	472.5	927.2	1733.0	4822.1	5382.8
77.5°	191.1	200.4	225.3	364.5	688.4	1109.0	3619.7	3932.2
80°	163.0	168.2	189.0	266.9	471.4	693.6	2863.8	3155.6
82.5°	130.8	132.9	146.4	200.4	306.3	445.5	1917.8	2188.8
85°	92.4	92.4	100.7	145.4	208.7	282.4	1041.5	1154.6
87.5°	43.6	44.6	44.6	80.0	109.0	143.3	239.9	147.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)