

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: P192911

Luminaire Tested: **GAN-AF-03-LED-U-SL3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192911
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-03-LED-U-SL3-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17577.6 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 166
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



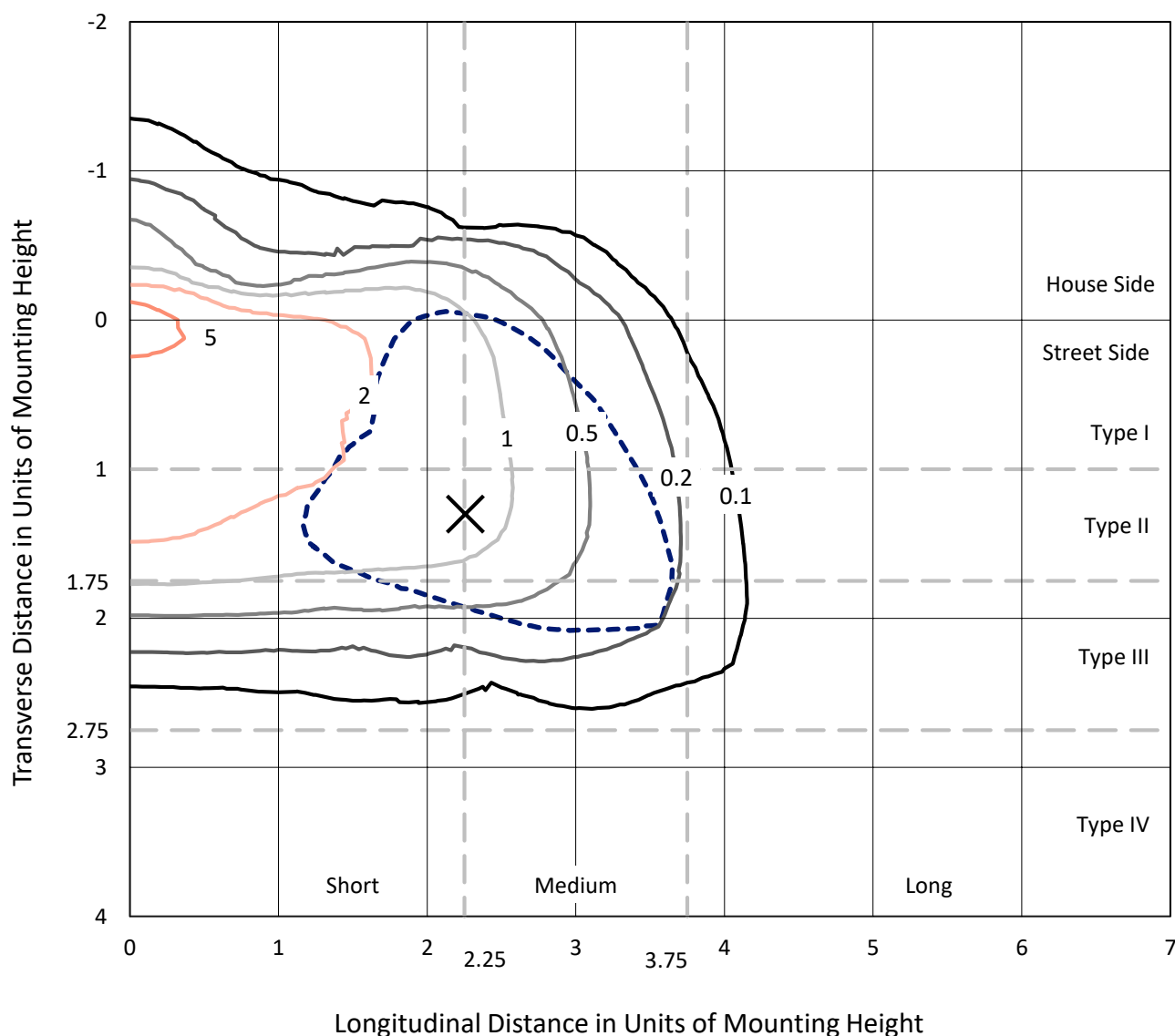
REPORT NUMBER: P192911

CATALOG NUMBER: GAN-AF-03-LED-U-SL3-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

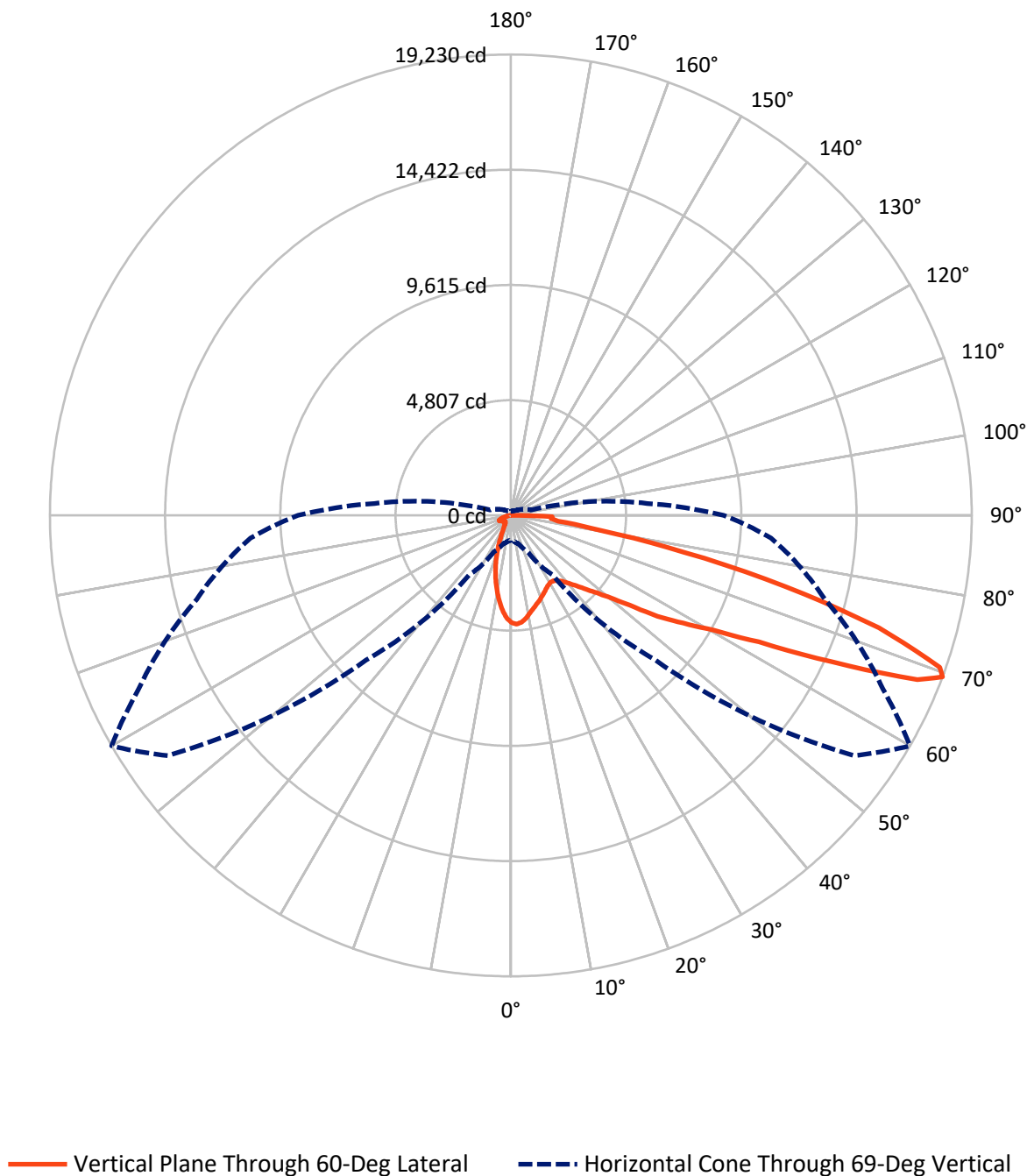


Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P192911

CATALOG NUMBER: GAN-AF-03-LED-U-SL3-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P192911

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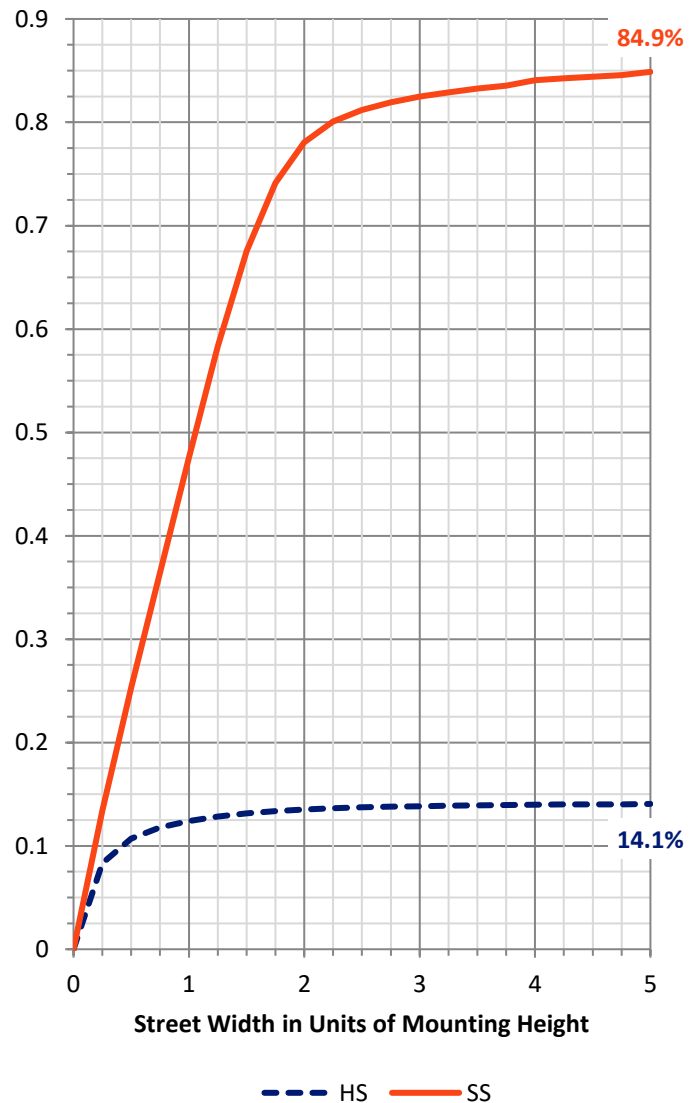
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2500.7	0.0	2500.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	15076.9	0.0	15076.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	17577.6	0.0	17577.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.7	2.2
10°-20°	806.9	4.6
20°-30°	1028.1	5.8
30°-40°	1413.4	8.0
40°-50°	2293.4	13.0
50°-60°	3678.0	20.9
60°-70°	4895.1	27.8
70°-80°	2643.0	15.0
80°-90°	441.0	2.5
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°	17577.6	100.0
0°-180°	17577.6	100.0

Coefficient of Utilization



REPORT NUMBER: P192911

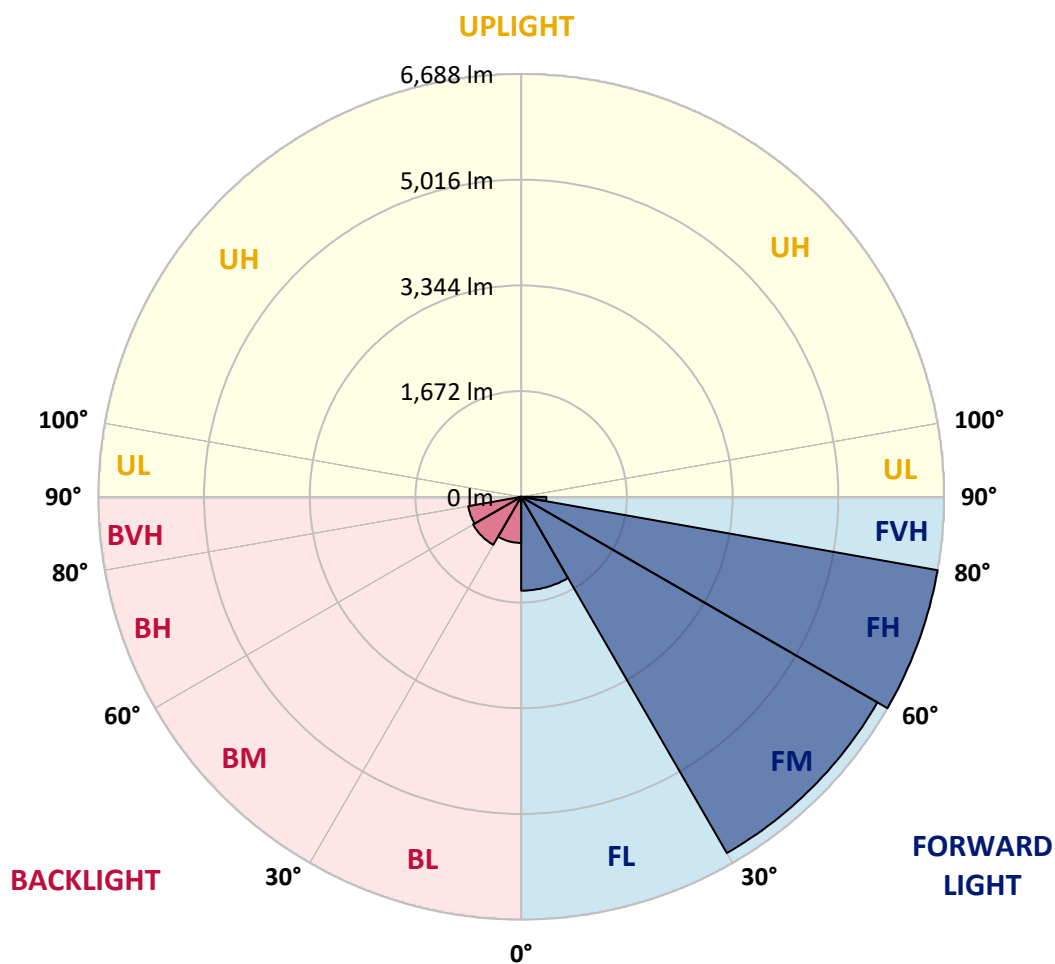
CATALOG NUMBER: GAN-AF-03-LED-U-SL3-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1484.2	8.4			
FM	(30°-60°)	6506.2	37.0			
FH	(60°-80°)	6687.9	38.0			G3/7500
FVH	(80°-90°)	398.5	2.3			G3/500
BL	(0°-30°)	729.5	4.2	B2/1000		
BM	(30°-60°)	878.6	5.0	B1/1000		
BH	(60°-80°)	850.2	4.8	B2/1000		G2/1000
BVH	(80°-90°)	42.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





REPORT NUMBER: P192911

CATALOG NUMBER: GAN-AF-03-LED-U-SL3-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	4479.1	4479.1	4479.1	4479.1	4479.1	4479.1	4479.1	4479.1	4479.1	4479.1	4479.1
2.5°	4570.8	4580.9	4576.7	4574.1	4581.8	4569.9	4545.3	4537.6	4525.7	4497.7	4450.1
5°	4399.3	4429.8	4428.1	4451.0	4489.3	4499.4	4488.4	4490.1	4468.0	4433.2	4354.2
7.5°	4102.9	4115.6	4122.5	4172.5	4242.1	4298.2	4345.8	4361.0	4350.8	4321.1	4219.3
10°	3797.2	3807.3	3823.5	3882.1	3970.5	4047.7	4137.7	4189.5	4211.6	4206.5	4092.8
12.5°	3534.9	3545.0	3566.2	3632.5	3737.8	3833.0	3963.6	4028.2	4080.9	4112.2	3989.9
15°	3299.6	3321.7	3342.1	3418.5	3536.5	3661.4	3809.1	3890.6	3972.1	4042.6	3899.1
17.5°	3116.2	3138.3	3150.2	3219.9	3345.5	3498.4	3671.5	3767.5	3869.4	3984.9	3809.1
20°	3010.1	3020.3	3015.2	3054.3	3167.2	3329.3	3534.9	3646.1	3769.2	3930.5	3719.0
22.5°	2980.4	2981.2	2962.6	2958.3	3031.3	3168.0	3388.7	3523.8	3674.9	3894.9	3641.8
25°	3052.6	3050.0	2999.0	2957.4	2965.1	3044.9	3247.8	3404.9	3595.9	3887.2	3582.4
27.5°	3213.0	3220.6	3145.1	3067.0	2989.7	2987.1	3140.8	3306.4	3531.5	3922.1	3556.9
30°	3438.1	3450.7	3370.1	3270.7	3125.6	3005.8	3099.2	3247.8	3491.5	3994.2	3552.7
32.5°	3684.3	3697.9	3636.7	3532.3	3342.1	3121.3	3128.1	3252.9	3489.8	4095.2	3581.5
35°	3946.7	3962.0	3930.5	3842.2	3630.8	3334.5	3238.6	3335.2	3545.0	4249.7	3658.8
37.5°	4239.6	4263.4	4271.8	4187.8	3962.0	3615.5	3419.4	3491.5	3669.8	4464.7	3800.6
40°	4661.6	4694.8	4692.1	4571.6	4341.5	3995.1	3698.8	3717.4	3864.3	4751.5	4027.3
42.5°	5469.9	5476.7	5265.3	5003.0	4759.3	4394.2	4028.2	4012.9	4132.6	5115.1	4361.0
45°	6498.2	6470.3	5999.8	5492.9	5195.8	4852.6	4457.0	4382.3	4473.1	5558.2	4778.8
47.5°	7351.6	7287.0	6692.6	5993.0	5657.7	5351.1	4960.5	4829.7	4879.8	6060.9	5318.8
50°	7647.9	7599.5	7107.0	6409.0	6094.9	5959.0	5580.3	5395.2	5408.8	6660.5	5951.4
52.5°	7584.2	7577.4	7248.8	6683.3	6504.2	6597.6	6458.4	6207.8	6075.4	7326.2	6634.1
55°	7433.9	7448.4	7329.5	7002.7	6972.1	7214.1	7605.4	7420.4	7008.6	7997.8	7339.7
57.5°	6911.7	6949.1	7210.7	7404.2	7725.1	8085.1	8529.4	8476.7	8013.1	8723.7	8178.6
60°	5568.5	5655.0	6356.3	7326.2	8500.4	9626.4	9825.0	9702.8	9049.0	9624.6	9286.7
62.5°	3901.6	3991.7	4825.4	6342.8	8373.1	11367.0	12141.4	11614.1	10536.6	10951.8	10720.8
65°	2088.8	2132.0	2768.9	4401.0	7068.8	11726.1	15526.9	14724.5	12892.0	12588.1	11947.8
67.5°	1152.2	1176.0	1419.8	2222.2	4527.4	10326.0	17683.5	18289.8	15835.8	13677.4	11724.5
69°	1041.9	1063.9	1223.6	1682.9	3029.6	8537.7	17473.0	19229.7	17126.5	13569.6	10899.1
70°	1019.0	1039.3	1182.8	1551.4	2452.3	7037.4	16767.4	18989.5	17433.9	13183.2	10179.1
72.5°	917.0	939.1	1078.4	1393.4	2095.6	3508.6	13281.8	16055.7	15828.3	11430.7	7721.0
75°	855.1	875.3	1111.5	1364.5	2006.4	2220.3	8756.0	11833.3	11635.3	7996.0	4163.3
77.5°	366.0	364.3	515.3	1154.8	2036.1	2149.9	4704.9	7392.4	6744.5	3417.6	1195.6
80°	244.5	240.3	244.5	339.7	1867.2	2161.8	2465.0	3752.2	2834.3	871.3	589.2
82.5°	210.6	207.1	214.8	207.1	656.3	2467.5	2095.6	1995.4	1347.5	495.1	292.0
85°	141.8	135.8	185.0	186.0	310.0	2192.4	2360.5	1685.5	1090.3	293.8	144.3
87.5°	68.0	66.2	107.8	131.6	181.7	890.7	2648.3	1727.1	1099.5	150.3	68.8
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: P192911

CATALOG NUMBER: GAN-AF-03-LED-U-SL3-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4479.1	4479.1	4479.1	4479.1	4479.1	4479.1	4479.1	4479.1	4479.1	4479.1	4479.1
2.5°	4435.7	4401.0	4367.0	4326.2	4283.7	4236.2	4212.4	4188.7	4182.7	4175.9	4152.2
5°	4313.4	4264.2	4179.2	4085.9	3987.4	3891.5	3818.4	3772.6	3737.8	3720.0	3688.5
7.5°	4155.5	4083.3	3934.8	3773.5	3607.8	3456.8	3326.0	3243.6	3165.5	3128.9	3087.3
10°	4005.2	3897.4	3666.4	3428.7	3190.9	2962.6	2747.8	2595.7	2460.7	2385.1	2331.7
12.5°	3876.2	3728.5	3408.4	3086.5	2760.4	2435.3	2113.4	1860.3	1648.9	1537.8	1480.8
15°	3750.6	3572.2	3162.9	2754.5	2335.9	1893.5	1470.6	1183.6	1008.8	939.1	915.4
17.5°	3636.7	3408.4	2916.6	2420.0	1897.8	1362.8	988.4	830.5	763.4	740.4	732.8
20°	3513.6	3242.7	2661.1	2070.1	1440.9	952.7	771.8	702.2	675.0	668.2	664.9
22.5°	3394.6	3079.7	2416.6	1695.7	1035.0	735.4	663.2	634.2	630.0	636.0	636.0
25°	3293.7	2933.7	2152.5	1304.2	759.9	619.0	593.5	586.7	602.9	625.0	629.3
27.5°	3218.1	2814.0	1871.4	962.9	605.4	538.3	537.4	548.5	588.5	630.9	639.3
30°	3166.4	2700.2	1570.8	694.6	507.7	473.7	487.4	511.2	569.8	630.0	646.2
32.5°	3140.0	2616.1	1257.6	537.4	434.8	416.1	439.0	467.8	525.6	581.6	602.9
35°	3160.5	2554.2	962.0	448.3	383.8	369.4	393.2	421.2	455.2	478.9	495.1
37.5°	3236.8	2529.5	726.0	401.6	349.0	335.4	354.1	370.2	383.8	390.6	398.2
40°	3401.6	2555.8	581.6	377.8	329.4	312.5	320.1	326.0	334.6	341.3	344.7
42.5°	3644.4	2634.8	521.3	368.5	319.2	294.7	293.0	295.4	306.6	319.2	321.8
45°	3984.0	2774.0	517.2	374.4	314.1	280.2	272.6	276.0	293.0	312.5	315.9
47.5°	4417.9	2986.3	551.1	392.2	318.4	272.6	259.8	264.1	285.2	311.6	315.9
50°	4943.6	3282.7	607.9	418.6	337.1	274.2	255.5	258.2	280.2	309.1	313.3
52.5°	5564.2	3703.1	670.0	444.0	356.6	285.2	259.0	253.1	273.3	299.0	304.0
55°	6254.5	4242.1	733.6	467.0	366.8	299.0	265.7	246.3	260.7	281.9	286.2
57.5°	7102.0	4996.2	844.0	489.1	373.5	308.2	272.6	239.5	244.5	259.8	263.2
60°	8249.1	6062.7	1038.5	525.6	388.9	311.6	271.7	233.5	228.5	236.9	238.6
62.5°	9623.8	7220.8	1200.6	571.4	414.3	314.1	266.6	229.2	214.8	214.8	216.6
65°	10439.8	7530.7	1110.6	609.6	435.6	311.6	260.7	225.0	204.7	195.2	196.1
67.5°	9747.8	6623.1	951.8	617.4	434.8	299.7	251.3	217.4	194.5	180.1	179.1
69°	8880.8	5714.5	880.5	596.9	414.3	284.4	239.5	208.9	186.9	171.5	170.7
70°	8182.0	5160.0	833.8	574.8	392.2	273.3	230.1	201.2	180.9	166.4	164.8
72.5°	5948.8	3381.1	712.4	494.2	323.5	229.2	198.8	176.6	161.3	152.9	151.1
75°	2972.7	1612.4	578.2	400.8	247.9	183.4	163.1	147.7	140.1	138.4	137.5
77.5°	976.4	738.7	413.5	299.0	184.2	143.4	131.6	120.6	118.9	124.0	122.3
80°	536.7	429.6	262.3	197.9	125.6	105.3	103.6	97.7	100.2	108.7	107.0
82.5°	273.3	223.3	162.1	118.9	84.9	75.6	82.4	79.0	82.4	90.0	89.1
85°	135.1	122.3	102.7	72.2	56.0	48.4	58.6	61.1	62.9	68.8	68.8
87.5°	78.1	72.2	54.3	34.0	28.0	25.4	34.0	33.1	39.0	42.5	41.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)