

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: P192583

Luminaire Tested: **GAN-AF-05-LED-U-5NQ-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192583
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
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-5NQ-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23980.2 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 210
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

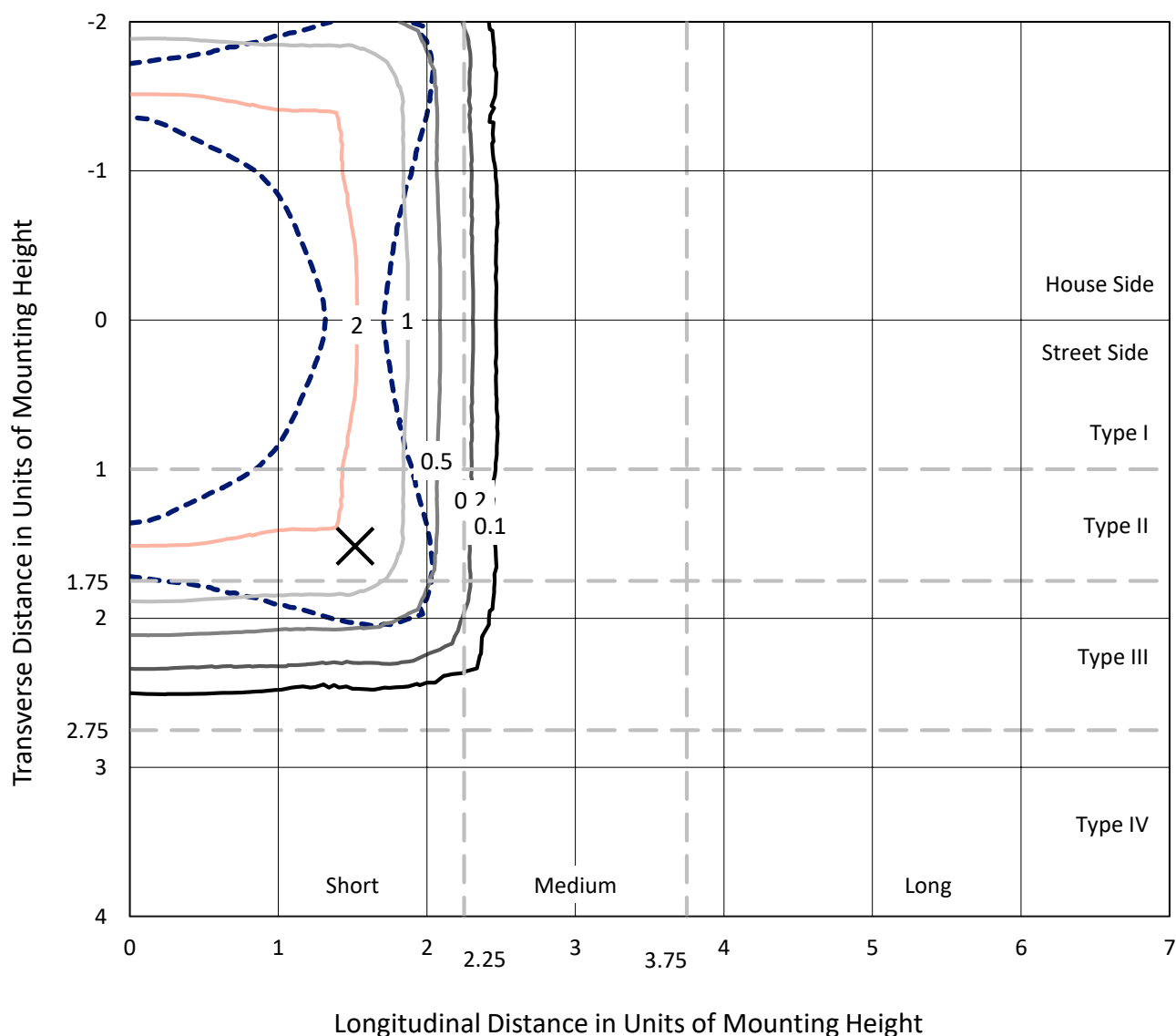


REPORT NUMBER: P192583

CATALOG NUMBER: GAN-AF-05-LED-U-5NQ-7030-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

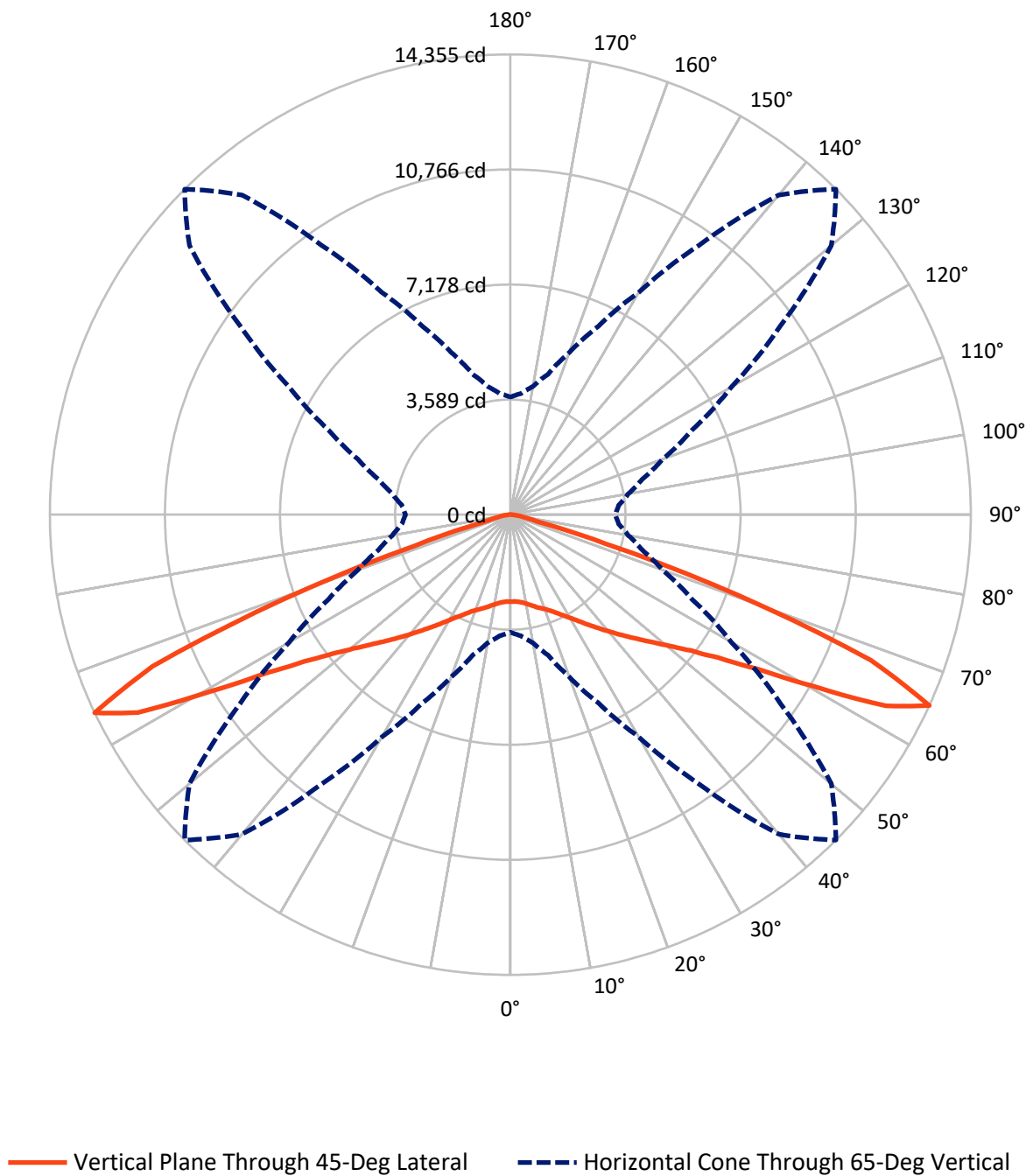


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P192583

CATALOG NUMBER: GAN-AF-05-LED-U-5NQ-7030-800

Luminous Intensity Polar Plot



REPORT NUMBER: P192583

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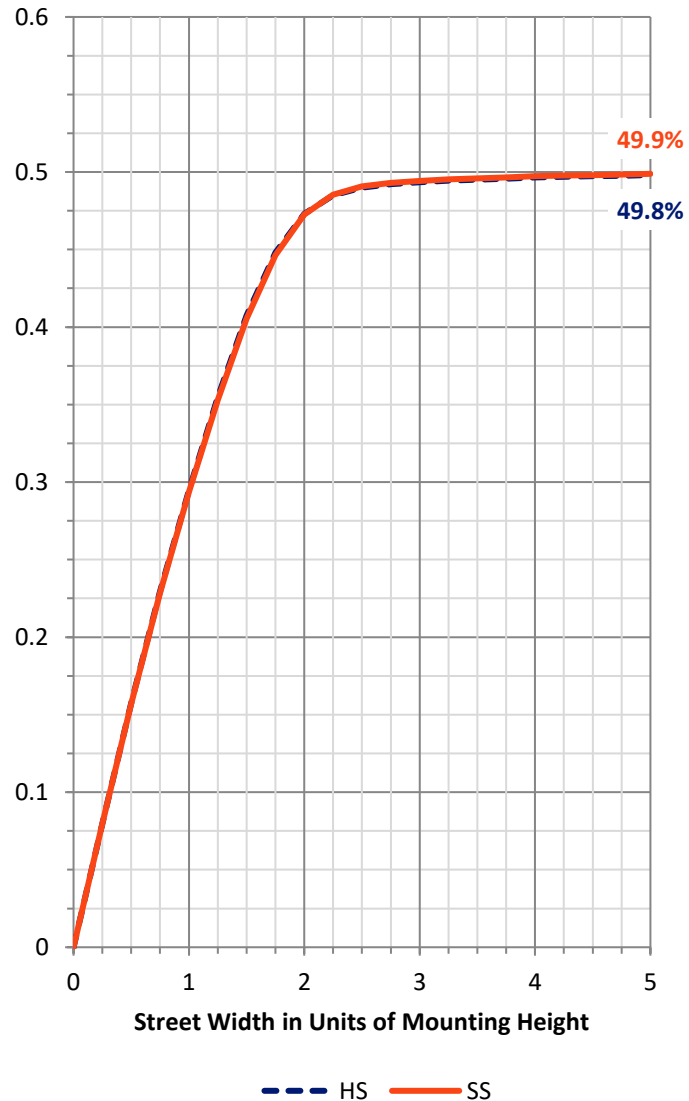
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11990.1	0.0	11990.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11990.1	0.0	11990.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	23980.2	0.0	23980.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.5	1.1
10°-20°	848.2	3.5
20°-30°	1586.0	6.6
30°-40°	2682.3	11.2
40°-50°	4385.8	18.3
50°-60°	6974.2	29.1
60°-70°	6304.2	26.3
70°-80°	797.8	3.3
80°-90°	137.2	0.6
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°	23980.2	100.0
0°-180°	23980.2	100.0

Coefficient of Utilization



REPORT NUMBER: P192583

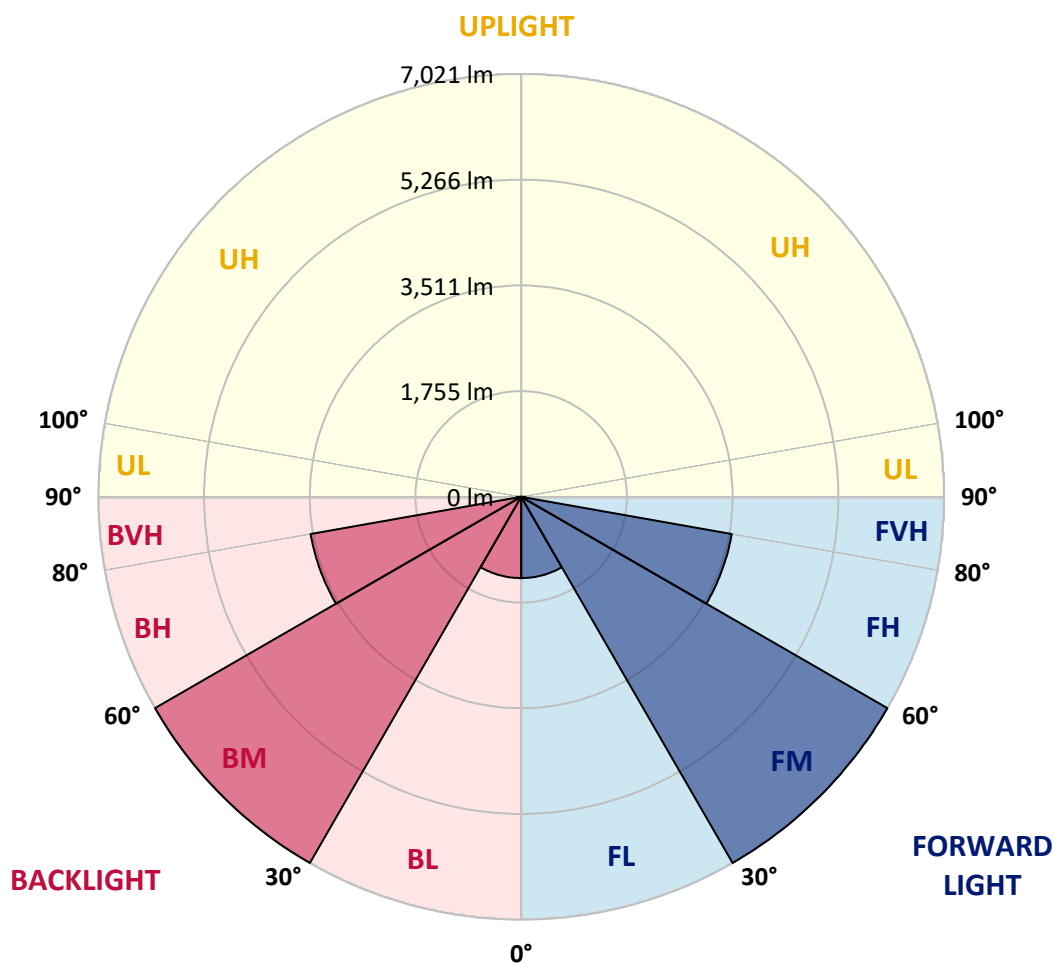
CATALOG NUMBER: GAN-AF-05-LED-U-5NQ-7030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1349.3	5.6			
FM	(30°-60°)	7021.2	29.3			
FH	(60°-80°)	3551.0	14.8			G2/5000
FVH	(80°-90°)	68.6	0.3			G1/100
BL	(0°-30°)	1349.3	5.6	B3/2500		
BM	(30°-60°)	7021.2	29.3	B4/8500		
BH	(60°-80°)	3551.0	14.8	B4/5000		G2/5000
BVH	(80°-90°)	68.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





REPORT NUMBER: P192583

CATALOG NUMBER: GAN-AF-05-LED-U-5NQ-7030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2713.4	2713.4	2713.4	2713.4	2713.4	2713.4	2713.4	2713.4	2713.4	2713.4	2713.4
2.5°	2715.6	2717.9	2720.1	2717.9	2720.1	2716.7	2714.5	2717.9	2714.5	2711.2	2713.4
5°	2739.2	2740.3	2740.3	2737.0	2740.3	2738.0	2734.8	2739.2	2735.9	2732.5	2734.8
7.5°	2778.5	2783.1	2779.7	2776.3	2778.5	2776.3	2774.0	2775.1	2774.0	2770.7	2771.8
10°	2831.4	2834.6	2832.4	2831.4	2833.5	2832.4	2830.2	2829.0	2830.2	2826.7	2826.7
12.5°	2895.3	2894.2	2893.0	2894.2	2897.5	2897.5	2896.5	2897.5	2899.8	2901.0	2898.6
15°	2958.2	2960.5	2960.5	2960.5	2967.2	2972.8	2976.2	2978.4	2982.9	2984.1	2979.5
17.5°	3036.9	3036.9	3035.7	3036.9	3043.5	3052.6	3055.9	3060.5	3064.9	3068.2	3062.6
20°	3124.4	3126.7	3126.7	3128.9	3137.9	3148.0	3148.0	3150.3	3148.0	3150.3	3146.8
22.5°	3231.2	3237.9	3237.9	3239.0	3248.0	3260.3	3256.9	3260.3	3254.8	3259.2	3254.8
25°	3370.4	3380.5	3378.3	3378.3	3385.0	3392.8	3393.9	3400.7	3399.6	3405.2	3401.8
27.5°	3527.7	3543.4	3547.8	3546.7	3551.2	3559.0	3561.3	3569.2	3564.7	3569.2	3566.9
30°	3716.4	3723.0	3732.0	3735.3	3741.0	3748.9	3748.9	3750.0	3744.4	3751.1	3754.4
32.5°	3911.7	3924.0	3933.0	3953.2	3963.4	3969.0	3967.9	3970.2	3964.5	3973.4	3980.2
35°	4170.0	4178.9	4193.6	4209.3	4222.8	4221.7	4218.3	4219.5	4219.5	4227.2	4234.1
37.5°	4481.2	4483.4	4502.5	4524.9	4531.6	4524.9	4504.6	4500.2	4490.1	4500.2	4511.5
40°	4810.1	4818.0	4856.2	4870.8	4874.2	4861.8	4832.6	4815.8	4793.3	4805.7	4821.4
42.5°	5155.0	5170.7	5205.5	5231.4	5242.6	5234.7	5194.3	5168.4	5139.2	5146.0	5161.7
45°	5536.8	5556.0	5605.3	5630.0	5651.3	5639.0	5599.7	5560.4	5514.4	5517.7	5542.4
47.5°	5963.6	5982.7	6046.7	6088.3	6099.5	6097.2	6053.4	5999.5	5936.6	5934.4	5955.7
50°	6442.0	6461.1	6540.8	6604.8	6637.4	6634.1	6582.5	6506.1	6429.7	6430.8	6457.8
52.5°	6909.2	6932.8	7015.9	7126.0	7190.1	7236.0	7204.5	7132.7	7039.5	7041.8	7066.5
55°	7347.2	7386.6	7482.0	7631.3	7750.5	7879.6	7916.6	7914.4	7858.3	7874.0	7898.7
57.5°	7559.5	7617.9	7765.0	8000.8	8243.5	8506.3	8728.6	8894.8	8965.6	9072.3	9047.5
60°	7157.5	7250.7	7467.5	7814.4	8294.0	8842.1	9429.4	10003.3	10493.0	10862.4	10650.3
62.5°	5860.2	5981.5	6244.3	6689.1	7414.7	8291.8	9416.0	10772.6	12250.5	13142.4	12505.6
65°	3666.8	3792.6	4060.0	4536.1	5385.2	6475.7	8000.8	10249.3	13010.9	14355.2	13059.2
67.5°	1429.6	1498.2	1643.0	1947.4	2585.3	3555.8	5086.4	7638.1	10941.1	12119.2	10737.8
70°	716.5	723.3	750.2	806.4	943.4	1225.3	1864.3	3541.1	6274.6	7578.6	6048.9
72.5°	517.8	518.9	532.3	557.0	600.8	663.8	785.0	1083.8	2040.6	3118.8	1912.6
75°	396.5	401.0	408.8	422.3	445.9	477.4	521.0	624.4	773.8	897.3	754.8
77.5°	305.5	314.4	320.1	332.4	347.0	368.4	380.8	420.0	488.5	514.4	506.5
80°	232.5	240.4	252.7	262.8	272.9	283.0	278.5	296.5	332.4	353.8	342.5
82.5°	148.3	157.3	193.2	202.1	206.6	213.4	205.5	206.6	222.4	235.9	222.4
85°	95.5	101.1	122.4	133.7	134.7	139.3	135.9	128.1	128.1	116.8	131.4
87.5°	43.8	44.9	55.0	65.1	67.4	60.6	59.5	57.3	46.0	43.8	47.2
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: P192583

CATALOG NUMBER: GAN-AF-05-LED-U-5NQ-7030-800

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2713.4	2713.4	2713.4	2713.4	2713.4	2713.4	2713.4	2713.4
2.5°	2712.3	2714.5	2715.6	2719.0	2720.1	2720.1	2721.2	2723.5
5°	2733.5	2737.0	2738.0	2742.6	2743.7	2742.6	2744.8	2745.9
7.5°	2771.8	2777.4	2779.7	2784.2	2780.7	2785.2	2786.3	2786.3
10°	2827.9	2833.5	2834.6	2839.2	2836.9	2839.2	2839.2	2836.9
12.5°	2902.0	2903.1	2899.8	2903.1	2898.6	2901.0	2897.5	2895.3
15°	2984.1	2980.7	2972.8	2972.8	2966.1	2967.2	2966.1	2965.0
17.5°	3063.7	3057.1	3051.4	3049.2	3043.5	3042.5	3039.0	3039.0
20°	3151.4	3148.0	3144.6	3140.1	3134.5	3128.9	3127.8	3130.1
22.5°	3256.9	3255.8	3255.8	3253.6	3245.8	3240.1	3236.7	3236.7
25°	3398.5	3388.3	3388.3	3387.2	3383.9	3380.5	3373.7	3377.1
27.5°	3557.9	3552.3	3556.8	3555.8	3552.3	3552.3	3547.8	3547.8
30°	3754.4	3752.2	3758.9	3753.4	3742.1	3741.0	3736.5	3730.8
32.5°	3981.3	3979.1	3989.2	3982.5	3964.5	3954.4	3945.4	3940.9
35°	4234.1	4235.1	4247.6	4243.0	4222.8	4216.1	4200.4	4198.1
37.5°	4510.3	4528.2	4549.7	4554.2	4537.3	4532.7	4515.9	4507.0
40°	4834.8	4858.4	4891.0	4898.8	4880.9	4877.6	4854.0	4841.6
42.5°	5180.7	5221.2	5261.7	5268.4	5250.5	5232.4	5210.0	5201.0
45°	5567.1	5615.4	5668.3	5681.7	5654.7	5633.4	5604.2	5604.2
47.5°	6000.6	6061.2	6120.8	6157.9	6133.2	6110.8	6075.9	6053.4
50°	6512.7	6595.9	6673.3	6711.6	6672.3	6629.6	6568.8	6548.7
52.5°	7155.2	7245.0	7312.4	7292.2	7231.6	7172.0	7105.7	7078.8
55°	7975.1	8005.3	8005.3	7929.0	7807.6	7707.7	7603.3	7568.5
57.5°	9000.4	8883.7	8703.9	8475.9	8189.5	7940.2	7771.7	7692.0
60°	10205.5	9644.0	9009.4	8386.0	7874.0	7451.7	7201.3	7086.7
62.5°	11008.5	9539.5	8268.2	7267.5	6530.8	6022.0	5676.1	5541.3
65°	10288.6	7955.9	6253.4	5056.1	4253.1	3735.3	3392.8	3267.1
67.5°	7535.9	4985.4	3329.9	2386.5	1748.7	1394.9	1254.6	1196.1
70°	3382.7	1755.4	1075.8	840.1	724.4	664.9	639.0	630.1
72.5°	1019.7	737.8	622.2	561.6	515.4	486.3	465.0	462.7
75°	615.4	512.1	454.8	418.9	389.7	366.1	354.9	351.5
77.5°	430.2	376.2	349.3	323.4	301.0	283.0	272.9	265.1
80°	302.1	276.3	264.0	249.3	234.7	217.9	203.3	196.5
82.5°	202.1	196.5	196.5	187.6	175.3	159.5	130.2	123.6
85°	130.2	129.2	131.4	128.1	119.1	102.1	84.2	79.8
87.5°	60.6	61.7	68.5	67.4	65.1	53.9	42.7	40.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)