

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: P192836

Luminaire Tested: **GAN-AF-08-LED-U-SL2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192836
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-08-LED-U-SL2-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45199.4 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 445
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



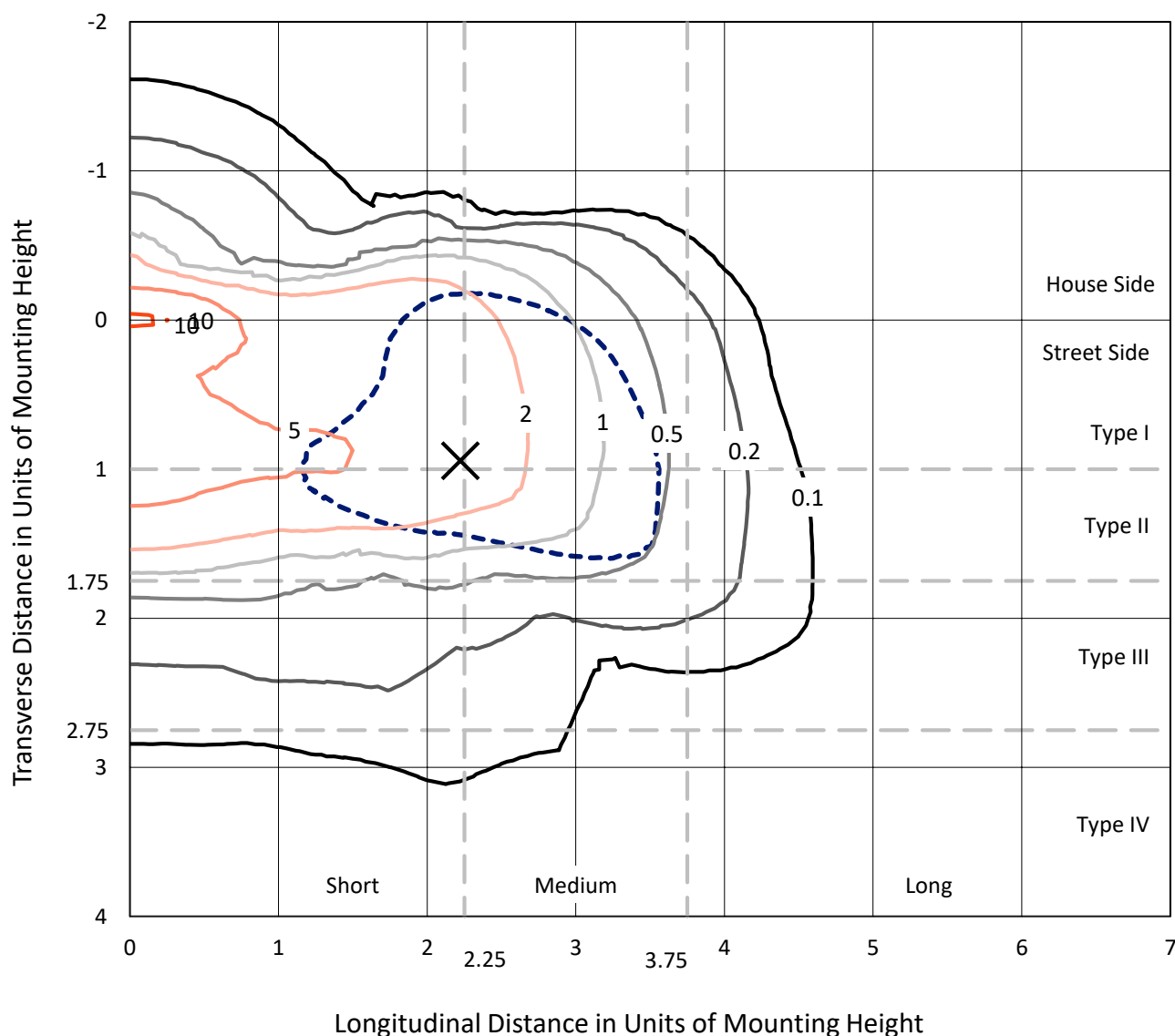
REPORT NUMBER: P192836

CATALOG NUMBER: GAN-AF-08-LED-U-SL2-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

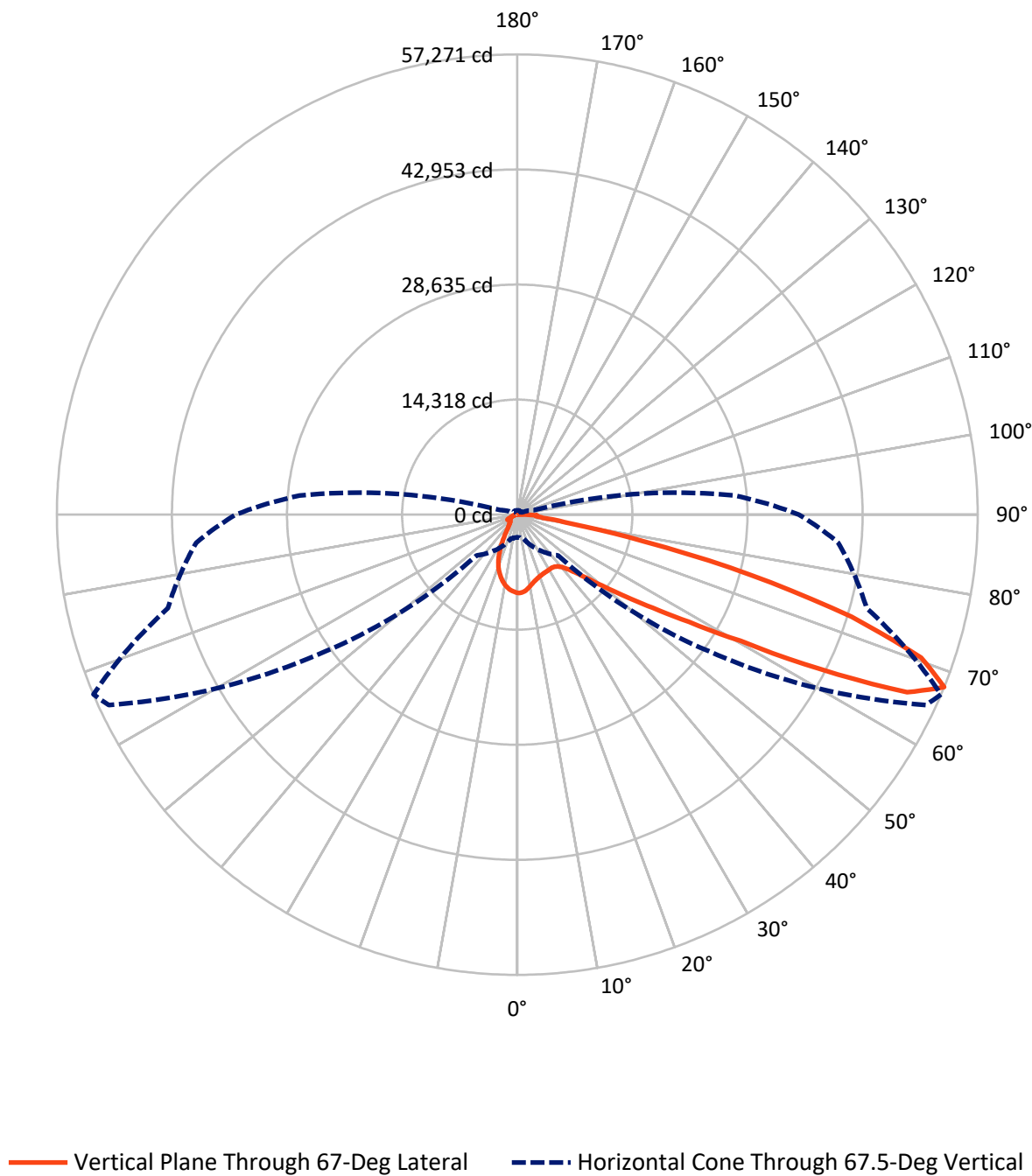


Based on 30 foot mounting height. Maximum calculated value = 10.8 fc
Type II - Short - Semi-Cutoff

REPORT NUMBER: P192836

CATALOG NUMBER: GAN-AF-08-LED-U-SL2-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P192836

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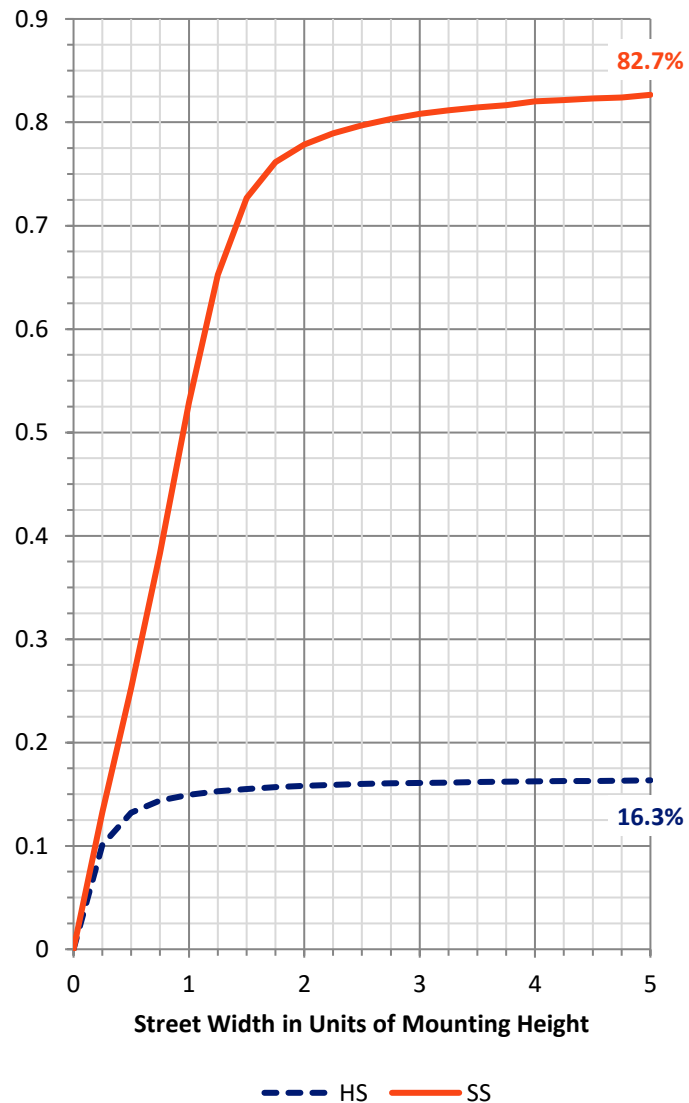
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7489.0	0.0	7489.0
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	37710.4	0.0	37710.4
	% Fixture	83.4	0.0	83.4
Total	Lumens	45199.4	0.0	45199.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	831.8	1.8
10°-20°	1924.6	4.3
20°-30°	2608.8	5.8
30°-40°	3708.7	8.2
40°-50°	6204.8	13.7
50°-60°	9815.9	21.7
60°-70°	12504.5	27.7
70°-80°	6549.8	14.5
80°-90°	1050.5	2.3
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°	45199.4	100.0
0°-180°	45199.4	100.0

Coefficient of Utilization



REPORT NUMBER: P192836

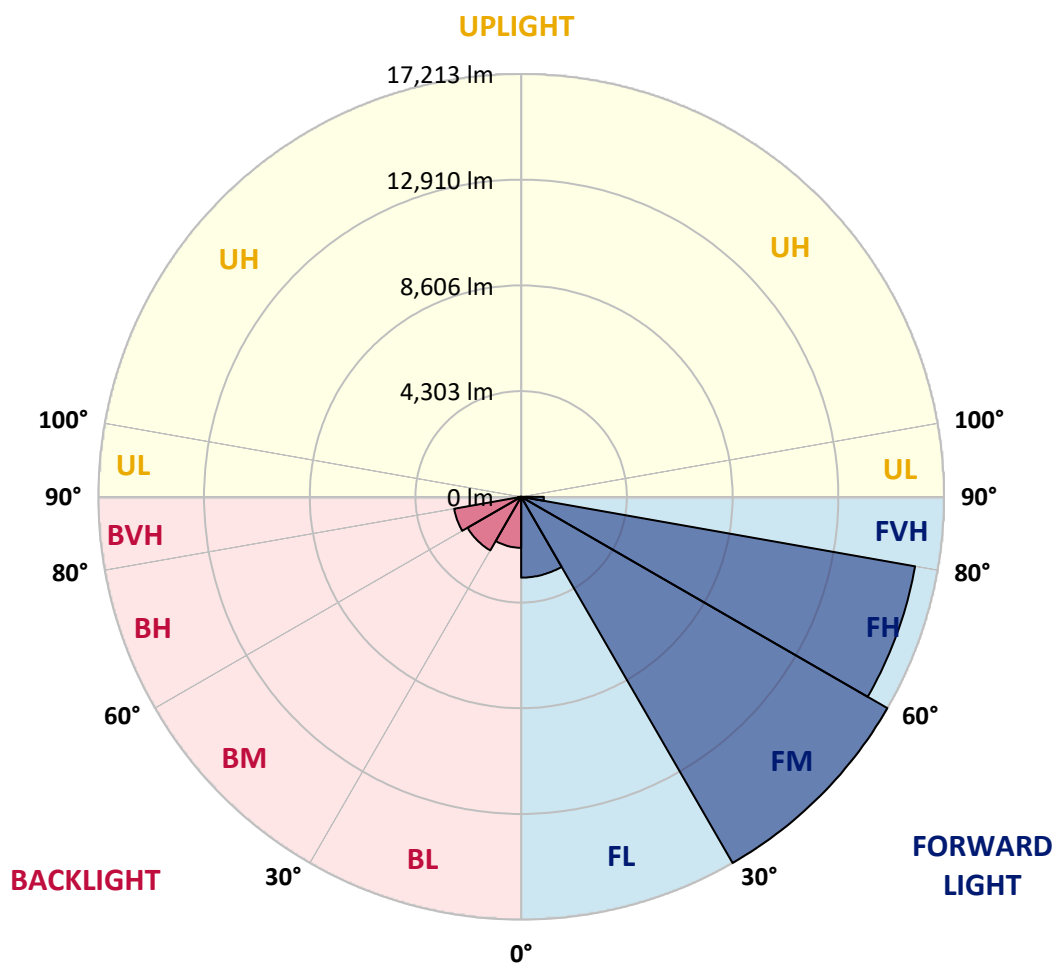
CATALOG NUMBER: GAN-AF-08-LED-U-SL2-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3289.4	7.3			
FM	(30°-60°)	17212.9	38.1			
FH	(60°-80°)	16284.4	36.0			G5
FVH	(80°-90°)	923.7	2.0			G5
BL	(0°-30°)	2075.8	4.6	B3/2500		
BM	(30°-60°)	2516.5	5.6	B3/5000		
BH	(60°-80°)	2770.0	6.1	B4/5000		G4/5000
BVH	(80°-90°)	126.8	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





REPORT NUMBER: P192836

CATALOG NUMBER: GAN-AF-08-LED-U-SL2-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	9749.4	9749.4	9749.4	9749.4	9749.4	9749.4	9749.4	9749.4	9749.4	9749.4	9749.4
2.5°	9348.2	9363.8	9412.8	9444.1	9584.4	9644.7	9687.0	9729.3	9736.1	9756.1	9736.1
5°	8367.5	8401.0	8492.2	8594.8	8866.7	9080.7	9305.8	9539.9	9582.2	9733.8	9776.2
7.5°	7607.4	7598.4	7674.3	7796.8	8075.5	8371.9	8766.4	9232.3	9323.6	9664.7	9829.6
10°	7052.3	7045.7	7125.9	7252.9	7518.2	7799.0	8244.9	8882.3	9011.6	9555.5	9881.0
12.5°	6642.3	6644.5	6724.7	6865.2	7134.8	7417.9	7870.4	8543.5	8708.5	9428.4	9934.4
15°	6370.4	6388.2	6452.9	6602.1	6865.2	7148.3	7591.8	8289.5	8474.4	9328.1	9994.6
17.5°	6278.9	6308.0	6330.3	6439.4	6664.6	6947.6	7382.3	8102.2	8298.3	9259.0	10048.1
20°	6363.7	6397.1	6354.7	6392.6	6535.3	6784.9	7217.3	7955.0	8155.7	9181.0	10054.8
22.5°	6727.0	6758.1	6633.3	6524.1	6515.2	6666.8	7081.3	7839.3	8046.5	9123.0	10057.0
25°	7366.7	7386.7	7177.2	6923.1	6675.7	6624.4	6985.5	7758.9	7979.6	9071.8	10014.7
27.5°	8151.3	8166.9	7926.1	7551.7	7054.7	6724.7	6952.0	7712.2	7941.7	9027.2	9943.3
30°	9105.2	9178.8	8855.6	8383.0	7658.6	7021.2	7019.0	7687.6	7899.3	8951.5	9803.0
32.5°	10081.6	10112.7	9889.8	9410.6	8472.2	7542.7	7206.2	7705.5	7888.2	8860.1	9624.5
35°	11071.1	11111.3	10966.5	10580.7	9584.4	8307.3	7571.7	7810.2	7957.4	8828.9	9499.8
37.5°	12352.9	12406.3	12205.7	11759.9	10937.4	9343.8	8180.2	8073.2	8169.1	8918.1	9461.9
40°	14378.9	14354.4	13768.2	13104.0	12417.5	10669.9	9049.5	8519.1	8574.7	9205.5	9577.7
42.5°	16737.2	16677.0	15667.2	14624.2	14044.6	12274.8	10199.7	9292.5	9281.3	9771.7	9985.6
45°	18618.5	18569.3	17659.9	16373.8	15910.3	14102.5	11686.4	10444.8	10362.3	10669.9	10739.1
47.5°	19637.0	19639.3	19115.5	18065.6	18054.4	16425.2	13596.6	12112.1	11969.5	12114.3	12040.8
50°	19280.4	19327.2	19271.4	18937.2	20011.5	19469.9	16090.7	14436.9	14149.4	14291.9	14008.9
52.5°	17555.2	17615.4	17945.3	18457.9	20834.0	23149.9	19755.1	17325.6	16991.2	16940.0	16625.8
55°	14497.1	14570.6	15243.8	16636.9	20149.7	25621.8	25537.0	21007.9	20475.0	19991.3	19857.7
57.5°	9992.5	10115.0	11198.2	13266.7	17936.3	26368.4	32422.2	26256.9	25173.8	23484.1	23515.5
60°	5632.6	5775.2	7052.3	8931.4	13469.5	25557.1	37660.2	34207.7	31920.7	27574.3	27806.2
62.5°	3581.9	3735.7	4705.4	6205.4	8082.1	21188.3	39806.8	45260.9	42356.6	32616.2	32843.6
65°	2899.8	2966.7	3423.6	5122.1	5868.9	12765.2	38177.4	54366.2	53283.0	39015.5	37954.5
67.5°	2830.8	2853.1	3089.3	4299.7	5628.1	7174.9	30451.8	56069.1	57270.5	44991.4	40083.2
70°	2797.4	2875.3	3481.6	4103.4	5389.5	6051.6	18299.7	51401.8	53298.6	46553.7	37250.2
72.5°	1357.4	1352.9	1752.0	3711.2	6071.6	6276.7	9401.6	41589.9	43493.5	40332.8	30610.1
75°	1094.4	1000.9	956.2	1359.6	5837.6	6481.8	5991.4	28617.4	29995.0	27041.5	18816.7
77.5°	1038.7	927.3	849.3	851.4	2467.4	6874.0	5075.3	15838.9	16240.1	12214.6	5155.5
80°	860.4	757.8	702.1	791.2	1194.8	6546.4	5487.6	7168.3	6577.6	3000.2	1716.3
82.5°	597.3	543.9	528.3	664.2	956.2	4665.2	6381.5	3851.6	3229.7	1502.4	1058.7
85°	381.1	325.4	361.1	483.7	744.5	2153.2	6573.1	3002.5	2387.2	954.0	597.3
87.5°	176.1	142.7	178.3	267.4	485.8	742.2	6254.4	3372.4	2458.6	503.8	376.7
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: P192836

CATALOG NUMBER: GAN-AF-08-LED-U-SL2-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9749.4	9749.4	9749.4	9749.4	9749.4	9749.4	9749.4	9749.4	9749.4	9749.4	9749.4
2.5°	9753.9	9711.5	9678.0	9615.7	9546.5	9479.7	9419.6	9343.8	9321.5	9301.4	9332.6
5°	9785.0	9742.7	9620.2	9428.4	9216.7	9018.4	8820.0	8650.5	8545.8	8487.8	8521.2
7.5°	9831.9	9771.7	9517.6	9165.4	8784.2	8436.6	8077.7	7790.1	7578.4	7478.1	7507.1
10°	9874.2	9758.4	9343.8	8815.5	8258.3	7741.1	7174.9	6706.9	6359.2	6176.4	6221.0
12.5°	9892.2	9707.0	9100.8	8378.6	7614.1	6856.2	6022.6	5322.7	4823.5	4640.7	4602.8
15°	9910.0	9649.1	8833.3	7881.5	6836.2	5764.1	4596.1	3758.0	3343.5	3252.0	3232.0
17.5°	9914.4	9548.8	8530.2	7342.1	5924.6	4464.6	3142.9	2610.1	2612.3	2759.5	2777.3
20°	9867.5	9399.5	8162.4	6671.3	4832.3	3087.1	2157.7	2066.2	2402.8	2770.6	2815.2
22.5°	9760.5	9201.0	7745.6	5888.8	3581.9	2032.8	1669.5	1769.8	2204.5	2654.7	2706.0
25°	9624.5	8960.4	7252.9	4981.6	2371.6	1453.2	1399.8	1522.4	1816.6	2117.6	2146.5
27.5°	9439.6	8675.0	6700.3	3943.0	1540.2	1196.9	1232.6	1315.1	1435.4	1569.2	1582.5
30°	9201.0	8334.1	6109.6	2875.3	1163.5	1076.5	1127.9	1172.5	1223.7	1299.5	1306.2
32.5°	8926.9	8006.4	5503.3	1986.0	1032.0	1014.2	1054.3	1076.5	1116.7	1163.5	1168.0
35°	8697.4	7694.4	4874.7	1404.2	976.2	967.4	994.1	1003.0	1040.9	1092.1	1096.6
37.5°	8565.8	7440.2	4226.0	1132.3	938.4	925.0	940.6	940.6	994.1	1069.8	1081.0
40°	8574.7	7299.8	3577.4	1023.1	907.2	889.4	891.5	891.5	960.7	1043.1	1049.9
42.5°	8817.7	7335.4	3002.5	980.7	882.7	862.6	851.4	858.1	916.1	969.5	974.0
45°	9388.3	7587.3	2463.0	954.0	858.1	851.4	827.0	824.7	847.0	871.6	871.6
47.5°	10324.5	8084.4	2097.4	936.2	838.1	835.9	806.9	777.9	775.6	784.6	784.6
50°	11846.9	8940.3	1852.3	916.1	824.7	806.9	773.4	728.9	713.3	719.9	719.9
52.5°	14129.3	10467.1	1758.6	889.4	795.7	766.8	728.9	684.3	671.0	673.1	673.1
55°	17122.8	12812.0	1745.3	858.1	764.5	717.8	686.4	653.1	637.5	641.9	641.9
57.5°	20780.4	16055.1	1983.7	809.1	722.2	668.6	650.8	628.6	617.5	624.1	621.9
60°	25227.2	20299.1	2942.3	757.8	679.8	624.1	624.1	606.3	597.3	604.1	601.8
62.5°	30349.4	25173.8	4136.9	719.9	635.3	588.5	597.3	588.5	579.5	584.0	581.8
65°	34892.0	28349.9	3873.9	690.9	590.6	555.0	570.7	566.2	559.5	563.9	561.7
67.5°	35023.5	27173.1	2175.5	659.8	548.4	521.6	543.9	541.6	537.2	541.6	539.4
70°	31256.6	22944.8	1225.9	601.8	503.8	481.5	512.7	510.5	506.0	514.9	512.7
72.5°	25042.2	16650.2	896.0	530.5	459.2	439.1	474.7	472.5	472.5	485.8	479.2
75°	14410.1	8568.1	715.5	454.7	412.4	396.7	428.0	430.2	434.7	452.5	439.1
77.5°	4107.9	2670.3	584.0	385.5	354.4	347.7	378.9	383.4	385.5	405.7	387.9
80°	1526.8	1230.4	481.5	323.2	289.7	291.9	321.0	327.7	329.9	349.9	327.7
82.5°	974.0	811.4	390.0	249.6	227.4	225.1	260.8	269.7	269.7	271.9	258.5
85°	568.3	485.8	294.2	180.5	160.5	153.8	193.9	209.6	202.7	198.5	189.4
87.5°	381.1	334.4	180.5	100.3	87.0	82.5	113.6	124.8	120.4	113.6	107.0
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)