

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: P192647

Luminaire Tested: **GAN-AF-09-LED-U-5WQ-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192647
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-5WQ-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59467.6 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 575
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

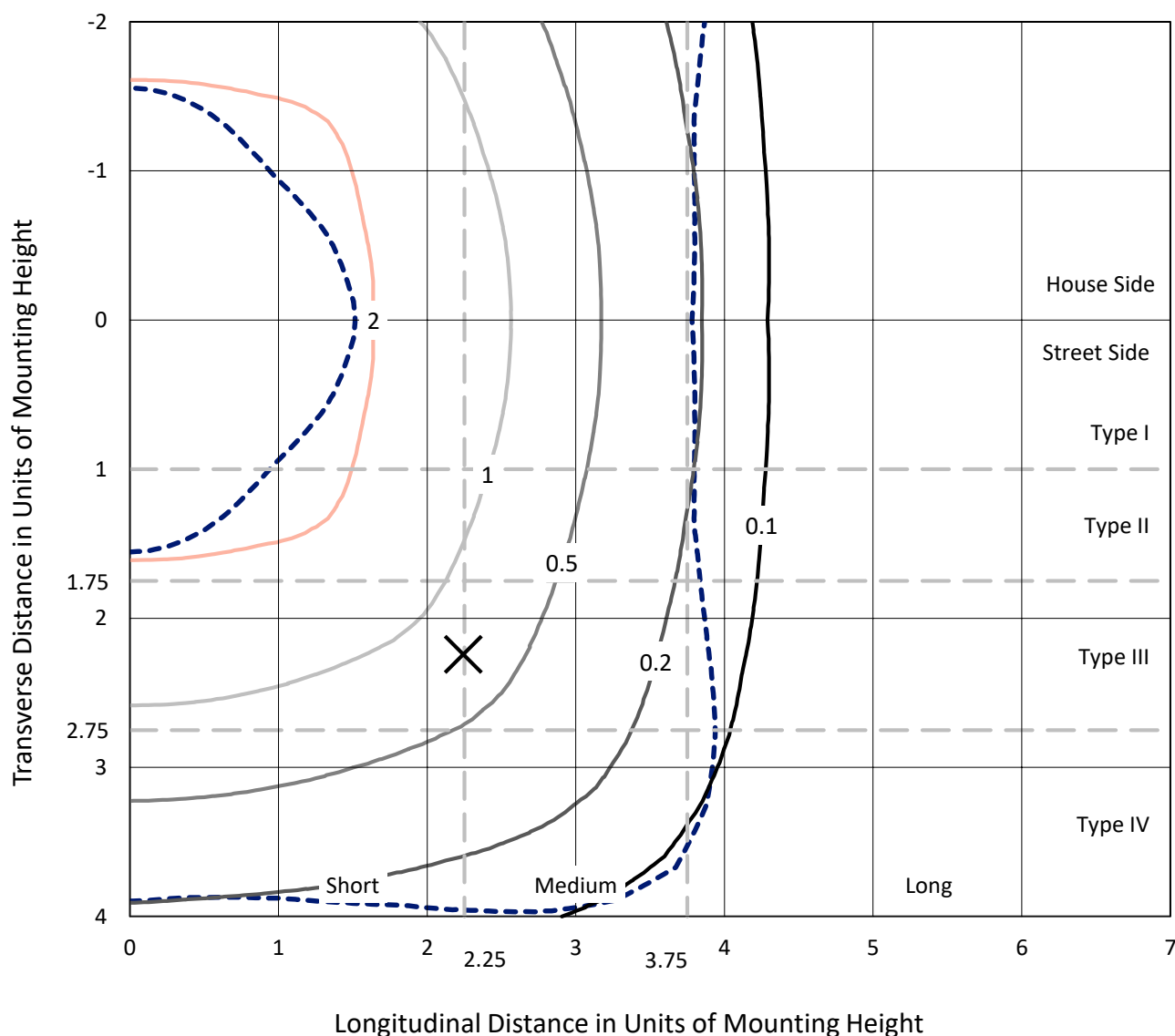


REPORT NUMBER: P192647

CATALOG NUMBER: GAN-AF-09-LED-U-5WQ-7030-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

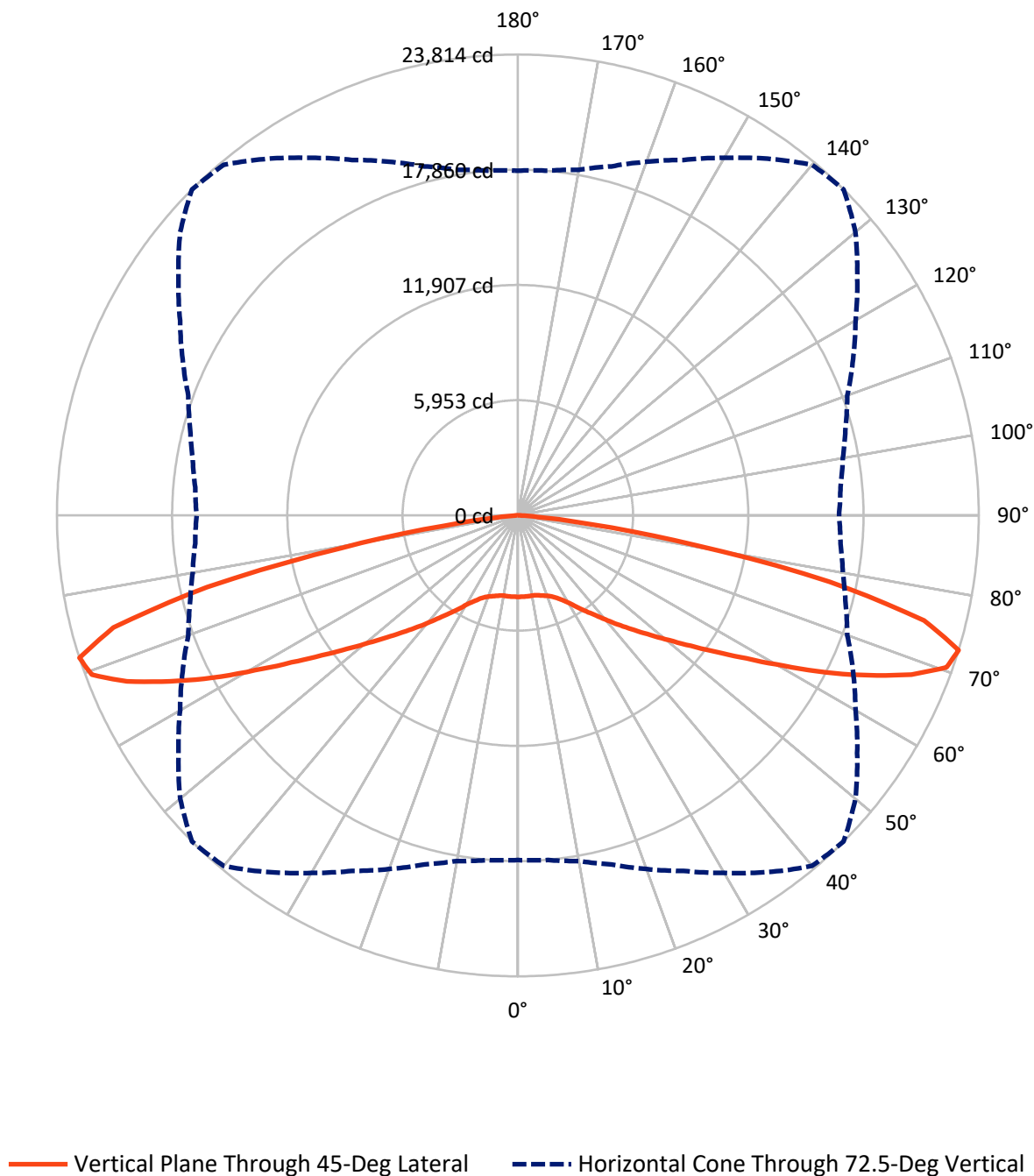


Based on 30 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P192647

CATALOG NUMBER: GAN-AF-09-LED-U-5WQ-7030-1200

Luminous Intensity Polar Plot



REPORT NUMBER: P192647

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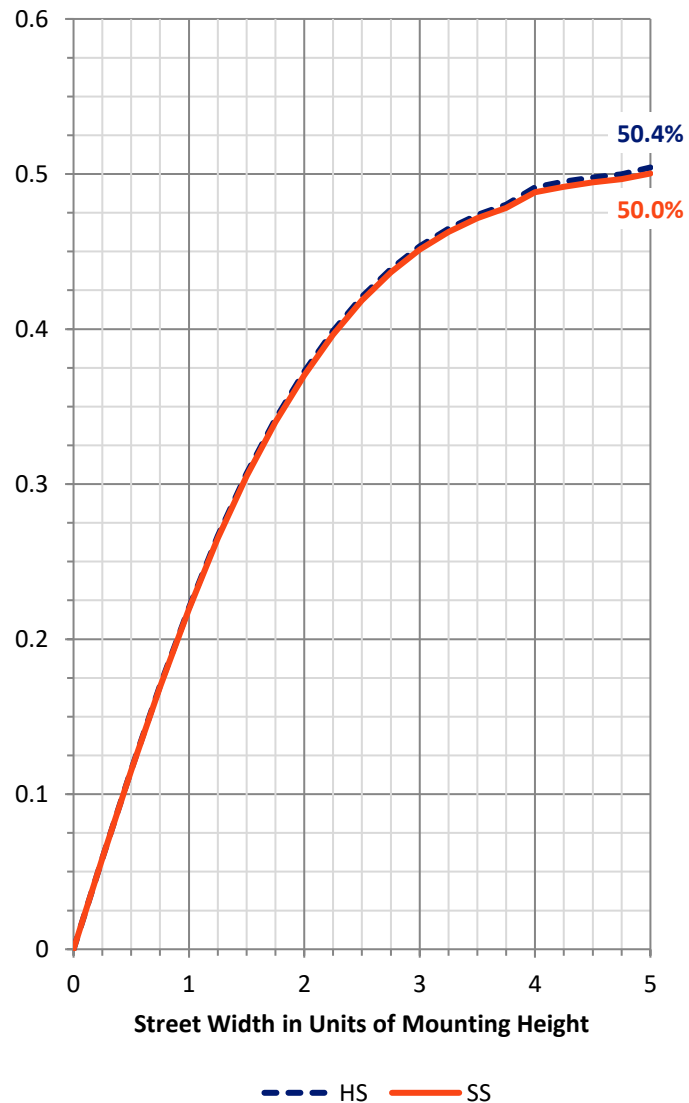
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	29733.8	0.0	29733.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	29733.8	0.0	29733.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	59467.6	0.0	59467.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.1	0.7
10°-20°	1221.3	2.1
20°-30°	2231.8	3.8
30°-40°	3848.0	6.5
40°-50°	6578.1	11.1
50°-60°	10662.3	17.9
60°-70°	17688.4	29.7
70°-80°	15579.3	26.2
80°-90°	1256.1	2.1
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°	59467.6	100.0
0°-180°	59467.6	100.0

Coefficient of Utilization



REPORT NUMBER: P192647

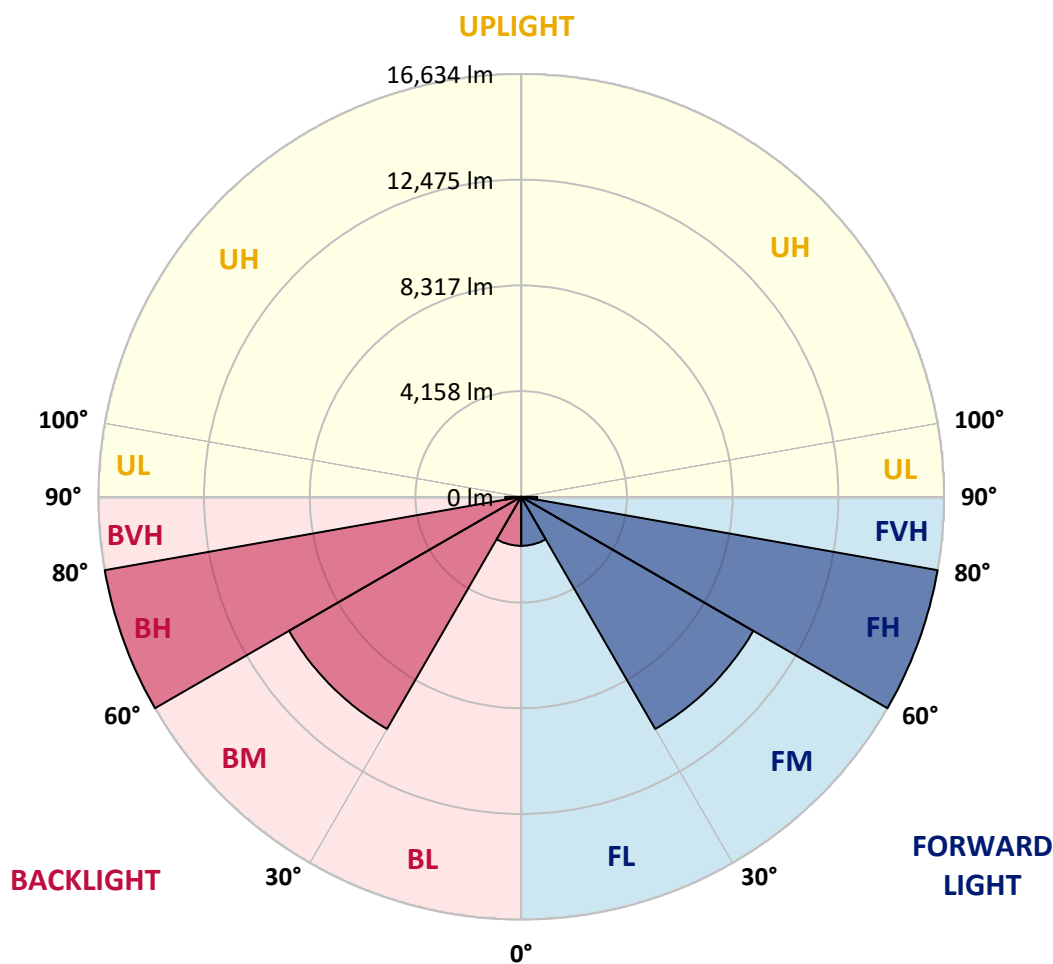
CATALOG NUMBER: GAN-AF-09-LED-U-5WQ-7030-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1927.6	3.2			
FM	(30°-60°)	10544.3	17.7			
FH	(60°-80°)	16633.9	28.0			G5
FVH	(80°-90°)	628.1	1.1			G4/750
BL	(0°-30°)	1927.6	3.2	B3/2500		
BM	(30°-60°)	10544.3	17.7	B5		
BH	(60°-80°)	16633.9	28.0	B5		G5
BVH	(80°-90°)	628.1	1.1			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





REPORT NUMBER: P192647

CATALOG NUMBER: GAN-AF-09-LED-U-5WQ-7030-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4211.2	4211.2	4211.2	4211.2	4211.2	4211.2	4211.2	4211.2	4211.2	4211.2	4211.2
2.5°	4211.2	4213.9	4216.7	4213.9	4213.9	4211.2	4208.5	4211.2	4208.5	4203.1	4205.8
5°	4224.8	4230.3	4230.3	4224.8	4227.6	4224.8	4219.4	4222.1	4216.7	4208.5	4208.5
7.5°	4241.2	4243.9	4243.9	4238.5	4241.2	4235.8	4230.3	4227.6	4222.1	4211.2	4203.1
10°	4265.8	4268.5	4265.8	4260.3	4260.3	4252.2	4238.5	4233.0	4222.1	4205.8	4197.6
12.5°	4293.1	4295.7	4293.1	4287.6	4284.8	4271.3	4260.3	4252.2	4243.9	4230.3	4216.7
15°	4331.2	4336.7	4331.2	4320.3	4312.1	4301.2	4295.7	4298.5	4301.2	4290.3	4276.7
17.5°	4402.2	4404.9	4396.7	4372.1	4361.2	4350.3	4350.3	4355.8	4364.0	4358.6	4344.9
20°	4533.0	4524.9	4505.9	4475.8	4462.1	4443.0	4440.3	4443.0	4443.0	4440.3	4429.5
22.5°	4696.7	4691.3	4666.7	4628.6	4609.4	4598.5	4582.3	4568.5	4565.8	4557.6	4546.8
25°	4893.0	4890.3	4860.4	4827.6	4814.0	4800.5	4786.7	4767.6	4751.2	4732.1	4721.3
27.5°	5144.0	5133.1	5089.6	5073.1	5054.0	5045.8	5026.8	5004.9	4991.3	4966.7	4953.2
30°	5419.5	5419.5	5384.1	5378.7	5378.7	5359.5	5337.7	5299.5	5274.9	5250.5	5242.3
32.5°	5695.0	5697.8	5662.3	5673.2	5681.4	5695.0	5700.4	5686.8	5670.4	5667.8	5651.3
35°	6093.2	6082.3	6046.9	6055.0	6052.3	6049.5	6049.5	6079.5	6084.9	6090.4	6057.8
37.5°	6586.9	6586.9	6551.4	6551.4	6535.1	6518.7	6496.9	6516.0	6545.9	6554.1	6532.3
40°	7151.4	7170.5	7126.9	7124.1	7129.6	7077.9	7053.2	7083.3	7102.4	7135.0	7110.6
42.5°	7817.0	7803.3	7759.7	7754.2	7724.2	7707.9	7686.1	7710.7	7740.6	7762.5	7770.6
45°	8455.2	8444.3	8395.2	8395.2	8365.2	8351.6	8362.4	8403.3	8417.0	8447.1	8477.0
47.5°	9085.2	9071.6	9038.9	9052.5	9055.2	9079.8	9115.3	9153.4	9191.7	9232.5	9246.2
50°	9728.9	9731.6	9696.2	9728.9	9769.9	9838.0	9933.6	9996.2	10075.4	10127.1	10143.5
52.5°	10315.3	10326.2	10364.5	10440.9	10522.6	10656.3	10820.0	10972.7	11103.6	11190.9	11185.4
55°	11019.1	11035.4	11128.2	11259.0	11392.7	11594.5	11837.2	12107.3	12325.5	12450.9	12371.9
57.5°	11919.1	11954.6	12058.2	12235.5	12434.6	12696.5	13029.1	13435.6	13773.8	13942.9	13814.7
60°	13154.6	13176.4	13301.9	13498.3	13738.4	14062.9	14507.5	15052.9	15530.3	15754.0	15606.7
62.5°	14783.0	14823.9	14924.9	15123.8	15369.4	15737.6	16280.2	16962.2	17556.8	17867.7	17535.0
65°	16727.6	16858.6	16943.2	17145.0	17374.1	17764.1	18331.4	19062.4	19700.6	19905.2	19520.6
67.5°	18653.3	18767.8	18915.1	19146.9	19378.8	19817.9	20344.3	21053.3	21754.4	21940.0	21342.6
70°	19496.0	19561.4	19790.5	20107.0	20551.5	21069.8	21678.0	22474.4	23341.8	23494.6	22736.3
72.5°	17807.7	17873.1	18129.6	18666.8	19441.5	20265.2	21326.2	22496.3	23641.8	23813.6	22769.0
75°	13468.3	13362.0	13741.1	14453.0	15497.6	16645.8	18129.6	19806.9	21462.6	21678.0	20431.6
77.5°	6960.6	6946.9	7233.3	8117.0	9363.4	10669.9	12303.6	14199.3	15819.4	16474.0	15459.4
80°	1961.1	1982.8	2119.3	2558.5	3286.6	4230.3	5506.7	7282.3	8607.9	9284.3	8717.0
82.5°	769.1	829.2	880.9	962.8	1058.2	1197.4	1598.4	2378.3	3191.1	3813.0	3122.9
85°	275.5	294.6	417.3	493.7	501.8	529.2	602.8	703.7	848.3	1011.8	831.9
87.5°	103.7	114.5	133.7	220.9	218.2	199.1	242.8	253.7	190.8	174.6	215.5
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: P192647

CATALOG NUMBER: GAN-AF-09-LED-U-5WQ-7030-1200

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	4211.2	4211.2	4211.2	4211.2	4211.2	4211.2	4211.2	4211.2
2.5°	4200.4	4203.1	4203.1	4205.8	4208.5	4208.5	4213.9	4213.9
5°	4203.1	4203.1	4197.6	4200.4	4197.6	4197.6	4200.4	4200.4
7.5°	4197.6	4194.9	4189.4	4186.7	4181.3	4181.3	4181.3	4181.3
10°	4189.4	4186.7	4181.3	4178.5	4175.8	4175.8	4175.8	4175.8
12.5°	4211.2	4203.1	4197.6	4194.9	4194.9	4194.9	4194.9	4194.9
15°	4268.5	4249.4	4235.8	4235.8	4238.5	4243.9	4243.9	4249.4
17.5°	4339.4	4317.6	4303.9	4293.1	4298.5	4306.7	4312.1	4317.6
20°	4424.0	4413.1	4394.0	4383.1	4383.1	4394.0	4399.5	4402.2
22.5°	4541.3	4533.0	4524.9	4511.2	4511.2	4516.7	4527.6	4527.6
25°	4715.8	4710.3	4704.9	4694.0	4691.3	4691.3	4696.7	4702.2
27.5°	4934.0	4936.8	4931.3	4928.5	4920.4	4917.6	4925.9	4923.1
30°	5225.9	5239.5	5253.0	5242.3	5228.6	5220.4	5212.2	5201.3
32.5°	5621.4	5605.0	5594.1	5575.0	5550.5	5528.6	5512.2	5493.1
35°	5995.0	5967.7	5956.9	5973.2	5970.5	5956.9	5937.7	5921.5
37.5°	6453.2	6447.7	6453.2	6483.2	6477.8	6491.4	6453.2	6450.4
40°	7031.5	7037.0	7075.1	7110.6	7129.6	7148.8	7126.9	7105.1
42.5°	7702.4	7699.7	7713.2	7762.5	7795.1	7817.0	7770.6	7765.2
45°	8411.6	8392.4	8403.3	8444.3	8477.0	8501.6	8449.8	8449.8
47.5°	9191.7	9158.8	9123.4	9169.8	9188.9	9205.2	9164.3	9150.7
50°	10061.6	9993.5	9917.1	9936.2	9936.2	9930.8	9878.9	9876.2
52.5°	11060.0	10934.4	10795.4	10743.6	10713.5	10680.8	10590.8	10547.2
55°	12208.2	12020.0	11801.8	11668.2	11597.3	11507.3	11357.3	11316.3
57.5°	13550.2	13255.6	12879.2	12715.5	12557.2	12410.0	12243.7	12197.2
60°	15140.3	14706.7	14207.4	13904.7	13732.9	13591.1	13419.2	13411.0
62.5°	16913.2	16228.5	15664.0	15391.2	15265.7	15140.3	14976.6	14998.4
65°	18716.0	18001.3	17472.2	17251.3	17134.0	17030.4	16866.8	16891.3
67.5°	20494.3	19837.0	19256.1	19029.6	18898.7	18767.8	18620.5	18645.1
70°	21770.8	20955.3	20300.7	19798.8	19485.1	19130.5	18901.5	18844.2
72.5°	21405.3	20148.0	19108.8	18113.2	17529.5	17055.0	16733.0	16594.0
75°	18525.0	16806.7	15470.2	14248.4	13561.0	13001.9	12595.5	12341.8
77.5°	13757.4	11826.3	10247.1	8839.7	7727.0	6979.6	6453.2	6112.3
80°	7530.5	5727.7	4186.7	2943.0	2162.9	1797.5	1587.4	1486.5
82.5°	2345.7	1513.8	1115.5	962.8	894.7	856.5	793.7	692.8
85°	747.4	654.6	608.2	580.9	553.7	482.8	332.8	302.7
87.5°	289.1	297.3	294.6	278.2	283.6	204.6	163.7	144.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)