

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: P192724

Luminaire Tested: **GAN-AF-06-LED-U-AFL-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192724
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-06-LED-U-AFL-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38749.9 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 382
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

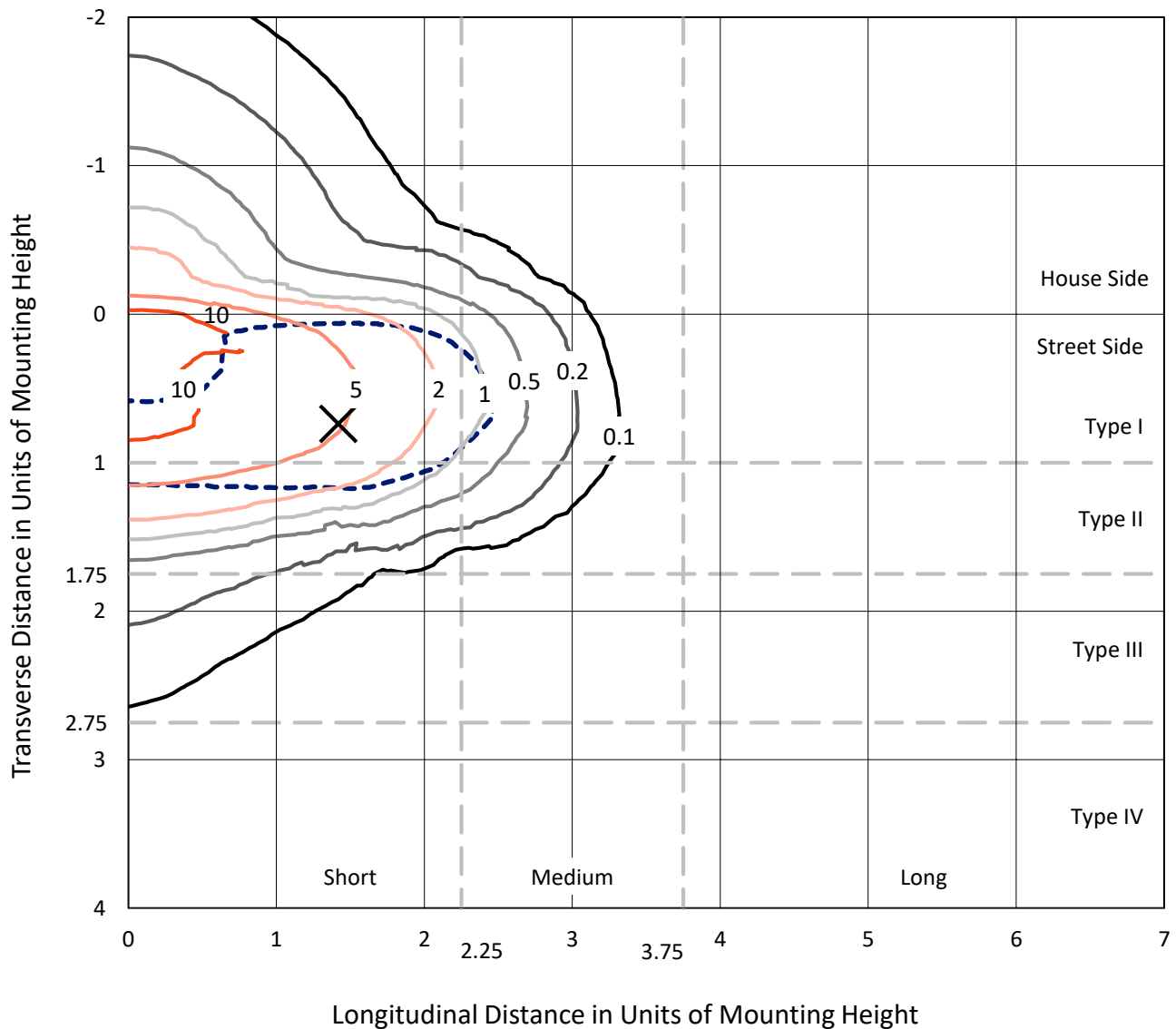


REPORT NUMBER: P192724

CATALOG NUMBER: GAN-AF-06-LED-U-AFL-7030-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

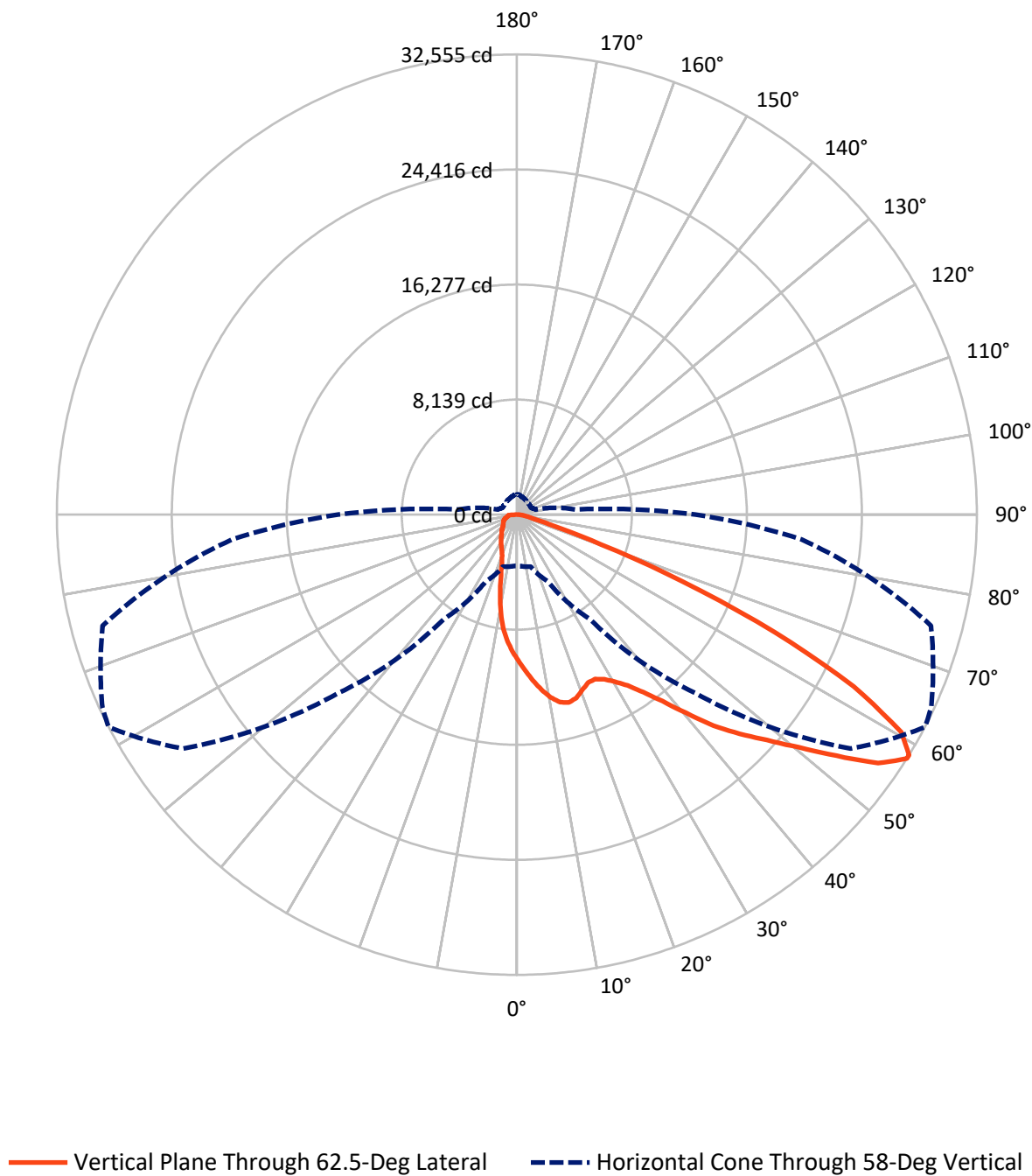


Based on 30 foot mounting height. Maximum calculated value = 13.9 fc
Type II - Short - Full Cutoff

REPORT NUMBER: P192724

CATALOG NUMBER: GAN-AF-06-LED-U-AFL-7030-1200

Luminous Intensity Polar Plot



REPORT NUMBER: P192724

CATALOG NUMBER: GAN-AF-06-LED-U-AFL-7030-1200

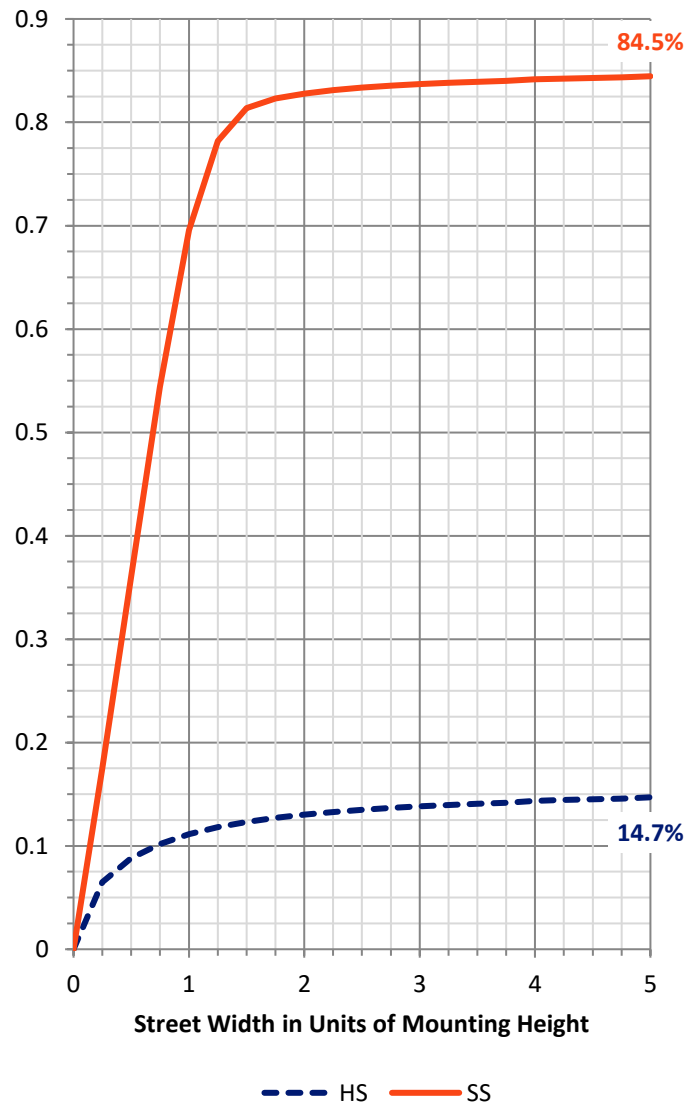
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5909.5	0.0	5909.5
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	32840.4	0.0	32840.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	38749.9	0.0	38749.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	920.6	2.4
10°-20°	2353.1	6.1
20°-30°	3803.9	9.8
30°-40°	6038.6	15.6
40°-50°	8835.8	22.8
50°-60°	9241.5	23.8
60°-70°	5459.9	14.1
70°-80°	1538.1	4.0
80°-90°	558.4	1.4
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°	38749.9	100.0
0°-180°	38749.9	100.0

Coefficient of Utilization



REPORT NUMBER: P192724

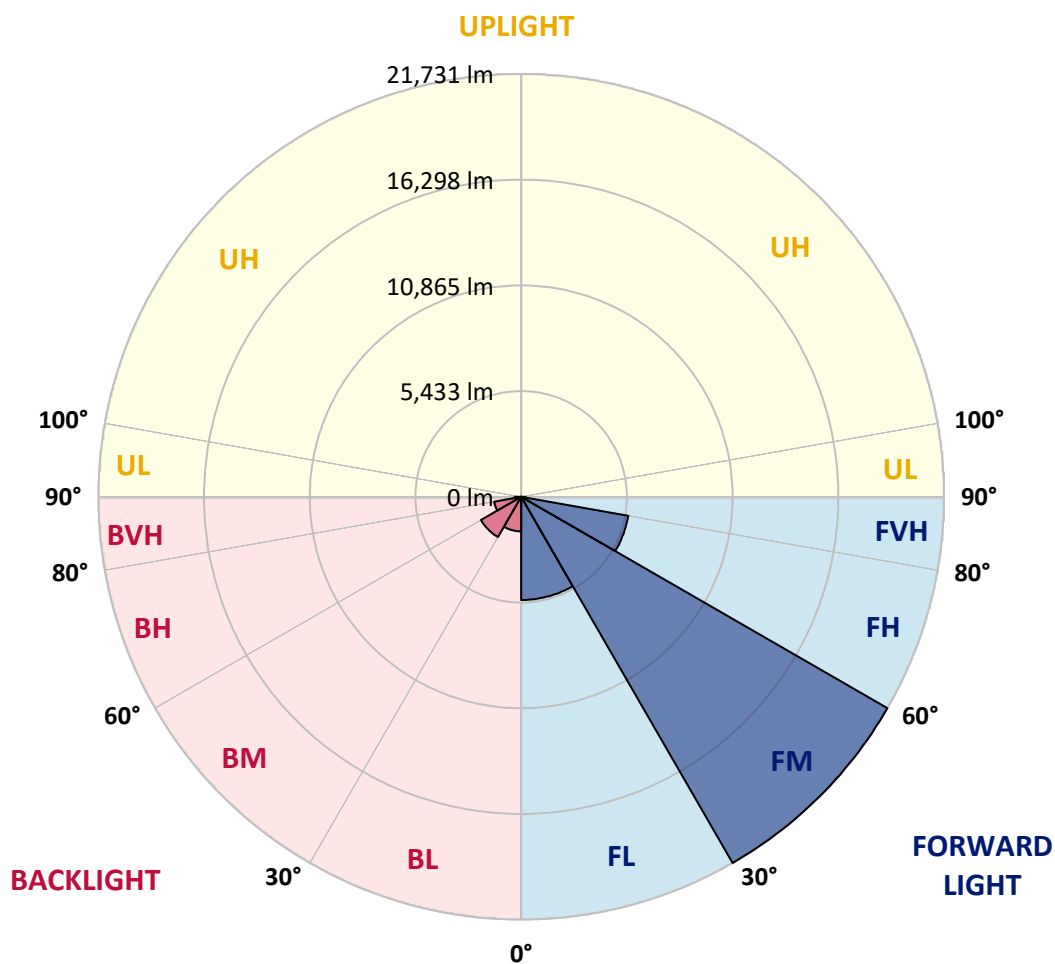
CATALOG NUMBER: GAN-AF-06-LED-U-AFL-7030-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5301.5	13.7			
FM	(30°-60°)	21730.7	56.1			
FH	(60°-80°)	5587.9	14.4			G3/7500
FVH	(80°-90°)	220.3	0.6			G2/225
BL	(0°-30°)	1776.1	4.6	B3/2500		
BM	(30°-60°)	2385.2	6.2	B2/2500		
BH	(60°-80°)	1410.1	3.6	B3/2500		G3/2500
BVH	(80°-90°)	338.1	0.9			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





REPORT NUMBER: P192724

CATALOG NUMBER: GAN-AF-06-LED-U-AFL-7030-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	10293.1	10293.1	10293.1	10293.1	10293.1	10293.1	10293.1	10293.1	10293.1	10293.1	10293.1
2.5°	11762.0	11667.1	11606.9	11553.9	11484.7	11336.8	11138.0	11012.0	10948.3	10731.0	10473.8
5°	12915.2	12831.3	12769.2	12698.1	12574.0	12342.3	12021.1	11765.7	11639.7	11205.5	10690.9
7.5°	12645.1	12679.9	12787.4	12975.4	13136.0	13105.0	12818.6	12493.7	12327.6	11723.6	10942.8
10°	11017.4	11077.7	11263.9	11703.7	12415.2	13145.1	13367.8	13143.4	12975.4	12236.4	11201.8
12.5°	10690.9	10689.1	10703.7	10820.5	11243.8	12271.1	13386.0	13612.3	13511.9	12725.4	11466.4
15°	10824.1	10827.7	10816.7	10866.1	10997.5	11404.4	12827.6	13792.9	13864.0	13218.0	11740.1
17.5°	11174.5	11165.3	11123.3	11123.3	11170.7	11329.5	12170.7	13625.0	13953.5	13654.2	11981.0
20°	11762.0	11720.0	11608.7	11506.5	11455.5	11541.2	11900.6	13238.2	13798.4	14035.6	12179.9
22.5°	12473.6	12440.8	12260.1	12041.1	11864.1	11862.4	12039.4	12900.6	13530.1	14395.0	12347.7
25°	13393.3	13340.3	13072.1	12721.8	12411.7	12293.0	12342.3	12884.2	13384.1	14785.5	12497.4
27.5°	14473.5	14376.8	14059.3	13553.8	13097.7	12858.6	12787.4	13181.6	13517.3	15269.1	12705.3
30°	15783.6	15672.3	15265.3	14606.7	13962.6	13570.3	13418.7	13709.0	13959.0	15858.4	13039.3
32.5°	17274.4	17113.9	16643.0	15916.9	15070.1	14471.7	14225.3	14406.0	14604.9	16568.3	13457.1
35°	19334.5	19142.9	18462.3	17460.5	16504.3	15681.4	15287.3	15418.6	15612.2	17626.6	14061.1
37.5°	20739.5	20653.8	20201.3	19259.6	18219.6	17272.6	16663.1	16739.8	16849.3	18949.5	14834.7
40°	20726.7	20761.5	20770.5	20779.7	20071.7	19164.8	18509.7	18429.5	18407.6	20402.0	15714.3
42.5°	19688.5	19830.8	20290.6	21223.1	21653.6	21237.7	20637.3	20405.6	20290.6	22113.5	16646.7
45°	18099.2	18175.9	19037.2	20858.1	22463.8	23290.5	22836.1	22106.2	21898.2	23686.5	17420.4
47.5°	17279.9	17363.8	17905.7	19890.9	22454.8	24949.2	25211.8	23821.5	23449.2	25054.9	18088.2
50°	15329.3	15504.4	16186.9	18208.7	21635.4	25711.8	27695.2	25865.1	25095.1	26386.9	18757.8
52.5°	11747.4	12017.4	12782.0	15442.3	19557.1	25334.1	29682.4	28343.1	27255.5	27766.4	19332.7
55°	7410.1	7610.8	8253.1	10906.3	15645.0	23368.9	30436.0	31023.5	30056.4	29072.9	19830.8
57.5°	4028.9	4118.3	4359.2	6021.5	10176.3	19024.3	29337.5	32549.0	32147.6	30182.4	20206.7
58°	3605.5	3665.8	3815.5	5218.7	9025.0	17836.5	28850.4	32554.5	32353.8	30344.7	20235.9
60°	2675.0	2644.0	2510.8	2977.9	5023.4	12322.1	25905.3	31251.7	31841.0	30543.7	20093.6
62.5°	2350.1	2275.5	2003.5	1972.4	2443.2	5676.7	19821.7	26770.1	28162.3	29408.7	19228.6
65°	2207.9	2127.6	1777.2	1664.1	1762.7	2401.3	11676.2	20077.2	21823.3	25967.3	17017.1
67.5°	2102.0	1998.1	1633.1	1478.1	1485.3	1587.5	4680.3	12645.1	14610.3	19715.9	13236.3
70°	1999.9	1886.7	1510.8	1332.0	1290.1	1255.4	1861.2	6329.8	8112.6	12453.6	8439.1
72.5°	1890.4	1779.1	1403.2	1217.0	1134.9	1020.1	1215.3	2589.2	3616.6	5892.0	3828.2
75°	1731.6	1631.2	1295.5	1114.9	998.1	844.8	917.8	1352.1	1622.2	2346.6	1844.8
77.5°	1536.4	1454.2	1175.1	1031.0	885.0	686.0	706.2	937.9	1040.0	1343.1	1096.6
80°	1103.9	1133.1	1045.5	926.9	788.3	556.5	541.9	684.3	739.0	863.0	713.5
82.5°	775.5	791.9	864.9	757.2	651.4	437.9	399.6	481.8	514.6	567.5	385.0
85°	534.6	516.4	593.1	527.2	470.8	291.9	273.7	326.5	346.7	352.2	198.9
87.5°	321.1	321.1	343.1	282.9	253.6	151.5	147.8	186.1	198.9	189.8	109.5
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: P192724

CATALOG NUMBER: GAN-AF-06-LED-U-AFL-7030-1200

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10293.1	10293.1	10293.1	10293.1	10293.1	10293.1	10293.1	10293.1	10293.1	10293.1	10293.1
2.5°	10320.5	10190.9	9915.4	9694.6	9415.4	9125.4	8962.9	8789.6	8671.0	8585.1	8722.0
5°	10399.0	10134.4	9565.1	9025.0	8428.3	7807.8	7337.1	6899.1	6594.5	6404.7	6583.5
7.5°	10523.0	10116.1	9209.3	8286.0	7214.8	6182.1	5258.7	4680.3	4342.7	4176.8	4280.8
10°	10665.4	10087.0	8791.4	7284.2	5751.4	4450.4	3760.7	3527.1	3450.5	3419.5	3434.1
12.5°	10784.0	10024.9	8278.7	6072.6	4319.0	3514.4	3315.5	3310.0	3326.4	3330.1	3335.5
15°	10867.9	9933.7	7517.8	4809.9	3454.1	3202.4	3191.4	3224.2	3255.3	3268.1	3275.4
17.5°	10924.5	9745.7	6658.4	3802.7	3094.7	3050.8	3076.4	3118.4	3151.2	3160.4	3167.7
20°	10919.1	9470.1	5634.7	3171.4	2899.4	2899.4	2943.2	2976.1	2977.9	2966.9	2972.4
22.5°	10862.4	9092.4	4642.0	2835.6	2726.1	2757.1	2800.9	2769.9	2642.2	2558.2	2563.7
25°	10767.5	8641.8	3791.8	2622.1	2565.5	2620.2	2607.5	2373.9	2191.4	2109.4	2109.4
27.5°	10683.6	8109.0	3138.5	2435.9	2404.9	2472.4	2246.2	2034.5	1957.9	1919.5	1906.8
30°	10623.4	7534.2	2702.4	2257.2	2253.5	2204.2	1948.7	1890.4	1877.6	1846.6	1835.7
32.5°	10638.0	6952.0	2423.2	2100.2	2113.0	1886.7	1806.5	1819.2	1808.2	1775.5	1760.8
35°	10758.4	6399.2	2240.7	1957.9	1919.5	1704.2	1722.5	1746.2	1742.5	1697.1	1682.4
37.5°	10973.8	5875.5	2120.2	1839.3	1675.1	1613.0	1642.2	1678.8	1669.6	1638.6	1627.6
40°	11199.9	5382.8	2021.8	1746.2	1530.9	1551.1	1576.5	1596.6	1605.8	1614.9	1607.5
42.5°	11420.8	4868.3	1901.3	1651.4	1470.7	1492.6	1503.5	1523.6	1572.9	1607.5	1605.8
45°	11552.2	4384.8	1777.2	1516.3	1423.2	1436.0	1428.8	1468.9	1529.1	1585.7	1587.5
47.5°	11698.2	4008.8	1678.8	1392.3	1377.6	1386.7	1364.8	1405.0	1459.7	1529.1	1536.4
50°	11875.2	3784.4	1600.2	1293.7	1315.6	1315.6	1310.1	1346.6	1423.2	1503.5	1518.1
52.5°	12075.9	3740.6	1534.5	1222.5	1253.5	1251.8	1257.2	1311.9	1395.9	1474.4	1487.1
55°	12320.4	3859.2	1463.4	1169.6	1193.3	1200.6	1218.9	1280.9	1352.1	1441.4	1447.0
57.5°	12605.0	4100.1	1406.8	1127.7	1138.6	1162.3	1191.6	1248.1	1324.8	1423.2	1428.8
58°	12652.4	4151.2	1397.8	1124.1	1127.7	1155.0	1187.8	1242.6	1319.3	1426.9	1432.4
60°	12654.3	4320.8	1377.6	1107.6	1085.7	1131.3	1167.8	1222.5	1310.1	1439.7	1452.5
62.5°	12205.4	4319.0	1363.0	1083.9	1041.9	1098.5	1140.4	1204.2	1301.1	1470.7	1496.3
65°	10747.5	3924.9	1293.7	1047.4	1007.3	1069.3	1116.7	1191.6	1326.5	1605.8	1622.2
67.5°	8406.4	3216.9	1164.1	996.3	961.6	1040.0	1102.1	1189.8	1353.9	1636.7	1647.7
70°	5558.0	2406.8	1021.8	937.9	914.2	1005.4	1109.4	1251.8	1322.9	1571.0	1541.8
72.5°	2884.9	1689.7	906.9	864.9	859.5	974.4	1215.3	1244.5	1291.9	1478.1	1441.4
75°	1514.6	1173.2	806.6	784.6	793.8	967.1	1434.2	1211.5	1251.8	1414.2	1483.5
77.5°	926.9	947.1	720.8	711.6	729.9	945.2	1432.4	1169.6	1193.3	1301.1	1377.6
80°	620.4	768.2	655.1	656.8	669.6	864.9	1286.4	1103.9	1122.2	1229.8	1308.3
82.5°	392.3	454.3	594.8	625.8	609.4	713.5	1093.0	1005.4	1031.0	1406.8	1487.1
85°	198.9	284.6	516.4	602.1	549.2	500.0	886.8	881.2	894.1	1014.6	1060.2
87.5°	91.2	156.9	403.2	525.5	414.2	312.1	644.1	653.3	704.2	720.8	720.8
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)