

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: P193159

Luminaire Tested: **GAN-AF-01-LED-U-T2R-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193159
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-T2R-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6887.7 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 67
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

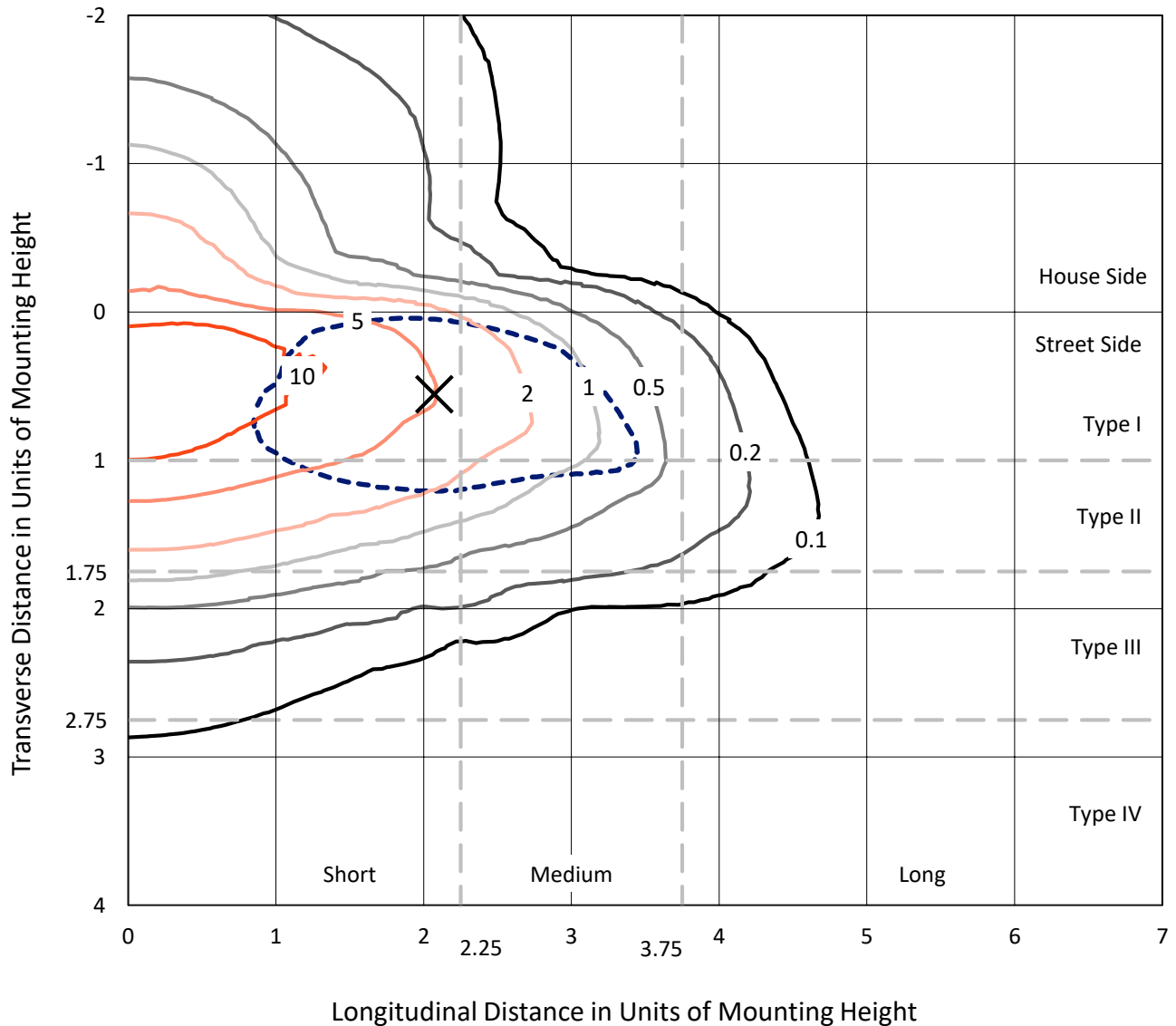


REPORT NUMBER: P193159

CATALOG NUMBER: GAN-AF-01-LED-U-T2R-7030-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

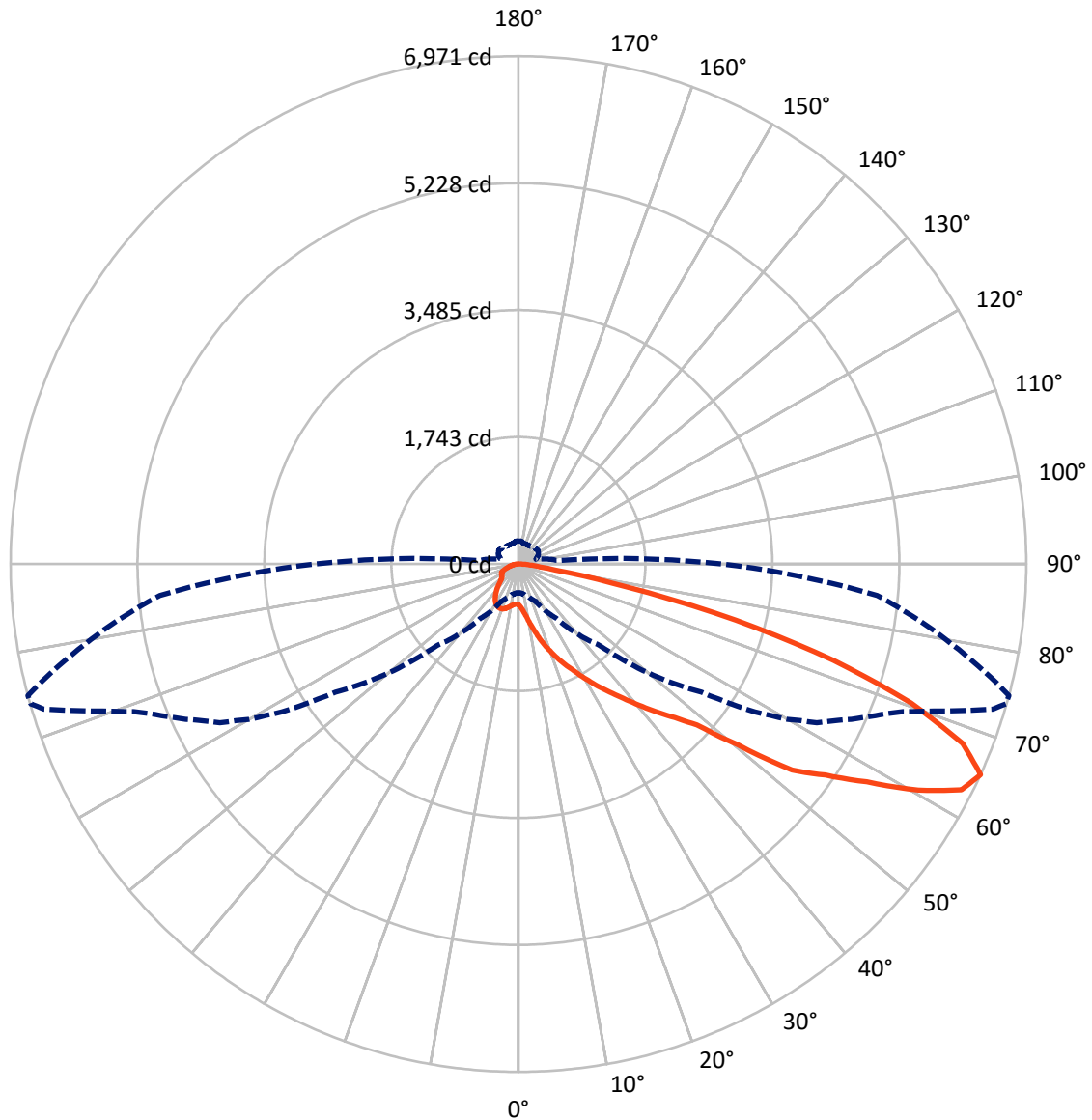


Based on 10 foot mounting height. Maximum calculated value = 17.4 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P193159

CATALOG NUMBER: GAN-AF-01-LED-U-T2R-7030-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P193159

CATALOG NUMBER: GAN-AF-01-LED-U-T2R-7030-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1061.9	0.0	1061.9
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	5825.8	0.0	5825.8
	% Fixture	84.6	0.0	84.6
Total	Lumens	6887.7	0.0	6887.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.2	1.0
10°-20°	270.3	3.9
20°-30°	554.6	8.1
30°-40°	933.1	13.5
40°-50°	1289.3	18.7
50°-60°	1609.5	23.4
60°-70°	1448.4	21.0
70°-80°	607.1	8.8
80°-90°	106.1	1.5
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°	6887.7	100.0
0°-180°	6887.7	100.0

Coefficient of Utilization



REPORT NUMBER: P193159

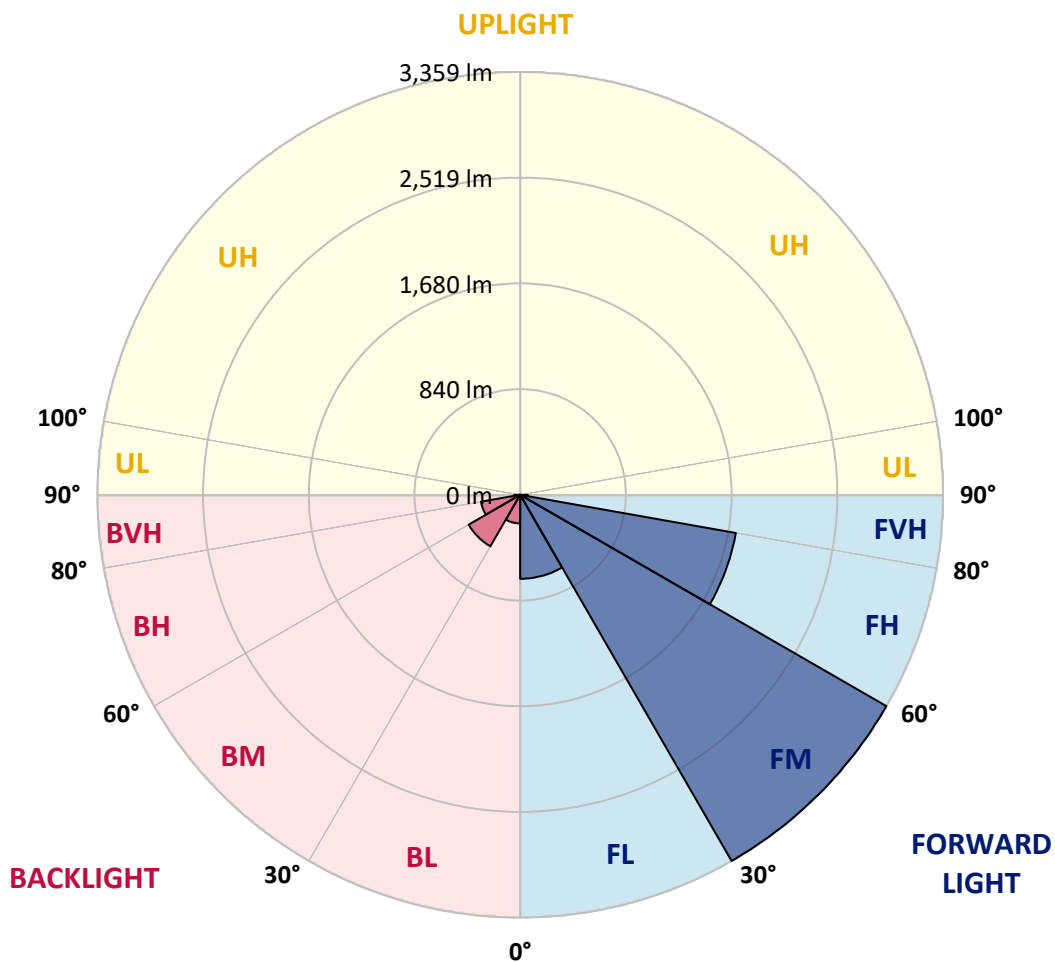
CATALOG NUMBER: GAN-AF-01-LED-U-T2R-7030-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	667.1	9.7			
FM	(30°-60°)	3359.3	48.8			
FH	(60°-80°)	1739.8	25.3			G1/1800
FVH	(80°-90°)	59.6	0.9			G1/100
BL	(0°-30°)	227.1	3.3	B1/500		
BM	(30°-60°)	472.7	6.9	B1/1000		
BH	(60°-80°)	315.7	4.6	B1/500		G1/500
BVH	(80°-90°)	46.5	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





REPORT NUMBER: P193159

CATALOG NUMBER: GAN-AF-01-LED-U-T2R-7030-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	559.7	559.7	559.7	559.7	559.7	559.7	559.7	559.7	559.7	559.7	559.7
2.5°	710.7	702.9	704.8	691.8	675.8	654.9	631.8	631.5	631.8	629.6	621.0
5°	985.5	976.1	972.5	943.1	900.1	838.8	772.4	765.2	762.2	754.8	737.4
7.5°	1186.0	1180.8	1175.3	1153.1	1114.0	1045.5	956.2	940.8	926.2	922.5	903.0
10°	1315.5	1314.2	1302.4	1296.6	1272.1	1212.8	1125.7	1111.0	1095.1	1089.6	1069.0
12.5°	1417.8	1417.5	1411.9	1413.6	1392.4	1349.4	1274.4	1261.0	1249.3	1232.3	1217.7
15°	1488.5	1488.8	1497.1	1506.1	1502.9	1473.9	1403.4	1397.7	1387.5	1375.8	1358.5
17.5°	1546.6	1548.2	1556.7	1573.4	1591.3	1588.9	1533.2	1528.3	1519.6	1503.5	1494.4
20°	1677.6	1683.8	1667.6	1667.6	1669.5	1678.3	1651.6	1647.6	1635.3	1626.8	1619.7
22.5°	1899.0	1906.1	1869.3	1831.8	1795.0	1768.3	1741.6	1746.4	1738.0	1732.1	1727.8
25°	2186.5	2192.1	2132.4	2069.2	1994.2	1896.4	1830.2	1827.3	1822.7	1819.1	1817.2
27.5°	2457.1	2459.4	2403.0	2310.4	2223.4	2082.9	1920.2	1916.6	1911.1	1904.2	1898.4
30°	2688.7	2688.0	2629.9	2541.6	2448.3	2292.8	2056.8	2045.7	2029.4	2010.8	1996.5
32.5°	2889.2	2888.2	2824.6	2732.9	2635.2	2500.8	2243.9	2221.1	2195.7	2159.5	2137.6
35°	3046.9	3046.2	2986.3	2890.7	2778.6	2696.7	2458.5	2430.4	2398.1	2349.5	2316.0
37.5°	3106.6	3106.6	3072.9	3007.8	2908.7	2852.5	2696.7	2662.8	2628.2	2573.2	2535.4
40°	3071.6	3072.3	3079.5	3067.5	3019.2	2976.1	2919.1	2898.8	2869.2	2819.7	2780.2
42.5°	2954.6	2958.2	3005.8	3064.1	3088.3	3081.4	3116.3	3107.3	3086.3	3048.3	3016.8
45°	2806.4	2817.4	2869.5	2979.7	3107.6	3172.4	3281.6	3282.5	3278.7	3258.1	3234.0
47.5°	2602.5	2618.2	2687.0	2836.0	3062.5	3260.8	3449.6	3458.3	3466.5	3453.1	3442.0
50°	2331.9	2350.5	2453.5	2651.0	2970.9	3352.4	3766.7	3806.5	3843.6	3839.1	3846.6
52.5°	2042.2	2064.0	2190.1	2410.2	2813.4	3373.5	3969.5	4034.4	4099.2	4152.4	4208.7
55°	1780.7	1768.9	1895.1	2126.8	2554.6	3278.0	4151.8	4230.0	4302.3	4367.5	4434.8
57.5°	1426.3	1445.5	1572.0	1801.2	2212.0	3008.5	4277.3	4391.6	4495.7	4603.5	4698.8
60°	1042.6	1061.8	1199.0	1431.9	1840.0	2599.6	4181.4	4354.8	4521.3	4686.6	4815.8
62.5°	629.6	643.9	764.9	986.5	1418.8	2114.8	3754.3	3981.9	4227.0	4424.6	4622.4
65°	391.9	400.0	444.6	566.6	911.2	1578.9	3067.5	3315.5	3579.6	3830.3	4036.0
67.5°	320.7	323.7	331.9	358.0	500.4	1029.6	2283.1	2502.8	2741.1	2983.7	3212.4
70°	288.6	286.6	286.6	288.2	320.7	553.6	1494.7	1637.9	1836.4	2047.3	2256.6
72.5°	260.5	258.5	254.9	250.1	261.7	337.7	772.7	880.5	1023.6	1211.1	1411.6
75°	234.1	231.5	227.3	221.0	229.2	254.9	371.1	416.3	486.1	585.8	697.6
77.5°	206.7	203.4	199.5	194.9	205.4	198.2	217.4	233.7	260.5	292.4	334.5
80°	175.7	172.7	171.4	169.3	181.6	151.0	153.5	163.7	179.3	196.5	216.2
82.5°	137.5	137.5	142.8	143.7	157.5	108.6	114.7	123.6	131.6	140.8	150.0
85°	90.5	91.2	108.9	115.7	124.2	72.9	86.1	89.0	95.5	100.7	104.7
87.5°	28.4	30.6	66.5	73.6	71.3	41.4	52.8	54.1	58.7	62.3	65.5
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: P193159

CATALOG NUMBER: GAN-AF-01-LED-U-T2R-7030-1200

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	559.7	559.7	559.7	559.7	559.7	559.7	559.7	559.7	559.7	559.7	559.7
2.5°	621.0	617.1	613.6	613.3	610.6	607.1	608.3	602.8	603.1	600.2	596.9
5°	730.3	727.6	714.7	711.1	701.2	695.0	694.2	681.0	679.4	672.0	663.8
7.5°	887.4	878.9	860.6	851.9	835.3	822.8	816.9	799.7	791.2	771.7	762.8
10°	1052.0	1041.2	1018.8	1006.4	990.4	970.6	959.8	934.7	924.9	907.0	885.4
12.5°	1204.6	1193.8	1170.7	1161.2	1140.0	1118.9	1107.2	1078.7	1066.1	1037.3	1020.4
15°	1345.7	1335.0	1314.8	1305.0	1283.8	1266.6	1250.9	1222.8	1207.9	1181.1	1158.9
17.5°	1482.6	1471.2	1453.7	1444.9	1424.3	1406.7	1389.8	1363.3	1348.0	1321.3	1301.4
20°	1609.8	1601.3	1588.6	1576.9	1556.4	1540.4	1520.3	1497.4	1475.2	1455.7	1436.8
22.5°	1720.8	1717.4	1703.7	1698.6	1681.0	1667.2	1649.6	1627.1	1611.1	1586.3	1568.8
25°	1816.2	1815.3	1808.7	1807.0	1794.7	1781.7	1777.7	1759.2	1744.5	1722.6	1704.3
27.5°	1898.4	1899.4	1897.8	1902.3	1899.0	1893.1	1893.5	1887.2	1878.8	1860.5	1844.6
30°	1989.6	1984.3	1987.3	1993.9	1995.8	1996.5	2007.2	2010.8	2010.2	1998.2	1990.2
32.5°	2118.7	2106.3	2094.9	2094.0	2100.5	2103.1	2121.4	2130.8	2139.0	2141.9	2143.2
35°	2283.4	2258.6	2234.8	2222.2	2211.0	2213.9	2226.9	2242.3	2260.2	2272.6	2287.3
37.5°	2490.7	2460.4	2418.4	2388.3	2380.9	2364.6	2373.0	2385.1	2402.7	2422.0	2447.3
40°	2742.1	2696.1	2648.8	2609.0	2587.6	2557.5	2557.2	2554.9	2565.7	2583.7	2619.5
42.5°	2984.0	2943.2	2892.9	2851.2	2823.3	2783.2	2774.9	2753.8	2758.7	2774.3	2809.3
45°	3210.6	3176.9	3146.3	3098.0	3074.2	3031.0	3017.2	2992.1	2978.1	2985.3	3020.2
47.5°	3429.9	3408.5	3376.4	3345.2	3327.0	3288.1	3270.5	3252.5	3234.6	3234.0	3270.5
50°	3857.6	3846.3	3808.4	3775.9	3784.6	3737.0	3740.0	3691.8	3713.6	3716.1	3792.8
52.5°	4259.6	4299.5	4327.4	4361.6	4383.8	4388.1	4402.7	4424.6	4451.0	4503.1	4574.2
55°	4489.8	4539.7	4568.6	4594.8	4637.8	4646.9	4671.4	4700.5	4723.5	4782.3	4842.6
57.5°	4763.2	4855.9	4901.0	4942.4	5000.4	5022.5	5063.3	5094.9	5125.0	5194.3	5267.3
60°	4931.9	5044.7	5136.3	5201.9	5274.5	5326.7	5388.2	5437.9	5508.2	5591.4	5700.3
62.5°	4797.9	4963.5	5085.2	5197.6	5296.4	5396.1	5484.5	5577.0	5684.0	5809.9	5978.6
65°	4264.2	4432.7	4641.2	4757.8	4888.5	5042.5	5176.7	5326.7	5472.4	5655.6	5905.4
67.5°	3432.9	3628.8	3862.9	3980.6	4130.9	4302.6	4453.3	4636.5	4806.7	5028.6	5337.5
70°	2474.4	2727.7	2924.7	3047.6	3222.9	3399.9	3545.4	3758.5	3899.4	4126.9	4446.1
72.5°	1566.8	1766.6	2007.8	2162.8	2318.6	2497.8	2646.6	2830.4	2961.8	3169.2	3458.3
75°	842.4	989.8	1201.7	1348.7	1515.7	1668.8	1842.8	1966.1	2063.4	2227.2	2462.0
77.5°	394.8	484.4	591.7	704.8	818.0	936.1	1050.7	1150.5	1192.2	1286.1	1424.6
80°	239.6	268.7	299.9	334.8	382.1	420.2	470.8	507.3	509.9	539.5	582.0
82.5°	160.1	170.9	180.3	189.1	201.1	210.7	221.4	234.1	239.3	246.2	259.8
85°	109.3	114.4	116.4	122.0	120.6	123.9	128.2	132.3	134.6	134.3	140.5
87.5°	67.2	69.8	71.0	72.3	71.3	70.2	72.0	74.3	75.0	72.9	73.6
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: P193159

CATALOG NUMBER: GAN-AF-01-LED-U-T2R-7030-1200

CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	559.7	559.7	559.7	559.7	559.7	559.7	559.7	559.7	559.7	559.7	559.7
2.5°	597.5	594.6	591.7	589.8	589.1	571.9	564.4	559.4	549.0	540.5	533.7
5°	659.2	653.1	648.1	642.2	638.9	595.3	579.3	568.2	550.0	539.2	529.5
7.5°	758.3	741.0	731.0	719.5	709.7	630.9	604.4	587.2	561.7	547.4	536.3
10°	870.8	852.9	836.8	819.2	803.9	678.1	639.6	613.0	579.3	560.7	546.1
12.5°	996.3	978.6	958.4	936.1	916.3	738.0	684.6	646.5	600.5	575.7	555.1
15°	1144.6	1113.7	1089.2	1063.1	1040.2	809.8	737.1	684.3	623.0	589.5	562.0
17.5°	1282.4	1249.9	1216.7	1193.8	1167.4	890.4	790.0	722.8	641.6	598.2	563.3
20°	1417.2	1381.6	1352.9	1322.2	1294.6	973.8	846.3	756.6	653.7	598.5	555.1
22.5°	1535.8	1513.7	1481.7	1448.4	1420.4	1057.3	899.1	785.3	658.2	591.1	540.9
25°	1670.8	1647.3	1608.2	1580.2	1548.9	1142.3	951.0	807.5	655.5	577.0	518.7
27.5°	1814.9	1788.8	1748.7	1719.4	1681.6	1230.7	998.5	823.5	645.8	554.2	489.1
30°	1965.1	1941.4	1901.9	1872.2	1834.1	1324.2	1051.7	834.3	626.3	522.6	454.4
32.5°	2126.5	2106.6	2067.5	2036.6	1995.8	1425.7	1101.3	837.5	596.5	485.1	417.9
35°	2279.8	2266.0	2233.2	2204.2	2161.8	1521.4	1153.8	835.9	561.4	444.0	384.7
37.5°	2452.3	2444.1	2427.7	2390.9	2339.1	1651.6	1216.7	829.1	518.3	403.2	359.3
40°	2636.1	2636.8	2619.2	2594.1	2545.8	1809.4	1291.7	815.6	471.5	367.4	336.1
42.5°	2830.7	2840.8	2832.3	2814.4	2768.2	1968.5	1381.2	799.3	425.8	332.4	313.2
45°	3053.7	3066.2	3079.2	3052.7	3007.8	2178.4	1499.4	778.2	376.5	303.5	297.6
47.5°	3311.0	3330.6	3342.2	3342.6	3297.6	2438.5	1691.0	765.5	332.8	284.0	290.2
50°	3853.8	3859.9	3887.7	3935.9	3901.3	3040.6	2025.7	757.6	303.2	271.8	284.6
52.5°	4635.9	4703.9	4751.9	4748.6	4701.8	3423.1	2210.4	717.2	285.6	267.3	282.0
55°	4954.4	5039.5	5128.1	5151.6	5115.1	3749.4	2384.8	676.8	277.1	270.6	283.0
57.5°	5378.9	5522.3	5643.9	5695.0	5642.2	4167.0	2614.2	655.5	274.5	279.3	289.2
60°	5874.7	6052.0	6211.8	6303.7	6303.7	4646.9	2852.2	646.9	271.0	292.4	299.6
62.5°	6193.2	6453.7	6695.0	6829.6	6825.7	4981.1	2957.8	616.8	262.8	301.5	313.9
65°	6194.5	6504.2	6811.7	6962.9	6970.7	4940.0	2783.5	544.7	247.8	302.8	328.4
67.5°	5678.1	6008.3	6366.6	6535.8	6575.0	4547.5	2409.5	448.0	223.3	289.9	333.5
70°	4795.6	5118.0	5483.8	5650.1	5719.5	3876.6	1940.8	345.3	192.0	261.1	322.8
72.5°	3778.0	4094.4	4348.9	4470.6	4524.7	2963.1	1413.3	260.8	157.5	220.0	293.7
75°	2674.8	2912.2	3047.6	3074.5	3083.1	1786.2	858.7	193.9	129.8	171.2	248.1
77.5°	1509.8	1611.5	1600.4	1612.4	1512.0	689.5	373.8	138.9	107.0	130.1	192.3
80°	589.5	607.7	570.9	559.4	513.2	256.5	165.0	96.8	85.4	98.5	134.6
82.5°	259.8	268.3	260.5	262.4	251.1	132.3	98.8	70.2	65.2	72.0	89.4
85°	143.1	145.8	145.1	149.3	143.1	52.8	47.0	43.0	45.7	48.9	57.4
87.5°	69.8	70.5	68.2	71.7	69.5	26.8	23.2	24.5	26.8	27.5	27.5
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: P193159

CATALOG NUMBER: GAN-AF-01-LED-U-T2R-7030-1200

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	559.7	559.7	559.7	559.7	559.7	559.7
2.5°	528.9	526.2	526.5	525.9	524.6	524.6
5°	524.2	521.6	521.6	520.9	519.3	519.6
7.5°	528.9	524.6	523.0	520.6	518.3	518.3
10°	533.9	526.5	521.9	518.0	515.0	515.0
12.5°	537.9	526.2	518.7	513.5	510.6	510.6
15°	539.2	523.9	513.5	507.3	504.7	504.3
17.5°	535.0	515.0	502.4	495.2	492.0	491.0
20°	521.9	499.1	483.8	475.6	471.1	469.5
22.5°	502.4	476.3	458.4	449.9	444.0	443.0
25°	474.9	447.0	429.4	421.2	417.9	417.0
27.5°	443.0	417.0	402.0	396.7	393.8	393.5
30°	412.8	390.6	379.4	375.6	372.0	371.4
32.5°	384.4	370.4	366.1	360.5	352.2	351.2
35°	364.2	362.8	359.9	347.6	337.1	334.2
37.5°	351.9	363.9	348.9	324.4	316.9	316.2
40°	344.6	353.7	328.0	319.5	320.1	319.5
42.5°	328.4	337.7	328.7	324.7	327.3	328.0
45°	312.1	322.5	333.5	330.9	337.1	337.1
47.5°	302.8	318.5	333.1	333.1	342.3	345.6
50°	292.4	315.2	328.0	332.4	339.7	337.1
52.5°	291.8	309.8	320.4	328.7	331.9	329.0
55°	292.7	305.2	312.9	322.1	326.0	326.3
57.5°	294.0	302.5	307.8	312.1	323.7	323.7
60°	297.3	300.3	303.2	305.5	320.7	321.1
62.5°	302.5	297.9	297.3	299.6	319.1	317.8
65°	310.8	294.7	289.9	292.0	317.5	313.6
67.5°	321.8	289.9	280.4	282.0	316.2	307.8
70°	331.9	282.0	268.7	267.0	303.8	288.9
72.5°	332.8	272.8	252.3	247.5	264.1	249.7
75°	316.6	266.7	234.4	220.0	218.1	216.2
77.5°	285.2	263.1	213.5	191.1	187.2	188.5
80°	238.6	249.7	188.5	161.7	182.9	180.6
82.5°	178.3	220.3	160.1	143.1	142.8	126.2
85°	99.1	171.7	130.4	107.3	74.7	72.3
87.5°	27.8	95.5	91.2	60.6	41.4	43.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)