

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: P193421

Luminaire Tested: **GAN-AF-03-LED-U-5WQ-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193421
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-03-LED-U-5WQ-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12619 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 124
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



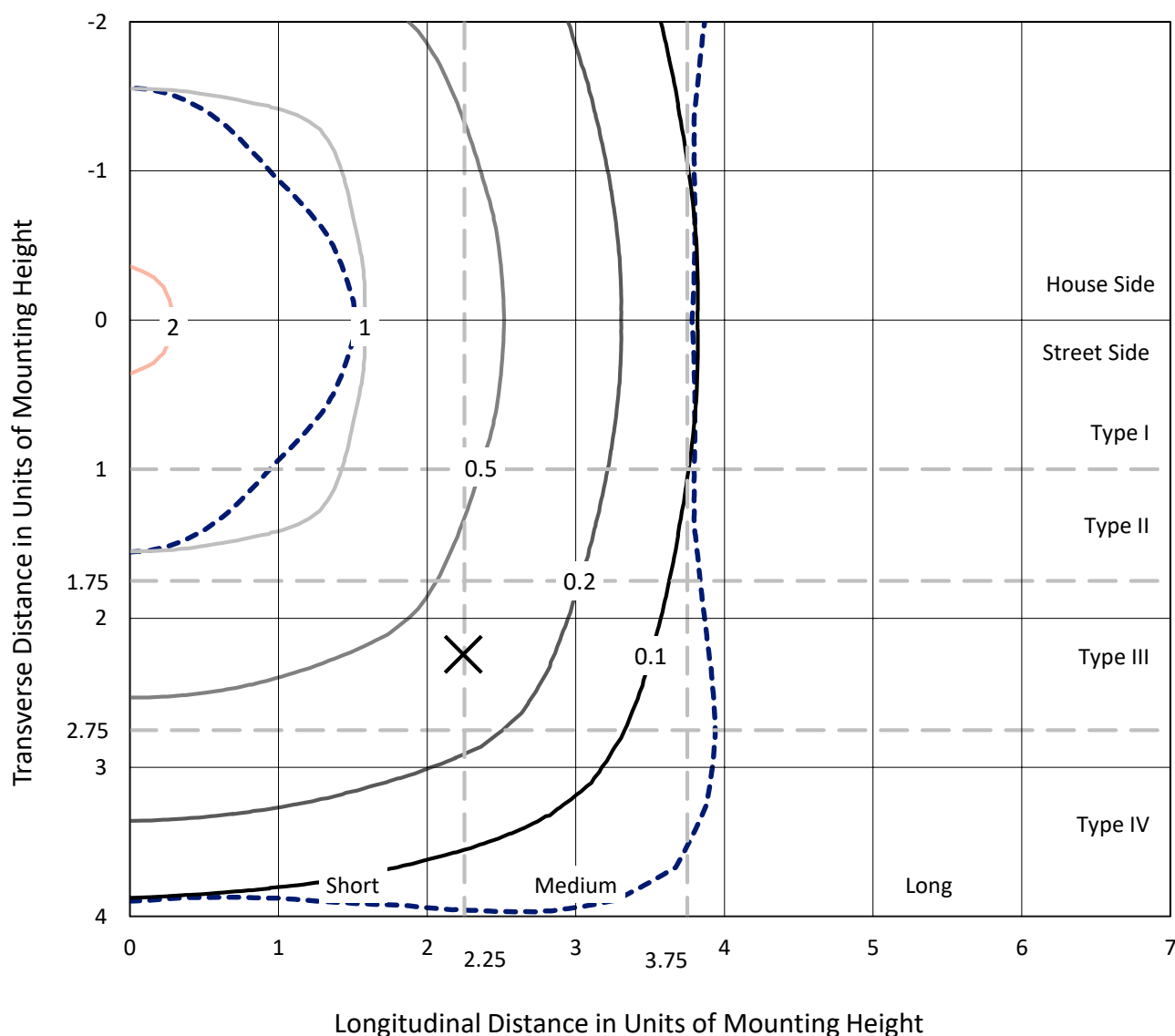
REPORT NUMBER: P193421

CATALOG NUMBER: GAN-AF-03-LED-U-5WQ-8030-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

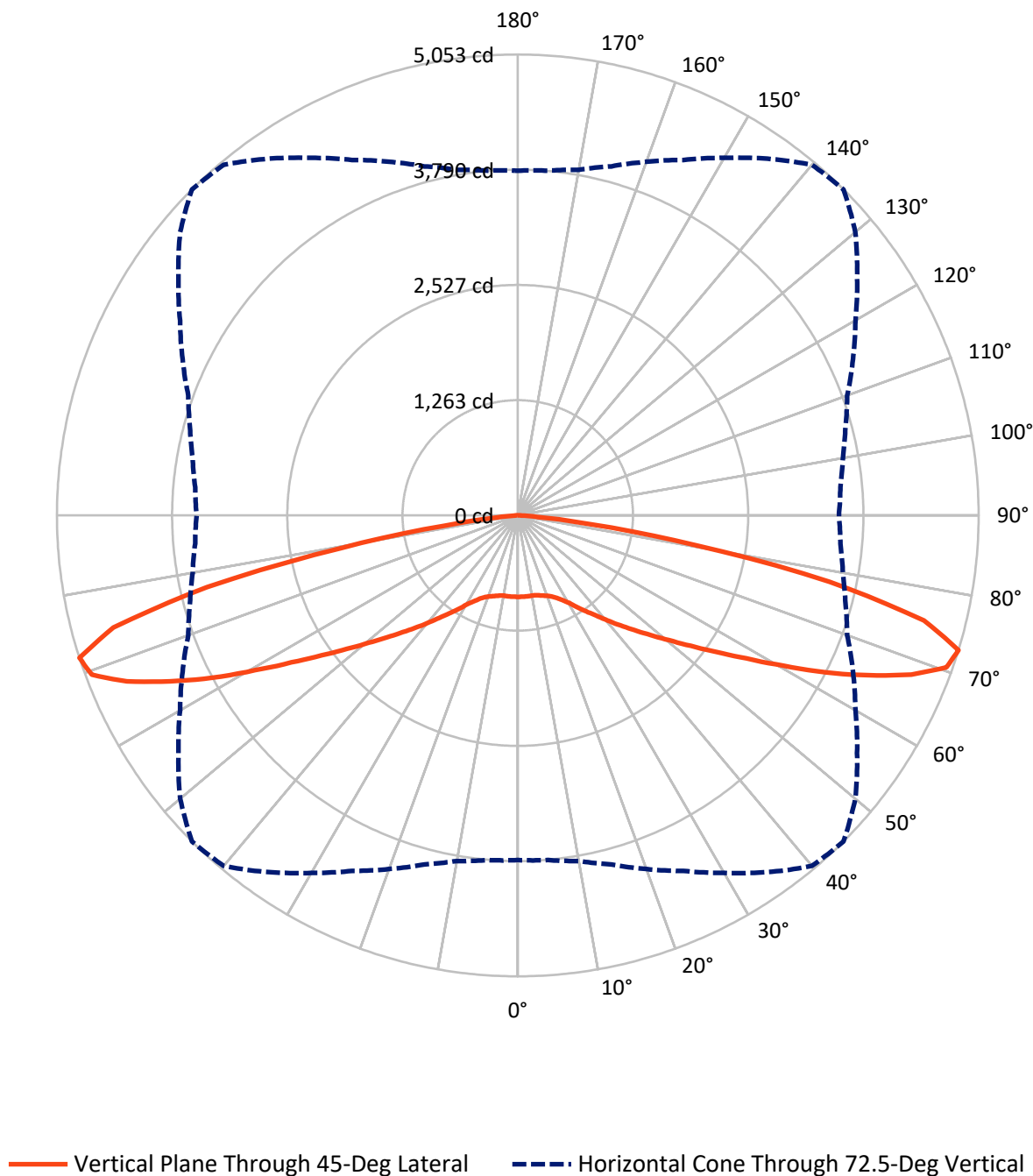


Based on 20 foot mounting height. Maximum calculated value = 2.2 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P193421

CATALOG NUMBER: GAN-AF-03-LED-U-5WQ-8030-800

Luminous Intensity Polar Plot



REPORT NUMBER: P193421

CATALOG NUMBER: GAN-AF-03-LED-U-5WQ-8030-800

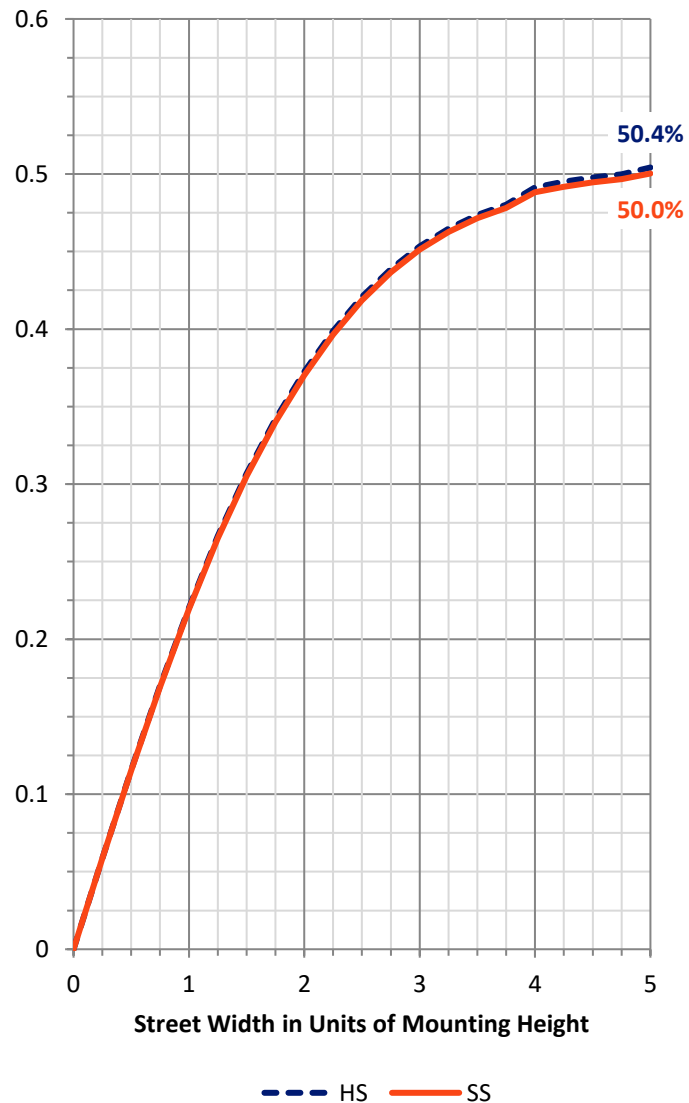
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6309.5	0.0	6309.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6309.5	0.0	6309.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12619.0	0.0	12619.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.3	0.7
10°-20°	259.2	2.1
20°-30°	473.6	3.8
30°-40°	816.5	6.5
40°-50°	1395.9	11.1
50°-60°	2262.5	17.9
60°-70°	3753.5	29.7
70°-80°	3305.9	26.2
80°-90°	266.5	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°	12619.0	100.0
0°-180°	12619.0	100.0

Coefficient of Utilization



REPORT NUMBER: P193421

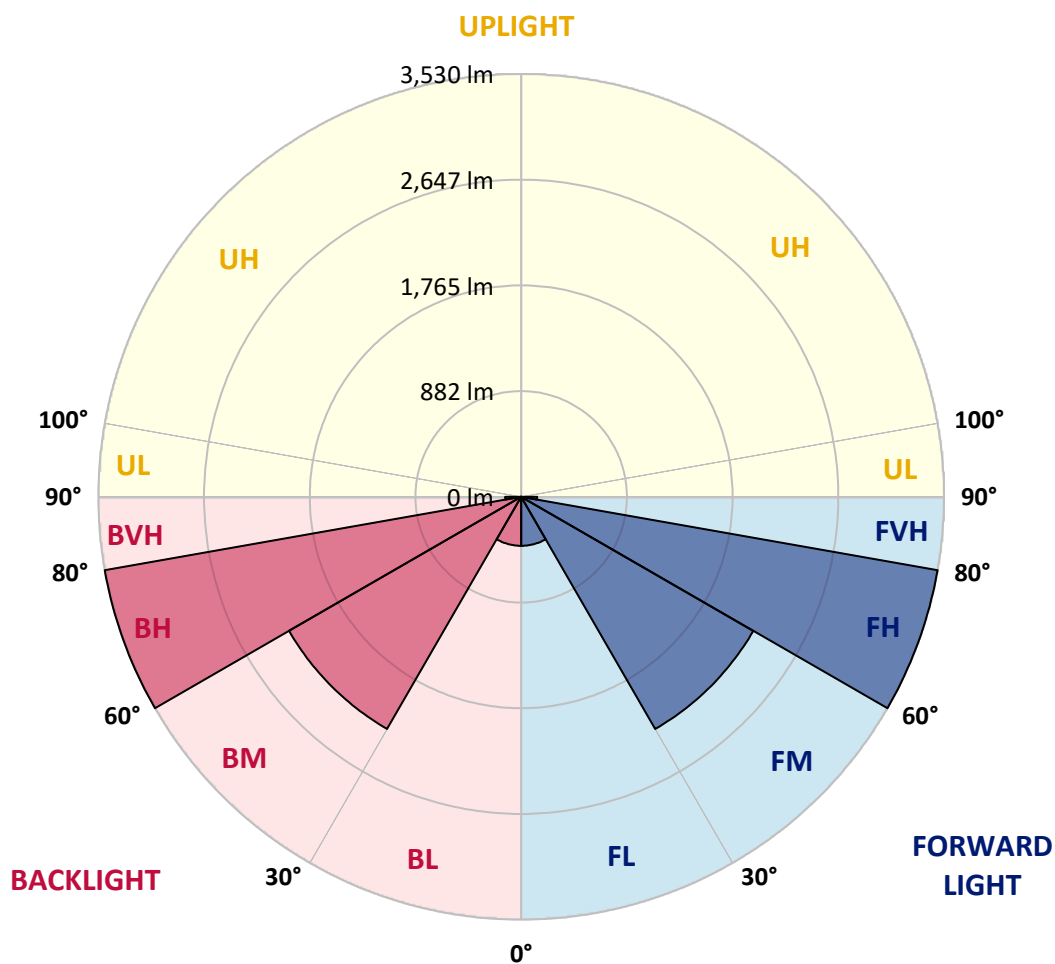
CATALOG NUMBER: GAN-AF-03-LED-U-5WQ-8030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	409.0	3.2			
FM	(30°-60°)	2237.5	17.7			
FH	(60°-80°)	3529.7	28.0			G2/5000
FVH	(80°-90°)	133.3	1.1			G2/225
BL	(0°-30°)	409.0	3.2	B1/500		
BM	(30°-60°)	2237.5	17.7	B2/2500		
BH	(60°-80°)	3529.7	28.0	B4/5000		G2/5000
BVH	(80°-90°)	133.3	1.1			G2/225
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: P193421

CATALOG NUMBER: GAN-AF-03-LED-U-5WQ-8030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	893.6	893.6	893.6	893.6	893.6	893.6	893.6	893.6	893.6	893.6	893.6
2.5°	893.6	894.2	894.8	894.2	894.2	893.6	893.0	893.6	893.0	891.9	892.5
5°	896.5	897.7	897.7	896.5	897.1	896.5	895.4	895.9	894.8	893.0	893.0
7.5°	900.0	900.6	900.6	899.4	900.0	898.8	897.7	897.1	895.9	893.6	891.9
10°	905.2	905.8	905.2	904.0	904.0	902.3	899.4	898.3	895.9	892.5	890.7
12.5°	911.0	911.6	911.0	909.8	909.2	906.4	904.0	902.3	900.6	897.7	894.8
15°	919.1	920.2	919.1	916.8	915.0	912.7	911.6	912.1	912.7	910.4	907.5
17.5°	934.1	934.7	933.0	927.8	925.5	923.1	923.1	924.3	926.0	924.9	922.0
20°	961.9	960.2	956.1	949.8	946.9	942.8	942.2	942.8	942.8	942.2	939.9
22.5°	996.6	995.5	990.3	982.2	978.1	975.8	972.3	969.4	968.9	967.1	964.8
25°	1038.3	1037.7	1031.4	1024.4	1021.5	1018.6	1015.7	1011.7	1008.2	1004.2	1001.9
27.5°	1091.6	1089.2	1080.0	1076.5	1072.5	1070.7	1066.7	1062.0	1059.1	1053.9	1051.0
30°	1150.0	1150.0	1142.5	1141.3	1141.3	1137.3	1132.7	1124.6	1119.3	1114.1	1112.4
32.5°	1208.5	1209.1	1201.5	1203.8	1205.6	1208.5	1209.6	1206.7	1203.3	1202.7	1199.2
35°	1293.0	1290.7	1283.1	1284.9	1284.3	1283.7	1283.7	1290.1	1291.2	1292.4	1285.4
37.5°	1397.7	1397.7	1390.2	1390.2	1386.7	1383.3	1378.6	1382.7	1389.0	1390.8	1386.2
40°	1517.5	1521.6	1512.3	1511.7	1512.9	1501.9	1496.7	1503.1	1507.1	1514.1	1508.9
42.5°	1658.8	1655.9	1646.6	1645.4	1639.1	1635.6	1631.0	1636.2	1642.5	1647.2	1648.9
45°	1794.2	1791.9	1781.5	1781.5	1775.1	1772.2	1774.5	1783.2	1786.1	1792.5	1798.8
47.5°	1927.9	1925.0	1918.0	1920.9	1921.5	1926.7	1934.3	1942.4	1950.5	1959.1	1962.0
50°	2064.5	2065.1	2057.5	2064.5	2073.2	2087.6	2107.9	2121.2	2138.0	2149.0	2152.4
52.5°	2188.9	2191.2	2199.3	2215.5	2232.9	2261.3	2296.0	2328.4	2356.2	2374.7	2373.5
55°	2338.2	2341.7	2361.4	2389.2	2417.5	2460.4	2511.9	2569.2	2615.5	2642.1	2625.3
57.5°	2529.2	2536.7	2558.7	2596.4	2638.6	2694.2	2764.8	2851.0	2922.8	2958.7	2931.5
60°	2791.4	2796.0	2822.7	2864.3	2915.3	2984.1	3078.5	3194.2	3295.5	3343.0	3311.7
62.5°	3136.9	3145.6	3167.0	3209.3	3261.4	3339.5	3454.7	3599.4	3725.5	3791.5	3720.9
65°	3549.6	3577.4	3595.3	3638.1	3686.8	3769.5	3889.9	4045.0	4180.5	4223.9	4142.3
67.5°	3958.2	3982.5	4013.8	4063.0	4112.2	4205.3	4317.0	4467.5	4616.3	4655.6	4528.9
70°	4137.0	4150.9	4199.6	4266.7	4361.0	4471.0	4600.1	4769.1	4953.1	4985.5	4824.6
72.5°	3778.8	3792.7	3847.1	3961.1	4125.5	4300.3	4525.4	4773.7	5016.8	5053.2	4831.6
75°	2858.0	2835.4	2915.8	3066.9	3288.6	3532.2	3847.1	4203.0	4554.3	4600.1	4335.6
77.5°	1477.0	1474.1	1534.9	1722.4	1986.9	2264.1	2610.8	3013.1	3356.9	3495.8	3280.5
80°	416.1	420.8	449.7	542.9	697.4	897.7	1168.5	1545.3	1826.6	1970.1	1849.7
82.5°	163.2	175.9	186.9	204.3	224.6	254.1	339.2	504.7	677.2	809.1	662.7
85°	58.5	62.5	88.6	104.8	106.5	112.3	127.9	149.3	180.0	214.7	176.5
87.5°	22.0	24.3	28.4	46.9	46.3	42.3	51.5	53.8	40.5	37.0	45.7
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: P193421

CATALOG NUMBER: GAN-AF-03-LED-U-5WQ-8030-800

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	893.6	893.6	893.6	893.6	893.6	893.6	893.6	893.6
2.5°	891.3	891.9	891.9	892.5	893.0	893.0	894.2	894.2
5°	891.9	891.9	890.7	891.3	890.7	890.7	891.3	891.3
7.5°	890.7	890.1	889.0	888.4	887.3	887.3	887.3	887.3
10°	889.0	888.4	887.3	886.7	886.1	886.1	886.1	886.1
12.5°	893.6	891.9	890.7	890.1	890.1	890.1	890.1	890.1
15°	905.8	901.7	898.8	898.8	899.4	900.6	900.6	901.7
17.5°	920.8	916.2	913.3	911.0	912.1	913.9	915.0	916.2
20°	938.8	936.5	932.4	930.1	930.1	932.4	933.6	934.1
22.5°	963.7	961.9	960.2	957.3	957.3	958.4	960.8	960.8
25°	1000.7	999.5	998.4	996.1	995.5	995.5	996.6	997.8
27.5°	1047.0	1047.6	1046.4	1045.8	1044.1	1043.5	1045.3	1044.7
30°	1108.9	1111.8	1114.7	1112.4	1109.5	1107.8	1106.0	1103.7
32.5°	1192.8	1189.4	1187.1	1183.0	1177.8	1173.2	1169.7	1165.6
35°	1272.1	1266.3	1264.0	1267.5	1266.9	1264.0	1260.0	1256.5
37.5°	1369.4	1368.2	1369.4	1375.7	1374.6	1377.5	1369.4	1368.8
40°	1492.1	1493.2	1501.3	1508.9	1512.9	1517.0	1512.3	1507.7
42.5°	1634.4	1633.9	1636.8	1647.2	1654.1	1658.8	1648.9	1647.8
45°	1784.9	1780.9	1783.2	1791.9	1798.8	1804.0	1793.0	1793.0
47.5°	1950.5	1943.5	1936.0	1945.8	1949.9	1953.3	1944.7	1941.8
50°	2135.1	2120.6	2104.4	2108.5	2108.5	2107.3	2096.3	2095.7
52.5°	2346.9	2320.3	2290.8	2279.8	2273.4	2266.5	2247.4	2238.1
55°	2590.6	2550.6	2504.3	2476.0	2460.9	2441.8	2410.0	2401.3
57.5°	2875.3	2812.8	2733.0	2698.2	2664.7	2633.4	2598.1	2588.3
60°	3212.8	3120.7	3014.8	2950.6	2914.1	2884.0	2847.5	2845.8
62.5°	3589.0	3443.7	3323.9	3266.0	3239.4	3212.8	3178.0	3182.7
65°	3971.5	3819.9	3707.6	3660.7	3635.8	3613.8	3579.1	3584.3
67.5°	4348.9	4209.4	4086.1	4038.1	4010.3	3982.5	3951.3	3956.5
70°	4619.7	4446.7	4307.8	4201.3	4134.7	4059.5	4010.9	3998.7
72.5°	4542.2	4275.4	4054.9	3843.6	3719.8	3619.1	3550.8	3521.2
75°	3931.0	3566.4	3282.8	3023.5	2877.6	2759.0	2672.8	2618.9
77.5°	2919.3	2509.5	2174.4	1875.8	1639.7	1481.1	1369.4	1297.0
80°	1598.0	1215.4	888.4	624.5	459.0	381.4	336.8	315.4
82.5°	497.7	321.2	236.7	204.3	189.8	181.7	168.4	147.0
85°	158.6	138.9	129.1	123.3	117.5	102.4	70.6	64.2
87.5°	61.3	63.1	62.5	59.0	60.2	43.4	34.7	30.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)