

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: P193759

Luminaire Tested: **GAN-AF-01-LED-U-SL4-8030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193759
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
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-SL4-8030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4528 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

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

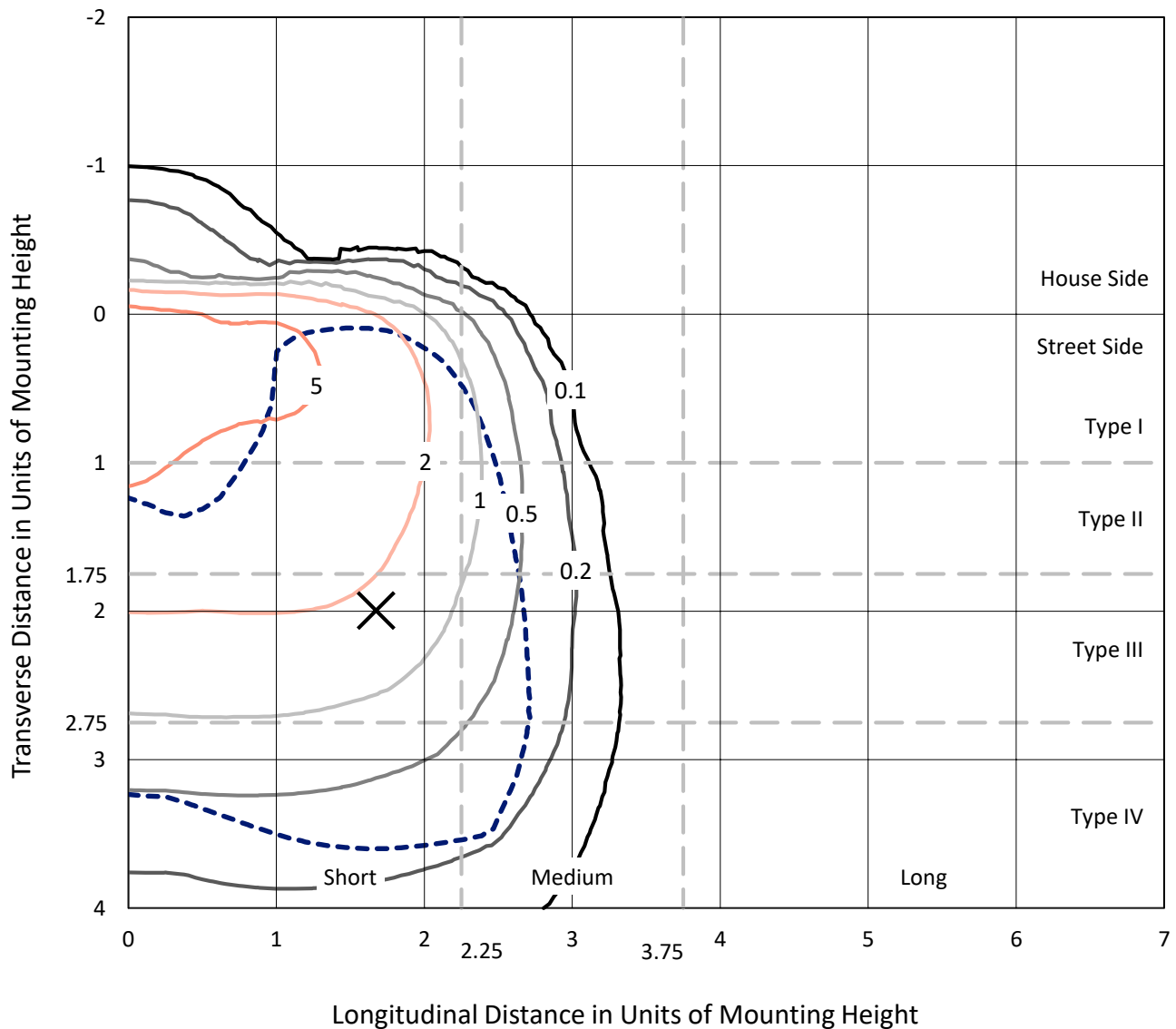


REPORT NUMBER: P193759

CATALOG NUMBER: GAN-AF-01-LED-U-SL4-8030-1200-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

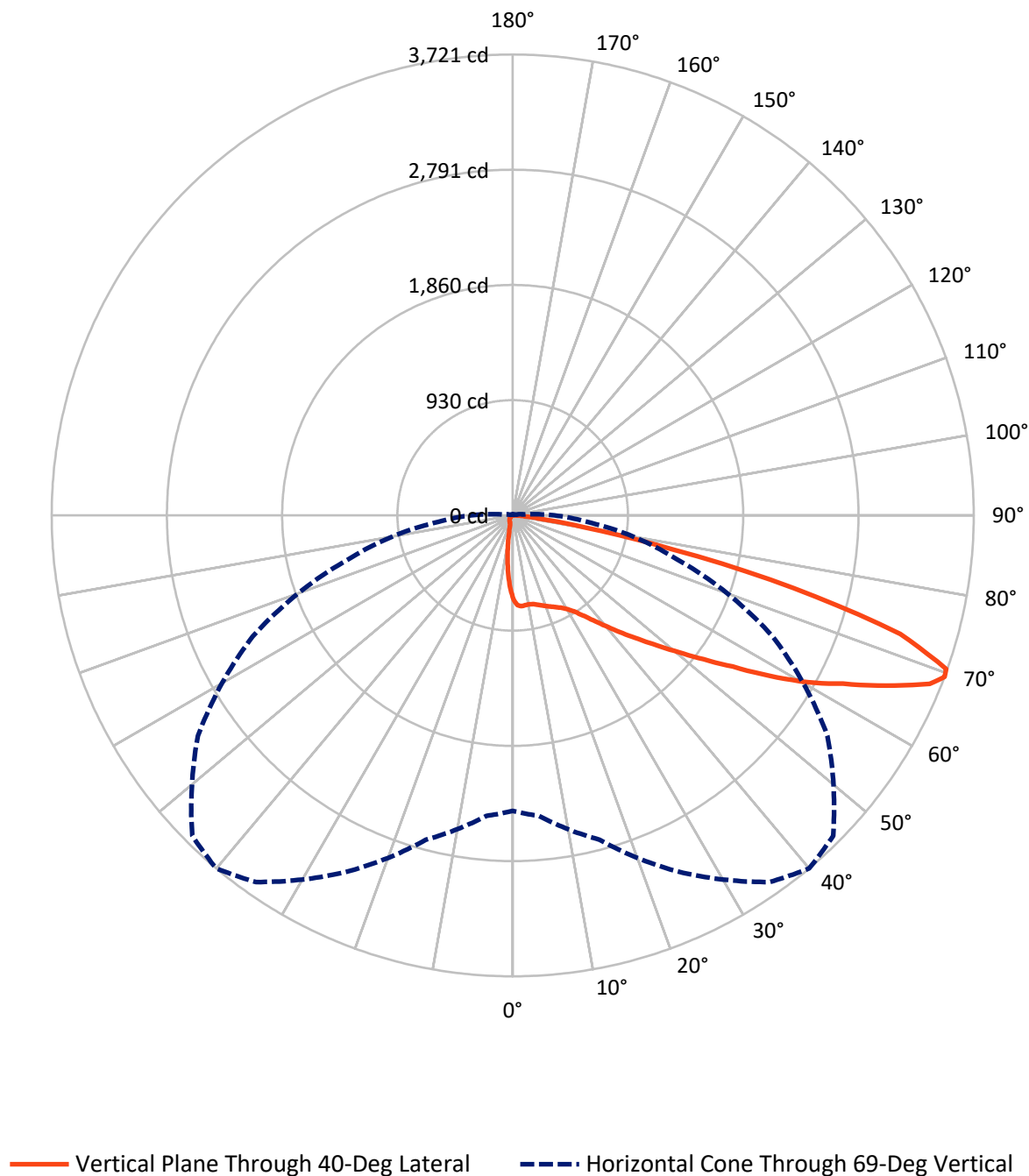


Based on 10 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P193759

CATALOG NUMBER: GAN-AF-01-LED-U-SL4-8030-1200-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P193759

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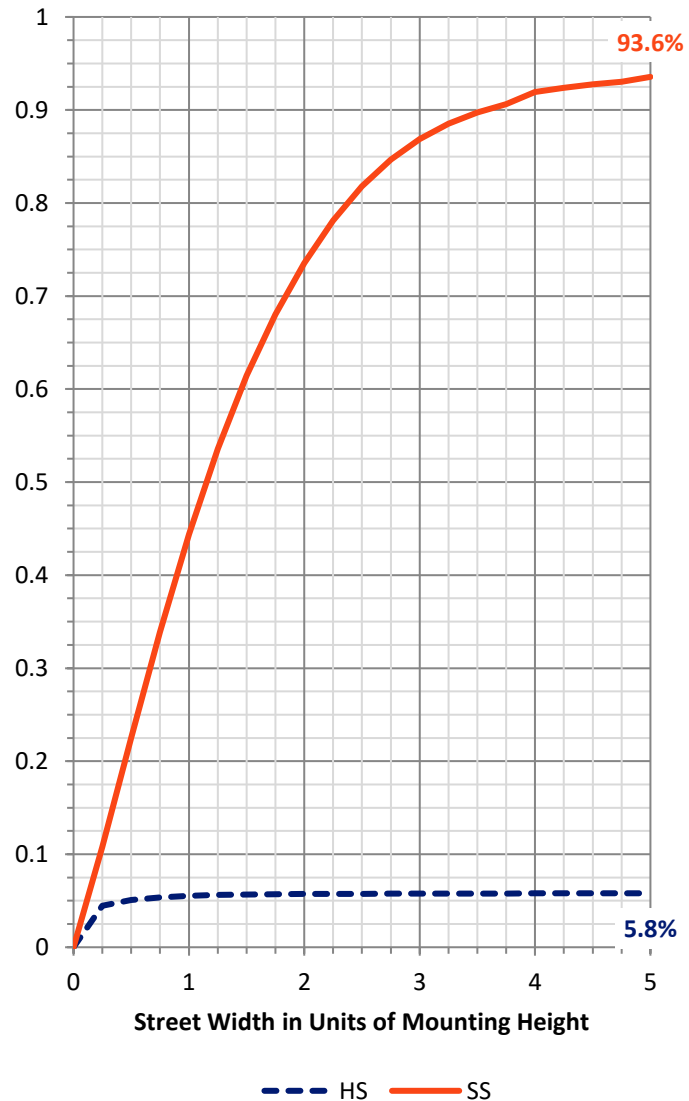
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	264.9	0.0	264.9
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	4263.1	0.0	4263.1
	% Fixture	94.1	0.0	94.1
Total	Lumens	4528.0	0.0	4528.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.9	1.2
10°-20°	134.9	3.0
20°-30°	227.2	5.0
30°-40°	371.9	8.2
40°-50°	644.0	14.2
50°-60°	1014.4	22.4
60°-70°	1324.7	29.3
70°-80°	682.3	15.1
80°-90°	73.8	1.6
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°	4528.0	100.0
0°-180°	4528.0	100.0



REPORT NUMBER: P193759

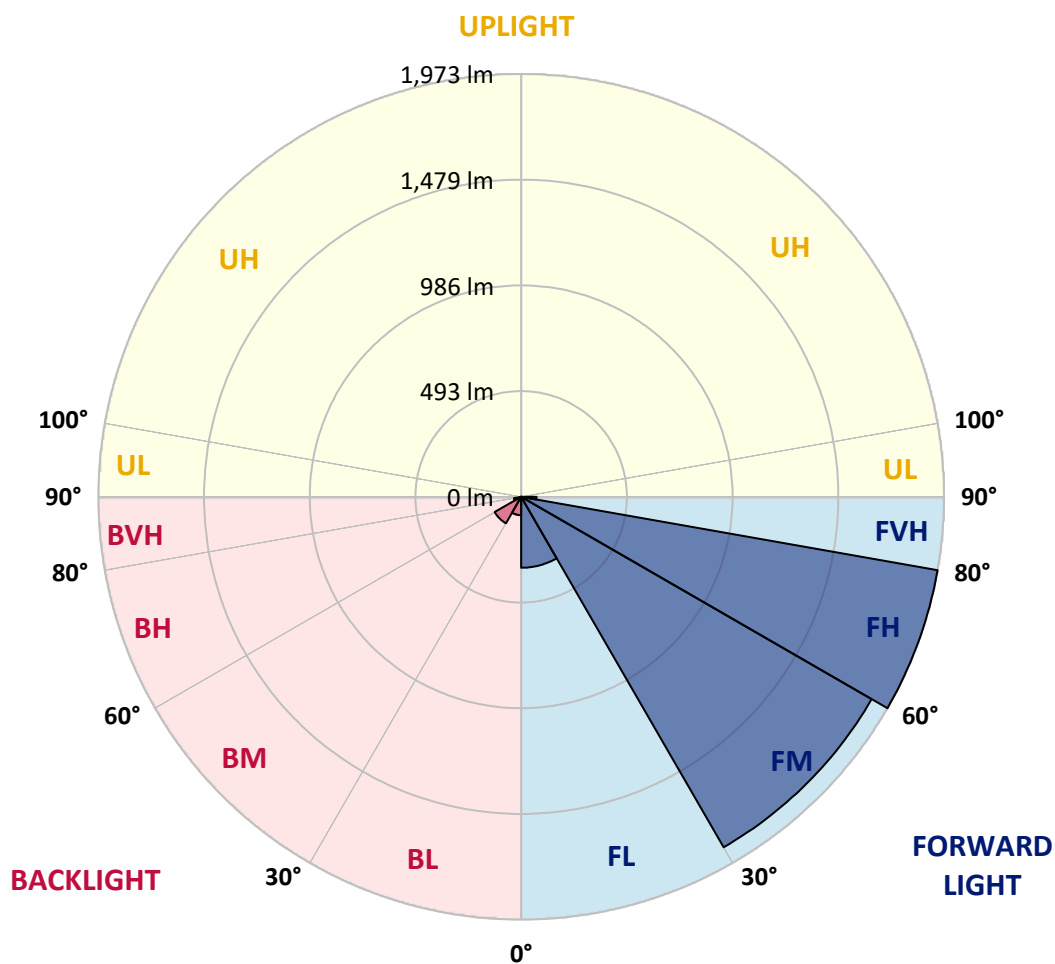
CATALOG NUMBER: GAN-AF-01-LED-U-SL4-8030-1200-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	331.1	7.3			
FM	(30°-60°)	1887.9	41.7			
FH	(60°-80°)	1972.6	43.6			G2/5000
FVH	(80°-90°)	71.5	1.6			G1/100
BL	(0°-30°)	85.8	1.9	B0/110		
BM	(30°-60°)	142.4	3.1	B0/220		
BH	(60°-80°)	34.4	0.8	B0/110		G0/110
BVH	(80°-90°)	2.3	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type IV Short





REPORT NUMBER: P193759

CATALOG NUMBER: GAN-AF-01-LED-U-SL4-8030-1200-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	676.5	676.5	676.5	676.5	676.5	676.5	676.5	676.5	676.5	676.5	676.5
2.5°	742.8	738.8	736.3	733.1	729.1	725.6	724.2	714.2	704.8	691.9	677.0
5°	756.6	755.2	750.9	746.6	741.7	736.3	733.4	721.5	708.0	689.2	663.3
7.5°	757.9	756.3	750.9	745.0	738.2	731.8	726.6	714.8	702.4	683.2	651.7
10°	755.7	753.9	749.8	743.3	735.0	728.8	723.7	712.4	701.8	684.6	649.6
12.5°	753.3	751.4	749.5	746.3	739.0	734.7	730.4	719.6	710.2	695.6	657.4
15°	755.7	754.7	756.8	755.5	751.4	747.7	743.3	733.6	725.0	712.9	671.7
17.5°	766.0	766.0	772.7	773.5	769.8	764.4	758.2	748.5	741.2	731.0	688.6
20°	790.0	789.2	797.8	799.4	790.2	781.9	772.7	760.9	755.2	748.7	705.3
22.5°	831.2	827.4	832.6	830.9	812.9	799.9	788.6	774.1	771.1	768.1	723.9
25°	884.8	882.7	886.2	870.3	838.5	821.0	807.5	791.1	791.1	794.0	745.0
27.5°	962.7	954.7	942.8	914.8	867.1	844.7	830.1	812.6	817.2	828.2	772.7
30°	1042.5	1033.6	1006.4	963.3	901.8	878.4	861.4	843.1	853.9	874.1	809.9
32.5°	1121.2	1111.2	1072.7	1018.3	951.7	928.2	911.8	891.6	909.6	943.6	864.4
35°	1197.5	1188.6	1144.1	1080.0	1018.0	998.6	983.5	966.0	989.2	1036.6	941.2
37.5°	1283.2	1273.5	1219.3	1149.8	1098.6	1084.6	1073.5	1056.0	1096.4	1166.0	1048.2
40°	1388.6	1372.1	1299.1	1229.8	1191.8	1185.1	1177.6	1175.1	1237.9	1334.1	1190.8
42.5°	1509.3	1482.4	1382.7	1314.2	1294.3	1299.1	1297.2	1308.0	1415.0	1543.3	1364.3
45°	1630.1	1595.3	1475.6	1404.2	1406.9	1423.9	1434.4	1477.5	1636.8	1783.2	1551.1
47.5°	1732.5	1698.3	1564.9	1501.5	1533.9	1567.3	1595.9	1677.5	1864.8	2019.3	1696.4
50°	1820.1	1787.8	1659.5	1608.5	1681.3	1735.2	1781.6	1902.6	2110.1	2199.1	1798.3
52.5°	1891.8	1870.2	1757.6	1731.2	1849.7	1928.7	1996.6	2141.6	2327.3	2345.1	1877.5
55°	1961.6	1946.2	1863.0	1877.0	2047.6	2155.1	2241.1	2395.3	2514.4	2467.0	1953.5
57.5°	2041.9	2027.9	1983.2	2061.9	2307.7	2443.0	2536.8	2620.0	2679.1	2591.5	2025.2
60°	2123.9	2115.8	2116.8	2267.2	2606.3	2736.2	2788.0	2809.5	2840.8	2708.7	2029.2
62.5°	2202.0	2217.4	2269.7	2495.8	2892.3	2992.0	3018.1	3039.4	3002.8	2727.3	1874.8
65°	2334.4	2359.4	2484.2	2801.7	3206.8	3313.5	3340.5	3267.4	3028.4	2486.9	1525.0
67.5°	2399.0	2444.9	2667.5	3086.9	3511.9	3630.5	3620.5	3282.3	2717.6	1896.4	978.6
69°	2385.6	2434.3	2709.8	3174.2	3613.2	3720.8	3657.4	3100.9	2315.2	1373.8	600.8
70°	2332.2	2381.5	2688.0	3171.0	3626.2	3711.4	3589.0	2876.9	1957.6	1004.5	375.7
72.5°	1947.6	1990.2	2386.4	2866.1	3340.5	3271.2	3002.5	1993.1	953.8	273.6	84.6
75°	1198.8	1222.6	1712.3	2159.2	2523.0	2345.1	2000.4	991.6	284.3	77.4	46.9
77.5°	633.4	644.2	937.4	1272.7	1599.4	1323.4	1025.3	386.8	131.0	48.5	34.0
80°	374.4	382.5	504.8	581.9	692.1	578.1	409.9	237.5	93.8	30.5	30.2
82.5°	214.3	219.4	366.0	323.4	272.8	232.9	204.0	225.1	56.3	20.5	31.3
85°	78.7	79.8	205.9	246.1	162.3	96.5	101.3	186.5	15.1	12.9	24.5
87.5°	36.7	35.8	105.9	150.7	94.9	61.2	79.0	41.0	5.9	8.4	6.7
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: P193759

CATALOG NUMBER: GAN-AF-01-LED-U-SL4-8030-1200-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	676.5	676.5	676.5	676.5	676.5	676.5	676.5	676.5	676.5	676.5	676.5
2.5°	668.4	658.4	640.4	621.8	602.9	588.4	574.1	562.8	559.0	552.0	552.5
5°	647.9	629.6	591.9	553.6	513.7	480.8	449.8	424.8	412.6	400.2	400.2
7.5°	630.1	603.5	544.4	482.2	417.8	363.6	314.8	278.1	257.9	241.8	241.5
10°	623.4	587.3	504.8	415.6	325.9	252.0	194.1	156.9	137.7	125.3	124.8
12.5°	626.4	581.6	474.4	354.2	241.5	162.0	112.4	88.4	80.3	76.5	76.5
15°	635.0	580.0	443.9	294.1	170.6	101.3	74.7	68.2	67.7	67.7	67.7
17.5°	645.5	580.6	412.6	235.6	116.2	72.5	64.4	63.6	64.1	64.1	64.1
20°	656.3	580.8	379.0	181.4	81.9	63.1	60.6	60.4	60.9	60.9	61.2
22.5°	669.5	582.2	345.3	135.6	67.7	59.6	57.7	57.7	57.9	57.9	57.7
25°	684.6	584.9	310.2	100.5	61.7	57.1	55.5	55.3	55.5	55.3	55.0
27.5°	703.5	588.6	271.1	78.7	59.0	54.7	53.4	53.4	53.1	52.8	52.6
30°	727.2	593.0	227.2	66.8	56.3	52.6	51.2	50.9	50.7	50.1	50.1
32.5°	763.3	602.4	183.8	60.6	53.4	49.6	48.5	48.5	48.0	47.4	47.2
35°	818.8	621.0	145.0	56.9	50.1	46.4	45.0	45.0	44.5	44.2	43.9
37.5°	895.6	649.3	112.7	53.4	46.9	42.9	41.5	41.2	40.7	40.2	39.9
40°	997.8	684.3	88.7	50.1	43.7	39.4	38.3	37.7	36.7	35.8	35.8
42.5°	1126.1	724.2	72.0	46.6	39.9	36.1	35.3	34.5	32.6	31.8	31.5
45°	1260.3	760.1	60.9	42.6	36.1	32.9	32.3	31.0	28.6	27.8	27.8
47.5°	1357.1	768.4	53.6	38.8	32.6	29.4	29.1	26.7	24.5	24.0	23.7
50°	1417.4	752.0	47.7	35.0	29.4	26.1	25.3	22.4	21.0	20.5	20.2
52.5°	1458.1	722.6	42.9	31.8	26.4	23.2	21.3	19.1	18.1	17.5	17.5
55°	1490.7	681.1	38.0	28.8	24.0	20.8	18.1	16.4	15.4	14.8	14.8
57.5°	1499.9	624.8	33.2	26.4	21.6	18.3	15.4	14.3	12.9	12.7	12.7
60°	1433.3	523.1	29.4	23.4	19.4	15.9	13.5	12.1	10.8	10.5	10.2
62.5°	1257.9	404.8	25.9	20.8	17.0	13.7	11.6	10.0	8.9	8.9	8.9
65°	959.5	271.4	22.6	18.1	14.8	11.6	10.0	8.1	7.5	7.5	7.8
67.5°	574.4	147.7	19.4	15.4	12.7	9.7	8.4	7.0	6.7	7.0	7.0
69°	336.6	86.8	17.5	13.7	11.1	8.6	7.3	6.2	6.7	7.0	7.0
70°	207.8	58.5	16.2	12.4	10.0	7.8	6.7	5.9	6.5	6.7	6.7
72.5°	57.9	30.2	12.9	9.7	8.1	6.5	5.4	5.4	6.2	6.5	6.5
75°	37.7	22.4	10.0	7.3	6.2	5.1	4.6	5.1	5.9	6.2	6.2
77.5°	31.3	18.3	8.1	5.9	5.1	4.9	4.3	4.6	5.4	5.7	5.7
80°	28.6	12.9	6.5	5.4	4.6	4.3	4.0	3.8	4.9	5.1	5.1
82.5°	27.2	10.2	5.7	4.9	4.3	3.8	3.5	3.8	4.3	4.6	4.9
85°	17.0	6.7	5.1	4.6	3.8	3.5	3.5	3.5	4.0	4.3	4.3
87.5°	6.2	5.4	4.6	3.8	3.2	3.2	3.2	3.2	3.5	4.0	4.0
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)