

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: P200022

Luminaire Tested: **GAP-AF-02-LED-U-T2R-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200022
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: GAP-AF-02-LED-U-T2R-7030-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10113 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 86
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



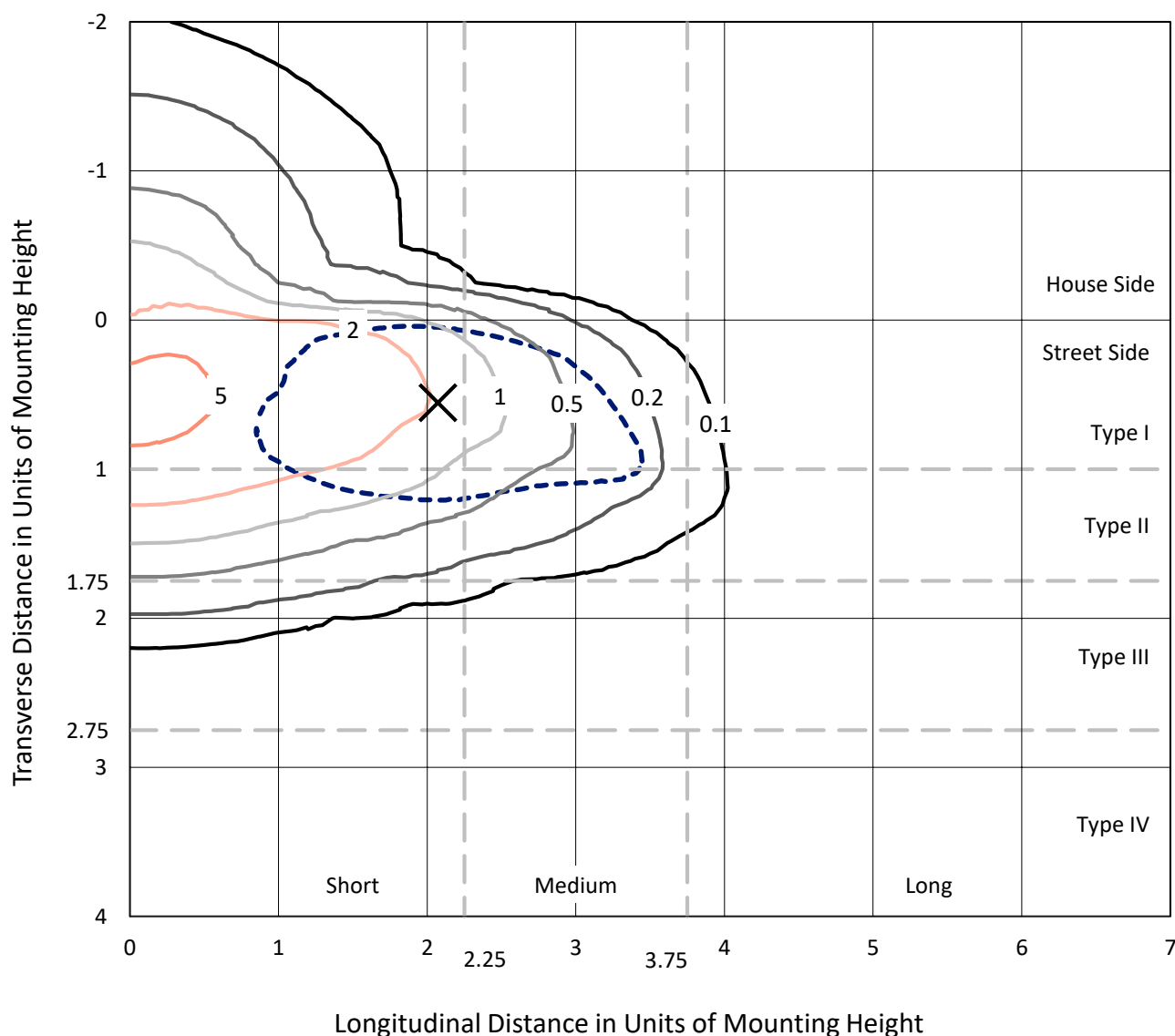
REPORT NUMBER: P200022

CATALOG NUMBER: GAP-AF-02-LED-U-T2R-7030-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

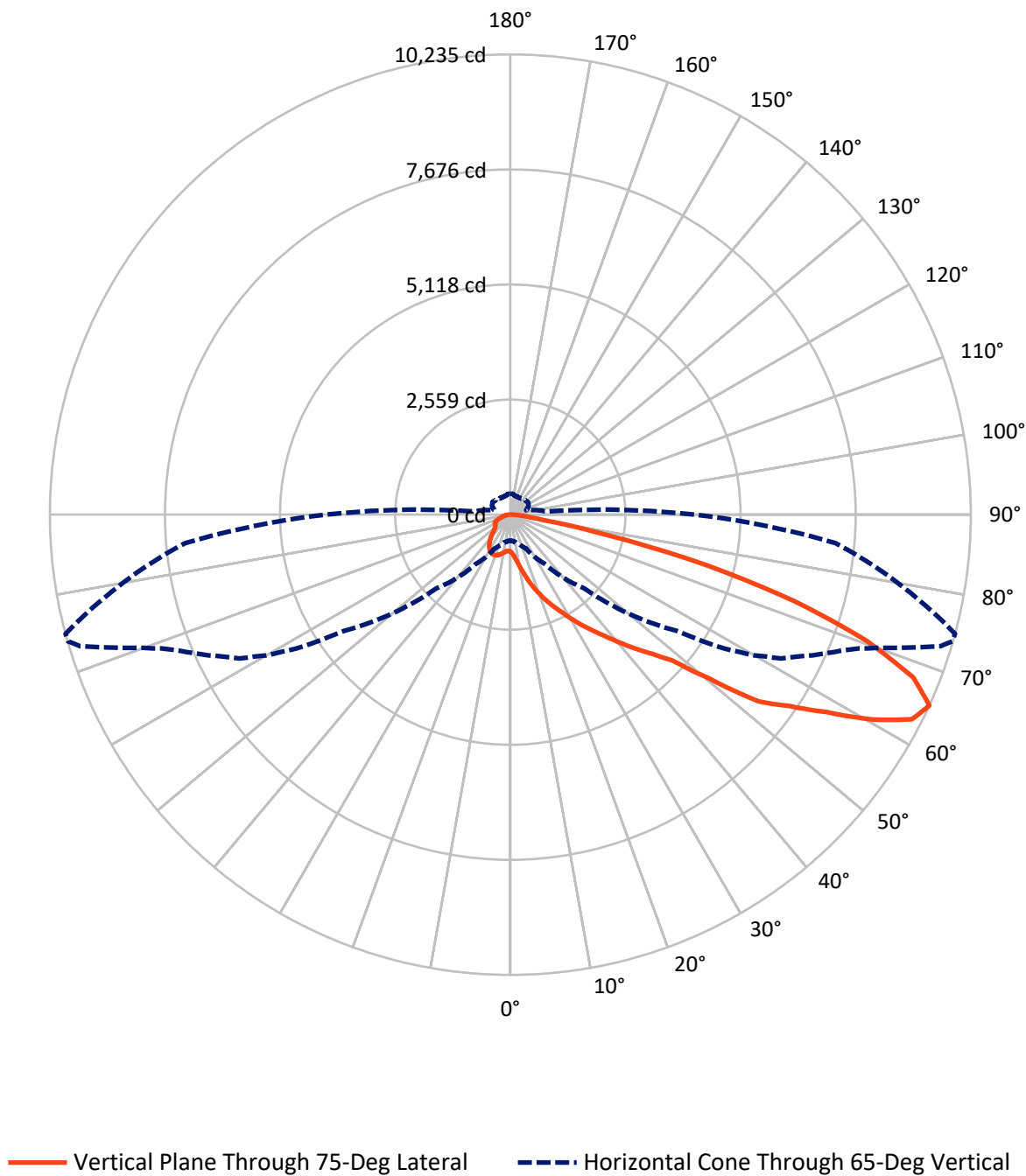


Based on 20 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P200022

CATALOG NUMBER: GAP-AF-02-LED-U-T2R-7030-800

Luminous Intensity Polar Plot



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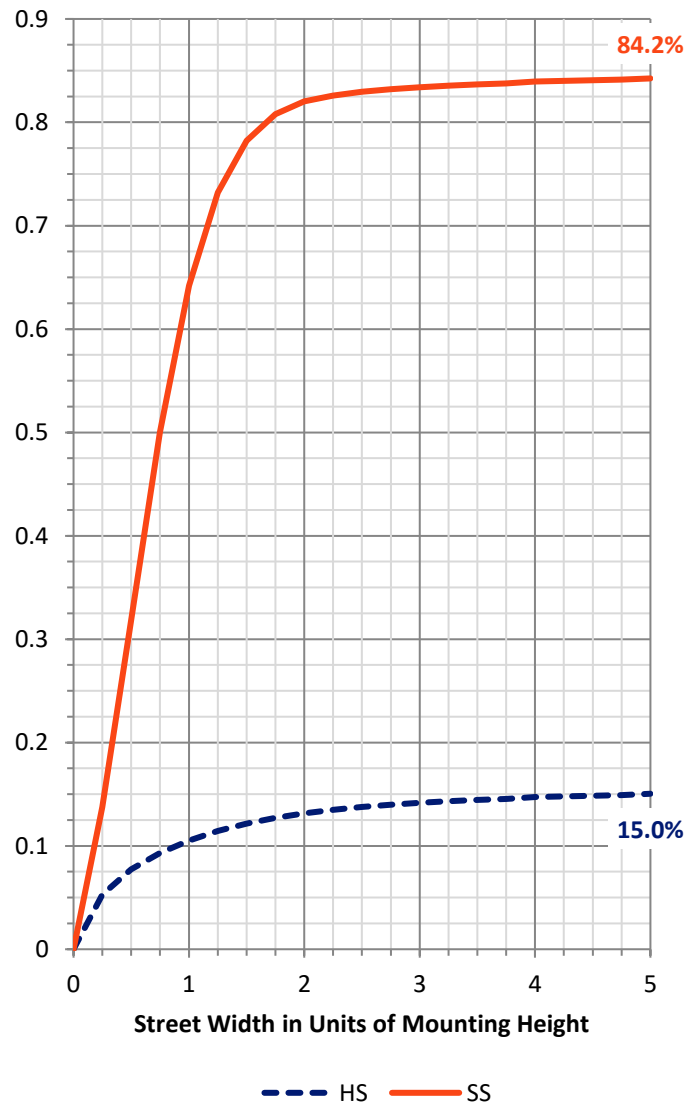
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1559.2	0.0	1559.2
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	8553.8	0.0	8553.8
	% Fixture	84.6	0.0	84.6
Total	Lumens	10113.0	0.0	10113.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.6	1.0
10°-20°	396.9	3.9
20°-30°	814.4	8.1
30°-40°	1370.1	13.5
40°-50°	1893.1	18.7
50°-60°	2363.2	23.4
60°-70°	2126.6	21.0
70°-80°	891.4	8.8
80°-90°	155.7	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°	10113.0	100.0
0°-180°	10113.0	100.0

Coefficient of Utilization



REPORT NUMBER: P200022

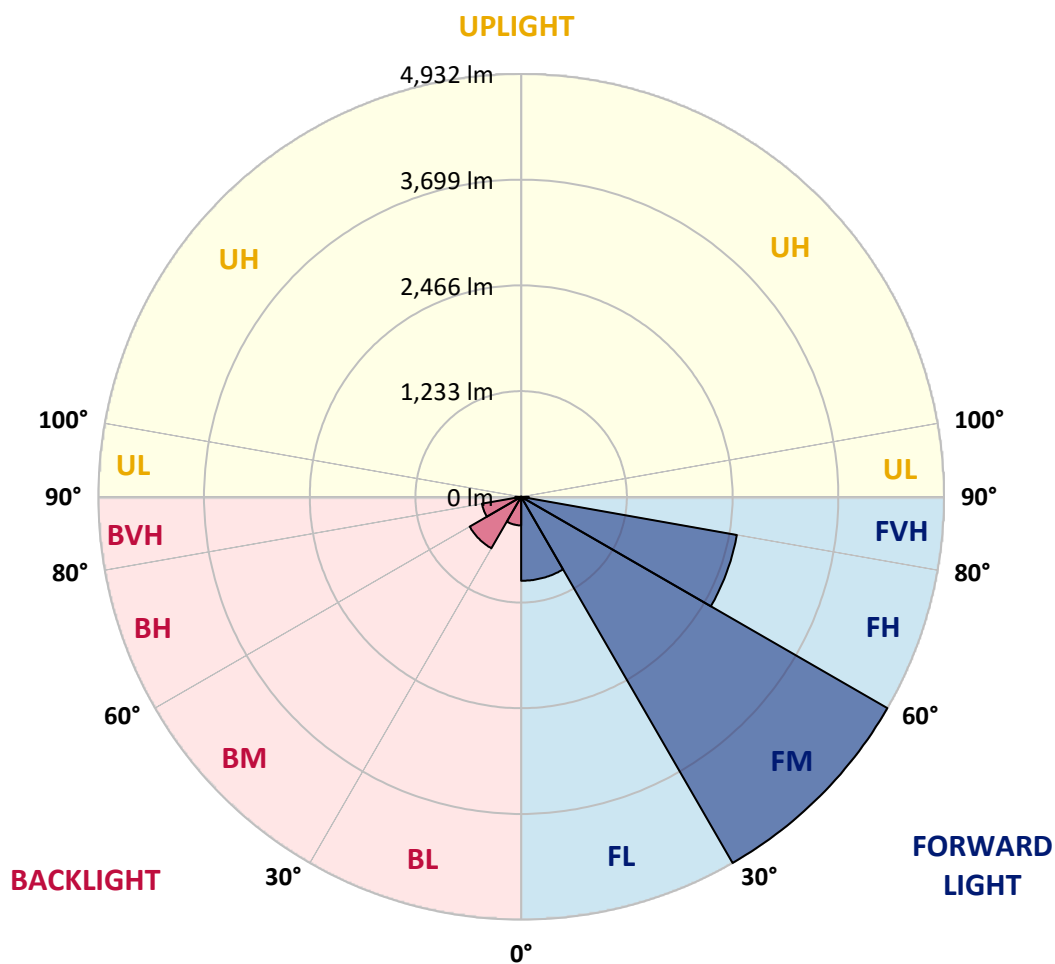
CATALOG NUMBER: GAP-AF-02-LED-U-T2R-7030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	979.4	9.7			
FM	(30°-60°)	4932.4	48.8			
FH	(60°-80°)	2554.5	25.3			G2/5000
FVH	(80°-90°)	87.5	0.9			G1/100
BL	(0°-30°)	333.4	3.3	B1/500		
BM	(30°-60°)	694.0	6.9	B1/1000		
BH	(60°-80°)	463.5	4.6	B1/500		G1/500
BVH	(80°-90°)	68.2	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-G2

Type II Short





REPORT NUMBER: P200022

CATALOG NUMBER: GAP-AF-02-LED-U-T2R-7030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	821.8	821.8	821.8	821.8	821.8	821.8	821.8	821.8	821.8	821.8	821.8
2.5°	1043.5	1032.1	1034.9	1015.8	992.3	961.7	927.6	927.2	927.6	924.4	911.9
5°	1447.0	1433.2	1427.9	1384.8	1321.6	1231.6	1134.0	1123.4	1119.2	1108.1	1082.8
7.5°	1741.4	1733.7	1725.6	1693.1	1635.6	1535.1	1404.0	1381.5	1360.0	1354.6	1326.0
10°	1931.4	1929.5	1912.2	1903.7	1867.8	1780.7	1652.9	1631.4	1607.9	1599.7	1569.5
12.5°	2081.7	2081.3	2073.0	2075.5	2044.4	1981.2	1871.2	1851.5	1834.3	1809.4	1787.8
15°	2185.6	2186.1	2198.1	2211.4	2206.7	2164.1	2060.6	2052.1	2037.2	2019.9	1994.6
17.5°	2270.9	2273.2	2285.7	2310.1	2336.4	2333.0	2251.2	2243.9	2231.1	2207.6	2194.3
20°	2463.2	2472.3	2448.4	2448.4	2451.2	2464.3	2424.9	2419.2	2401.0	2388.5	2378.0
22.5°	2788.3	2798.7	2744.7	2689.6	2635.6	2596.3	2557.1	2564.2	2551.8	2543.2	2537.0
25°	3210.5	3218.6	3131.0	3038.2	2928.0	2784.5	2687.2	2683.0	2676.2	2671.0	2668.1
27.5°	3607.7	3611.1	3528.3	3392.4	3264.5	3058.2	2819.3	2814.1	2806.0	2796.0	2787.3
30°	3947.6	3946.7	3861.4	3731.7	3594.8	3366.5	3019.9	3003.6	2979.7	2952.4	2931.4
32.5°	4242.0	4240.6	4147.2	4012.6	3869.1	3671.8	3294.7	3261.2	3223.8	3170.7	3138.7
35°	4473.6	4472.7	4384.6	4244.4	4079.7	3959.5	3609.7	3568.5	3521.1	3449.8	3400.4
37.5°	4561.2	4561.2	4512.0	4416.3	4270.7	4188.4	3959.5	3909.8	3859.0	3778.1	3722.6
40°	4510.0	4511.0	4521.4	4503.7	4432.9	4369.9	4286.0	4256.3	4212.8	4140.1	4082.2
42.5°	4338.1	4343.5	4413.3	4499.1	4534.5	4524.4	4575.6	4562.2	4531.5	4475.6	4429.6
45°	4120.3	4136.7	4213.2	4375.1	4562.6	4657.9	4818.4	4819.8	4814.0	4783.8	4748.4
47.5°	3821.3	3844.2	3945.3	4164.0	4496.7	4787.6	5064.8	5077.8	5089.8	5070.0	5053.8
50°	3423.9	3451.2	3602.5	3892.6	4362.1	4922.1	5530.6	5588.9	5643.6	5636.8	5647.8
52.5°	2998.4	3030.5	3215.7	3538.8	4131.0	4953.3	5828.3	5923.6	6018.8	6096.7	6179.6
55°	2614.5	2597.3	2782.5	3122.8	3750.9	4813.1	6095.9	6210.8	6317.1	6412.8	6511.3
57.5°	2094.2	2122.5	2308.1	2644.6	3247.7	4417.2	6280.1	6448.2	6600.9	6759.4	6899.0
60°	1530.8	1559.0	1760.6	2102.3	2701.7	3817.0	6139.4	6394.1	6638.7	6881.3	7070.9
62.5°	924.4	945.4	1122.9	1448.4	2083.1	3105.1	5512.3	5846.5	6206.5	6496.5	6787.0
65°	575.4	587.4	653.0	831.9	1337.9	2318.2	4503.7	4868.0	5255.8	5623.9	5925.9
67.5°	471.0	475.3	487.3	525.5	734.8	1511.6	3352.2	3674.7	4024.7	4380.8	4716.8
70°	423.6	420.7	420.7	423.2	471.0	812.8	2194.7	2404.8	2696.3	3006.0	3313.4
72.5°	382.4	379.5	374.3	367.1	384.4	495.9	1134.4	1292.9	1503.1	1778.3	2072.6
75°	343.7	339.9	333.7	324.5	336.5	374.3	544.7	611.3	713.7	860.2	1024.3
77.5°	303.5	298.8	293.0	286.3	301.5	291.0	319.2	343.2	382.4	429.4	491.1
80°	258.0	253.7	251.8	248.4	266.6	221.6	225.4	240.3	263.4	288.7	317.4
82.5°	202.0	202.0	209.7	211.1	231.2	159.4	168.5	181.4	193.4	206.8	220.1
85°	133.1	134.1	159.8	169.9	182.4	107.2	126.4	130.7	140.3	147.9	153.6
87.5°	41.6	45.1	97.7	108.1	104.8	60.7	77.6	79.4	86.2	91.4	96.2
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: P200022

CATALOG NUMBER: GAP-AF-02-LED-U-T2R-7030-800

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	821.8	821.8	821.8	821.8	821.8	821.8	821.8	821.8	821.8	821.8	821.8
2.5°	911.9	906.1	900.9	900.4	896.6	891.3	893.2	885.1	885.5	881.2	876.5
5°	1072.3	1068.4	1049.2	1044.0	1029.7	1020.5	1019.1	999.9	997.5	986.5	974.6
7.5°	1302.9	1290.5	1263.7	1250.8	1226.3	1208.2	1199.5	1174.2	1161.8	1133.0	1120.1
10°	1544.7	1528.9	1495.9	1477.6	1454.2	1425.0	1409.2	1372.3	1358.0	1331.7	1300.0
12.5°	1768.7	1752.8	1718.8	1705.0	1674.0	1642.8	1625.6	1583.9	1565.2	1523.2	1498.3
15°	1976.0	1960.1	1930.5	1916.1	1885.0	1859.6	1836.6	1795.4	1773.5	1734.3	1701.7
17.5°	2177.0	2160.3	2134.4	2121.5	2091.3	2065.4	2040.5	2001.8	1979.3	1940.0	1910.8
20°	2363.8	2351.3	2332.5	2315.3	2285.1	2261.6	2232.0	2198.6	2165.9	2137.2	2109.5
22.5°	2526.4	2521.6	2501.5	2493.9	2468.0	2448.0	2422.1	2389.1	2365.6	2329.2	2303.4
25°	2666.7	2665.3	2655.6	2653.3	2635.2	2615.8	2610.2	2582.9	2561.4	2529.3	2502.5
27.5°	2787.3	2788.8	2786.3	2793.0	2788.3	2779.7	2780.1	2771.1	2758.6	2731.8	2708.3
30°	2921.4	2913.6	2918.0	2927.6	2930.5	2931.4	2947.2	2952.4	2951.5	2933.7	2922.2
32.5°	3110.8	3092.7	3075.9	3074.5	3084.1	3087.8	3114.8	3128.6	3140.5	3144.9	3146.7
35°	3352.6	3316.2	3281.3	3262.6	3246.3	3250.7	3269.8	3292.3	3318.6	3336.8	3358.3
37.5°	3657.0	3612.5	3550.8	3506.7	3495.7	3471.8	3484.3	3502.0	3527.8	3556.1	3593.4
40°	4026.1	3958.6	3889.2	3830.8	3799.2	3755.1	3754.7	3751.3	3767.2	3793.5	3846.2
42.5°	4381.3	4321.4	4247.7	4186.5	4145.3	4086.4	4074.5	4043.3	4050.5	4073.5	4124.7
45°	4714.0	4664.6	4619.7	4548.8	4513.8	4450.2	4430.1	4393.2	4372.7	4383.2	4434.4
47.5°	5036.1	5004.5	4957.6	4911.6	4884.9	4827.8	4802.1	4775.7	4749.4	4748.4	4802.1
50°	5664.1	5647.4	5591.8	5544.0	5556.9	5487.0	5491.3	5420.5	5452.6	5456.4	5568.8
52.5°	6254.3	6312.7	6353.9	6404.1	6436.7	6442.9	6464.5	6496.5	6535.4	6612.0	6716.2
55°	6592.2	6665.5	6708.1	6746.4	6809.6	6823.0	6858.9	6901.5	6935.4	7021.6	7110.1
57.5°	6993.9	7129.8	7195.9	7256.7	7341.9	7374.5	7434.2	7480.7	7524.6	7626.7	7733.9
60°	7241.3	7406.9	7541.5	7637.7	7744.4	7821.0	7911.5	7984.2	8087.6	8209.6	8369.6
62.5°	7044.6	7287.8	7466.3	7631.4	7776.5	7922.9	8052.6	8188.7	8345.7	8530.4	8778.3
65°	6261.0	6508.5	6814.4	6985.7	7177.7	7403.6	7600.8	7821.0	8034.9	8304.0	8670.6
67.5°	5040.4	5328.1	5671.7	5844.6	6065.2	6317.5	6538.6	6807.6	7057.5	7383.5	7836.8
70°	3633.1	4005.0	4294.1	4474.6	4732.1	4992.0	5205.5	5518.5	5725.4	6059.5	6528.1
72.5°	2300.5	2594.0	2948.2	3175.5	3404.3	3667.7	3885.8	4155.7	4348.7	4653.2	5077.8
75°	1237.0	1453.2	1764.4	1980.3	2225.4	2450.3	2706.0	2886.8	3029.5	3270.2	3615.0
77.5°	579.6	711.3	868.8	1034.9	1201.0	1374.3	1542.7	1689.2	1750.6	1888.3	2091.8
80°	351.9	394.4	440.5	491.5	561.0	617.0	691.2	744.8	748.7	792.2	854.4
82.5°	235.0	250.9	264.7	277.6	295.3	309.2	325.0	343.7	351.4	361.4	381.6
85°	160.4	168.0	170.9	179.0	177.1	181.9	188.2	194.4	197.6	197.2	206.3
87.5°	98.6	102.4	104.4	106.3	104.8	102.9	105.8	109.2	110.2	107.2	108.1
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: P200022

CATALOG NUMBER: GAP-AF-02-LED-U-T2R-7030-800

CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	821.8	821.8	821.8	821.8	821.8	821.8	821.8	821.8	821.8	821.8	821.8
2.5°	877.4	873.1	868.8	865.9	865.0	839.5	828.6	821.4	806.2	793.7	783.6
5°	967.8	958.7	951.6	943.0	938.2	874.1	850.6	834.3	807.5	791.7	777.4
7.5°	1113.4	1088.0	1073.2	1056.4	1042.2	926.2	887.4	862.0	824.8	803.7	787.4
10°	1278.6	1252.2	1228.7	1203.0	1180.4	995.7	939.2	899.9	850.6	823.3	801.8
12.5°	1462.9	1437.0	1407.3	1374.3	1345.5	1083.8	1005.1	949.3	881.7	845.3	815.2
15°	1680.6	1635.2	1599.2	1561.0	1527.5	1189.1	1082.3	1004.7	914.7	865.5	825.2
17.5°	1883.1	1835.2	1786.4	1752.8	1714.2	1307.3	1159.8	1061.2	942.1	878.3	827.1
20°	2080.8	2028.6	1986.5	1941.5	1900.8	1429.7	1242.6	1110.9	959.8	878.9	815.2
22.5°	2255.0	2222.5	2175.6	2126.7	2085.5	1552.3	1320.2	1153.1	966.4	867.8	794.1
25°	2453.2	2418.7	2361.3	2320.1	2274.1	1677.2	1396.4	1185.7	962.6	847.2	761.5
27.5°	2664.8	2626.5	2567.6	2524.6	2468.9	1806.9	1466.1	1209.2	948.3	813.8	718.1
30°	2885.4	2850.5	2792.5	2749.0	2693.0	1944.4	1544.2	1224.9	919.5	767.3	667.2
32.5°	3122.4	3093.1	3035.8	2990.2	2930.5	2093.2	1616.9	1229.7	875.9	712.3	613.7
35°	3347.3	3327.3	3278.9	3236.3	3174.1	2234.0	1694.1	1227.3	824.3	651.9	564.9
37.5°	3600.5	3588.6	3564.7	3510.6	3434.4	2424.9	1786.4	1217.2	761.1	592.0	527.5
40°	3870.5	3871.5	3845.6	3808.8	3738.0	2656.6	1896.5	1197.6	692.1	539.4	493.6
42.5°	4156.3	4171.2	4158.7	4132.4	4064.5	2890.2	2028.2	1173.7	625.2	488.3	460.0
45°	4483.7	4501.9	4521.0	4482.3	4416.3	3198.4	2201.3	1142.7	552.9	445.7	437.0
47.5°	4861.4	4890.1	4907.4	4907.8	4841.8	3580.4	2482.9	1124.0	488.7	417.0	426.0
50°	5658.3	5667.5	5708.1	5778.9	5728.3	4464.6	2974.5	1112.5	445.1	399.3	417.9
52.5°	6806.8	6906.8	6977.1	6972.3	6903.4	5026.0	3245.4	1053.0	419.3	392.5	414.1
55°	7274.4	7399.2	7529.5	7563.9	7510.4	5505.2	3501.4	993.7	406.9	397.2	415.5
57.5°	7897.6	8108.2	8286.8	8361.9	8284.4	6118.4	3838.5	962.6	403.0	410.3	424.6
60°	8625.7	8886.0	9120.6	9255.6	9255.6	6823.0	4187.9	949.7	397.8	429.4	439.9
62.5°	9093.3	9475.7	9829.9	10027.7	10022.0	7313.6	4342.9	905.6	385.8	442.7	461.0
65°	9095.2	9550.0	10001.4	10223.5	10235.0	7253.2	4086.9	799.9	363.9	444.6	482.1
67.5°	8337.0	8821.9	9348.0	9596.4	9653.8	6677.0	3537.9	657.7	327.9	425.6	489.7
70°	7041.2	7514.7	8051.8	8295.8	8397.7	5691.9	2849.5	507.0	281.9	383.4	473.8
72.5°	5547.3	6011.7	6385.4	6564.0	6643.5	4350.6	2075.1	383.0	231.2	323.1	431.2
75°	3927.6	4276.0	4474.6	4514.4	4526.8	2622.7	1260.9	284.8	190.5	251.3	364.3
77.5°	2216.8	2366.1	2349.8	2367.5	2220.0	1012.4	549.0	203.9	157.0	190.9	282.4
80°	865.5	892.2	838.1	821.4	753.5	376.7	242.2	142.1	125.4	144.5	197.6
82.5°	381.6	394.0	382.4	385.3	368.5	194.4	145.0	102.9	95.7	105.8	131.1
85°	210.1	213.9	213.0	219.3	210.1	77.6	69.0	63.2	66.9	71.8	84.2
87.5°	102.4	103.4	100.1	105.3	101.9	39.3	34.0	35.9	39.3	40.2	40.2
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: P200022

CATALOG NUMBER: GAP-AF-02-LED-U-T2R-7030-800

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	821.8	821.8	821.8	821.8	821.8	821.8
2.5°	776.4	772.6	773.0	772.1	770.2	770.2
5°	769.7	765.9	765.9	765.0	762.5	762.9
7.5°	776.4	770.2	767.8	764.5	761.1	761.1
10°	784.1	773.0	766.4	760.6	756.3	756.3
12.5°	789.8	772.6	761.5	753.9	749.6	749.6
15°	791.7	769.1	753.9	744.8	741.0	740.4
17.5°	785.5	756.3	737.6	727.1	722.3	720.9
20°	766.4	732.8	710.3	698.3	691.7	689.3
22.5°	737.6	699.4	673.0	660.6	651.9	650.5
25°	697.4	656.2	630.4	618.4	613.7	612.2
27.5°	650.5	612.2	590.2	582.6	578.2	577.8
30°	606.0	573.5	557.2	551.4	546.2	545.2
32.5°	564.4	543.8	537.5	529.4	517.1	515.4
35°	534.8	532.7	528.5	510.2	495.0	490.7
37.5°	516.5	534.2	512.2	476.3	465.2	464.4
40°	506.0	519.3	481.5	469.0	470.1	469.0
42.5°	482.1	495.9	482.5	476.8	480.6	481.5
45°	458.2	473.4	489.7	485.8	495.0	495.0
47.5°	444.6	467.6	489.2	489.2	502.6	507.4
50°	429.4	462.8	481.5	488.3	498.8	495.0
52.5°	428.4	454.7	470.6	482.5	487.3	482.9
55°	429.8	448.1	459.6	472.9	478.7	479.1
57.5°	431.8	444.2	451.9	458.2	475.3	475.3
60°	436.6	440.9	445.1	448.5	471.0	471.5
62.5°	444.2	437.5	436.6	439.9	468.6	466.7
65°	456.1	432.6	425.6	428.9	466.2	460.5
67.5°	472.4	425.6	411.7	414.1	464.4	451.9
70°	487.3	414.1	394.4	392.0	446.1	424.2
72.5°	488.7	400.7	370.5	363.3	387.8	366.7
75°	464.8	391.5	344.1	323.1	320.2	317.4
77.5°	418.8	386.3	313.6	280.5	274.8	276.7
80°	350.4	366.7	276.7	237.4	268.6	265.2
82.5°	261.7	323.6	235.0	210.1	209.7	185.2
85°	145.6	252.3	191.4	157.5	109.6	106.3
87.5°	40.7	140.3	134.1	89.0	60.7	63.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)