

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: P200345

Luminaire Tested: **GAP-AF-01-LED-U-T2R-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200345
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-01-LED-U-T2R-7050-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 5000K, 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: 7264 lumens
Efficiency: N/A
Efficacy: 108.4 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 - 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

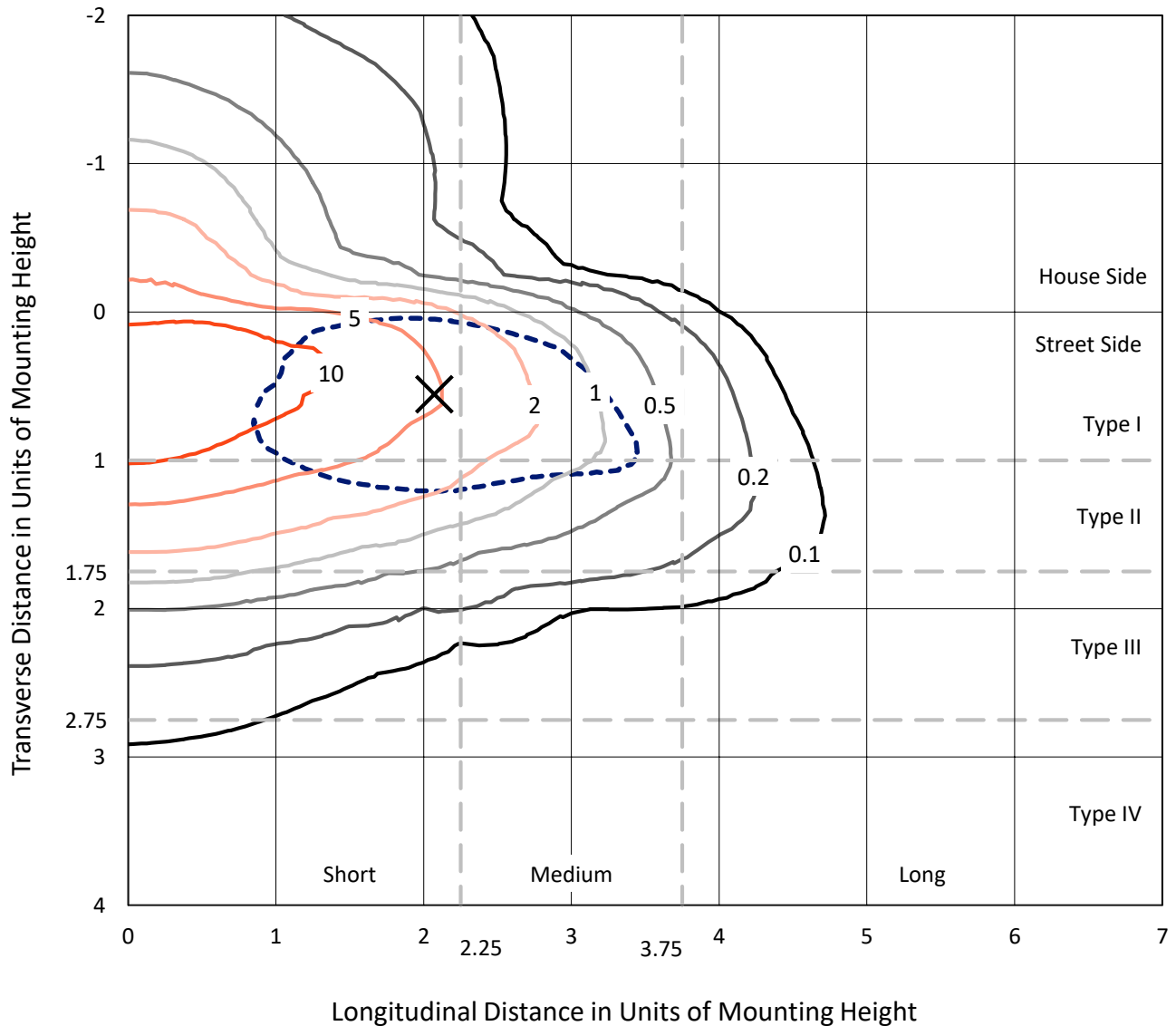


REPORT NUMBER: P200345

CATALOG NUMBER: GAP-AF-01-LED-U-T2R-7050-1200

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

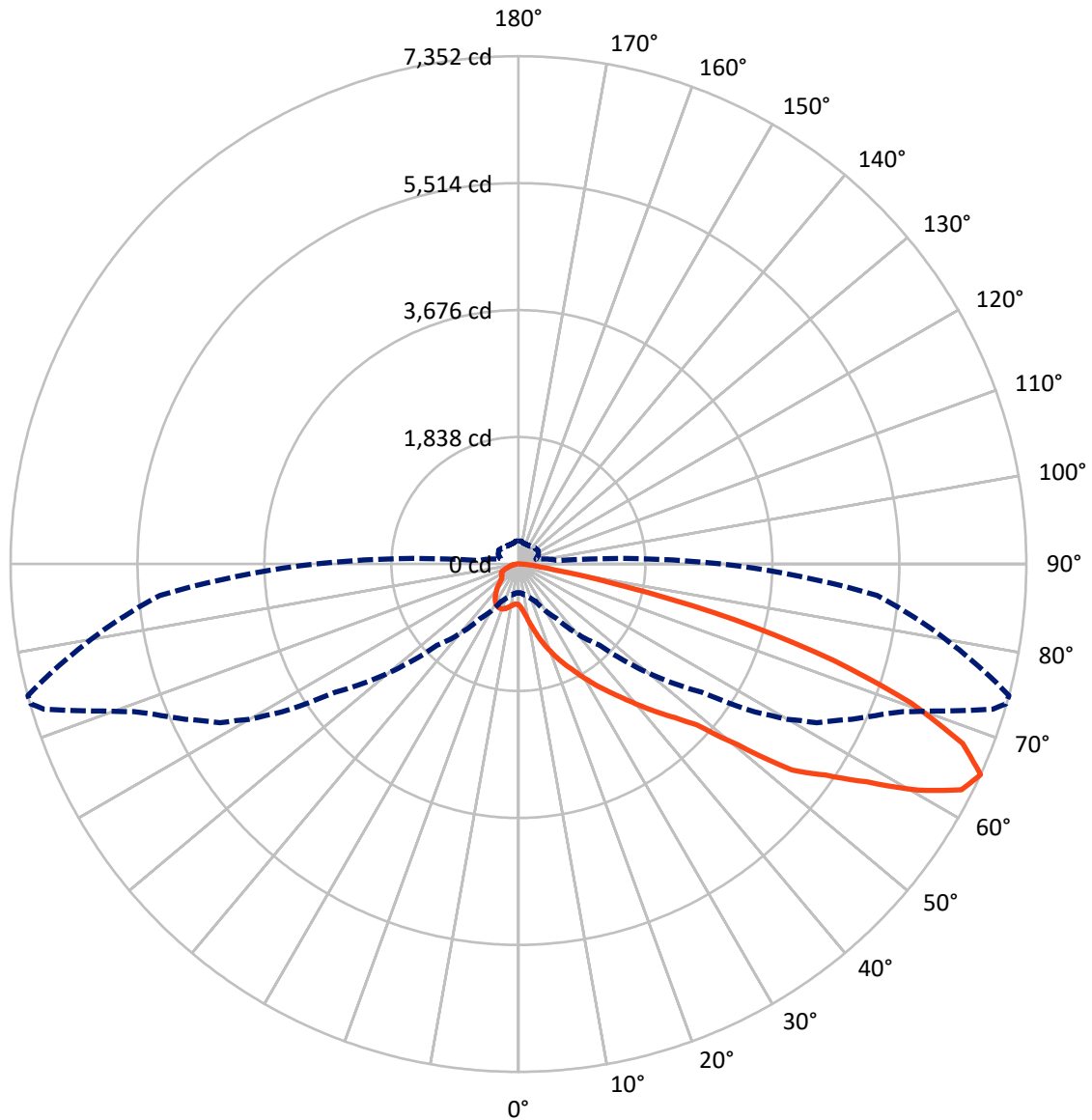


Based on 10 foot mounting height. Maximum calculated value = 18.3 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P200345

CATALOG NUMBER: GAP-AF-01-LED-U-T2R-7050-1200

Luminous Intensity Polar Plot



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



REPORT NUMBER: P200345

CATALOG NUMBER: GAP-AF-01-LED-U-T2R-7050-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1119.9	0.0	1119.9
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	6144.1	0.0	6144.1
	% Fixture	84.6	0.0	84.6
Total	Lumens	7264.0	0.0	7264.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	1.0
10°-20°	285.1	3.9
20°-30°	584.9	8.1
30°-40°	984.1	13.5
40°-50°	1359.8	18.7
50°-60°	1697.4	23.4
60°-70°	1527.5	21.0
70°-80°	640.3	8.8
80°-90°	111.9	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°	7264.0	100.0
0°-180°	7264.0	100.0

Coefficient of Utilization



REPORT NUMBER: P200345

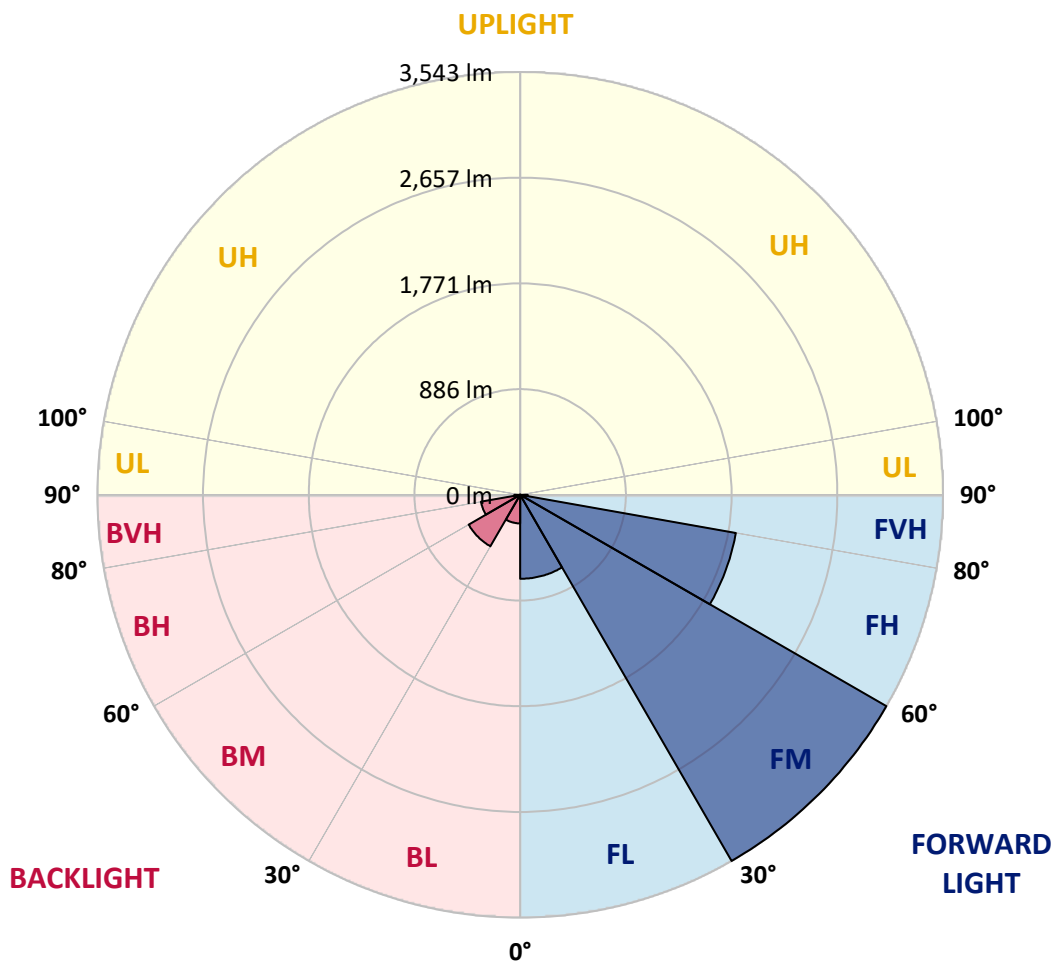
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	703.5	9.7			
FM	(30°-60°)	3542.8	48.8			
FH	(60°-80°)	1834.9	25.3			G2/5000
FVH	(80°-90°)	62.9	0.9			G1/100
BL	(0°-30°)	239.5	3.3	B1/500		
BM	(30°-60°)	498.5	6.9	B1/1000		
BH	(60°-80°)	332.9	4.6	B1/500		G1/500
BVH	(80°-90°)	49.0	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: P200345

CATALOG NUMBER: GAP-AF-01-LED-U-T2R-7050-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3
2.5°	749.5	741.3	743.3	729.6	712.7	690.7	666.3	666.0	666.3	663.9	655.0
5°	1039.4	1029.4	1025.6	994.7	949.3	884.6	814.5	806.9	803.9	795.9	777.7
7.5°	1250.8	1245.3	1239.5	1216.1	1174.8	1102.6	1008.4	992.3	976.8	973.0	952.4
10°	1387.3	1385.9	1373.6	1367.4	1341.6	1279.0	1187.2	1171.7	1154.9	1149.0	1127.4
12.5°	1495.3	1494.9	1489.1	1490.8	1468.5	1423.1	1344.0	1329.9	1317.5	1299.6	1284.2
15°	1569.9	1570.2	1578.8	1588.4	1585.0	1554.4	1480.1	1474.0	1463.3	1450.9	1432.7
17.5°	1631.1	1632.8	1641.7	1659.3	1678.2	1675.8	1617.0	1611.8	1602.5	1585.7	1576.1
20°	1769.3	1775.8	1758.6	1758.6	1760.7	1770.0	1741.8	1737.7	1724.6	1715.7	1708.1
22.5°	2002.8	2010.3	1971.5	1931.9	1893.1	1864.9	1836.7	1841.8	1832.9	1826.7	1822.2
25°	2306.0	2311.8	2248.9	2182.2	2103.1	2000.0	1930.2	1927.1	1922.3	1918.5	1916.5
27.5°	2591.4	2593.8	2534.3	2436.7	2344.9	2196.7	2025.1	2021.3	2015.5	2008.3	2002.1
30°	2835.5	2834.8	2773.6	2680.4	2582.1	2418.1	2169.2	2157.5	2140.3	2120.7	2105.6
32.5°	3046.9	3045.9	2978.9	2882.2	2779.1	2637.4	2366.5	2342.4	2315.6	2277.5	2254.4
35°	3213.3	3212.7	3149.4	3048.7	2930.4	2844.1	2592.7	2563.2	2529.1	2477.9	2442.5
37.5°	3276.3	3276.3	3240.8	3172.1	3067.6	3008.4	2844.1	2808.3	2771.9	2713.8	2673.9
40°	3239.5	3240.2	3247.7	3235.0	3184.1	3138.7	3078.6	3057.2	3026.0	2973.7	2932.1
42.5°	3116.0	3119.8	3170.0	3231.6	3257.0	3249.8	3286.6	3276.9	3254.9	3214.7	3181.7
45°	2959.6	2971.3	3026.3	3142.5	3277.3	3345.7	3460.9	3461.9	3457.8	3436.1	3410.7
47.5°	2744.7	2761.2	2833.8	2990.9	3229.8	3438.9	3638.0	3647.2	3655.8	3641.7	3630.1
50°	2459.3	2478.9	2587.6	2795.9	3133.2	3535.5	3972.5	4014.4	4053.6	4048.8	4056.7
52.5°	2153.7	2176.7	2309.8	2541.9	2967.2	3557.8	4186.4	4254.8	4323.2	4379.2	4438.7
55°	1877.9	1865.6	1998.6	2243.1	2694.2	3457.1	4378.5	4461.1	4537.4	4606.2	4677.0
57.5°	1504.2	1524.5	1657.9	1899.6	2332.8	3172.8	4510.9	4631.6	4741.3	4855.1	4955.5
60°	1099.5	1119.8	1264.6	1510.1	1940.5	2741.6	4409.8	4592.7	4768.4	4942.8	5078.9
62.5°	663.9	679.0	806.6	1040.4	1496.3	2230.4	3959.4	4199.4	4458.0	4666.3	4875.0
65°	413.3	421.9	469.0	597.6	961.0	1665.1	3235.0	3496.6	3775.1	4039.5	4256.5
67.5°	338.3	341.4	350.0	377.5	527.8	1085.8	2407.8	2639.5	2890.8	3146.6	3388.0
70°	304.3	302.2	302.2	303.9	338.3	583.8	1576.4	1727.4	1936.7	2159.2	2379.9
72.5°	274.7	272.6	268.9	263.7	276.1	356.2	814.9	928.7	1079.6	1277.3	1488.7
75°	246.9	244.1	239.6	233.1	241.7	268.9	391.3	439.1	512.6	617.8	735.8
77.5°	218.0	214.5	210.4	205.6	216.6	209.0	229.3	246.5	274.7	308.4	352.8
80°	185.3	182.2	180.8	178.4	191.5	159.2	161.9	172.6	189.1	207.3	228.0
82.5°	145.1	145.1	150.6	151.6	166.1	114.5	121.0	130.3	138.9	148.5	158.2
85°	95.6	96.3	114.8	122.1	131.0	77.0	90.8	93.9	100.7	106.2	110.4
87.5°	29.9	32.3	70.1	77.7	75.3	43.7	55.7	57.1	61.9	65.7	69.1
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: P200345

CATALOG NUMBER: GAP-AF-01-LED-U-T2R-7050-1200

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3
2.5°	655.0	650.9	647.1	646.7	644.0	640.2	641.6	635.7	636.1	633.0	629.5
5°	770.2	767.4	753.7	749.9	739.6	733.0	732.0	718.2	716.5	708.6	700.0
7.5°	935.9	926.9	907.7	898.4	880.9	867.8	861.6	843.4	834.5	813.8	804.5
10°	1109.5	1098.2	1074.4	1061.4	1044.5	1023.6	1012.2	985.7	975.4	956.5	933.8
12.5°	1270.4	1259.1	1234.7	1224.7	1202.3	1180.0	1167.6	1137.7	1124.3	1094.0	1076.2
15°	1419.3	1407.9	1386.6	1376.3	1354.0	1335.7	1319.2	1289.7	1273.9	1245.7	1222.3
17.5°	1563.7	1551.7	1533.1	1523.8	1502.1	1483.6	1465.7	1437.9	1421.7	1393.5	1372.5
20°	1697.8	1688.8	1675.4	1663.1	1641.4	1624.5	1603.2	1579.2	1555.8	1535.2	1515.2
22.5°	1814.7	1811.2	1796.8	1791.3	1772.7	1758.3	1739.7	1716.0	1699.2	1673.0	1654.5
25°	1915.4	1914.4	1907.5	1905.8	1892.7	1879.0	1874.9	1855.3	1839.8	1816.7	1797.5
27.5°	2002.1	2003.1	2001.4	2006.2	2002.8	1996.6	1996.9	1990.4	1981.4	1962.2	1945.3
30°	2098.3	2092.8	2095.9	2102.8	2104.9	2105.6	2116.9	2120.7	2120.0	2107.3	2099.0
32.5°	2234.5	2221.4	2209.4	2208.4	2215.2	2218.0	2237.2	2247.2	2255.8	2258.9	2260.3
35°	2408.1	2382.0	2356.9	2343.5	2331.8	2334.9	2348.6	2364.8	2383.7	2396.8	2412.2
37.5°	2626.8	2594.8	2550.5	2518.8	2510.9	2493.7	2502.7	2515.4	2534.0	2554.2	2581.1
40°	2891.9	2843.4	2793.5	2751.6	2728.9	2697.3	2696.9	2694.5	2705.9	2724.8	2762.6
42.5°	3147.0	3104.0	3051.1	3007.0	2977.5	2935.2	2926.6	2904.2	2909.4	2925.9	2962.7
45°	3385.9	3350.5	3318.2	3267.3	3242.2	3196.5	3182.1	3155.6	3140.8	3148.4	3185.1
47.5°	3617.3	3594.6	3560.9	3527.9	3508.7	3467.8	3449.2	3430.3	3411.4	3410.7	3449.2
50°	4068.4	4056.4	4016.5	3982.1	3991.4	3941.2	3944.3	3893.4	3916.5	3919.2	4000.0
52.5°	4492.4	4534.3	4563.9	4600.0	4623.3	4627.8	4643.3	4666.3	4694.2	4749.2	4824.1
55°	4735.1	4787.7	4818.3	4845.8	4891.2	4900.8	4926.6	4957.2	4981.6	5043.5	5107.1
57.5°	5023.6	5121.2	5168.6	5212.3	5273.5	5296.9	5339.9	5373.2	5404.9	5478.1	5555.1
60°	5201.3	5320.3	5416.9	5486.0	5562.7	5617.7	5682.7	5734.9	5809.2	5896.9	6011.7
62.5°	5060.0	5234.7	5362.9	5481.5	5585.7	5690.9	5784.1	5881.7	5994.5	6127.2	6305.3
65°	4497.2	4674.9	4894.6	5017.7	5155.6	5317.9	5459.5	5617.7	5771.4	5964.6	6228.0
67.5°	3620.4	3827.1	4073.9	4198.0	4356.5	4537.7	4696.6	4889.8	5069.3	5303.4	5629.0
70°	2609.6	2876.7	3084.4	3214.0	3399.0	3585.7	3739.0	3963.9	4112.4	4352.4	4689.0
72.5°	1652.4	1863.2	2117.6	2280.9	2445.2	2634.3	2791.1	2985.0	3123.6	3342.3	3647.2
75°	888.4	1043.8	1267.3	1422.4	1598.4	1760.0	1943.6	2073.6	2176.0	2349.0	2596.5
77.5°	416.4	510.9	624.0	743.3	862.6	987.1	1108.1	1213.3	1257.3	1356.4	1502.5
80°	252.7	283.3	316.3	353.1	403.0	443.2	496.5	535.0	537.7	569.0	613.7
82.5°	168.8	180.2	190.1	199.4	212.1	222.1	233.5	246.9	252.4	259.6	274.0
85°	115.2	120.7	122.7	128.6	127.2	130.7	135.1	139.6	142.0	141.7	148.2
87.5°	70.8	73.6	75.0	76.3	75.3	73.9	76.0	78.4	79.1	77.0	77.7
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: P200345

CATALOG NUMBER: GAP-AF-01-LED-U-T2R-7050-1200

CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3
2.5°	630.2	627.1	624.0	622.0	621.3	603.1	595.2	590.0	579.0	570.1	562.8
5°	695.2	688.7	683.5	677.3	673.9	627.8	611.0	599.3	580.0	568.7	558.4
7.5°	799.7	781.5	770.8	758.8	748.5	665.3	637.4	619.2	592.4	577.3	565.6
10°	918.3	899.4	882.6	864.0	847.9	715.1	674.6	646.4	611.0	591.4	575.9
12.5°	1050.7	1032.1	1010.8	987.1	966.5	778.4	722.0	681.8	633.3	607.2	585.5
15°	1207.2	1174.5	1148.7	1121.2	1097.1	854.0	777.4	721.7	657.0	621.6	592.7
17.5°	1352.6	1318.2	1283.1	1259.1	1231.2	939.0	833.1	762.2	676.6	630.9	594.1
20°	1494.6	1457.1	1426.9	1394.5	1365.3	1027.0	892.6	798.0	689.4	631.3	585.5
22.5°	1619.7	1596.4	1562.7	1527.6	1498.0	1115.0	948.3	828.3	694.2	623.3	570.4
25°	1762.1	1737.3	1696.1	1666.5	1633.5	1204.7	1002.9	851.6	691.4	608.6	547.0
27.5°	1914.0	1886.5	1844.3	1813.3	1773.4	1297.9	1053.1	868.5	681.1	584.5	515.7
30°	2072.5	2047.4	2005.8	1974.6	1934.3	1396.6	1109.2	879.8	660.5	551.1	479.3
32.5°	2242.7	2221.8	2180.5	2147.8	2104.9	1503.5	1161.4	883.3	629.2	511.6	440.8
35°	2404.3	2389.9	2355.2	2324.6	2279.9	1604.6	1216.8	881.6	592.1	468.3	405.7
37.5°	2586.2	2577.6	2560.4	2521.6	2466.9	1741.8	1283.1	874.3	546.7	425.3	378.9
40°	2780.1	2780.8	2762.2	2735.8	2684.9	1908.2	1362.2	860.2	497.2	387.5	354.5
42.5°	2985.4	2996.0	2987.1	2968.2	2919.4	2076.0	1456.8	843.0	449.0	350.7	330.4
45°	3220.6	3233.6	3247.4	3219.5	3172.1	2297.4	1581.2	820.7	397.1	320.1	313.9
47.5°	3491.8	3512.5	3524.8	3525.2	3477.7	2571.8	1783.4	807.3	351.0	299.5	306.0
50°	4064.3	4070.8	4100.1	4150.9	4114.5	3206.8	2136.5	799.0	319.8	286.7	300.2
52.5°	4889.1	4961.0	5011.5	5008.1	4958.6	3610.1	2331.1	756.4	301.2	281.9	297.4
55°	5225.0	5314.8	5408.3	5433.0	5394.5	3954.3	2515.0	713.8	292.2	285.4	298.4
57.5°	5672.7	5824.0	5952.2	6006.2	5950.5	4394.7	2757.1	691.4	289.5	294.7	305.0
60°	6195.6	6382.7	6551.1	6648.1	6648.1	4900.8	3008.1	682.1	285.7	308.4	316.0
62.5°	6531.5	6806.3	7060.7	7202.7	7198.6	5253.2	3119.5	650.5	277.1	318.0	331.1
65°	6532.9	6859.6	7183.8	7343.3	7351.6	5209.9	2935.5	574.5	261.3	319.4	346.2
67.5°	5988.3	6336.6	6714.5	6892.9	6934.2	4795.9	2541.2	472.4	235.5	305.7	351.7
70°	5057.6	5397.6	5783.4	5958.7	6032.0	4088.4	2046.8	364.1	202.5	275.4	340.4
72.5°	3984.5	4318.0	4586.6	4714.8	4771.9	3125.0	1490.5	275.1	166.1	232.1	309.8
75°	2821.0	3071.3	3214.0	3242.6	3251.5	1883.8	905.6	204.6	136.8	180.5	261.6
77.5°	1592.2	1699.5	1687.8	1700.5	1594.6	727.2	394.4	146.5	112.8	137.2	202.9
80°	621.6	640.9	602.0	590.0	541.2	270.6	174.0	102.1	90.1	103.8	142.0
82.5°	274.0	283.0	274.7	276.8	264.7	139.6	104.2	73.9	68.8	76.0	94.2
85°	150.9	153.7	153.0	157.5	150.9	55.7	49.5	45.4	48.1	51.6	60.5
87.5°	73.6	74.3	71.9	75.6	73.2	28.2	24.4	25.8	28.2	28.9	28.9
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: P200345

CATALOG NUMBER: GAP-AF-01-LED-U-T2R-7050-1200

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	590.3	590.3	590.3	590.3	590.3	590.3
2.5°	557.7	554.9	555.3	554.6	553.2	553.2
5°	552.9	550.1	550.1	549.4	547.7	548.0
7.5°	557.7	553.2	551.5	549.1	546.7	546.7
10°	563.2	555.3	550.5	546.3	543.2	543.2
12.5°	567.3	554.9	547.0	541.5	538.4	538.4
15°	568.7	552.5	541.5	535.0	532.2	531.9
17.5°	564.2	543.2	529.8	522.3	518.8	517.8
20°	550.5	526.4	510.2	501.6	496.8	495.1
22.5°	529.8	502.3	483.4	474.5	468.3	467.3
25°	500.9	471.4	452.8	444.2	440.8	439.7
27.5°	467.3	439.7	423.9	418.4	415.3	415.0
30°	435.3	411.9	400.2	396.1	392.3	391.6
32.5°	405.4	390.6	386.1	380.3	371.3	370.3
35°	384.0	382.7	379.6	366.5	355.5	352.4
37.5°	371.0	383.7	367.9	342.1	334.2	333.5
40°	363.4	373.0	345.9	336.9	337.6	336.9
42.5°	346.2	356.2	346.6	342.4	345.2	345.9
45°	329.0	340.0	351.7	349.0	355.5	355.5
47.5°	319.4	335.9	351.4	351.4	361.0	364.4
50°	308.4	332.5	345.9	350.7	358.3	355.5
52.5°	307.7	326.6	338.0	346.6	350.0	346.9
55°	308.8	321.8	330.1	339.7	343.8	344.2
57.5°	310.1	319.1	324.6	329.0	341.4	341.4
60°	313.6	316.7	319.8	322.2	338.3	338.7
62.5°	319.1	314.3	313.6	316.0	336.6	335.2
65°	327.7	310.8	305.7	308.1	334.9	330.8
67.5°	339.4	305.7	295.7	297.4	333.5	324.6
70°	350.0	297.4	283.3	281.6	320.4	304.6
72.5°	351.0	287.8	266.1	261.0	278.5	263.4
75°	333.8	281.2	247.2	232.1	230.0	228.0
77.5°	300.8	277.5	225.2	201.5	197.4	198.7
80°	251.7	263.4	198.7	170.5	192.9	190.5
82.5°	188.1	232.4	168.8	150.9	150.6	133.1
85°	104.5	181.2	137.5	113.1	78.7	76.3
87.5°	29.2	100.7	96.3	64.0	43.7	45.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)