

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: P200020

Luminaire Tested: **GAP-AF-02-LED-U-T2R-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200020
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-7030-600
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8246.9 lumens
Efficiency: N/A
Efficacy: 125.0 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): 66
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



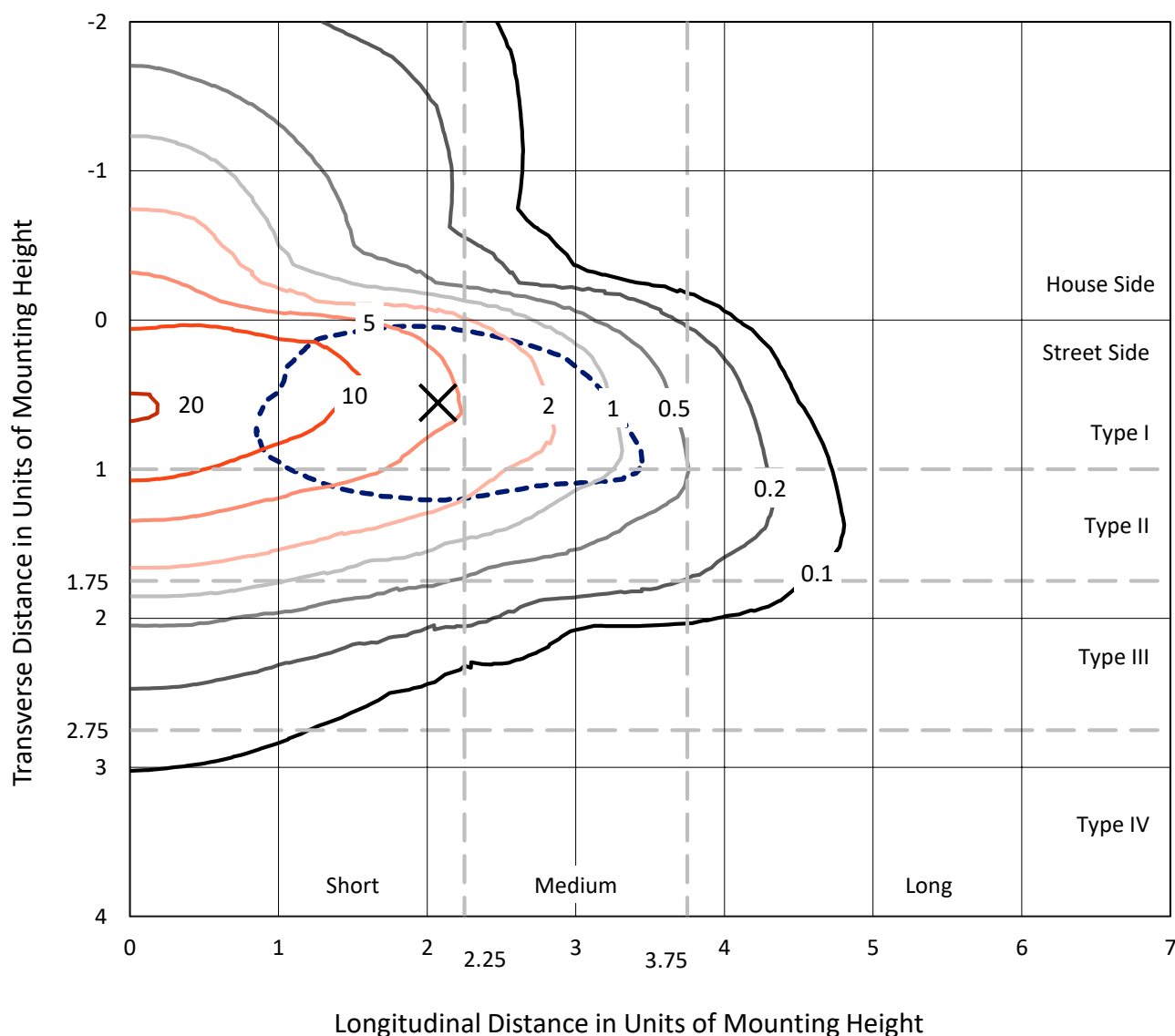
REPORT NUMBER: P200020

CATALOG NUMBER: GAP-AF-02-LED-U-T2R-7030-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

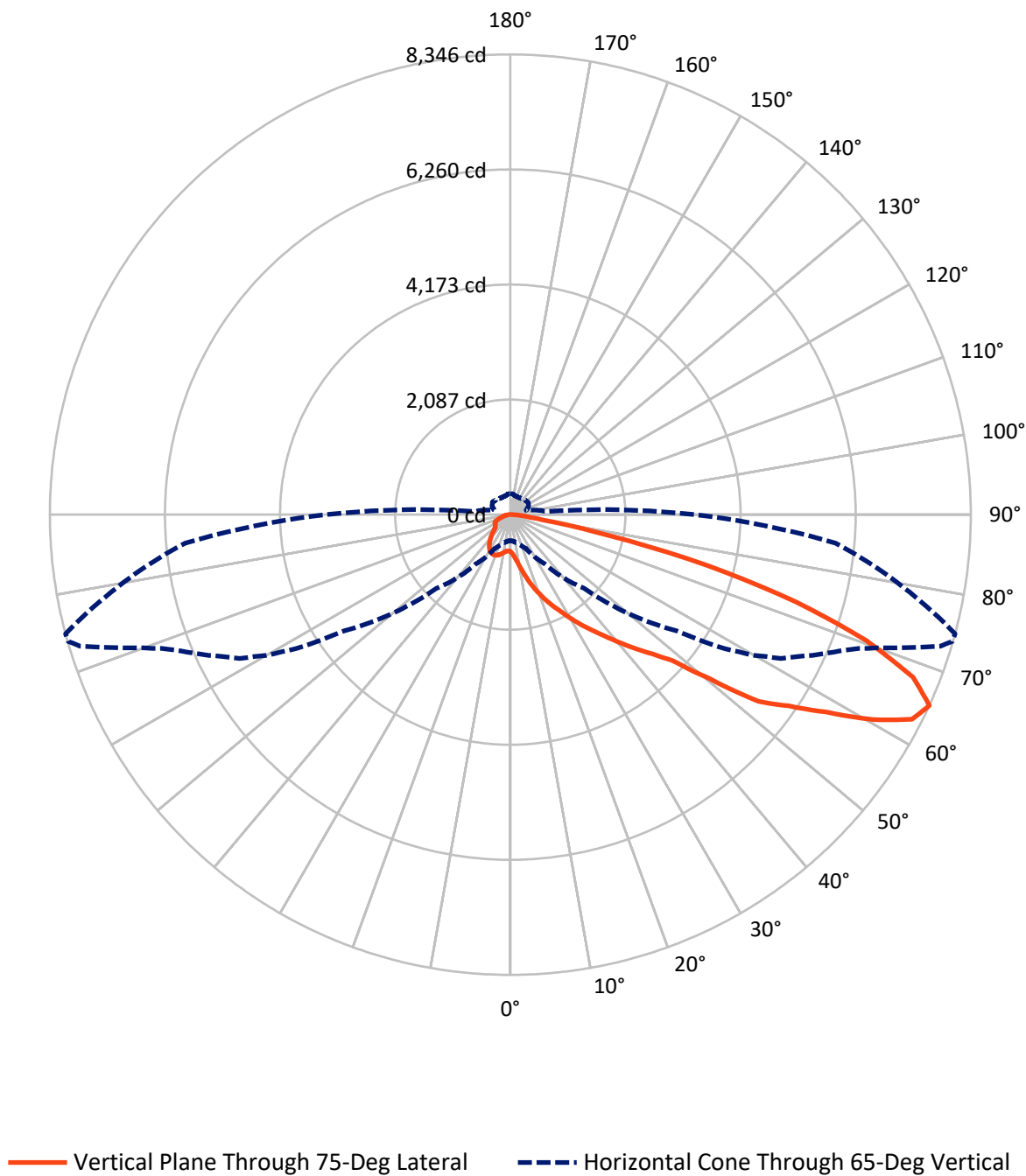


Based on 10 foot mounting height. Maximum calculated value = 20.8 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P200020

CATALOG NUMBER: GAP-AF-02-LED-U-T2R-7030-600

Luminous Intensity Polar Plot



REPORT NUMBER: P200020

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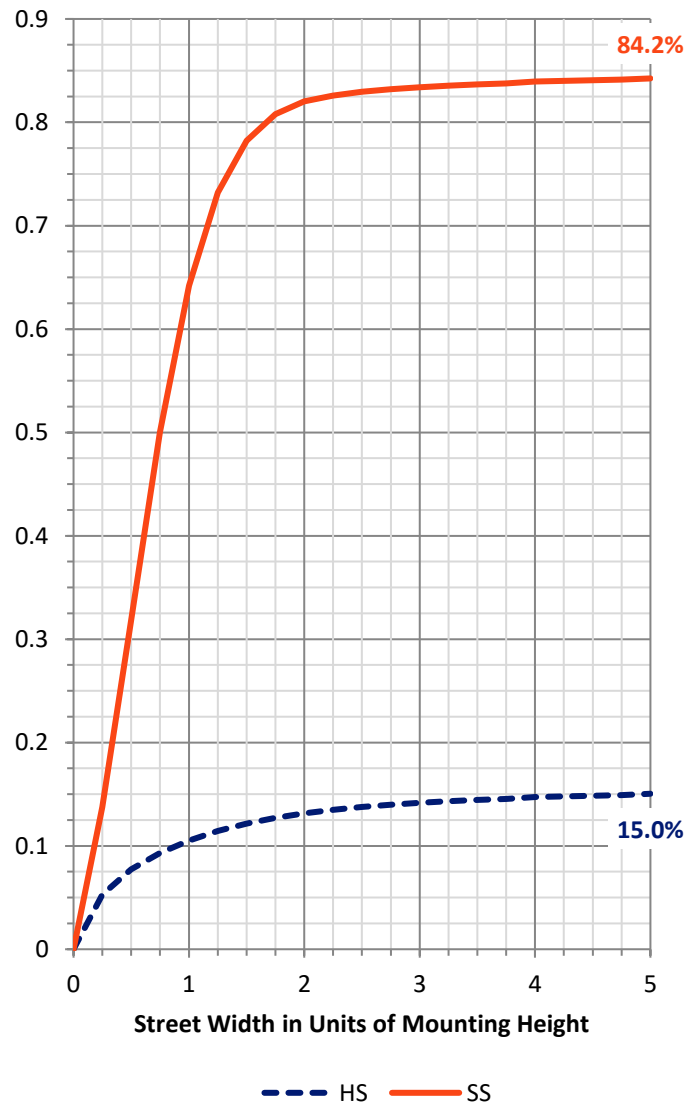
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1271.5	0.0	1271.5
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	6975.4	0.0	6975.4
	% Fixture	84.6	0.0	84.6
Total	Lumens	8246.9	0.0	8246.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.8	1.0
10°-20°	323.7	3.9
20°-30°	664.1	8.1
30°-40°	1117.3	13.5
40°-50°	1543.8	18.7
50°-60°	1927.1	23.4
60°-70°	1734.2	21.0
70°-80°	726.9	8.8
80°-90°	127.0	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°	8246.9	100.0
0°-180°	8246.9	100.0

Coefficient of Utilization



REPORT NUMBER: P200020

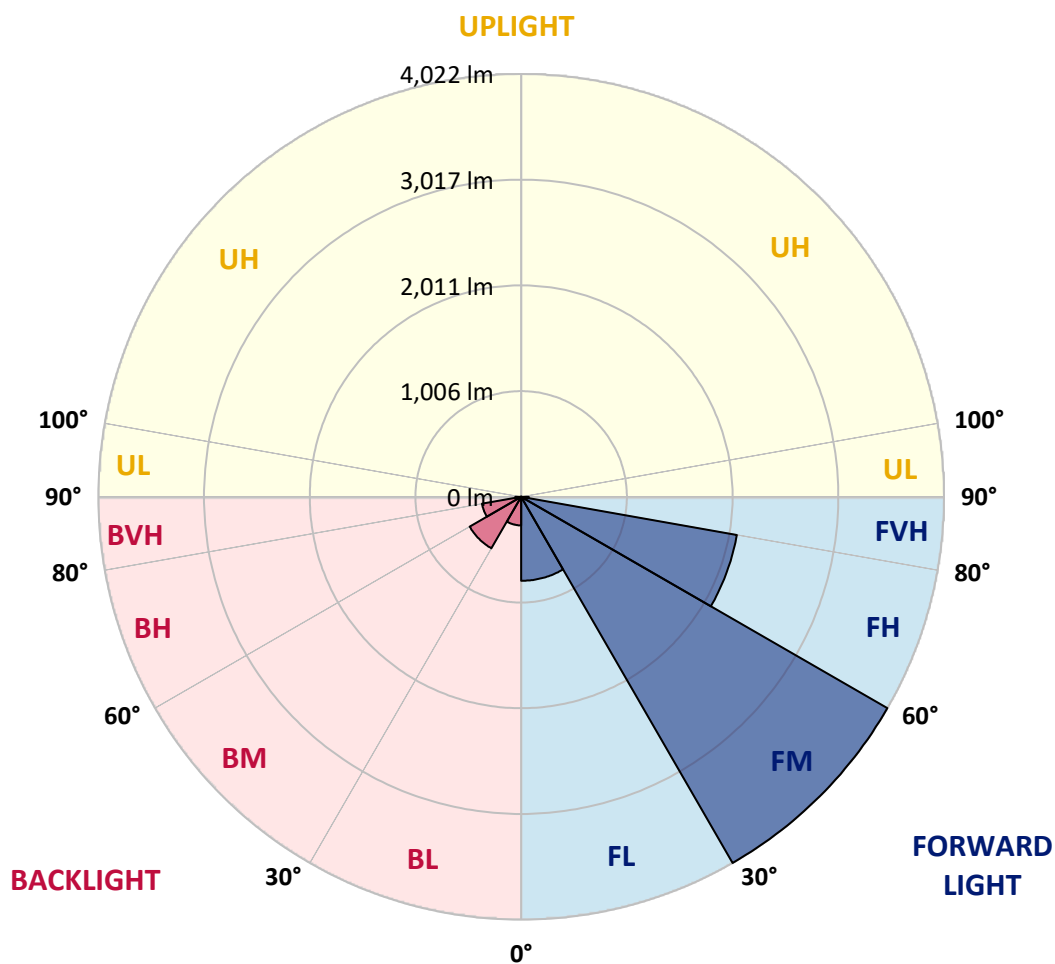
CATALOG NUMBER: GAP-AF-02-LED-U-T2R-7030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	798.7	9.7			
FM	(30°-60°)	4022.2	48.8			
FH	(60°-80°)	2083.1	25.3			G2/5000
FVH	(80°-90°)	71.4	0.9			G1/100
BL	(0°-30°)	271.9	3.3	B1/500		
BM	(30°-60°)	566.0	6.9	B1/1000		
BH	(60°-80°)	378.0	4.6	B1/500		G1/500
BVH	(80°-90°)	55.6	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: P200020

CATALOG NUMBER: GAP-AF-02-LED-U-T2R-7030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2
2.5°	850.9	841.7	843.9	828.3	809.2	784.2	756.5	756.1	756.5	753.8	743.6
5°	1180.0	1168.6	1164.3	1129.3	1077.8	1004.3	924.8	916.1	912.7	903.7	883.0
7.5°	1420.1	1413.9	1407.1	1380.6	1333.8	1251.8	1144.9	1126.6	1109.0	1104.7	1081.2
10°	1575.1	1573.5	1559.4	1552.3	1523.1	1452.0	1347.8	1330.2	1311.1	1304.5	1280.0
12.5°	1697.6	1697.3	1690.6	1692.5	1667.2	1615.6	1525.8	1509.9	1495.8	1475.5	1457.9
15°	1782.3	1782.7	1792.4	1803.5	1799.5	1764.7	1680.4	1673.5	1661.3	1647.2	1626.6
17.5°	1851.8	1853.7	1863.9	1883.7	1905.3	1902.5	1835.8	1829.9	1819.3	1800.3	1789.3
20°	2008.7	2016.2	1996.6	1996.6	1998.9	2009.5	1977.5	1972.7	1957.9	1947.8	1939.3
22.5°	2273.8	2282.3	2238.1	2193.4	2149.2	2117.2	2085.2	2091.1	2081.0	2073.8	2068.9
25°	2618.1	2624.6	2553.3	2477.5	2387.8	2270.6	2191.4	2187.9	2182.5	2178.1	2175.8
27.5°	2942.1	2944.7	2877.3	2766.3	2662.1	2493.9	2299.2	2294.8	2288.2	2280.0	2272.9
30°	3219.1	3218.3	3148.9	3043.1	2931.4	2745.2	2462.7	2449.4	2429.9	2407.6	2390.5
32.5°	3459.2	3458.0	3381.9	3272.2	3155.2	2994.4	2686.6	2659.4	2629.0	2585.6	2559.5
35°	3648.1	3647.4	3575.5	3461.2	3326.8	3228.9	2943.6	2910.0	2871.4	2813.2	2773.0
37.5°	3719.6	3719.6	3679.5	3601.3	3482.6	3415.5	3228.9	3188.3	3146.8	3081.0	3035.7
40°	3677.7	3678.5	3687.2	3672.7	3615.0	3563.4	3495.1	3470.9	3435.4	3376.1	3328.8
42.5°	3537.7	3541.9	3599.0	3668.8	3697.7	3689.4	3731.3	3720.4	3695.3	3649.7	3612.2
45°	3360.0	3373.4	3435.7	3567.8	3720.8	3798.4	3929.2	3930.4	3925.6	3901.1	3872.1
47.5°	3116.1	3134.8	3217.2	3395.6	3666.8	3904.2	4130.2	4140.7	4150.5	4134.5	4121.3
50°	2792.1	2814.4	2937.8	3174.3	3557.2	4013.8	4510.0	4557.6	4602.1	4596.6	4605.6
52.5°	2445.1	2471.2	2622.3	2885.7	3368.7	4039.4	4752.8	4830.5	4908.2	4971.9	5039.4
55°	2132.0	2118.0	2269.1	2546.7	3058.7	3924.9	4971.0	5064.7	5151.3	5229.3	5309.8
57.5°	1707.7	1730.7	1882.2	2156.7	2648.5	3602.1	5121.3	5258.3	5382.7	5512.0	5626.0
60°	1248.3	1271.3	1435.6	1714.4	2203.1	3112.6	5006.5	5214.2	5413.7	5611.5	5766.1
62.5°	753.8	771.0	915.7	1181.2	1698.8	2532.2	4495.2	4767.6	5061.2	5297.8	5534.6
65°	469.2	479.0	532.4	678.4	1091.0	1890.4	3672.7	3969.8	4285.9	4586.1	4832.4
67.5°	384.0	387.7	397.3	428.7	599.2	1232.7	2733.5	2996.7	3282.0	3572.4	3846.5
70°	345.5	343.1	343.1	345.0	384.0	662.7	1789.6	1961.1	2198.9	2451.3	2702.0
72.5°	311.9	309.5	305.3	299.4	313.5	404.4	925.1	1054.4	1225.7	1450.1	1690.1
75°	280.2	277.2	272.0	264.6	274.5	305.3	444.2	498.4	582.1	701.5	835.3
77.5°	247.5	243.5	238.8	233.4	246.0	237.3	260.4	279.9	311.9	350.1	400.6
80°	210.5	206.8	205.3	202.5	217.4	180.8	183.9	195.9	214.7	235.4	258.8
82.5°	164.8	164.8	171.0	172.2	188.6	130.0	137.4	147.9	157.7	168.6	179.5
85°	108.5	109.3	130.3	138.5	148.7	87.4	103.0	106.5	114.4	120.6	125.3
87.5°	34.0	36.7	79.6	88.2	85.4	49.6	63.3	64.8	70.3	74.6	78.4
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: P200020

CATALOG NUMBER: GAP-AF-02-LED-U-T2R-7030-600

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2
2.5°	743.6	738.9	734.7	734.2	731.2	726.8	728.4	721.7	722.1	718.6	714.7
5°	874.4	871.3	855.6	851.3	839.6	832.2	831.0	815.4	813.4	804.4	794.8
7.5°	1062.5	1052.3	1030.6	1019.9	1000.0	985.2	978.2	957.5	947.4	923.9	913.4
10°	1259.6	1246.7	1219.8	1205.0	1185.9	1162.1	1149.2	1119.2	1107.5	1085.9	1060.2
12.5°	1442.3	1429.4	1401.7	1390.5	1364.9	1339.6	1325.7	1291.7	1276.3	1242.1	1221.7
15°	1611.3	1598.5	1574.2	1562.5	1537.2	1516.5	1497.7	1464.2	1446.3	1414.3	1387.7
17.5°	1775.3	1761.6	1740.5	1730.0	1705.4	1684.3	1664.0	1632.5	1614.1	1582.1	1558.2
20°	1927.6	1917.4	1902.1	1888.1	1863.5	1844.4	1820.2	1792.8	1766.2	1742.9	1720.3
22.5°	2060.2	2056.4	2040.0	2033.7	2012.5	1996.1	1975.1	1948.2	1929.1	1899.4	1878.2
25°	2174.6	2173.3	2165.6	2163.7	2148.8	2133.2	2128.6	2106.3	2088.7	2062.6	2040.8
27.5°	2272.9	2274.1	2272.1	2277.6	2273.8	2266.7	2267.1	2259.7	2249.5	2227.7	2208.5
30°	2382.3	2376.1	2379.5	2387.4	2389.7	2390.5	2403.3	2407.6	2406.9	2392.4	2383.1
32.5°	2536.8	2522.0	2508.4	2507.2	2514.9	2518.1	2540.0	2551.3	2561.0	2564.6	2566.1
35°	2734.0	2704.2	2675.8	2660.6	2647.4	2650.8	2666.5	2684.8	2706.3	2721.1	2738.7
37.5°	2982.2	2945.9	2895.6	2859.7	2850.7	2831.1	2841.3	2855.7	2876.8	2899.8	2930.4
40°	3283.1	3228.2	3171.6	3123.9	3098.1	3062.2	3061.9	3059.2	3072.1	3093.4	3136.4
42.5°	3572.8	3524.0	3463.8	3414.0	3380.4	3332.3	3322.6	3297.2	3303.1	3321.8	3363.5
45°	3844.1	3803.9	3767.2	3709.5	3681.0	3629.0	3612.6	3582.6	3565.7	3574.4	3616.2
47.5°	4106.8	4081.1	4042.8	4005.3	3983.5	3936.9	3916.0	3894.4	3873.0	3872.1	3916.0
50°	4618.9	4605.3	4559.9	4520.9	4531.5	4474.5	4478.0	4420.2	4446.5	4449.5	4541.3
52.5°	5100.2	5147.9	5181.4	5222.4	5249.0	5254.1	5271.5	5297.8	5329.3	5391.8	5476.8
55°	5375.8	5435.5	5470.3	5501.5	5553.0	5563.9	5593.2	5628.0	5655.7	5725.9	5798.2
57.5°	5703.4	5814.1	5868.0	5917.6	5987.1	6013.6	6062.4	6100.3	6136.2	6219.4	6306.8
60°	5905.1	6040.2	6149.8	6228.4	6315.3	6377.8	6451.5	6510.9	6595.2	6694.8	6825.1
62.5°	5744.7	5942.9	6088.6	6223.2	6341.5	6460.9	6566.7	6677.6	6805.6	6956.3	7158.4
65°	5105.6	5307.5	5556.9	5696.7	5853.1	6037.4	6198.3	6377.8	6552.3	6771.7	7070.6
67.5°	4110.4	4344.9	4625.2	4766.1	4946.0	5151.7	5332.1	5551.5	5755.2	6021.1	6390.7
70°	2962.7	3266.0	3501.8	3648.9	3858.9	4070.9	4244.9	4500.3	4668.8	4941.4	5323.4
72.5°	1876.0	2115.3	2404.1	2589.6	2776.1	2990.8	3168.8	3389.0	3546.2	3794.5	4140.7
75°	1008.7	1185.0	1438.8	1614.9	1814.7	1998.2	2206.6	2354.1	2470.5	2666.8	2947.9
77.5°	472.6	580.0	708.4	843.9	979.4	1120.7	1258.1	1377.5	1427.5	1539.9	1705.7
80°	287.0	321.7	359.1	400.9	457.5	503.1	563.7	607.4	610.5	646.0	696.7
82.5°	191.6	204.6	215.9	226.3	240.8	252.2	265.1	280.2	286.5	294.7	311.1
85°	130.8	137.0	139.3	146.0	144.4	148.4	153.4	158.4	161.1	160.8	168.3
87.5°	80.5	83.6	85.1	86.7	85.4	83.9	86.4	89.0	89.8	87.4	88.2
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: P200020

CATALOG NUMBER: GAP-AF-02-LED-U-T2R-7030-600

CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2	670.2
2.5°	715.5	712.0	708.4	706.2	705.4	684.6	675.7	669.9	657.3	647.2	638.9
5°	789.3	781.9	776.0	768.9	765.1	712.8	693.7	680.3	658.5	645.6	633.9
7.5°	908.0	887.3	875.1	861.5	849.8	755.3	723.8	703.0	672.6	655.3	642.1
10°	1042.6	1021.1	1002.0	980.9	962.6	811.9	765.8	733.9	693.7	671.4	653.8
12.5°	1192.9	1171.8	1147.7	1120.7	1097.3	883.7	819.8	774.1	719.0	689.3	664.8
15°	1370.4	1333.4	1304.1	1272.9	1245.5	969.5	882.6	819.3	745.9	705.7	672.9
17.5°	1535.6	1496.6	1456.8	1429.4	1397.9	1066.1	945.7	865.5	768.2	716.3	674.4
20°	1696.8	1654.3	1619.9	1583.2	1550.1	1165.9	1013.4	906.0	782.7	716.6	664.8
22.5°	1839.0	1812.4	1774.2	1734.3	1700.7	1265.9	1076.5	940.2	788.1	707.7	647.6
25°	2000.5	1972.3	1925.5	1892.1	1854.5	1367.7	1138.6	966.8	785.0	690.9	621.0
27.5°	2173.0	2141.8	2093.9	2058.7	2013.4	1473.6	1195.7	985.9	773.2	663.5	585.5
30°	2353.0	2324.5	2277.3	2241.8	2196.1	1585.6	1259.2	998.8	749.8	625.7	544.1
32.5°	2546.2	2522.4	2475.6	2438.4	2389.7	1706.9	1318.5	1002.8	714.3	580.8	500.4
35°	2729.7	2713.2	2673.8	2639.1	2588.4	1821.7	1381.5	1000.9	672.2	531.6	460.6
37.5°	2936.2	2926.4	2906.9	2862.8	2800.8	1977.5	1456.8	992.6	620.6	482.8	430.2
40°	3156.3	3157.0	3136.0	3105.9	3048.3	2166.4	1546.6	976.7	564.5	439.9	402.4
42.5°	3389.3	3401.5	3391.3	3369.8	3314.4	2356.8	1653.8	957.1	509.8	398.1	375.1
45°	3656.4	3671.2	3686.7	3655.2	3601.3	2608.2	1795.1	931.8	450.8	363.4	356.4
47.5°	3964.4	3987.8	4001.8	4002.1	3948.3	2919.7	2024.7	916.5	398.6	340.1	347.5
50°	4614.2	4621.6	4654.9	4712.6	4671.3	3640.7	2425.5	907.2	363.1	325.6	340.8
52.5°	5550.7	5632.2	5689.6	5685.8	5629.5	4098.7	2646.5	858.8	342.0	320.1	337.6
55°	5932.0	6034.0	6140.1	6168.2	6124.4	4489.4	2855.4	810.3	331.8	324.0	338.8
57.5°	6440.3	6612.1	6757.5	6818.9	6755.6	4989.4	3130.2	785.0	328.7	334.6	346.3
60°	7034.0	7246.3	7437.6	7547.6	7547.6	5563.9	3415.1	774.4	324.4	350.1	358.7
62.5°	7415.3	7727.3	8016.1	8177.3	8172.6	5964.0	3541.5	738.5	314.6	361.1	375.9
65°	7416.8	7787.7	8155.7	8336.9	8346.4	5914.9	3332.7	652.3	296.6	362.6	393.2
67.5°	6798.5	7193.9	7623.0	7825.5	7872.4	5444.9	2885.0	536.4	267.3	347.0	399.4
70°	5741.9	6128.1	6565.9	6765.0	6848.2	4641.6	2323.7	413.3	229.9	312.7	386.4
72.5°	4523.7	4902.4	5207.2	5352.7	5417.5	3547.8	1692.1	312.3	188.6	263.6	351.7
75°	3202.7	3486.9	3648.9	3681.3	3691.5	2138.6	1028.1	232.2	155.3	205.0	297.0
77.5°	1807.7	1929.4	1916.2	1930.6	1810.4	825.6	447.8	166.3	128.1	155.7	230.3
80°	705.7	727.5	683.5	669.9	614.4	307.2	197.5	116.0	102.2	117.9	161.1
82.5°	311.1	321.2	311.9	314.2	300.6	158.4	118.3	83.9	78.1	86.4	107.0
85°	171.3	174.5	173.7	178.7	171.3	63.3	56.2	51.6	54.6	58.6	68.8
87.5°	83.6	84.3	81.6	85.9	83.1	32.0	27.8	29.3	32.0	32.8	32.8
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: P200020

CATALOG NUMBER: GAP-AF-02-LED-U-T2R-7030-600

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	670.2	670.2	670.2	670.2	670.2	670.2
2.5°	633.1	630.0	630.4	629.7	628.0	628.0
5°	627.7	624.5	624.5	623.8	621.8	622.2
7.5°	633.1	628.0	626.0	623.4	620.6	620.6
10°	639.3	630.4	625.0	620.3	616.8	616.8
12.5°	644.1	630.0	621.0	614.8	611.3	611.3
15°	645.6	627.2	614.8	607.4	604.2	603.8
17.5°	640.6	616.8	601.5	592.9	589.0	587.9
20°	625.0	597.6	579.3	569.5	564.0	562.1
22.5°	601.5	570.4	548.8	538.6	531.6	530.5
25°	568.7	535.2	514.1	504.3	500.4	499.2
27.5°	530.5	499.2	481.3	475.1	471.6	471.1
30°	494.2	467.6	454.4	449.7	445.3	444.5
32.5°	460.2	443.4	438.3	431.7	421.5	420.4
35°	436.1	434.5	430.9	416.1	403.6	400.1
37.5°	421.2	435.6	417.7	388.4	379.4	378.6
40°	412.6	423.5	392.7	382.5	383.3	382.5
42.5°	393.2	404.4	393.5	388.8	391.9	392.7
45°	373.5	386.0	399.4	396.2	403.6	403.6
47.5°	362.6	381.4	398.9	398.9	409.8	413.8
50°	350.1	377.5	392.7	398.1	406.8	403.6
52.5°	349.3	370.8	383.7	393.5	397.3	393.9
55°	350.5	365.4	374.8	385.6	390.4	390.7
57.5°	352.2	362.2	368.5	373.5	387.7	387.7
60°	355.9	359.5	363.1	365.8	384.0	384.5
62.5°	362.2	356.7	355.9	358.7	382.2	380.6
65°	372.0	352.9	347.0	349.7	380.2	375.6
67.5°	385.2	347.0	335.7	337.6	378.6	368.5
70°	397.3	337.6	321.7	319.7	363.9	345.8
72.5°	398.6	326.6	302.1	296.3	316.2	299.1
75°	379.0	319.2	280.7	263.6	261.1	258.8
77.5°	341.6	315.0	255.6	228.8	224.1	225.6
80°	285.7	299.1	225.6	193.6	218.9	216.3
82.5°	213.5	263.9	191.6	171.3	171.0	151.1
85°	118.6	205.7	156.1	128.4	89.4	86.7
87.5°	33.3	114.4	109.3	72.6	49.6	51.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)