

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: P200666

Luminaire Tested: **GAP-AF-02-LED-U-T2R-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200666  
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-8030-1200  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11585 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 129  
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

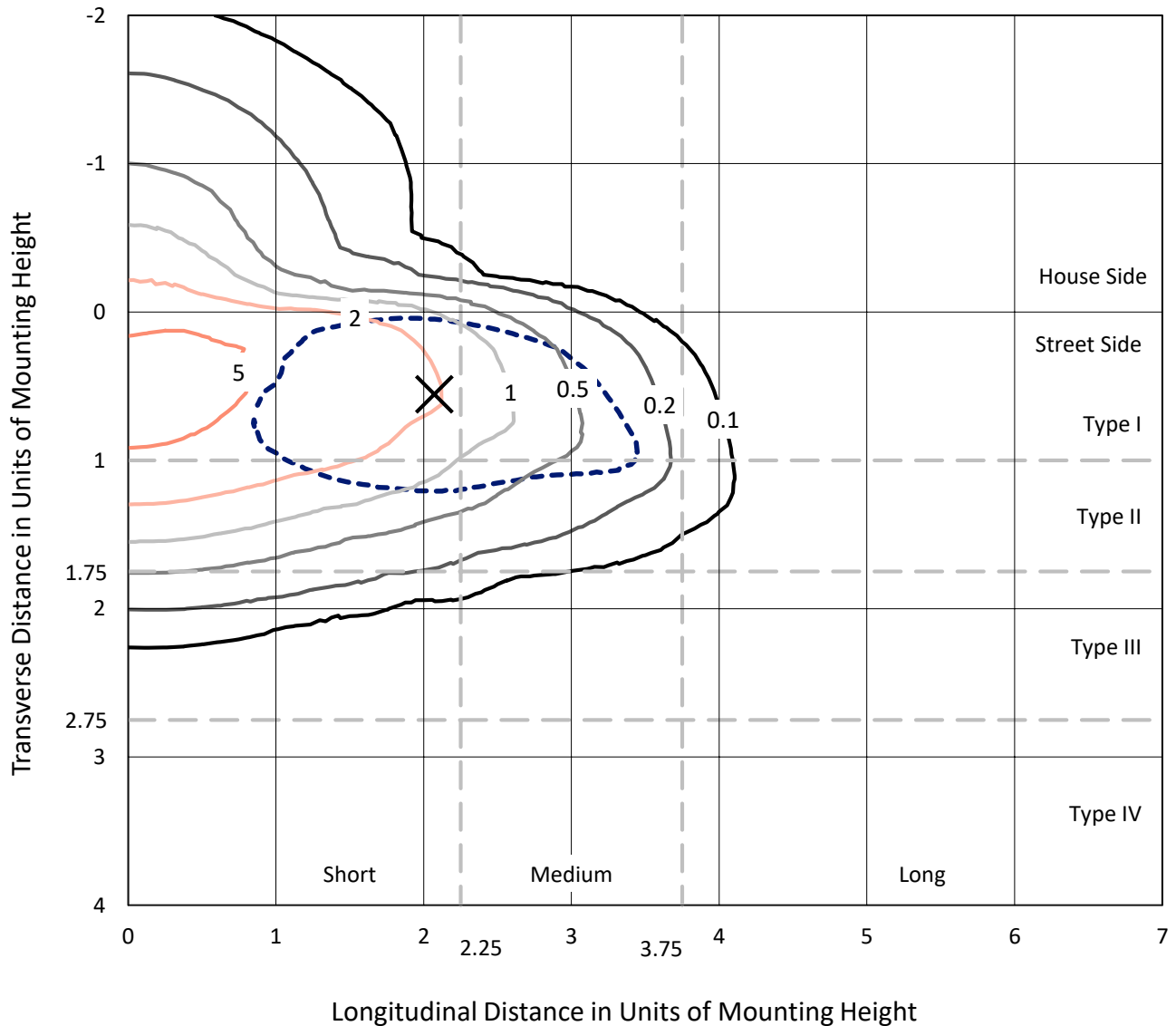


REPORT NUMBER: P200666

CATALOG NUMBER: GAP-AF-02-LED-U-T2R-8030-1200

### Iso-Footcandle Lines of Horizontal Illumination

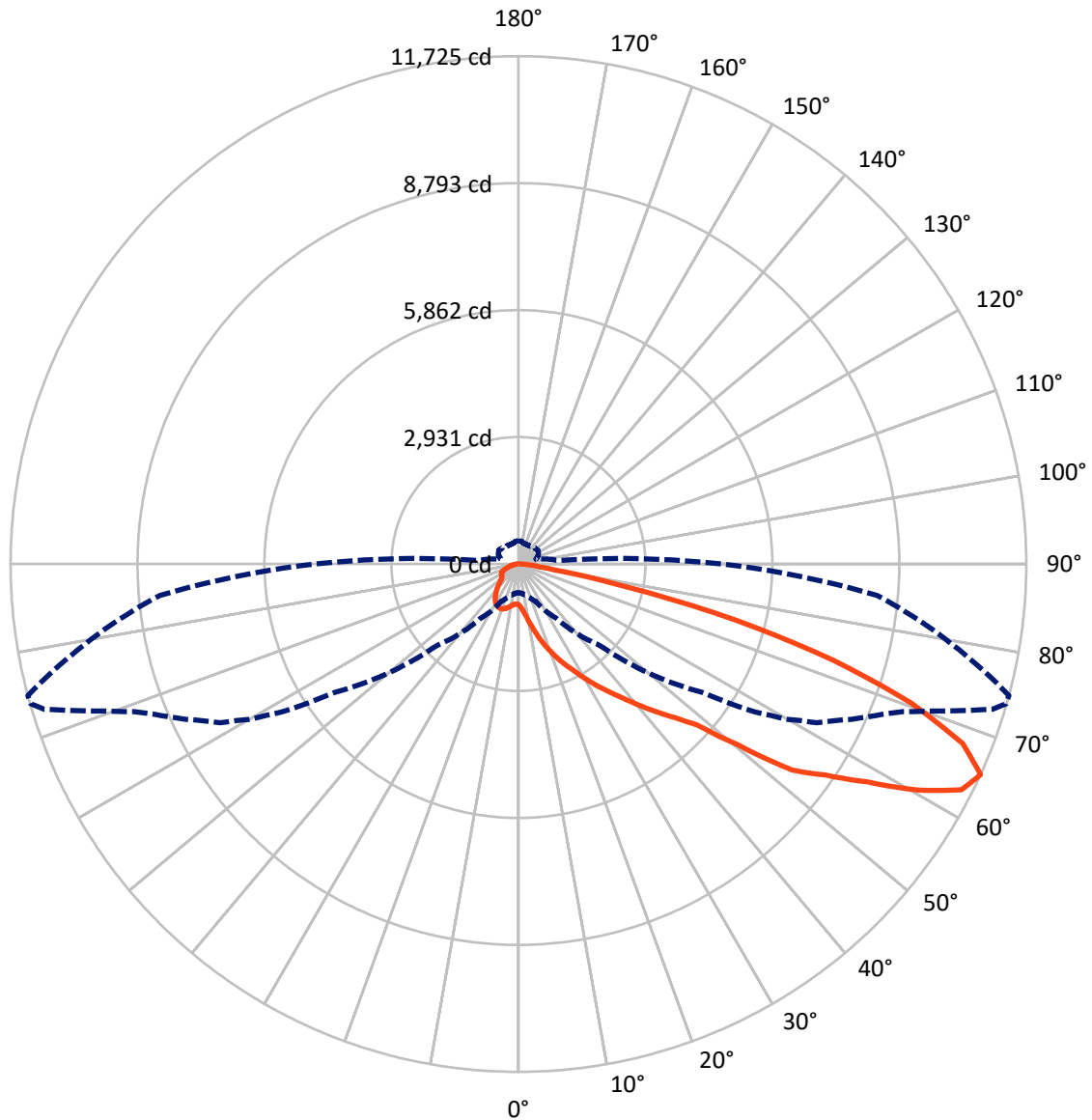
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.3 fc  
 Type II - Short - Full Cutoff

REPORT NUMBER: P200666  
CATALOG NUMBER: GAP-AF-02-LED-U-T2R-8030-1200

### Luminous Intensity Polar Plot



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



REPORT NUMBER: P200666

CATALOG NUMBER: GAP-AF-02-LED-U-T2R-8030-1200

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1786.1	0.0	1786.1
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	9798.9	0.0	9798.9
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	11585.0	0.0	11585.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.4	1.0
10°-20°	454.7	3.9
20°-30°	932.9	8.1
30°-40°	1569.5	13.5
40°-50°	2168.6	18.7
50°-60°	2707.1	23.4
60°-70°	2436.1	21.0
70°-80°	1021.2	8.8
80°-90°	178.4	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°	11585.0	100.0
0°-180°	11585.0	100.0



REPORT NUMBER: P200666

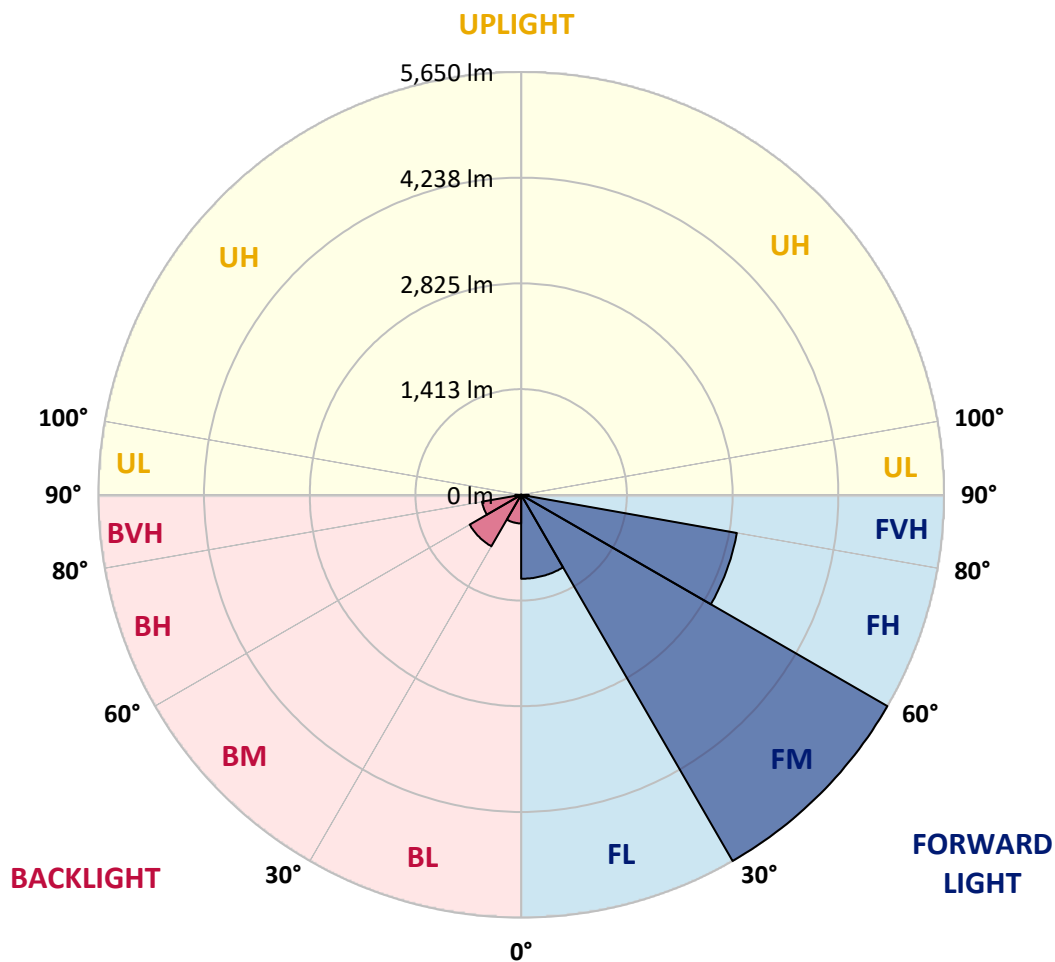
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1122.0	9.7			
FM (30°-60°)	5650.3	48.8			
FH (60°-80°)	2926.3	25.3			G2/5000
FVH (80°-90°)	100.3	0.9			G2/225
BL (0°-30°)	382.0	3.3	B1/500		
BM (30°-60°)	795.0	6.9	B1/1000		
BH (60°-80°)	531.0	4.6	B2/1000		G2/1000
BVH (80°-90°)	78.1	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





REPORT NUMBER: P200666

CATALOG NUMBER: GAP-AF-02-LED-U-T2R-8030-1200

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	941.5	941.5	941.5	941.5	941.5	941.5	941.5	941.5	941.5	941.5	941.5
2.5°	1195.4	1182.2	1185.5	1163.6	1136.7	1101.6	1062.7	1062.1	1062.7	1058.8	1044.6
5°	1657.6	1641.7	1635.7	1586.4	1514.0	1410.9	1299.0	1287.0	1282.0	1269.4	1240.3
7.5°	1994.9	1986.1	1976.8	1939.5	1873.7	1758.5	1608.3	1582.5	1557.8	1551.8	1518.9
10°	2212.6	2210.4	2190.6	2180.8	2139.6	2039.8	1893.4	1868.7	1841.9	1832.6	1798.0
12.5°	2384.7	2384.2	2374.9	2377.6	2342.0	2269.6	2143.5	2121.0	2101.2	2072.7	2048.1
15°	2503.7	2504.3	2518.0	2533.3	2527.9	2479.1	2360.6	2350.7	2333.7	2314.0	2284.9
17.5°	2601.3	2604.1	2618.3	2646.3	2676.5	2672.6	2578.9	2570.6	2555.8	2529.0	2513.6
20°	2821.8	2832.2	2804.8	2804.8	2808.1	2822.9	2777.9	2771.3	2750.5	2736.2	2724.2
22.5°	3194.1	3206.2	3144.2	3081.1	3019.2	2974.2	2929.2	2937.5	2923.2	2913.3	2906.2
25°	3677.7	3687.1	3586.7	3480.3	3354.2	3189.7	3078.4	3073.5	3065.8	3059.7	3056.5
27.5°	4132.9	4136.7	4041.8	3886.1	3739.7	3503.4	3229.7	3223.7	3214.4	3202.9	3193.0
30°	4522.2	4521.1	4423.5	4274.9	4118.0	3856.5	3459.5	3440.8	3413.4	3382.2	3358.0
32.5°	4859.4	4857.8	4750.8	4596.7	4432.2	4206.3	3774.2	3735.9	3693.1	3632.2	3595.5
35°	5124.8	5123.7	5022.8	4862.1	4673.5	4535.9	4135.0	4087.9	4033.6	3951.9	3895.4
37.5°	5225.1	5225.1	5168.7	5059.0	4892.3	4798.0	4535.9	4478.9	4420.7	4328.1	4264.5
40°	5166.5	5167.6	5179.6	5159.3	5078.2	5005.8	4909.9	4875.9	4826.0	4742.6	4676.3
42.5°	4969.6	4975.7	5055.7	5153.9	5194.4	5182.9	5241.6	5226.2	5191.2	5127.0	5074.4
45°	4720.1	4738.8	4826.5	5011.8	5226.8	5335.9	5519.6	5521.3	5514.7	5480.1	5439.6
47.5°	4377.4	4403.7	4519.4	4770.0	5151.1	5484.5	5802.0	5816.8	5830.5	5808.0	5789.4
50°	3922.3	3953.5	4126.8	4459.1	4997.0	5638.6	6335.5	6402.4	6464.9	6457.3	6469.9
52.5°	3434.8	3471.6	3683.8	4053.9	4732.2	5674.2	6676.6	6785.7	6894.8	6984.2	7079.1
55°	2995.0	2975.3	3187.5	3577.4	4296.8	5513.6	6983.1	7114.7	7236.5	7346.1	7459.1
57.5°	2399.0	2431.3	2644.1	3029.6	3720.5	5060.1	7194.2	7386.7	7561.6	7743.1	7903.3
60°	1753.6	1785.9	2016.8	2408.3	3094.8	4372.5	7033.0	7324.7	7605.0	7883.0	8100.1
62.5°	1058.8	1083.0	1286.4	1659.3	2386.4	3557.1	6314.7	6697.4	7109.8	7442.1	7774.9
65°	659.1	672.8	747.9	953.0	1532.6	2655.6	5159.3	5576.6	6020.8	6442.5	6788.5
67.5°	539.6	544.5	558.2	602.1	841.7	1731.7	3840.0	4209.6	4610.5	5018.4	5403.4
70°	485.3	482.0	482.0	484.7	539.6	931.1	2514.1	2754.9	3088.8	3443.6	3795.6
72.5°	438.1	434.8	428.8	420.6	440.3	568.1	1299.6	1481.1	1721.8	2037.1	2374.3
75°	393.7	389.3	382.2	371.8	385.5	428.8	624.0	700.2	817.6	985.4	1173.5
77.5°	347.6	342.2	335.6	327.9	345.5	333.4	365.7	393.2	438.1	491.9	562.6
80°	295.6	290.6	288.4	284.6	305.4	253.9	258.3	275.3	301.6	330.7	363.6
82.5°	231.4	231.4	240.2	241.8	264.8	182.6	193.0	207.8	221.5	236.9	252.2
85°	152.4	153.5	183.1	194.7	208.9	122.8	144.8	149.7	160.7	169.4	176.0
87.5°	47.7	51.5	111.9	123.9	120.1	69.6	88.8	91.0	98.7	104.7	110.2
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: P200666

CATALOG NUMBER: GAP-AF-02-LED-U-T2R-8030-1200

**CANDELA DISTRIBUTION (continued):**

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	941.5	941.5	941.5	941.5	941.5	941.5	941.5	941.5	941.5	941.5	941.5
2.5°	1044.6	1038.0	1032.0	1031.4	1027.0	1021.0	1023.2	1013.9	1014.4	1009.5	1004.0
5°	1228.3	1223.9	1202.0	1195.9	1179.5	1169.1	1167.4	1145.5	1142.7	1130.1	1116.4
7.5°	1492.6	1478.3	1447.6	1432.8	1404.9	1384.0	1374.1	1345.1	1330.8	1297.9	1283.1
10°	1769.5	1751.4	1713.6	1692.7	1665.9	1632.4	1614.3	1572.1	1555.6	1525.5	1489.3
12.5°	2026.1	2008.0	1969.1	1953.2	1917.6	1881.9	1862.2	1814.5	1793.1	1744.8	1716.3
15°	2263.6	2245.5	2211.5	2195.0	2159.4	2130.3	2104.0	2056.8	2031.6	1986.6	1949.4
17.5°	2493.9	2474.7	2445.1	2430.3	2395.7	2366.1	2337.6	2293.2	2267.4	2222.4	2189.0
20°	2707.7	2693.5	2672.1	2652.3	2617.8	2590.9	2556.9	2518.5	2481.2	2448.3	2416.5
22.5°	2894.1	2888.7	2865.6	2856.9	2827.3	2804.2	2774.6	2736.8	2709.9	2668.2	2638.6
25°	3054.8	3053.2	3042.2	3039.5	3018.6	2996.7	2990.1	2958.9	2934.2	2897.4	2866.7
27.5°	3193.0	3194.6	3191.9	3199.6	3194.1	3184.2	3184.8	3174.4	3160.1	3129.4	3102.5
30°	3346.5	3337.8	3342.7	3353.7	3356.9	3358.0	3376.1	3382.2	3381.1	3360.8	3347.6
32.5°	3563.7	3542.8	3523.6	3522.0	3533.0	3537.4	3568.1	3584.0	3597.7	3602.6	3604.8
35°	3840.6	3798.9	3758.9	3737.5	3718.9	3723.8	3745.7	3771.5	3801.7	3822.5	3847.2
37.5°	4189.3	4138.3	4067.6	4017.2	4004.5	3977.1	3991.4	4011.7	4041.3	4073.6	4116.4
40°	4612.1	4534.8	4455.3	4388.4	4352.2	4301.7	4301.2	4297.4	4315.4	4345.6	4405.9
42.5°	5019.0	4950.4	4866.0	4795.8	4748.6	4681.2	4667.5	4631.8	4640.1	4666.4	4725.1
45°	5400.1	5343.6	5292.0	5210.9	5170.9	5097.9	5074.9	5032.7	5009.1	5021.2	5079.8
47.5°	5769.1	5732.9	5679.2	5626.5	5595.8	5530.6	5501.0	5470.8	5440.6	5439.6	5501.0
50°	6488.5	6469.3	6405.7	6350.9	6365.7	6285.6	6290.6	6209.4	6246.2	6250.5	6379.4
52.5°	7164.6	7231.5	7278.7	7336.3	7373.6	7380.7	7405.4	7442.1	7486.5	7574.2	7693.8
55°	7551.8	7635.7	7684.5	7728.3	7800.7	7816.1	7857.2	7906.0	7944.9	8043.6	8145.1
57.5°	8011.8	8167.6	8243.2	8312.9	8410.5	8447.8	8516.3	8569.5	8619.9	8736.7	8859.6
60°	8295.3	8485.0	8639.1	8749.3	8871.6	8959.4	9063.0	9146.3	9264.8	9404.6	9587.8
62.5°	8069.9	8348.5	8553.0	8742.2	8908.4	9076.2	9224.8	9380.5	9560.3	9772.0	10056.0
65°	7172.3	7455.8	7806.2	8002.5	8222.4	8481.2	8707.1	8959.4	9204.5	9512.6	9932.7
67.5°	5774.0	6103.6	6497.3	6695.3	6948.0	7237.0	7490.3	7798.5	8084.8	8458.2	8977.5
70°	4161.9	4588.0	4919.2	5125.9	5420.9	5718.7	5963.2	6321.8	6558.7	6941.5	7478.3
72.5°	2635.3	2971.5	3377.2	3637.7	3899.8	4201.4	4451.4	4760.7	4981.7	5330.4	5816.8
75°	1416.9	1664.8	2021.2	2268.5	2549.2	2807.0	3099.8	3307.0	3470.5	3746.3	4141.1
77.5°	664.0	814.8	995.2	1185.5	1375.8	1574.3	1767.3	1935.1	2005.3	2163.2	2396.3
80°	403.0	451.8	504.5	563.1	642.7	706.8	791.8	853.2	857.6	907.5	978.8
82.5°	269.2	287.3	303.2	318.0	338.3	354.2	372.3	393.7	402.5	414.0	437.0
85°	183.7	192.5	195.8	205.1	202.9	208.4	215.5	222.6	226.5	225.9	236.3
87.5°	113.0	117.3	119.5	121.7	120.1	117.9	121.2	125.0	126.1	122.8	123.9
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: P200666

CATALOG NUMBER: GAP-AF-02-LED-U-T2R-8030-1200

**CANDELA DISTRIBUTION (continued):**

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	941.5	941.5	941.5	941.5	941.5	941.5	941.5	941.5	941.5	941.5	941.5
2.5°	1005.1	1000.2	995.2	992.0	990.9	961.8	949.2	941.0	923.4	909.2	897.6
5°	1108.7	1098.3	1090.1	1080.2	1074.7	1001.3	974.4	955.8	925.1	907.0	890.5
7.5°	1275.4	1246.4	1229.4	1210.2	1193.7	1061.0	1016.6	987.6	944.8	920.7	902.0
10°	1464.6	1434.5	1407.6	1378.0	1352.2	1140.6	1075.8	1030.9	974.4	943.1	918.5
12.5°	1675.7	1646.1	1612.1	1574.3	1541.4	1241.4	1151.5	1087.4	1010.0	968.4	933.8
15°	1925.2	1873.1	1832.0	1788.1	1749.8	1362.1	1239.8	1151.0	1047.9	991.4	945.3
17.5°	2157.2	2102.3	2046.4	2008.0	1963.6	1497.5	1328.6	1215.7	1079.1	1006.2	947.5
20°	2383.6	2323.9	2275.6	2224.1	2177.5	1637.9	1423.5	1272.7	1099.4	1006.8	933.8
22.5°	2583.2	2546.0	2492.2	2436.3	2389.1	1778.3	1512.3	1321.0	1107.1	994.1	909.7
25°	2810.3	2770.8	2705.0	2657.8	2605.2	1921.4	1599.5	1358.2	1102.7	970.6	872.4
27.5°	3052.6	3008.8	2941.3	2892.0	2828.3	2070.0	1679.6	1385.1	1086.3	932.2	822.5
30°	3305.4	3265.4	3199.0	3149.1	3085.0	2227.4	1769.0	1403.2	1053.4	879.0	764.4
32.5°	3576.8	3543.4	3477.6	3425.5	3356.9	2397.9	1852.3	1408.7	1003.5	815.9	703.0
35°	3834.6	3811.5	3756.1	3707.3	3636.1	2559.1	1940.6	1405.9	944.2	746.8	647.0
37.5°	4124.6	4110.9	4083.5	4021.5	3934.4	2777.9	2046.4	1394.4	871.9	678.3	604.3
40°	4433.9	4435.0	4405.4	4363.2	4282.0	3043.3	2172.5	1372.0	792.9	618.0	565.3
42.5°	4761.3	4778.3	4764.0	4733.8	4656.0	3310.9	2323.3	1344.5	716.1	559.3	527.0
45°	5136.3	5157.2	5179.1	5134.7	5059.0	3664.0	2521.8	1308.9	633.3	510.5	500.6
47.5°	5569.0	5601.9	5621.6	5622.1	5546.5	4101.6	2844.2	1287.5	559.9	477.6	488.0
50°	6481.9	6492.4	6539.0	6620.1	6562.0	5114.4	3407.4	1274.3	510.0	457.3	478.7
52.5°	7797.4	7912.0	7992.6	7987.1	7908.2	5757.6	3717.8	1206.4	480.3	449.6	474.3
55°	8333.2	8476.3	8625.4	8664.9	8603.5	6306.5	4011.1	1138.4	466.1	455.1	476.0
57.5°	9047.1	9288.4	9492.9	9579.0	9490.2	7008.9	4397.2	1102.7	461.7	469.9	486.4
60°	9881.1	10179.4	10448.1	10602.7	10602.7	7816.1	4797.4	1087.9	455.7	491.9	503.9
62.5°	10416.8	10855.0	11260.7	11487.2	11480.6	8378.1	4975.1	1037.5	442.0	507.2	528.1
65°	10419.0	10940.0	11457.1	11711.5	11724.6	8309.0	4681.7	916.3	416.7	509.4	552.2
67.5°	9550.5	10105.9	10708.6	10993.2	11059.0	7648.8	4052.8	753.4	375.6	487.5	561.0
70°	8066.1	8608.4	9223.7	9503.3	9620.1	6520.3	3264.3	580.7	323.0	439.2	542.9
72.5°	6354.7	6886.6	7314.9	7519.4	7610.4	4983.9	2377.1	438.7	264.8	370.1	494.1
75°	4499.1	4898.3	5125.9	5171.4	5185.7	3004.4	1444.3	326.3	218.2	287.9	417.3
77.5°	2539.4	2710.5	2691.8	2712.1	2543.2	1159.7	628.9	233.6	179.9	218.8	323.5
80°	991.4	1022.1	960.1	941.0	863.1	431.5	277.5	162.9	143.7	165.6	226.5
82.5°	437.0	451.3	438.1	441.4	422.2	222.6	166.1	117.9	109.7	121.2	150.2
85°	240.7	245.1	244.0	251.1	240.7	88.8	79.0	72.4	76.8	82.3	96.5
87.5°	117.3	118.4	114.6	120.6	116.8	45.0	38.9	41.1	45.0	46.1	46.1
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: P200666

CATALOG NUMBER: GAP-AF-02-LED-U-T2R-8030-1200

**CANDELA DISTRIBUTION (continued):**

	135°	145°	155°	165°	175°	180°
0°	941.5	941.5	941.5	941.5	941.5	941.5
2.5°	889.4	885.0	885.6	884.5	882.3	882.3
5°	881.7	877.3	877.3	876.3	873.5	874.1
7.5°	889.4	882.3	879.5	875.7	871.9	871.9
10°	898.2	885.6	877.9	871.3	866.4	866.4
12.5°	904.8	885.0	872.4	863.6	858.7	858.7
15°	907.0	881.2	863.6	853.2	848.8	848.3
17.5°	899.8	866.4	845.0	832.9	827.4	825.8
20°	877.9	839.5	813.7	800.0	792.4	789.6
22.5°	845.0	801.1	771.0	756.7	746.8	745.2
25°	798.9	751.8	722.2	708.5	703.0	701.3
27.5°	745.2	701.3	676.1	667.3	662.4	661.8
30°	694.2	656.9	638.3	631.7	625.7	624.6
32.5°	646.5	622.9	615.8	606.5	592.2	590.6
35°	612.5	610.3	605.4	584.5	567.0	562.1
37.5°	591.7	611.9	586.7	545.6	533.0	531.9
40°	579.6	595.0	551.6	537.4	538.5	537.4
42.5°	552.2	568.1	552.7	546.1	550.5	551.6
45°	524.8	542.3	561.0	556.6	567.0	567.0
47.5°	509.4	535.7	560.4	560.4	575.8	581.2
50°	491.9	530.2	551.6	559.3	571.4	567.0
52.5°	490.8	520.9	539.0	552.7	558.2	553.3
55°	492.4	513.2	526.4	541.8	548.3	548.9
57.5°	494.6	508.9	517.6	524.8	544.5	544.5
60°	500.1	505.0	510.0	513.8	539.6	540.1
62.5°	508.9	501.2	500.1	503.9	536.8	534.6
65°	522.6	495.7	487.5	491.3	534.1	527.5
67.5°	541.2	487.5	471.6	474.3	531.9	517.6
70°	558.2	474.3	451.8	449.1	511.1	485.8
72.5°	559.9	459.0	424.4	416.2	444.2	420.0
75°	532.4	448.5	394.3	370.1	366.8	363.6
77.5°	479.8	442.5	359.2	321.3	314.7	316.9
80°	401.4	420.0	316.9	272.0	307.6	303.8
82.5°	299.9	370.7	269.2	240.7	240.2	212.2
85°	166.7	289.0	219.3	180.4	125.6	121.7
87.5°	46.6	160.7	153.5	102.0	69.6	72.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)