

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: P200662

Luminaire Tested: **GAP-AF-02-LED-U-T2R-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200662  
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-8030-800  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 80 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: 8532 lumens  
Efficiency: N/A  
Efficacy: 99.2 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

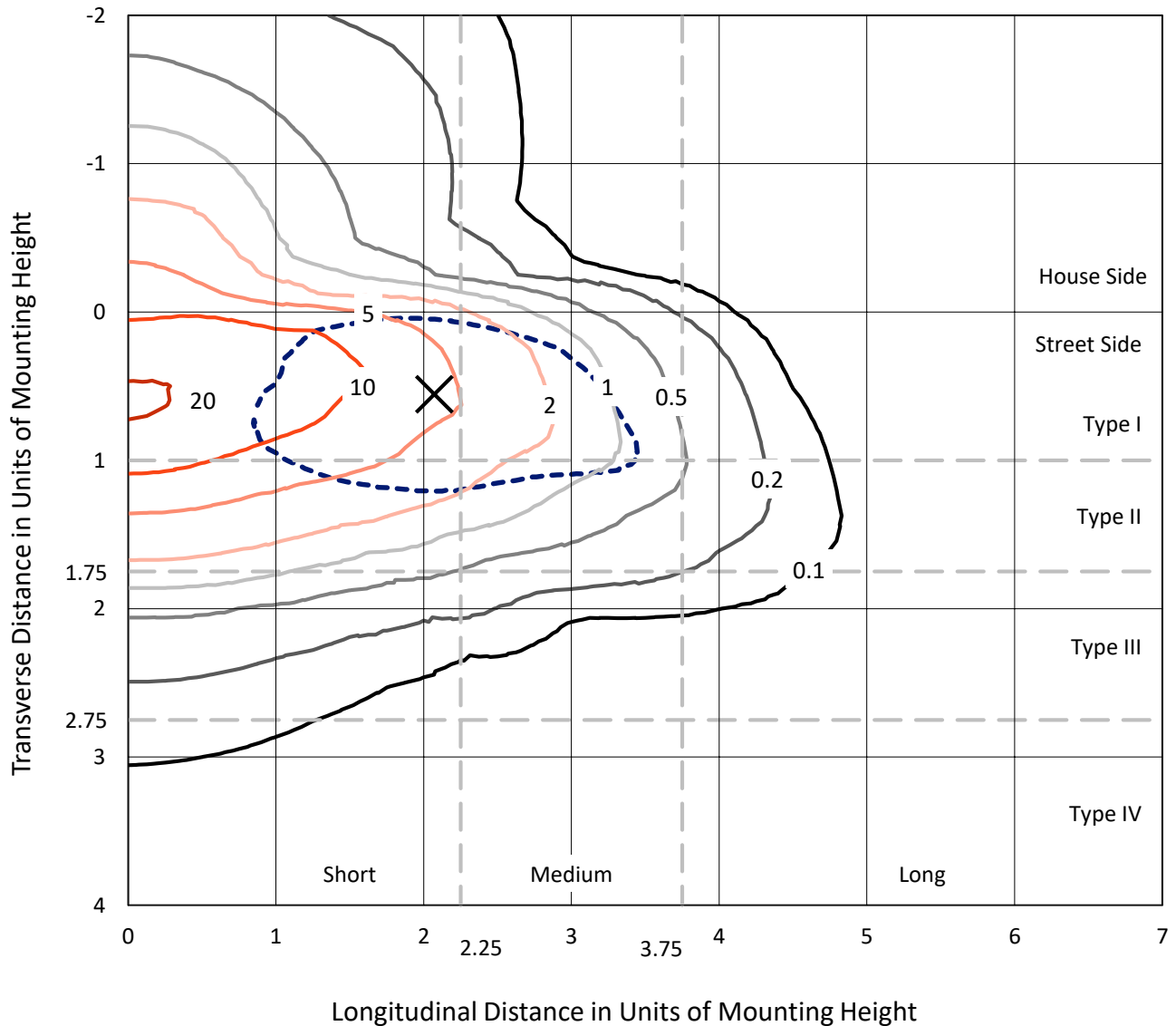
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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 CATALOG NUMBER: GAP-AF-02-LED-U-T2R-8030-800

### Iso-Footcandle Lines of Horizontal Illumination

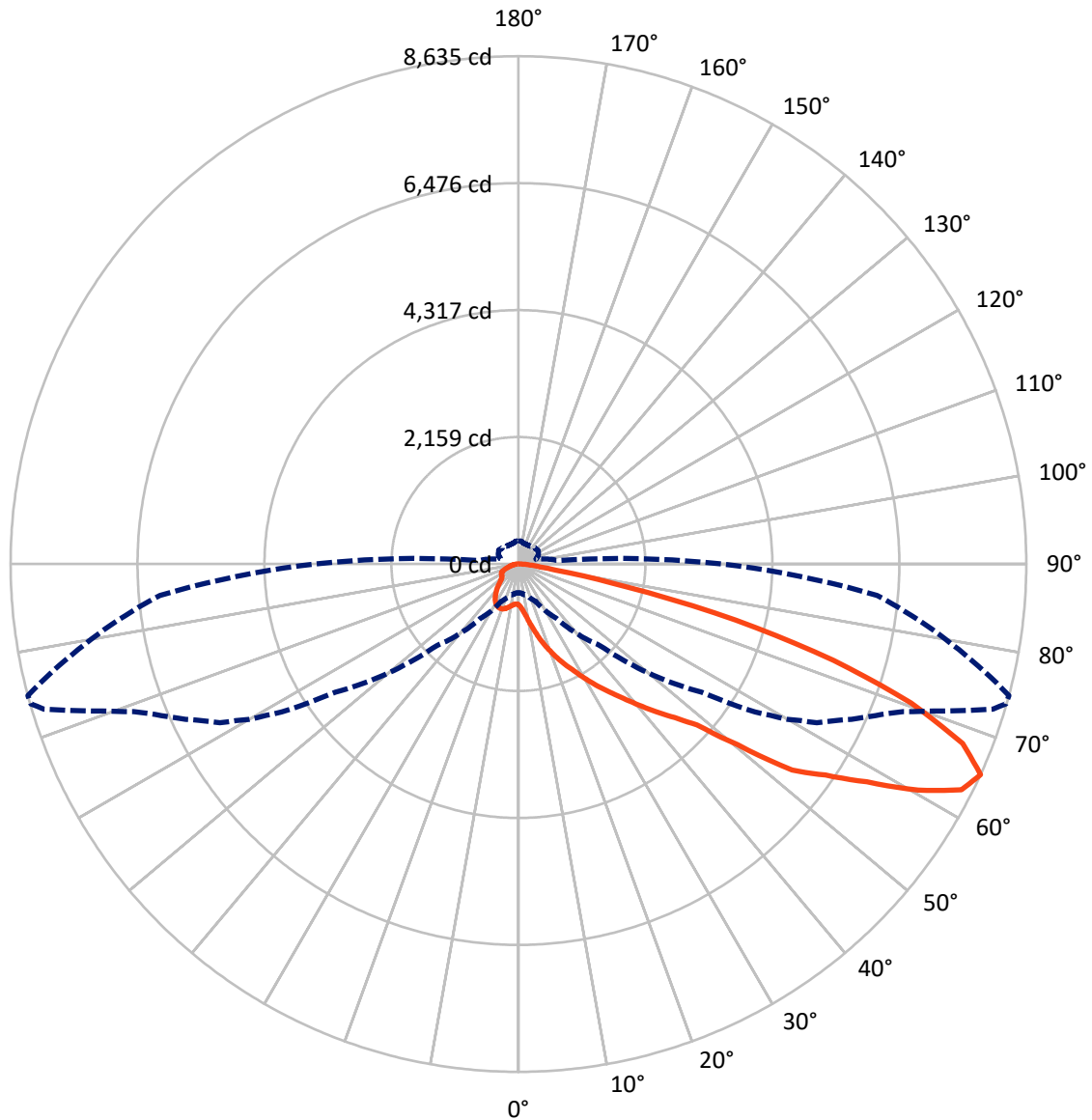
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.5 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



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



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1315.4	0.0	1315.4
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	7216.6	0.0	7216.6
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	8532.0	0.0	8532.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.7	1.0
10°-20°	334.9	3.9
20°-30°	687.0	8.1
30°-40°	1155.9	13.5
40°-50°	1597.1	18.7
50°-60°	1993.7	23.4
60°-70°	1794.1	21.0
70°-80°	752.1	8.8
80°-90°	131.4	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°	8532.0	100.0
0°-180°	8532.0	100.0



REPORT NUMBER: P200662

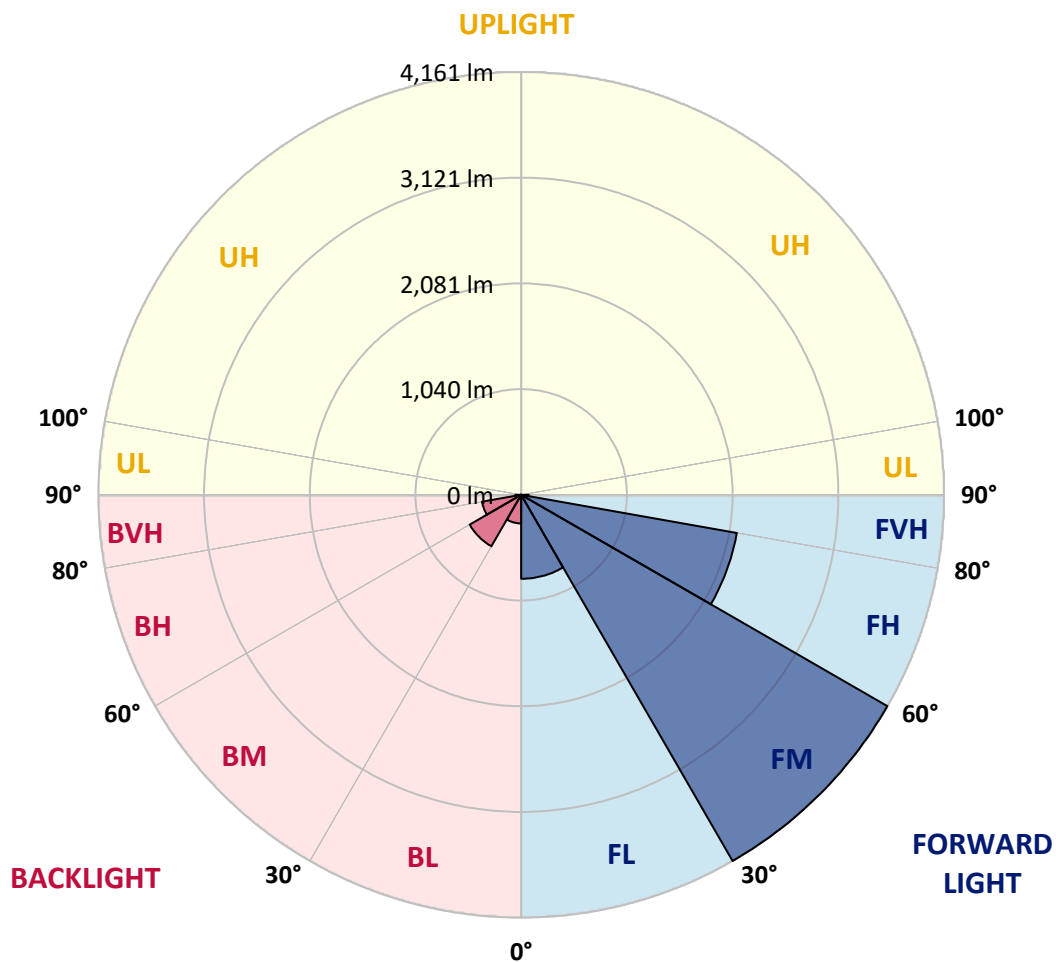
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	826.3	9.7			
FM (30°-60°)	4161.3	48.8			
FH (60°-80°)	2155.2	25.3			G2/5000
FVH (80°-90°)	73.9	0.9			G1/100
BL (0°-30°)	281.3	3.3	B1/500		
BM (30°-60°)	585.5	6.9	B1/1000		
BH (60°-80°)	391.1	4.6	B1/500		G1/500
BVH (80°-90°)	57.5	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: P200662  
 CATALOG NUMBER: GAP-AF-02-LED-U-T2R-8030-800

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	693.4	693.4	693.4	693.4	693.4	693.4	693.4	693.4	693.4	693.4	693.4
2.5°	880.4	870.7	873.1	856.9	837.2	811.3	782.6	782.2	782.6	779.8	769.3
5°	1220.8	1209.1	1204.6	1168.3	1115.0	1039.1	956.7	947.8	944.2	934.9	913.5
7.5°	1469.2	1462.7	1455.8	1428.4	1379.9	1295.1	1184.5	1165.5	1147.3	1142.9	1118.6
10°	1629.5	1627.9	1613.3	1606.1	1575.8	1502.3	1394.4	1376.3	1356.5	1349.6	1324.2
12.5°	1756.3	1755.9	1749.0	1751.0	1724.8	1671.5	1578.6	1562.0	1547.5	1526.5	1508.3
15°	1843.9	1844.3	1854.4	1865.7	1861.7	1825.7	1738.5	1731.2	1718.7	1704.2	1682.8
17.5°	1915.8	1917.8	1928.3	1948.9	1971.1	1968.3	1899.2	1893.2	1882.3	1862.5	1851.2
20°	2078.1	2085.8	2065.6	2065.6	2068.0	2079.0	2045.8	2041.0	2025.6	2015.1	2006.3
22.5°	2352.4	2361.2	2315.6	2269.2	2223.5	2190.4	2157.3	2163.4	2152.9	2145.6	2140.3
25°	2708.5	2715.4	2641.5	2563.2	2470.3	2349.1	2267.1	2263.5	2257.9	2253.4	2251.0
27.5°	3043.7	3046.5	2976.7	2862.0	2754.2	2580.1	2378.6	2374.2	2367.3	2358.8	2351.5
30°	3330.4	3329.6	3257.8	3148.3	3032.8	2840.2	2547.8	2534.1	2513.9	2490.9	2473.1
32.5°	3578.8	3577.6	3498.8	3385.4	3264.2	3097.8	2779.6	2751.3	2719.8	2675.0	2648.0
35°	3774.3	3773.5	3699.1	3580.8	3441.9	3340.5	3045.3	3010.6	2970.6	2910.5	2868.9
37.5°	3848.2	3848.2	3806.6	3725.8	3603.0	3533.6	3340.5	3298.5	3255.7	3187.5	3140.6
40°	3805.0	3805.8	3814.6	3799.7	3739.9	3686.6	3616.0	3590.9	3554.2	3492.8	3443.9
42.5°	3660.0	3664.4	3723.4	3795.7	3825.5	3817.1	3860.3	3849.0	3823.1	3775.9	3737.1
45°	3476.2	3490.0	3554.6	3691.1	3849.4	3929.7	4065.0	4066.2	4061.4	4035.9	4006.1
47.5°	3223.8	3243.2	3328.4	3513.0	3793.6	4039.2	4273.0	4283.9	4294.0	4277.4	4263.7
50°	2888.6	2911.7	3039.3	3284.0	3680.2	4152.7	4665.9	4715.2	4761.2	4755.6	4764.9
52.5°	2529.6	2556.7	2713.0	2985.6	3485.1	4178.9	4917.1	4997.5	5077.8	5143.7	5213.5
55°	2205.8	2191.2	2347.5	2634.6	3164.5	4060.6	5142.9	5239.8	5329.4	5410.2	5493.4
57.5°	1766.8	1790.6	1947.3	2231.2	2740.0	3726.6	5298.3	5440.1	5568.9	5702.6	5820.5
60°	1291.5	1315.3	1485.3	1773.7	2279.3	3220.2	5179.6	5394.5	5600.8	5805.6	5965.5
62.5°	779.8	797.6	947.4	1222.0	1757.5	2619.7	4650.6	4932.5	5236.2	5480.9	5726.0
65°	485.4	495.5	550.8	701.9	1128.7	1955.8	3799.7	4107.0	4434.1	4744.7	4999.5
67.5°	397.4	401.0	411.1	443.4	619.9	1275.3	2828.1	3100.3	3395.5	3695.9	3979.4
70°	357.4	355.0	355.0	357.0	397.4	685.7	1851.6	2028.9	2274.8	2536.1	2795.4
72.5°	322.7	320.2	315.8	309.7	324.3	418.4	957.1	1090.8	1268.0	1500.3	1748.6
75°	290.0	286.7	281.5	273.8	283.9	315.8	459.6	515.7	602.1	725.7	864.2
77.5°	256.0	252.0	247.1	241.5	254.4	245.5	269.4	289.6	322.7	362.2	414.3
80°	217.7	214.0	212.4	209.6	224.9	187.0	190.2	202.7	222.1	243.5	267.7
82.5°	170.4	170.4	176.9	178.1	195.1	134.5	142.2	153.1	163.2	174.5	185.8
85°	112.3	113.1	134.9	143.4	153.9	90.5	106.6	110.2	118.3	124.8	129.6
87.5°	35.1	38.0	82.4	91.3	88.4	51.3	65.4	67.0	72.7	77.1	81.2
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: P200662

CATALOG NUMBER: GAP-AF-02-LED-U-T2R-8030-800

**CANDELA DISTRIBUTION (continued):**

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	693.4	693.4	693.4	693.4	693.4	693.4	693.4	693.4	693.4	693.4	693.4
2.5°	769.3	764.5	760.0	759.6	756.4	751.9	753.6	746.7	747.1	743.5	739.4
5°	904.6	901.4	885.2	880.8	868.7	861.0	859.8	843.6	841.6	832.3	822.2
7.5°	1099.2	1088.7	1066.1	1055.2	1034.6	1019.3	1012.0	990.6	980.1	955.9	945.0
10°	1303.2	1289.9	1262.0	1246.6	1226.9	1202.2	1188.9	1157.8	1145.7	1123.5	1096.8
12.5°	1492.2	1478.9	1450.2	1438.5	1412.2	1386.0	1371.4	1336.3	1320.5	1285.0	1264.0
15°	1667.0	1653.7	1628.7	1616.6	1590.3	1568.9	1549.5	1514.8	1496.2	1463.1	1435.6
17.5°	1836.7	1822.5	1800.7	1789.8	1764.4	1742.6	1721.6	1688.8	1669.9	1636.8	1612.1
20°	1994.1	1983.6	1967.9	1953.4	1927.9	1908.1	1883.1	1854.8	1827.4	1803.1	1779.7
22.5°	2131.5	2127.4	2110.5	2104.0	2082.2	2065.2	2043.4	2015.6	1995.8	1965.1	1943.3
25°	2249.8	2248.6	2240.5	2238.5	2223.1	2207.0	2202.1	2179.1	2160.9	2133.9	2111.3
27.5°	2351.5	2352.8	2350.7	2356.4	2352.4	2345.1	2345.5	2337.8	2327.3	2304.7	2284.9
30°	2464.6	2458.2	2461.8	2469.9	2472.3	2473.1	2486.4	2490.9	2490.1	2475.1	2465.4
32.5°	2624.5	2609.2	2595.1	2593.8	2601.9	2605.2	2627.8	2639.5	2649.6	2653.2	2654.8
35°	2828.5	2797.8	2768.3	2752.6	2738.8	2742.5	2758.6	2777.6	2799.8	2815.1	2833.3
37.5°	3085.3	3047.8	2995.7	2958.5	2949.2	2929.0	2939.5	2954.5	2976.3	3000.1	3031.6
40°	3396.7	3339.7	3281.2	3231.9	3205.3	3168.1	3167.7	3164.9	3178.2	3200.4	3244.8
42.5°	3696.3	3645.8	3583.6	3532.0	3497.2	3447.6	3437.5	3411.2	3417.3	3436.7	3479.9
45°	3977.0	3935.4	3897.4	3837.7	3808.2	3754.5	3737.5	3706.4	3689.1	3697.9	3741.1
47.5°	4248.8	4222.1	4182.5	4143.8	4121.2	4073.1	4051.3	4029.1	4006.9	4006.1	4051.3
50°	4778.6	4764.5	4717.6	4677.2	4688.1	4629.2	4632.8	4573.1	4600.1	4603.3	4698.2
52.5°	5276.5	5325.8	5360.5	5402.9	5430.4	5435.6	5453.8	5480.9	5513.6	5578.2	5666.2
55°	5561.6	5623.4	5659.4	5691.7	5745.0	5756.3	5786.6	5822.5	5851.2	5923.9	5998.6
57.5°	5900.5	6015.2	6070.9	6122.2	6194.1	6221.5	6272.0	6311.2	6348.3	6434.3	6524.8
60°	6109.2	6249.0	6362.5	6443.6	6533.7	6598.3	6674.6	6736.0	6823.2	6926.2	7061.1
62.5°	5943.3	6148.4	6299.1	6438.4	6560.7	6684.3	6793.8	6908.4	7040.9	7196.8	7406.0
65°	5282.2	5491.0	5749.0	5893.6	6055.5	6246.1	6412.5	6598.3	6778.8	7005.8	7315.1
67.5°	4252.4	4495.1	4785.1	4930.9	5117.0	5329.8	5516.4	5743.4	5954.2	6229.2	6611.6
70°	3065.1	3378.9	3622.8	3775.1	3992.3	4211.6	4391.7	4655.8	4830.3	5112.2	5507.5
72.5°	1940.8	2188.4	2487.2	2679.1	2872.1	3094.2	3278.3	3506.1	3668.9	3925.7	4283.9
75°	1043.5	1226.0	1488.5	1670.7	1877.4	2067.2	2282.9	2435.5	2555.9	2759.0	3049.8
77.5°	489.0	600.1	733.0	873.1	1013.2	1159.4	1301.6	1425.1	1476.8	1593.1	1764.8
80°	296.8	332.8	371.5	414.7	473.3	520.5	583.1	628.4	631.6	668.4	720.8
82.5°	198.3	211.6	223.3	234.2	249.2	260.9	274.2	290.0	296.4	304.9	321.9
85°	135.3	141.7	144.2	151.0	149.4	153.5	158.7	164.0	166.8	166.4	174.1
87.5°	83.2	86.4	88.0	89.7	88.4	86.8	89.2	92.1	92.9	90.5	91.3
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: P200662  
 CATALOG NUMBER: GAP-AF-02-LED-U-T2R-8030-800

**CANDELA DISTRIBUTION (continued):**

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	693.4	693.4	693.4	693.4	693.4	693.4	693.4	693.4	693.4	693.4	693.4
2.5°	740.2	736.6	733.0	730.5	729.7	708.3	699.0	693.0	680.1	669.6	661.1
5°	816.6	808.9	802.8	795.6	791.5	737.4	717.6	703.9	681.3	667.9	655.8
7.5°	939.3	917.9	905.4	891.3	879.2	781.4	748.7	727.3	695.8	678.0	664.3
10°	1078.6	1056.4	1036.6	1014.8	995.9	840.0	792.3	759.2	717.6	694.6	676.4
12.5°	1234.1	1212.3	1187.3	1159.4	1135.2	914.3	848.1	800.8	743.9	713.2	687.7
15°	1417.9	1379.5	1349.2	1316.9	1288.6	1003.1	913.1	847.7	771.7	730.1	696.2
17.5°	1588.7	1548.3	1507.1	1478.9	1446.1	1102.9	978.5	895.3	794.8	741.0	697.8
20°	1755.5	1711.5	1675.9	1638.0	1603.6	1206.3	1048.4	937.3	809.7	741.4	687.7
22.5°	1902.5	1875.0	1835.4	1794.2	1759.5	1309.6	1113.8	972.8	815.3	732.2	670.0
25°	2069.7	2040.6	1992.1	1957.4	1918.6	1415.0	1178.0	1000.3	812.1	714.8	642.5
27.5°	2248.2	2215.9	2166.2	2129.8	2083.0	1524.5	1237.0	1020.1	800.0	686.5	605.8
30°	2434.3	2404.8	2356.0	2319.2	2272.0	1640.4	1302.8	1033.4	775.8	647.4	562.9
32.5°	2634.2	2609.6	2561.1	2522.8	2472.3	1766.0	1364.2	1037.5	739.0	600.9	517.7
35°	2824.0	2807.1	2766.3	2730.3	2677.8	1884.7	1429.2	1035.4	695.4	550.0	476.5
37.5°	3037.7	3027.6	3007.4	2961.7	2897.5	2045.8	1507.1	1027.0	642.1	499.5	445.0
40°	3265.4	3266.2	3244.4	3213.3	3153.6	2241.3	1600.0	1010.4	583.9	455.1	416.4
42.5°	3506.5	3519.0	3508.5	3486.3	3429.0	2438.4	1711.1	990.2	527.4	411.9	388.1
45°	3782.7	3798.1	3814.2	3781.5	3725.8	2698.4	1857.2	964.0	466.4	376.0	368.7
47.5°	4101.4	4125.6	4140.1	4140.5	4084.8	3020.7	2094.7	948.2	412.3	351.7	359.4
50°	4773.8	4781.4	4815.8	4875.5	4832.7	3766.6	2509.4	938.5	375.6	336.8	352.5
52.5°	5742.6	5827.0	5886.3	5882.3	5824.1	4240.3	2738.0	888.4	353.8	331.1	349.3
55°	6137.1	6242.5	6352.4	6381.4	6336.2	4644.5	2954.1	838.4	343.3	335.2	350.5
57.5°	6662.9	6840.6	6991.2	7054.6	6989.2	5161.8	3238.4	812.1	340.0	346.1	358.2
60°	7277.1	7496.8	7694.7	7808.6	7808.6	5756.3	3533.2	801.2	335.6	362.2	371.1
62.5°	7671.7	7994.4	8293.2	8460.0	8455.1	6170.2	3664.0	764.1	325.5	373.5	388.9
65°	7673.3	8057.0	8437.8	8625.2	8634.8	6119.3	3448.0	674.8	306.9	375.2	406.7
67.5°	7033.6	7442.7	7886.5	8096.1	8144.6	5633.1	2984.8	554.9	276.6	359.0	413.1
70°	5940.4	6339.8	6792.9	6998.9	7084.9	4802.0	2404.0	427.7	237.9	323.5	399.8
72.5°	4680.1	5071.8	5387.2	5537.8	5604.9	3670.5	1750.6	323.1	195.1	272.6	363.9
75°	3313.5	3607.5	3775.1	3808.6	3819.1	2212.6	1063.7	240.3	160.7	212.0	307.3
77.5°	1870.2	1996.2	1982.4	1997.4	1873.0	854.1	463.2	172.0	132.5	161.1	238.3
80°	730.1	752.8	707.1	693.0	635.6	317.8	204.3	119.9	105.8	122.0	166.8
82.5°	321.9	332.4	322.7	325.1	311.0	164.0	122.4	86.8	80.8	89.2	110.7
85°	177.3	180.5	179.7	185.0	177.3	65.4	58.2	53.3	56.5	60.6	71.1
87.5°	86.4	87.2	84.4	88.8	86.0	33.1	28.7	30.3	33.1	33.9	33.9
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: P200662

CATALOG NUMBER: GAP-AF-02-LED-U-T2R-8030-800

**CANDELA DISTRIBUTION (continued):**

	135°	145°	155°	165°	175°	180°
0°	693.4	693.4	693.4	693.4	693.4	693.4
2.5°	655.0	651.8	652.2	651.4	649.8	649.8
5°	649.4	646.1	646.1	645.3	643.3	643.7
7.5°	655.0	649.8	647.8	644.9	642.1	642.1
10°	661.5	652.2	646.5	641.7	638.1	638.1
12.5°	666.3	651.8	642.5	636.0	632.4	632.4
15°	667.9	649.0	636.0	628.4	625.1	624.7
17.5°	662.7	638.1	622.3	613.4	609.4	608.2
20°	646.5	618.3	599.3	589.2	583.5	581.5
22.5°	622.3	590.0	567.8	557.3	550.0	548.8
25°	588.4	553.7	531.9	521.8	517.7	516.5
27.5°	548.8	516.5	497.9	491.5	487.8	487.4
30°	511.3	483.8	470.1	465.2	460.8	460.0
32.5°	476.1	458.8	453.5	446.6	436.1	434.9
35°	451.1	449.5	445.8	430.5	417.6	413.9
37.5°	435.7	450.7	432.1	401.8	392.5	391.7
40°	426.9	438.2	406.3	395.8	396.6	395.8
42.5°	406.7	418.4	407.1	402.2	405.5	406.3
45°	386.5	399.4	413.1	409.9	417.6	417.6
47.5°	375.2	394.5	412.7	412.7	424.0	428.1
50°	362.2	390.5	406.3	411.9	420.8	417.6
52.5°	361.4	383.6	397.0	407.1	411.1	407.5
55°	362.6	378.0	387.7	399.0	403.8	404.2
57.5°	364.3	374.8	381.2	386.5	401.0	401.0
60°	368.3	371.9	375.6	378.4	397.4	397.8
62.5°	374.8	369.1	368.3	371.1	395.4	393.7
65°	384.9	365.1	359.0	361.8	393.3	388.5
67.5°	398.6	359.0	347.3	349.3	391.7	381.2
70°	411.1	349.3	332.8	330.7	376.4	357.8
72.5°	412.3	338.0	312.6	306.5	327.1	309.3
75°	392.1	330.3	290.4	272.6	270.2	267.7
77.5°	353.4	325.9	264.5	236.6	231.8	233.4
80°	295.6	309.3	233.4	200.3	226.6	223.7
82.5°	220.9	273.0	198.3	177.3	176.9	156.3
85°	122.8	212.8	161.5	132.9	92.5	89.7
87.5°	34.3	118.3	113.1	75.1	51.3	53.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)