

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: P200663

Luminaire Tested: **GAP-AF-01-LED-U-T2R-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200663
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-8030
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5404 lumens
Efficiency: N/A
Efficacy: 91.6 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 - G1

Input Watts (W): 59
Input Voltage (V): NR
Input Current (A_{in}): 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

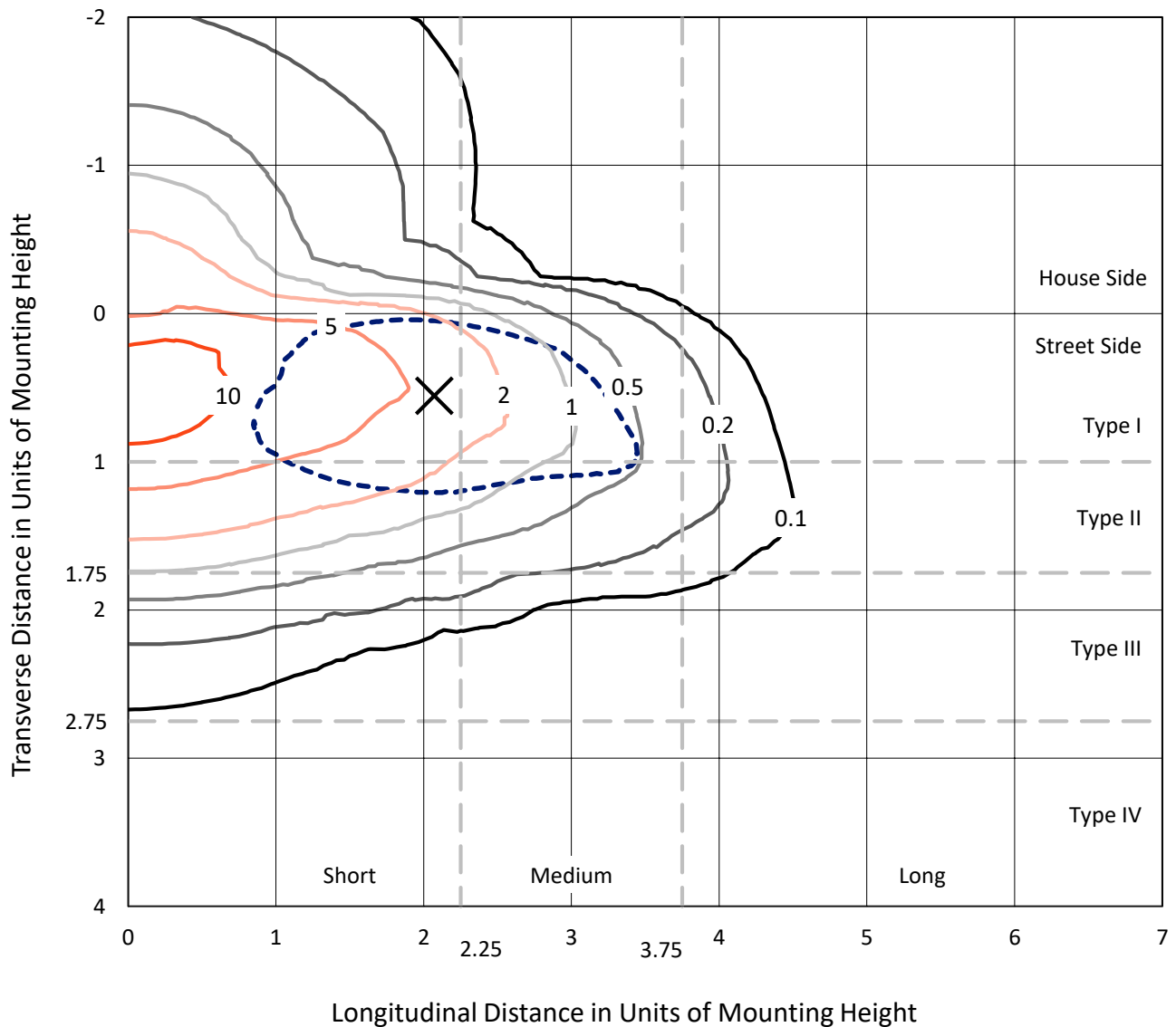


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Iso-Footcandle Lines of Horizontal Illumination

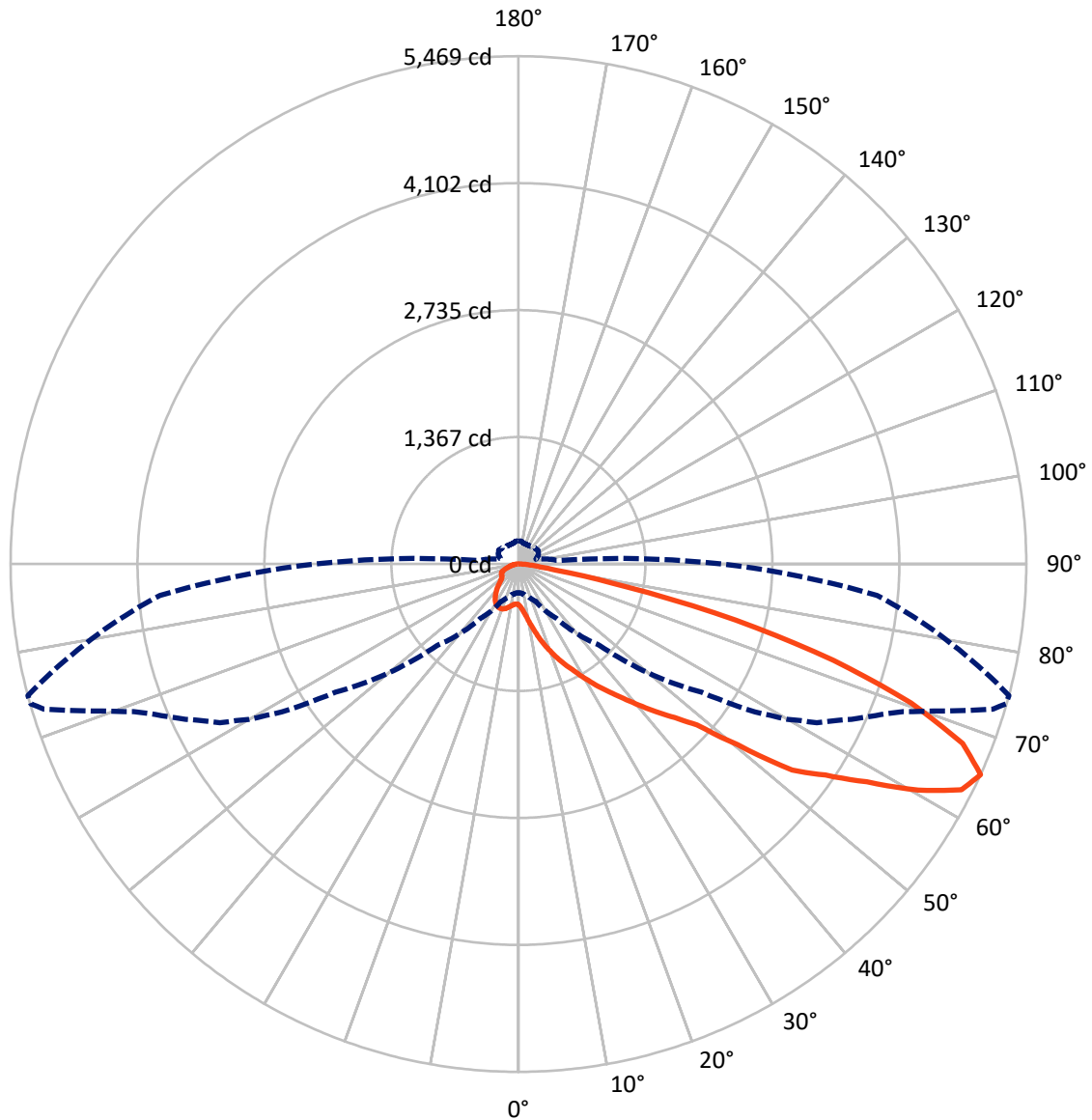
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.6 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
House Side	Lumens	833.2	0.0	833.2
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	4570.8	0.0	4570.8
	% Fixture	84.6	0.0	84.6
Total	Lumens	5404.0	0.0	5404.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.3	1.0
10°-20°	212.1	3.9
20°-30°	435.2	8.1
30°-40°	732.1	13.5
40°-50°	1011.6	18.7
50°-60°	1262.8	23.4
60°-70°	1136.4	21.0
70°-80°	476.4	8.8
80°-90°	83.2	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°	5404.0	100.0
0°-180°	5404.0	100.0



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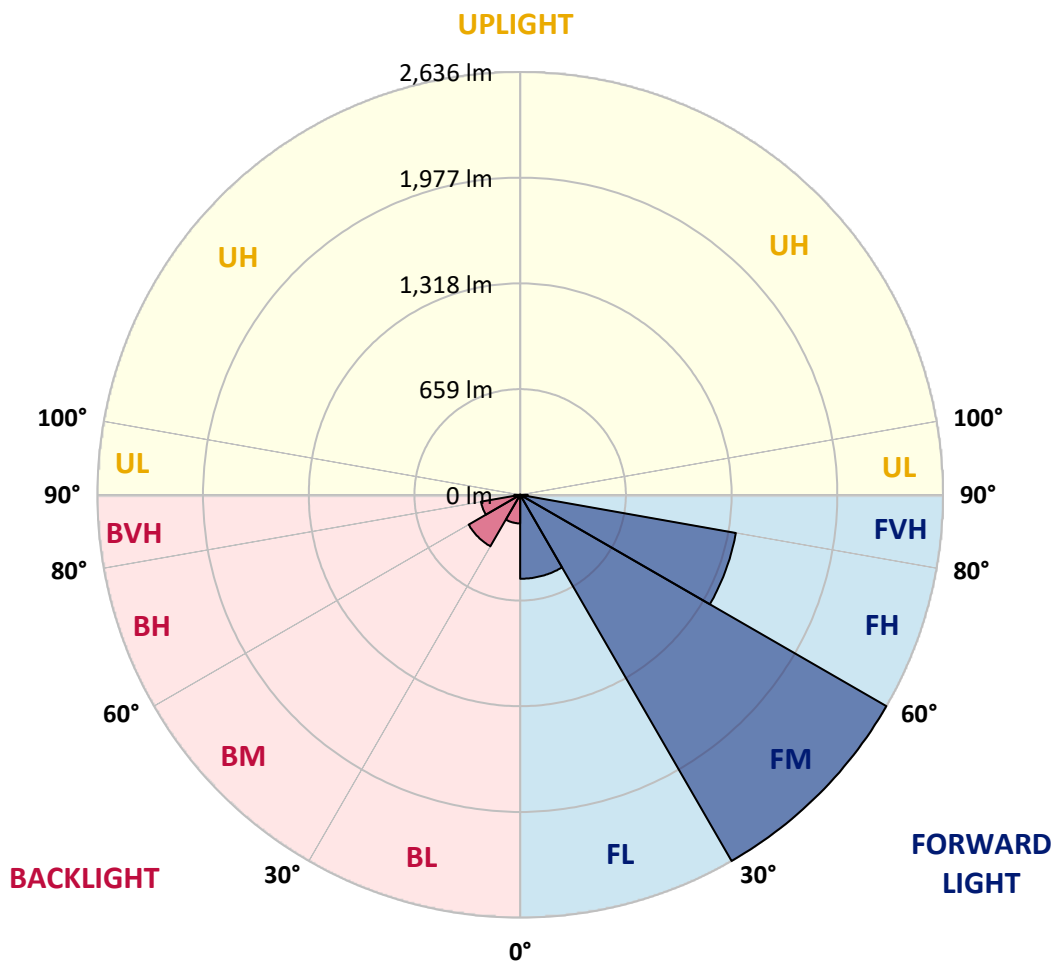
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	523.4	9.7			
FM	(30°-60°)	2635.7	48.8			
FH	(60°-80°)	1365.0	25.3			G1/1800
FVH	(80°-90°)	46.8	0.9			G1/100
BL	(0°-30°)	178.2	3.3	B1/500		
BM	(30°-60°)	370.9	6.9	B1/1000		
BH	(60°-80°)	247.7	4.6	B1/500		G1/500
BVH	(80°-90°)	36.4	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	439.2	439.2	439.2	439.2	439.2	439.2	439.2	439.2	439.2	439.2	439.2
2.5°	557.6	551.5	553.0	542.8	530.2	513.9	495.7	495.5	495.7	493.9	487.3
5°	773.2	765.8	763.0	740.0	706.2	658.1	605.9	600.3	598.0	592.1	578.6
7.5°	930.5	926.4	922.1	904.7	874.0	820.3	750.2	738.2	726.7	723.9	708.5
10°	1032.1	1031.1	1021.9	1017.2	998.1	951.5	883.2	871.7	859.2	854.8	838.7
12.5°	1112.4	1112.1	1107.8	1109.1	1092.4	1058.7	999.9	989.4	980.2	966.9	955.3
15°	1167.9	1168.2	1174.6	1181.7	1179.2	1156.4	1101.1	1096.5	1088.6	1079.4	1065.8
17.5°	1213.4	1214.7	1221.4	1234.4	1248.5	1246.7	1202.9	1199.1	1192.2	1179.7	1172.5
20°	1316.3	1321.1	1308.3	1308.3	1309.9	1316.8	1295.8	1292.7	1283.0	1276.4	1270.7
22.5°	1489.9	1495.6	1466.7	1437.2	1408.3	1387.4	1366.4	1370.2	1363.6	1359.0	1355.6
25°	1715.5	1719.9	1673.1	1623.5	1564.6	1487.9	1436.0	1433.7	1430.1	1427.3	1425.7
27.5°	1927.8	1929.6	1885.4	1812.7	1744.4	1634.2	1506.6	1503.7	1499.4	1494.0	1489.4
30°	2109.4	2108.9	2063.4	1994.1	1920.9	1798.9	1613.7	1605.0	1592.2	1577.7	1566.4
32.5°	2266.7	2266.0	2216.1	2144.2	2067.5	1962.1	1760.6	1742.6	1722.7	1694.3	1677.2
35°	2390.5	2390.0	2343.0	2268.0	2180.0	2115.8	1928.9	1906.9	1881.5	1843.4	1817.1
37.5°	2437.4	2437.4	2411.0	2359.8	2282.1	2238.1	2115.8	2089.2	2062.1	2018.9	1989.2
40°	2410.0	2410.5	2416.1	2406.7	2368.8	2335.0	2290.3	2274.4	2251.1	2212.3	2181.3
42.5°	2318.2	2321.0	2358.3	2404.1	2423.0	2417.7	2445.0	2437.9	2421.5	2391.6	2367.0
45°	2201.8	2210.5	2251.4	2337.9	2438.1	2489.0	2574.7	2575.5	2572.4	2556.3	2537.4
47.5°	2041.9	2054.2	2108.2	2225.1	2402.8	2558.3	2706.4	2713.3	2719.7	2709.2	2700.6
50°	1829.6	1844.2	1925.0	2080.0	2330.9	2630.2	2955.3	2986.5	3015.7	3012.1	3018.0
52.5°	1602.2	1619.4	1718.3	1891.0	2207.4	2646.8	3114.4	3165.3	3216.2	3257.9	3302.2
55°	1397.1	1387.9	1486.9	1668.7	2004.3	2571.9	3257.4	3318.8	3375.6	3426.7	3479.4
57.5°	1119.0	1134.1	1233.4	1413.2	1735.5	2360.4	3355.9	3445.6	3527.2	3611.9	3686.6
60°	818.0	833.1	940.8	1123.4	1443.6	2039.6	3280.7	3416.7	3547.4	3677.1	3778.4
62.5°	493.9	505.2	600.1	774.0	1113.2	1659.3	2945.6	3124.1	3316.5	3471.5	3626.7
65°	307.5	313.8	348.9	444.5	714.9	1238.8	2406.7	2601.3	2808.5	3005.2	3166.6
67.5°	251.7	254.0	260.4	280.8	392.6	807.8	1791.2	1963.6	2150.6	2340.9	2520.5
70°	226.4	224.8	224.8	226.1	251.7	434.3	1172.8	1285.1	1440.8	1606.3	1770.5
72.5°	204.4	202.8	200.0	196.2	205.4	265.0	606.2	690.9	803.2	950.2	1107.5
75°	183.7	181.6	178.3	173.4	179.8	200.0	291.1	326.6	381.4	459.6	547.4
77.5°	162.2	159.6	156.5	153.0	161.1	155.5	170.6	183.4	204.4	229.4	262.4
80°	137.9	135.6	134.5	132.8	142.5	118.4	120.5	128.4	140.7	154.2	169.6
82.5°	107.9	107.9	112.0	112.8	123.5	85.2	90.0	96.9	103.3	110.5	117.7
85°	71.1	71.6	85.4	90.8	97.5	57.3	67.5	69.8	74.9	79.0	82.1
87.5°	22.3	24.0	52.2	57.8	56.0	32.5	41.4	42.5	46.0	48.9	51.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	439.2	439.2	439.2	439.2	439.2	439.2	439.2	439.2	439.2	439.2	439.2
2.5°	487.3	484.2	481.4	481.1	479.1	476.3	477.3	472.9	473.2	470.9	468.3
5°	573.0	570.9	560.7	557.9	550.2	545.3	544.6	534.3	533.1	527.2	520.8
7.5°	696.2	689.6	675.3	668.4	655.3	645.6	641.0	627.4	620.8	605.4	598.5
10°	825.4	817.0	799.3	789.6	777.1	761.5	753.0	733.3	725.7	711.6	694.7
12.5°	945.1	936.7	918.5	911.1	894.5	877.8	868.6	846.4	836.4	813.9	800.6
15°	1055.9	1047.4	1031.6	1023.9	1007.3	993.7	981.4	959.4	947.7	926.7	909.3
17.5°	1163.3	1154.3	1140.5	1133.6	1117.5	1103.7	1090.4	1069.7	1057.7	1036.7	1021.1
20°	1263.1	1256.4	1246.4	1237.2	1221.1	1208.6	1192.7	1174.8	1157.4	1142.1	1127.2
22.5°	1350.0	1347.5	1336.7	1332.6	1318.8	1308.1	1294.3	1276.6	1264.1	1244.6	1230.8
25°	1425.0	1424.2	1419.1	1417.8	1408.1	1397.9	1394.8	1380.2	1368.7	1351.6	1337.2
27.5°	1489.4	1490.2	1488.9	1492.5	1489.9	1485.3	1485.6	1480.7	1474.1	1459.8	1447.2
30°	1561.0	1556.9	1559.2	1564.4	1565.9	1566.4	1574.9	1577.7	1577.2	1567.7	1561.6
32.5°	1662.3	1652.6	1643.7	1642.9	1648.0	1650.1	1664.4	1671.8	1678.2	1680.5	1681.5
35°	1791.5	1772.1	1753.4	1743.4	1734.7	1737.0	1747.2	1759.3	1773.3	1783.1	1794.6
37.5°	1954.2	1930.4	1897.4	1873.9	1868.0	1855.2	1861.8	1871.3	1885.1	1900.2	1920.2
40°	2151.4	2115.3	2078.2	2047.0	2030.1	2006.6	2006.4	2004.6	2013.0	2027.1	2055.2
42.5°	2341.2	2309.2	2269.8	2237.1	2215.1	2183.6	2177.2	2160.6	2164.4	2176.7	2204.1
45°	2518.9	2492.6	2468.6	2430.7	2412.0	2378.0	2367.3	2347.6	2336.6	2342.2	2369.6
47.5°	2691.1	2674.2	2649.1	2624.6	2610.3	2579.8	2566.0	2551.9	2537.9	2537.4	2566.0
50°	3026.7	3017.7	2988.0	2962.5	2969.4	2932.0	2934.3	2896.5	2913.6	2915.7	2975.8
52.5°	3342.1	3373.3	3395.3	3422.1	3439.5	3442.8	3454.3	3471.5	3492.2	3533.1	3588.9
55°	3522.6	3561.8	3584.5	3605.0	3638.8	3645.9	3665.1	3687.9	3706.0	3752.1	3799.4
57.5°	3737.2	3809.9	3845.2	3877.7	3923.2	3940.6	3972.6	3997.4	4020.9	4075.4	4132.7
60°	3869.5	3958.0	4029.9	4081.3	4138.3	4179.2	4227.6	4266.5	4321.7	4386.9	4472.4
62.5°	3764.3	3894.3	3989.7	4077.9	4155.4	4233.7	4303.0	4375.7	4459.6	4558.3	4690.8
65°	3345.6	3477.9	3641.3	3732.9	3835.5	3956.2	4061.6	4179.2	4293.6	4437.3	4633.2
67.5°	2693.4	2847.1	3030.8	3123.1	3241.0	3375.8	3494.0	3637.7	3771.3	3945.4	4187.7
70°	1941.4	2140.1	2294.6	2391.1	2528.7	2667.6	2781.6	2948.9	3059.4	3237.9	3488.4
72.5°	1229.3	1386.1	1575.4	1696.9	1819.1	1959.8	2076.4	2220.7	2323.8	2486.5	2713.3
75°	660.9	776.6	942.8	1058.2	1189.1	1309.4	1445.9	1542.6	1618.8	1747.5	1931.7
77.5°	309.8	380.1	464.2	553.0	641.8	734.4	824.4	902.7	935.4	1009.1	1117.8
80°	188.0	210.8	235.3	262.7	299.8	329.7	369.3	398.0	400.0	423.3	456.6
82.5°	125.6	134.0	141.4	148.4	157.8	165.2	173.7	183.7	187.7	193.1	203.9
85°	85.7	89.8	91.3	95.7	94.6	97.2	100.5	103.8	105.6	105.4	110.2
87.5°	52.7	54.7	55.8	56.8	56.0	55.0	56.5	58.3	58.8	57.3	57.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	439.2	439.2	439.2	439.2	439.2	439.2	439.2	439.2	439.2	439.2	439.2
2.5°	468.8	466.5	464.2	462.7	462.2	448.6	442.8	438.9	430.7	424.1	418.7
5°	517.2	512.3	508.5	503.9	501.3	467.1	454.5	445.8	431.5	423.1	415.4
7.5°	594.9	581.4	573.5	564.5	556.8	494.9	474.2	460.7	440.7	429.5	420.8
10°	683.2	669.1	656.6	642.8	630.8	532.0	501.8	480.9	454.5	439.9	428.4
12.5°	781.7	767.9	752.0	734.4	719.0	579.1	537.1	507.2	471.2	451.7	435.6
15°	898.1	873.8	854.6	834.1	816.2	635.4	578.3	536.9	488.8	462.5	441.0
17.5°	1006.2	980.7	954.6	936.7	916.0	698.5	619.8	567.1	503.4	469.4	442.0
20°	1111.9	1084.0	1061.5	1037.5	1015.7	764.0	664.0	593.7	512.8	469.6	435.6
22.5°	1205.0	1187.6	1162.5	1136.4	1114.4	829.5	705.4	616.2	516.4	463.7	424.3
25°	1310.9	1292.5	1261.8	1239.8	1215.2	896.3	746.1	633.6	514.4	452.7	406.9
27.5°	1423.9	1403.5	1372.0	1349.0	1319.3	965.6	783.5	646.1	506.7	434.8	383.7
30°	1541.9	1523.2	1492.2	1469.0	1439.0	1039.0	825.2	654.5	491.4	410.0	356.6
32.5°	1668.5	1652.9	1622.2	1597.9	1565.9	1118.5	864.0	657.1	468.1	380.6	327.9
35°	1788.7	1777.9	1752.1	1729.3	1696.1	1193.7	905.2	655.8	440.5	348.4	301.8
37.5°	1924.0	1917.6	1904.8	1875.9	1835.2	1295.8	954.6	650.5	406.7	316.4	281.9
40°	2068.3	2068.8	2055.0	2035.3	1997.4	1419.6	1013.4	640.0	369.9	288.3	263.7
42.5°	2221.0	2228.9	2222.2	2208.2	2171.8	1544.4	1083.8	627.2	334.1	260.9	245.8
45°	2395.9	2405.6	2415.9	2395.1	2359.8	1709.1	1176.3	610.6	295.4	238.1	233.5
47.5°	2597.7	2613.1	2622.3	2622.5	2587.2	1913.3	1326.7	600.6	261.2	222.8	227.6
50°	3023.6	3028.5	3050.2	3088.1	3060.9	2385.7	1589.4	594.4	237.9	213.3	223.3
52.5°	3637.2	3690.7	3728.3	3725.7	3688.9	2685.7	1734.2	562.7	224.1	209.7	221.3
55°	3887.1	3953.9	4023.5	4041.9	4013.2	2941.8	1871.0	531.0	217.4	212.3	222.0
57.5°	4220.2	4332.7	4428.1	4468.3	4426.8	3269.4	2051.1	514.4	215.4	219.2	226.9
60°	4609.2	4748.3	4873.7	4945.8	4945.8	3645.9	2237.8	507.5	212.6	229.4	235.1
62.5°	4859.1	5063.5	5252.7	5358.4	5355.3	3908.1	2320.7	483.9	206.2	236.6	246.3
65°	4860.1	5103.1	5344.3	5463.0	5469.1	3875.9	2183.9	427.4	194.4	237.6	257.6
67.5°	4455.0	4714.1	4995.2	5127.9	5158.6	3567.9	1890.5	351.4	175.2	227.4	261.7
70°	3762.6	4015.5	4302.5	4433.0	4487.4	3041.5	1522.7	270.9	150.7	204.9	253.2
72.5°	2964.3	3212.4	3412.1	3507.5	3550.0	2324.8	1108.8	204.6	123.5	172.7	230.5
75°	2098.7	2284.9	2391.1	2412.3	2418.9	1401.4	673.7	152.2	101.8	134.3	194.7
77.5°	1184.5	1264.3	1255.6	1265.1	1186.3	541.0	293.4	109.0	83.9	102.1	150.9
80°	462.5	476.8	447.9	438.9	402.6	201.3	129.4	76.0	67.0	77.2	105.6
82.5°	203.9	210.5	204.4	205.9	197.0	103.8	77.5	55.0	51.2	56.5	70.1
85°	112.3	114.3	113.8	117.1	112.3	41.4	36.8	33.8	35.8	38.4	45.0
87.5°	54.7	55.2	53.5	56.3	54.5	21.0	18.2	19.2	21.0	21.5	21.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: GAP-AF-01-LED-U-T2R-8030

CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
0°	439.2	439.2	439.2	439.2	439.2	439.2
2.5°	414.9	412.8	413.1	412.6	411.6	411.6
5°	411.3	409.3	409.3	408.7	407.5	407.7
7.5°	414.9	411.6	410.3	408.5	406.7	406.7
10°	419.0	413.1	409.5	406.4	404.1	404.1
12.5°	422.0	412.8	406.9	402.9	400.6	400.6
15°	423.1	411.0	402.9	398.0	396.0	395.7
17.5°	419.7	404.1	394.2	388.5	386.0	385.2
20°	409.5	391.6	379.6	373.2	369.6	368.3
22.5°	394.2	373.7	359.6	353.0	348.4	347.6
25°	372.7	350.7	336.9	330.5	327.9	327.1
27.5°	347.6	327.1	315.4	311.3	309.0	308.7
30°	323.8	306.4	297.7	294.7	291.8	291.3
32.5°	301.6	290.6	287.2	282.9	276.2	275.5
35°	285.7	284.7	282.4	272.7	264.5	262.2
37.5°	276.0	285.5	273.7	254.5	248.6	248.1
40°	270.4	277.5	257.3	250.7	251.2	250.7
42.5°	257.6	265.0	257.8	254.8	256.8	257.3
45°	244.8	253.0	261.7	259.6	264.5	264.5
47.5°	237.6	249.9	261.4	261.4	268.6	271.1
50°	229.4	247.3	257.3	260.9	266.5	264.5
52.5°	228.9	243.0	251.4	257.8	260.4	258.1
55°	229.7	239.4	245.6	252.7	255.8	256.0
57.5°	230.7	237.4	241.5	244.8	254.0	254.0
60°	233.3	235.6	237.9	239.7	251.7	251.9
62.5°	237.4	233.8	233.3	235.1	250.4	249.4
65°	243.8	231.2	227.4	229.2	249.1	246.1
67.5°	252.5	227.4	220.0	221.3	248.1	241.5
70°	260.4	221.3	210.8	209.5	238.4	226.6
72.5°	261.2	214.1	198.0	194.1	207.2	195.9
75°	248.4	209.2	183.9	172.7	171.1	169.6
77.5°	223.8	206.4	167.5	149.9	146.8	147.8
80°	187.2	195.9	147.8	126.9	143.5	141.7
82.5°	139.9	172.9	125.6	112.3	112.0	99.0
85°	77.8	134.8	102.3	84.2	58.6	56.8
87.5°	21.7	74.9	71.6	47.6	32.5	33.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)