

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: P298977

Luminaire Tested: **GAA-AF-01-LED-U-SLL-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298977
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P191289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-01-LED-U-SLL-8030-600
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill
Light Eliminator Left OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2934.8 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

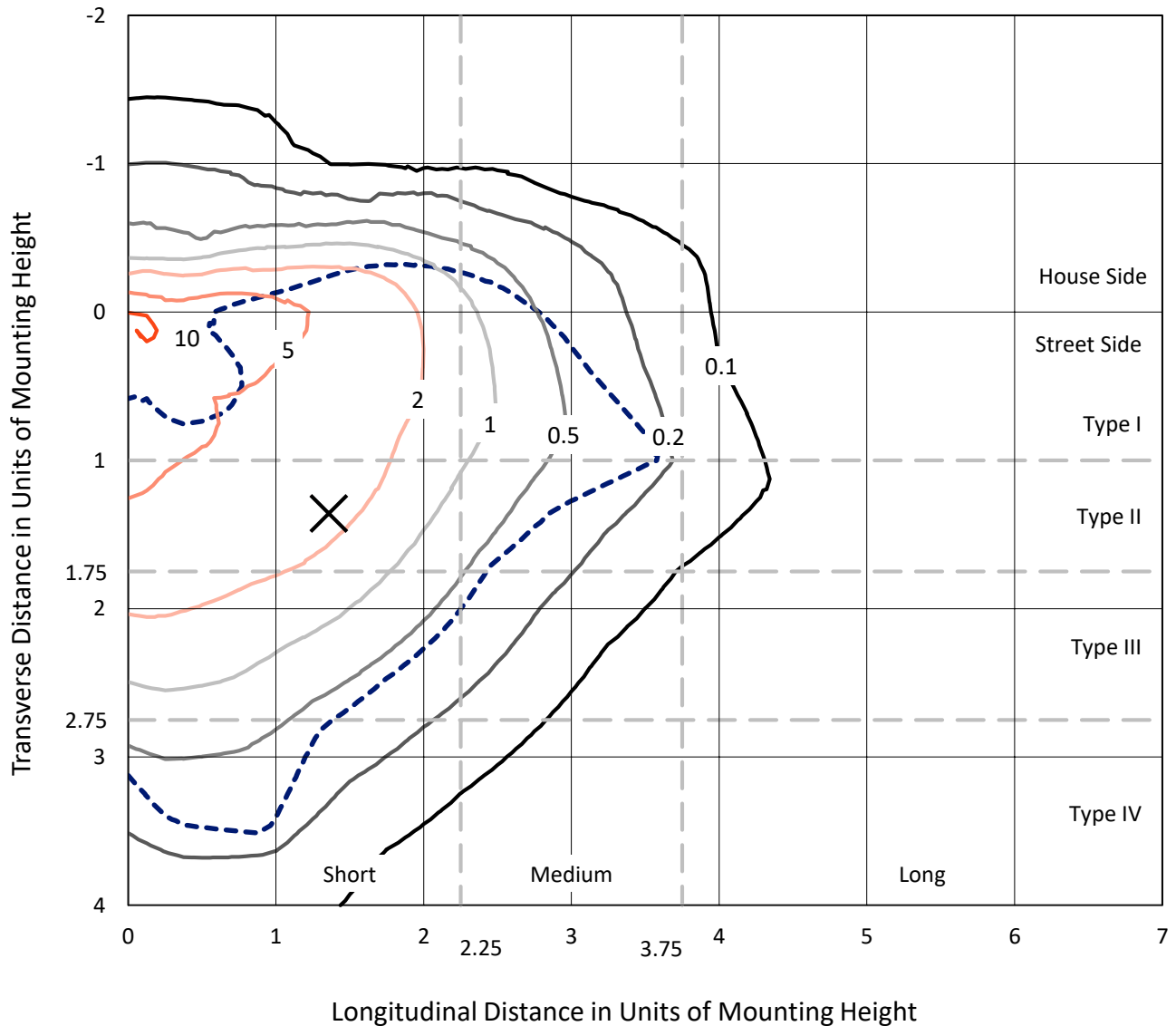
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P298977
 CATALOG NUMBER: GAA-AF-01-LED-U-SLL-8030-600

Iso-Footcandle Lines of Horizontal Illumination

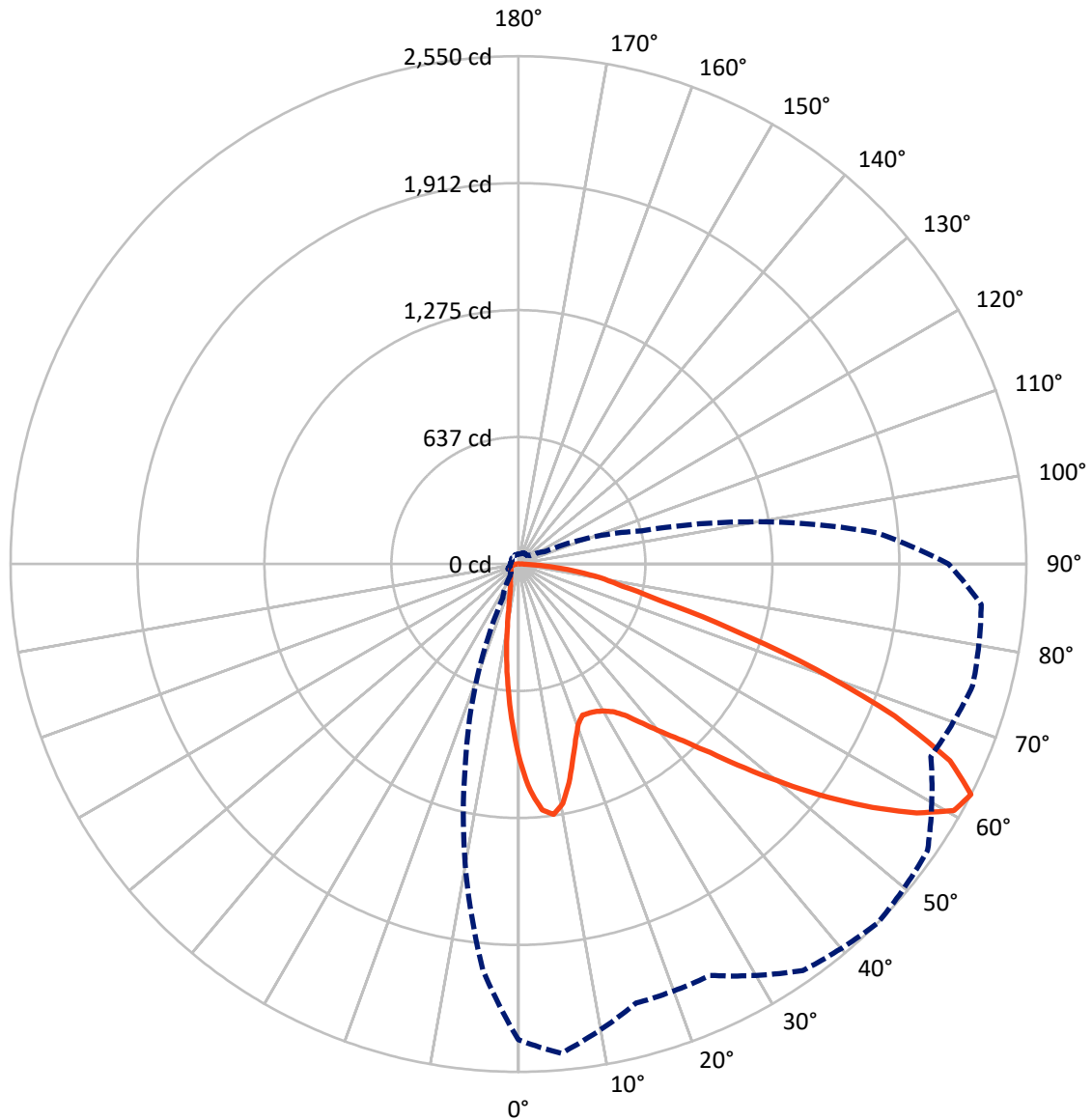
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.7 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P298977
CATALOG NUMBER: GAA-AF-01-LED-U-SLL-8030-600

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P298977

CATALOG NUMBER: GAA-AF-01-LED-U-SLL-8030-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	485.7	0.0	485.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	2449.1	0.0	2449.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	2934.8	0.0	2934.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.2	2.5
10°-20°	132.4	4.5
20°-30°	193.0	6.6
30°-40°	297.2	10.1
40°-50°	437.4	14.9
50°-60°	641.6	21.9
60°-70°	717.2	24.4
70°-80°	351.1	12.0
80°-90°	92.7	3.2
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°	2934.8	100.0
0°-180°	2934.8	100.0



REPORT NUMBER: P298977

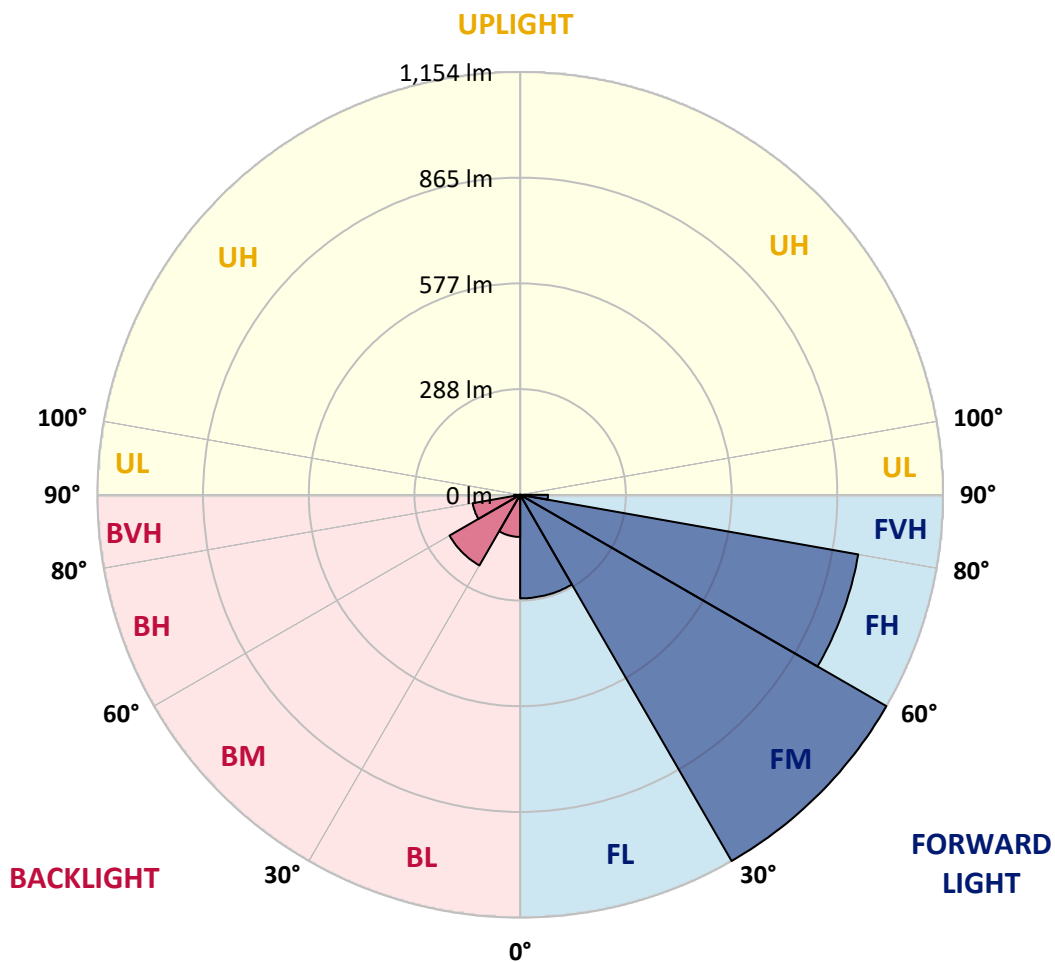
CATALOG NUMBER: GAA-AF-01-LED-U-SLL-8030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	282.6	9.6			
FM	(30°-60°)	1153.7	39.3			
FH	(60°-80°)	936.7	31.9			G1/1800
FVH	(80°-90°)	76.1	2.6			G1/100
BL	(0°-30°)	114.9	3.9	B1/500		
BM	(30°-60°)	222.5	7.6	B1/1000		
BH	(60°-80°)	131.7	4.5	B1/500		G1/500
BVH	(80°-90°)	16.6	0.6			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 IV Short





REPORT NUMBER: P298977

CATALOG NUMBER: GAA-AF-01-LED-U-SLL-8030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	991.6	991.6	991.6	991.6	991.6	991.6	991.6	991.6	991.6	991.6	991.6
2.5°	1030.2	1046.7	1078.8	1102.8	1132.1	1138.8	1148.2	1139.0	1122.7	1101.1	1094.0
5°	968.8	1004.0	1081.9	1150.5	1211.4	1239.8	1247.8	1224.3	1177.1	1115.0	1077.0
7.5°	870.2	920.2	1025.7	1126.7	1216.6	1269.7	1268.4	1214.0	1127.0	1025.9	965.1
10°	785.2	842.3	963.3	1076.2	1171.6	1223.0	1203.1	1133.7	1029.9	913.4	847.5
12.5°	737.6	793.6	916.4	1029.7	1109.5	1127.2	1112.0	1043.9	946.2	828.4	770.7
15°	729.3	790.9	897.7	989.9	1034.6	1019.2	1001.0	970.6	901.5	801.0	740.8
17.5°	765.1	832.8	919.1	962.2	954.6	927.6	922.5	925.9	909.3	831.5	762.1
20°	833.5	914.7	970.2	949.1	893.8	856.7	858.0	909.8	958.9	908.8	829.5
22.5°	929.4	1022.2	1043.9	956.1	868.1	824.1	834.8	918.7	1038.2	1021.7	920.5
25°	1053.6	1138.2	1122.5	981.2	870.7	828.1	836.6	949.3	1131.7	1134.6	1033.2
27.5°	1174.0	1252.4	1188.5	1014.6	881.4	837.6	849.0	997.5	1221.1	1257.2	1161.9
30°	1267.9	1322.5	1214.6	1045.1	902.3	856.2	870.2	1043.3	1261.8	1340.0	1261.0
32.5°	1345.7	1384.8	1256.3	1082.8	940.9	885.4	910.1	1099.0	1320.4	1418.8	1357.9
35°	1445.0	1456.2	1308.0	1125.0	1000.4	936.2	966.8	1153.5	1376.2	1498.3	1453.4
37.5°	1561.5	1547.2	1356.9	1182.6	1077.4	1015.7	1041.1	1213.4	1422.1	1588.4	1551.0
40°	1676.7	1642.1	1418.3	1271.9	1189.7	1109.5	1139.5	1277.3	1465.1	1678.8	1646.4
42.5°	1774.6	1723.5	1478.7	1370.2	1294.2	1212.9	1248.7	1341.6	1506.0	1755.9	1729.1
45°	1847.1	1783.5	1536.3	1464.5	1438.2	1350.3	1367.3	1415.3	1550.4	1820.3	1797.2
47.5°	1911.7	1843.8	1601.5	1559.7	1564.3	1529.1	1501.8	1501.1	1602.7	1872.9	1861.6
50°	1998.4	1927.6	1671.5	1657.8	1753.3	1729.9	1669.7	1601.3	1668.8	1932.6	1931.3
52.5°	2117.8	2060.2	1757.0	1763.5	1929.9	1945.2	1870.6	1721.7	1772.3	2042.1	2034.4
55°	2259.0	2225.3	1873.6	1885.0	2146.3	2157.3	2083.2	1872.2	1924.7	2200.7	2179.3
57.5°	2369.1	2362.0	2001.3	2030.8	2308.0	2357.4	2289.3	2046.5	2096.3	2334.3	2280.4
60°	2413.0	2447.4	2137.3	2178.0	2457.6	2512.2	2452.5	2199.5	2248.4	2389.6	2273.5
62.5°	2389.3	2466.0	2282.2	2278.8	2490.9	2549.8	2507.8	2284.7	2361.3	2332.5	2158.5
65°	2279.8	2398.8	2366.2	2252.8	2376.7	2381.5	2368.0	2246.7	2387.9	2152.0	1936.1
67.5°	2041.1	2212.5	2255.5	2030.2	2068.5	2037.1	2014.3	2038.2	2249.1	1881.4	1627.2
70°	1662.5	1920.3	1940.9	1623.8	1606.4	1585.2	1539.9	1671.0	1975.3	1542.0	1291.1
72.5°	1222.4	1493.4	1556.8	1190.9	1110.3	1114.6	1078.8	1259.3	1606.0	1145.4	964.0
75°	836.3	1081.4	1218.1	831.0	734.3	736.0	731.4	892.3	1279.2	796.8	721.3
77.5°	611.0	772.6	918.7	558.7	542.4	532.4	530.0	624.3	980.7	578.6	560.1
80°	490.3	570.8	617.0	387.2	416.4	415.6	402.2	429.3	640.5	423.2	418.9
82.5°	340.1	438.7	499.9	303.4	281.0	276.3	279.6	319.7	452.7	289.3	275.1
85°	179.4	291.3	495.1	268.9	166.8	133.1	165.5	261.8	392.2	153.3	134.2
87.5°	22.9	84.2	327.8	107.3	65.8	35.5	78.6	147.4	251.9	31.3	27.3
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: P298977

CATALOG NUMBER: GAA-AF-01-LED-U-SLL-8030-600

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	991.6	991.6	991.6	991.6	991.6	991.6	991.6	991.6	991.6	991.6	991.6
2.5°	1075.8	1054.3	1026.2	1000.2	973.3	946.5	911.5	889.5	874.4	871.5	865.1
5°	1049.6	978.3	924.4	877.8	835.5	775.8	742.7	715.3	700.6	699.2	695.7
7.5°	929.1	830.7	757.9	691.9	632.1	583.8	530.6	505.8	495.6	498.0	500.4
10°	803.7	693.7	610.1	542.7	489.9	449.3	406.6	377.7	357.6	353.6	352.8
12.5°	712.1	591.4	510.3	462.7	421.9	383.6	338.3	304.2	278.3	269.4	263.5
15°	673.3	541.4	456.4	405.1	360.1	311.5	269.4	233.7	209.9	202.2	197.8
17.5°	681.6	527.5	419.3	353.6	296.1	245.4	192.3	161.8	147.4	143.8	143.8
20°	724.9	525.0	388.6	306.2	234.4	175.7	132.1	114.7	110.0	109.6	110.8
22.5°	785.5	534.0	365.8	265.1	182.2	128.3	102.9	96.5	94.4	94.9	96.3
25°	875.9	564.5	349.2	228.4	142.9	105.0	91.8	87.9	86.9	88.2	90.0
27.5°	983.0	595.0	338.8	200.8	120.7	96.0	87.3	83.3	83.9	85.5	87.1
30°	1077.0	620.0	322.5	181.2	113.8	96.5	87.3	81.8	81.2	81.5	82.0
32.5°	1161.5	637.0	303.4	162.5	98.1	85.7	81.5	80.7	77.1	75.8	76.0
35°	1234.2	637.0	292.0	151.5	87.9	76.0	69.2	65.2	63.4	63.5	65.4
37.5°	1304.4	624.2	286.4	145.3	82.4	72.3	66.3	62.7	60.3	59.9	60.2
40°	1366.3	605.6	279.9	142.8	78.2	70.0	64.4	61.4	58.9	58.1	58.2
42.5°	1416.0	590.6	272.8	139.4	75.6	68.4	63.1	60.5	57.6	56.8	56.6
45°	1469.7	585.6	263.5	132.6	76.9	68.6	62.7	60.0	57.1	56.1	55.8
47.5°	1540.5	601.3	253.8	124.5	79.7	69.4	63.2	60.0	56.9	56.1	55.8
50°	1629.7	638.1	241.5	112.8	76.9	71.6	63.1	59.5	56.9	56.1	55.5
52.5°	1744.3	687.8	225.4	99.2	75.3	77.1	62.7	58.6	56.1	55.0	53.9
55°	1883.5	728.4	206.1	88.1	71.6	75.6	62.3	57.5	54.9	53.3	52.3
57.5°	1985.5	743.1	181.5	80.9	66.5	73.2	61.6	56.0	53.3	52.0	50.7
60°	1965.3	714.7	160.7	76.3	63.4	66.1	61.1	54.7	51.8	50.9	49.6
62.5°	1803.9	640.5	147.3	74.2	61.4	60.3	61.6	53.4	50.5	49.5	49.2
65°	1561.7	530.9	142.0	73.7	59.9	56.9	57.3	52.0	49.0	48.2	47.9
67.5°	1288.2	428.5	137.3	75.3	57.8	54.5	52.9	50.0	47.6	46.8	46.1
70°	1015.9	356.4	135.2	74.4	55.2	52.1	50.4	47.9	45.8	45.0	44.5
72.5°	818.1	301.0	134.0	73.4	51.8	48.9	47.2	45.1	42.9	42.6	42.1
75°	692.3	236.7	122.8	70.3	47.9	45.0	43.9	42.0	39.7	39.7	39.4
77.5°	534.0	171.2	102.1	62.3	43.9	40.6	39.7	38.2	35.7	36.1	36.0
80°	394.5	111.7	79.9	51.6	38.9	35.8	35.3	33.9	31.1	31.8	31.8
82.5°	270.2	73.2	57.5	42.3	33.2	30.3	30.3	28.9	25.8	26.1	27.1
85°	135.7	50.4	42.9	32.7	25.8	24.4	24.4	23.3	20.2	20.3	21.6
87.5°	41.3	30.3	28.4	23.4	18.5	18.2	17.4	16.6	14.7	14.5	15.3
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: P298977

CATALOG NUMBER: GAA-AF-01-LED-U-SLL-8030-600

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	991.6	991.6	991.6	991.6	991.6	991.6	991.6	991.6	991.6	991.6	991.6
2.5°	855.2	846.0	834.9	810.4	802.1	801.6	809.1	801.3	816.2	809.9	816.8
5°	689.6	680.7	668.2	637.0	617.9	605.0	598.9	580.8	593.8	584.3	592.3
7.5°	507.2	509.3	501.1	482.7	441.2	420.4	408.2	397.2	406.7	405.7	420.9
10°	356.5	362.2	356.4	337.9	304.2	292.8	295.1	299.4	311.9	318.3	341.7
12.5°	256.7	256.4	252.6	236.0	213.9	215.2	224.4	232.0	243.4	250.2	274.1
15°	191.6	188.7	187.1	173.6	161.0	163.8	168.3	169.1	176.3	180.4	199.7
17.5°	144.9	146.3	148.1	138.4	128.9	127.1	123.6	119.2	121.3	122.1	131.8
20°	115.0	120.8	125.2	118.4	108.8	103.5	99.0	96.2	96.2	96.0	98.7
22.5°	100.5	104.7	109.4	104.7	96.0	91.4	88.9	86.6	86.3	86.3	88.9
25°	92.6	95.7	100.2	97.0	90.5	87.1	84.7	81.8	80.7	80.3	82.1
27.5°	88.7	90.0	92.3	89.3	83.9	82.3	81.6	79.1	77.6	76.8	78.6
30°	82.1	81.8	82.0	79.1	74.7	74.5	75.6	76.1	75.6	75.5	78.2
32.5°	76.0	75.3	75.2	72.6	68.6	67.6	68.6	69.6	70.7	72.3	75.5
35°	68.2	69.9	70.8	68.6	63.7	60.8	59.7	57.9	56.9	56.9	60.6
37.5°	62.1	65.8	67.3	65.2	59.9	55.8	53.9	53.6	53.7	54.4	57.9
40°	60.0	62.7	64.0	62.0	56.6	52.9	51.8	51.5	51.8	52.8	56.3
42.5°	58.7	60.6	60.5	57.9	53.6	51.0	50.4	50.0	50.4	51.3	55.2
45°	57.6	58.9	57.6	54.5	50.5	49.2	49.3	49.2	49.5	50.5	54.2
47.5°	56.6	57.1	55.5	52.4	48.2	47.9	48.5	49.0	49.3	50.2	54.0
50°	55.2	55.2	53.7	50.5	46.3	46.5	47.2	48.4	48.5	49.5	52.6
52.5°	53.4	53.3	52.3	49.2	44.7	45.1	45.1	46.5	46.8	47.9	51.2
55°	52.0	51.6	51.2	48.2	43.3	44.0	43.6	44.0	44.8	46.0	49.5
57.5°	50.7	50.0	50.0	47.4	42.1	42.4	41.3	42.0	42.9	43.9	47.6
60°	49.3	48.7	49.0	46.3	40.3	40.0	39.5	40.8	41.2	42.3	46.0
62.5°	47.9	47.4	47.6	45.0	39.1	38.2	38.2	39.4	39.5	41.2	44.7
65°	46.8	46.1	46.0	43.7	37.6	36.7	37.1	37.6	37.9	39.5	42.9
67.5°	45.7	44.4	44.4	42.6	36.0	35.0	36.0	35.8	36.3	37.8	40.5
70°	44.2	42.4	42.6	41.8	34.4	33.2	34.0	33.9	34.2	35.1	37.9
72.5°	42.0	40.5	40.8	40.5	32.7	31.1	31.4	31.4	31.4	32.3	35.1
75°	39.1	37.9	38.9	39.7	30.8	28.5	28.9	28.9	28.4	28.9	32.4
77.5°	35.5	34.8	38.1	37.0	28.5	25.8	25.8	25.5	24.6	25.2	29.0
80°	31.6	31.1	35.1	31.0	26.0	22.5	22.1	21.3	20.3	20.8	24.7
82.5°	27.6	27.1	29.5	23.7	22.5	18.5	17.8	16.3	15.3	15.8	19.3
85°	22.6	22.6	22.8	17.9	17.1	14.2	13.3	11.3	10.2	10.5	13.9
87.5°	16.1	16.6	15.3	12.3	10.2	7.9	7.3	6.1	5.1	6.0	7.3
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: P298977

CATALOG NUMBER: GAA-AF-01-LED-U-SLL-8030-600

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	991.6	991.6	991.6	991.6	991.6	991.6	991.6	991.6
2.5°	852.3	870.1	890.2	916.0	938.1	974.4	1009.3	1030.2
5°	637.3	666.8	703.5	750.9	794.9	861.0	926.7	968.8
7.5°	456.1	487.7	527.4	586.4	648.7	733.1	819.9	870.2
10°	377.4	409.8	443.2	483.0	534.0	625.8	728.4	785.2
12.5°	312.2	346.9	382.8	424.8	472.0	554.0	672.2	737.6
15°	238.9	277.6	320.0	373.2	432.3	527.1	658.4	729.3
17.5°	163.8	207.0	259.1	324.6	397.0	518.3	683.2	765.1
20°	112.8	144.2	199.9	276.7	363.8	517.2	731.0	833.5
22.5°	94.4	108.4	149.1	232.6	338.8	531.1	805.1	929.4
25°	87.3	95.7	119.0	194.4	320.6	563.1	907.0	1053.6
27.5°	83.1	90.7	108.1	169.4	306.2	600.1	1006.2	1174.0
30°	84.7	92.4	105.0	156.6	286.7	631.1	1094.3	1267.9
32.5°	76.3	79.7	90.0	145.3	272.6	657.1	1171.4	1345.7
35°	65.0	71.0	80.3	140.0	273.0	674.5	1255.5	1445.0
37.5°	62.0	67.9	74.7	138.1	276.7	693.1	1351.9	1561.5
40°	60.0	65.5	71.3	137.0	280.2	710.0	1446.5	1676.7
42.5°	58.7	63.7	71.0	133.1	282.0	725.2	1524.2	1774.6
45°	58.6	63.7	72.3	129.2	284.7	741.5	1589.4	1847.1
47.5°	58.7	65.8	69.9	124.5	284.7	768.7	1665.9	1911.7
50°	58.1	69.4	67.3	117.9	278.1	820.4	1770.8	1998.4
52.5°	57.8	68.9	62.3	107.8	266.7	902.3	1905.1	2117.8
55°	56.9	66.5	58.7	92.6	253.3	991.7	2049.1	2259.0
57.5°	56.1	58.9	56.8	79.4	232.6	1054.6	2148.1	2369.1
60°	62.9	51.5	55.2	72.9	205.0	1071.8	2144.3	2413.0
62.5°	58.2	48.2	53.1	71.5	185.7	1023.5	2045.2	2389.3
65°	45.7	46.1	51.0	75.6	180.5	895.3	1869.6	2279.8
67.5°	41.8	44.0	48.9	81.0	181.1	716.8	1607.4	2041.1
70°	39.4	41.8	46.5	83.7	182.3	534.4	1270.8	1662.5
72.5°	36.7	38.8	43.7	84.2	173.9	388.1	979.5	1222.4
75°	33.4	35.3	39.9	73.4	144.1	269.2	749.2	836.3
77.5°	29.7	31.1	35.0	56.6	107.0	172.3	562.4	611.0
80°	25.3	26.1	29.4	41.5	73.2	107.8	445.0	490.3
82.5°	20.3	20.6	22.8	31.1	47.6	69.2	298.0	340.1
85°	14.3	14.3	15.7	22.6	32.4	43.9	161.8	179.4
87.5°	6.8	6.9	6.9	12.4	16.9	22.3	37.3	22.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)