

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: P299030

Luminaire Tested: **GAA-AF-10-LED-U-SLL-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299030
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-10-LED-U-SLL-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(10) 70 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: 32884.5 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

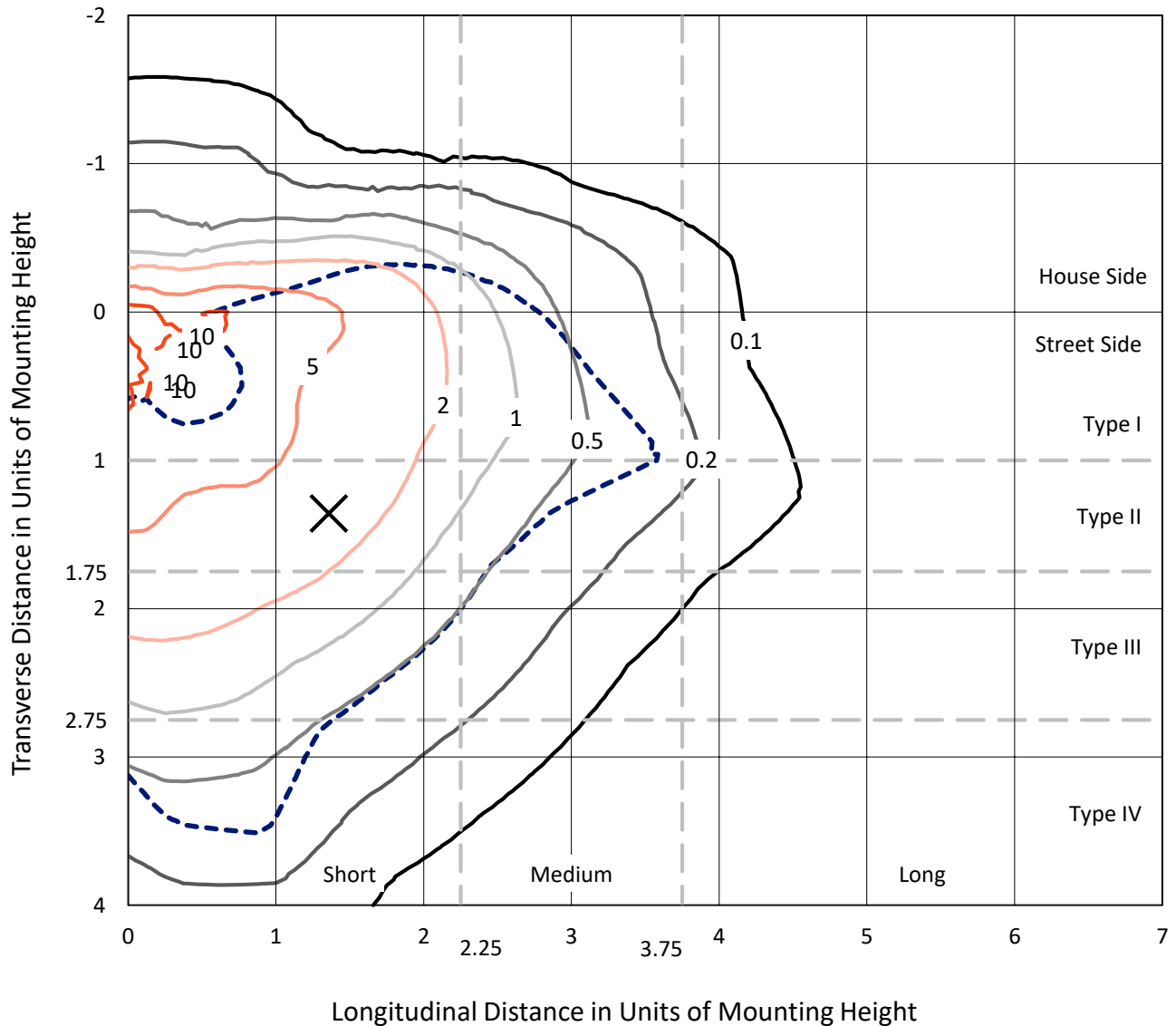
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P299030
 CATALOG NUMBER: GAA-AF-10-LED-U-SLL-7030-600

Iso-Footcandle Lines of Horizontal Illumination

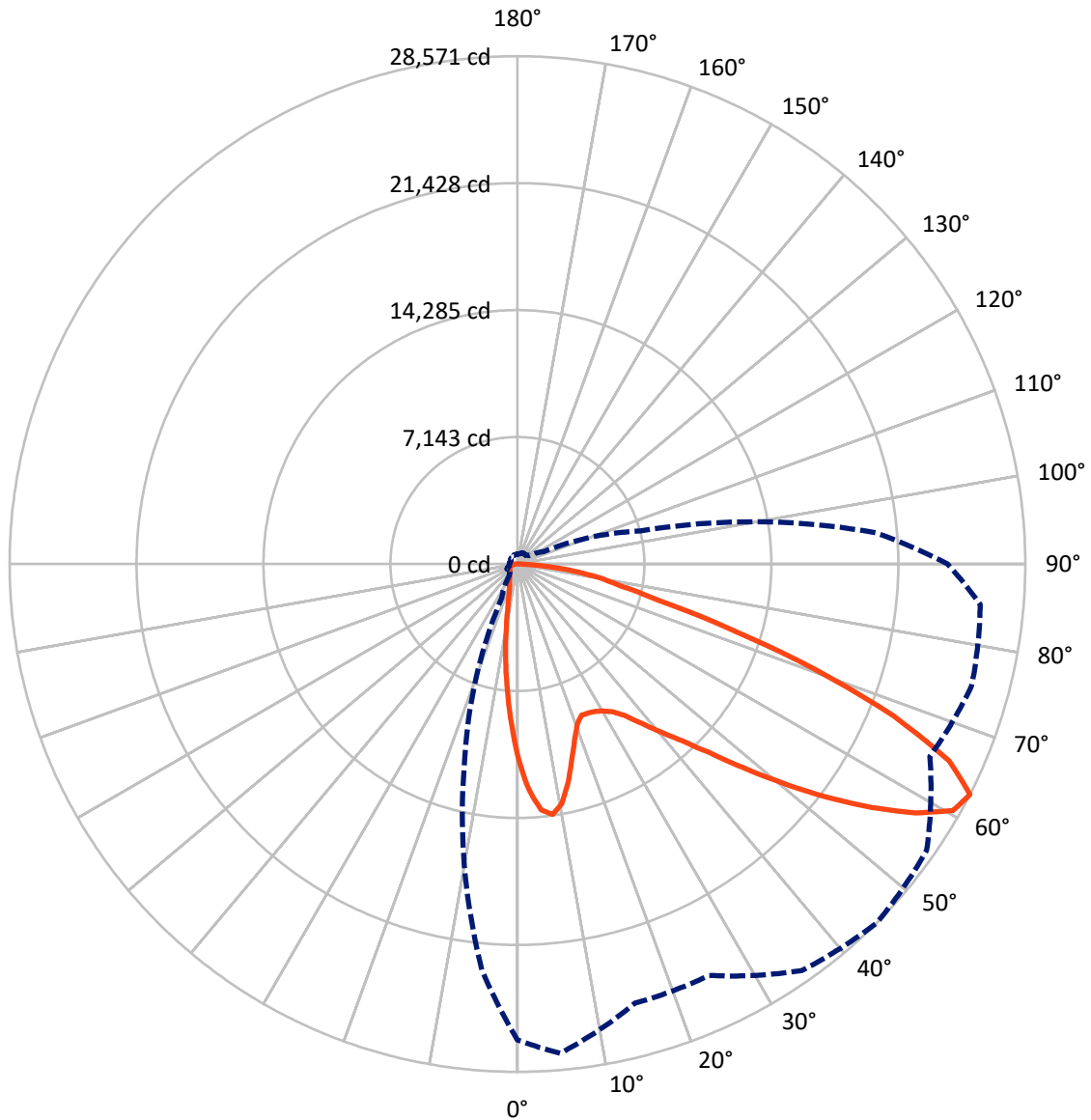
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.5 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P299030
CATALOG NUMBER: GAA-AF-10-LED-U-SLL-7030-600

Luminous Intensity Polar Plot



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

REPORT NUMBER: P299030

CATALOG NUMBER: GAA-AF-10-LED-U-SLL-7030-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5441.9	0.0	5441.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	27442.6	0.0	27442.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	32884.5	0.0	32884.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	808.8	2.5
10°-20°	1483.1	4.5
20°-30°	2162.3	6.6
30°-40°	3330.3	10.1
40°-50°	4901.3	14.9
50°-60°	7189.1	21.9
60°-70°	8036.4	24.4
70°-80°	3934.5	12.0
80°-90°	1038.8	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°	32884.5	100.0
0°-180°	32884.5	100.0

Coefficient of Utilization



REPORT NUMBER: P299030

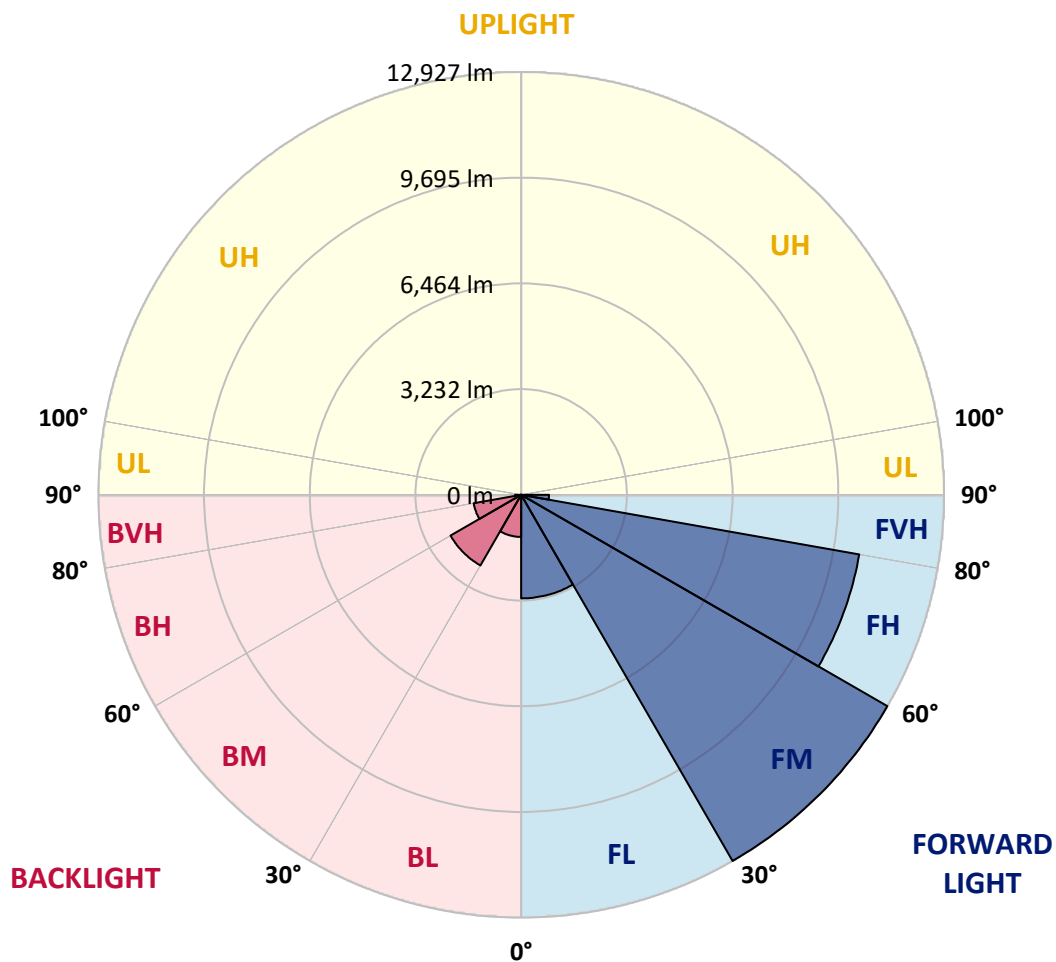
CATALOG NUMBER: GAA-AF-10-LED-U-SLL-7030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3166.7	9.6			
FM (30°-60°)	12927.2	39.3			
FH (60°-80°)	10495.6	31.9			G4/12000
FVH (80°-90°)	853.1	2.6			G5
BL (0°-30°)	1287.5	3.9	B3/2500		
BM (30°-60°)	2493.5	7.6	B2/2500		
BH (60°-80°)	1475.3	4.5	B3/2500		G3/2500
BVH (80°-90°)	185.7	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





REPORT NUMBER: P299030

CATALOG NUMBER: GAA-AF-10-LED-U-SLL-7030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	11110.5	11110.5	11110.5	11110.5	11110.5	11110.5	11110.5	11110.5	11110.5	11110.5	11110.5
2.5°	11543.6	11728.4	12088.2	12356.9	12685.0	12760.7	12865.7	12762.4	12579.9	12337.6	12258.4
5°	10855.2	11249.6	12122.2	12891.0	13574.0	13892.1	13981.3	13718.4	13189.1	12493.1	12068.2
7.5°	9750.8	10311.2	11493.1	12625.1	13631.5	14226.6	14211.9	13602.8	12628.6	11494.9	10813.6
10°	8797.8	9438.0	10794.2	12059.4	13127.5	13704.3	13481.3	12703.2	11540.1	10235.0	9496.1
12.5°	8265.0	8892.3	10267.8	11538.3	12431.5	12630.4	12460.2	11697.3	10601.7	9282.5	8635.2
15°	8172.2	8861.8	10058.3	11092.3	11592.9	11419.8	11216.7	10875.2	10101.2	8975.0	8300.8
17.5°	8572.5	9331.2	10298.9	10781.3	10696.2	10394.0	10336.5	10374.6	10188.6	9316.6	8539.6
20°	9338.9	10249.6	10871.7	10635.2	10014.9	9598.8	9613.5	10193.9	10744.9	10182.7	9294.8
22.5°	10413.9	11453.8	11697.3	10712.6	9727.3	9233.8	9353.5	10293.6	11632.8	11448.5	10314.8
25°	11805.9	12753.6	12578.2	10994.3	9756.1	9279.0	9374.7	10636.9	12680.9	12713.7	11577.0
27.5°	13154.4	14033.5	13317.0	11368.7	9875.8	9385.8	9512.6	11176.8	13682.6	14087.5	13019.5
30°	14206.6	14818.1	13609.8	11710.3	10110.5	9593.5	9750.8	11690.3	14138.6	15014.7	14129.2
32.5°	15078.1	15517.0	14076.4	12133.4	10542.5	9920.4	10197.4	12314.1	14794.6	15897.3	15215.4
35°	16191.3	16316.3	14656.7	12605.2	11209.7	10490.2	10833.5	12925.0	15420.2	16788.1	16285.8
37.5°	17497.0	17336.2	15204.3	13250.7	12072.3	11381.0	11665.1	13595.7	15934.9	17798.6	17379.1
40°	18787.5	18400.1	15892.0	14251.8	13330.5	12431.5	12767.7	14311.7	16416.1	18810.9	18447.7
42.5°	19884.8	19311.5	16569.2	15352.7	14501.2	13590.5	13991.9	15032.9	16875.0	19674.7	19374.9
45°	20696.4	19984.0	17214.7	16410.2	16115.6	15130.3	15320.4	15858.6	17372.0	20396.6	20137.8
47.5°	21421.2	20660.0	17944.8	17477.1	17527.5	17133.2	16827.4	16820.4	17958.3	20985.7	20859.0
50°	22391.8	21598.4	18729.4	18575.6	19646.0	19383.7	18709.4	17943.0	18698.8	21654.7	21640.1
52.5°	23729.8	23084.8	19687.7	19759.8	21624.2	21795.6	20959.9	19292.1	19859.0	22881.8	22795.5
55°	25311.9	24935.1	20993.4	21121.3	24049.6	24172.8	23342.5	20978.1	21566.1	24659.3	24418.7
57.5°	26546.0	26466.8	22424.6	22755.6	25861.1	26414.5	25651.6	22931.1	23489.2	26155.7	25551.9
60°	27037.7	27422.7	23948.7	24404.0	27537.1	28149.2	27480.8	24645.8	25193.9	26776.0	25474.4
62.5°	26772.5	27632.2	25571.8	25533.7	27910.9	28570.5	28100.5	25600.6	26458.0	26135.8	24185.7
65°	25544.8	26878.7	26513.7	25242.6	26631.1	26685.1	26533.1	25174.0	26756.1	24113.0	21694.0
67.5°	22870.6	24790.8	25273.1	22748.6	23178.1	22826.0	22570.8	22838.4	25201.0	21081.4	18232.3
70°	18628.4	21517.4	21748.0	18194.8	17999.3	17762.3	17254.6	18724.1	22133.6	17278.1	14467.2
72.5°	13697.3	16734.1	17444.2	13344.6	12440.9	12489.0	12088.2	14110.4	17995.8	12834.6	10801.2
75°	9371.1	12116.9	13648.6	9311.3	8227.4	8246.8	8195.7	9998.5	14333.4	8928.1	8082.5
77.5°	6846.0	8657.0	10293.6	6259.7	6077.2	5965.2	5938.2	6995.6	10989.0	6482.7	6276.2
80°	5493.3	6395.9	6914.1	4338.5	4665.3	4656.5	4506.3	4810.3	7176.4	4741.6	4694.1
82.5°	3810.9	4915.3	5601.9	3400.1	3148.9	3096.1	3133.1	3582.6	5072.6	3241.1	3082.0
85°	2010.5	3264.6	5547.9	3013.4	1869.1	1491.1	1855.0	2933.6	4394.8	1717.7	1503.5
87.5°	257.0	943.6	3673.0	1202.4	737.6	397.3	880.8	1651.9	2822.1	350.3	305.7
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: P299030

CATALOG NUMBER: GAA-AF-10-LED-U-SLL-7030-600

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	11110.5	11110.5	11110.5	11110.5	11110.5	11110.5	11110.5	11110.5	11110.5	11110.5	11110.5
2.5°	12054.1	11813.5	11499.0	11207.3	10905.7	10605.2	10213.2	9967.4	9797.8	9764.9	9693.3
5°	11761.3	10962.0	10358.2	9835.9	9362.3	8692.8	8322.5	8015.0	7850.7	7834.8	7794.9
7.5°	10410.4	9307.8	8492.6	7753.2	7082.5	6542.0	5945.2	5667.6	5553.2	5580.2	5607.2
10°	9005.5	7773.2	6836.6	6080.8	5489.8	5034.4	4555.6	4232.2	4007.5	3962.3	3953.5
12.5°	7979.2	6627.1	5718.1	5184.1	4727.5	4298.6	3790.9	3408.9	3118.4	3018.7	2952.4
15°	7544.9	6066.7	5114.2	4539.2	4034.5	3490.5	3018.7	2619.0	2352.0	2265.2	2216.5
17.5°	7637.6	5911.2	4698.2	3962.3	3317.4	2749.3	2154.9	1812.7	1651.9	1610.9	1610.9
20°	8122.4	5882.4	4354.3	3431.2	2626.1	1968.2	1480.6	1285.2	1232.9	1227.7	1241.7
22.5°	8801.9	5983.9	4098.4	2970.5	2041.0	1437.2	1153.1	1080.9	1057.5	1063.3	1079.2
25°	9814.2	6325.5	3912.4	2559.8	1601.5	1176.6	1028.1	985.3	974.1	988.8	1008.8
27.5°	11014.3	6667.0	3796.2	2250.5	1352.1	1075.7	977.7	933.1	940.1	958.3	975.9
30°	12068.2	6947.5	3613.7	2030.4	1274.6	1080.9	977.7	916.6	909.6	913.1	918.4
32.5°	13014.2	7137.1	3400.1	1820.4	1099.1	960.1	913.1	904.3	863.8	849.1	851.5
35°	13829.3	7137.1	3272.2	1697.7	985.3	851.5	775.8	730.6	710.1	711.8	732.4
37.5°	14615.7	6993.9	3208.8	1628.5	923.7	809.8	742.9	703.0	676.0	670.8	674.3
40°	15309.3	6786.1	3136.6	1599.7	876.7	784.6	721.8	688.4	659.6	650.8	652.6
42.5°	15866.2	6617.7	3056.8	1562.1	847.4	766.4	706.5	677.8	645.5	636.1	634.4
45°	16468.3	6562.0	2952.4	1485.9	862.1	768.2	703.0	672.5	639.6	629.1	625.6
47.5°	17261.7	6737.4	2843.8	1395.5	893.2	777.6	708.3	672.5	637.9	629.1	625.6
50°	18261.1	7149.4	2705.9	1263.5	862.1	802.8	706.5	666.6	637.9	629.1	622.0
52.5°	19545.1	7706.3	2525.7	1112.0	843.9	863.8	703.0	656.1	629.1	616.8	603.9
55°	21104.9	8161.7	2309.8	987.1	802.8	847.4	697.7	643.8	615.0	596.8	585.7
57.5°	22247.4	8326.0	2034.0	906.1	744.7	820.4	690.1	627.3	596.8	582.1	568.1
60°	22021.5	8007.9	1800.4	855.0	710.1	741.2	684.8	612.7	580.4	569.8	556.3
62.5°	20212.3	7176.4	1650.2	831.5	688.4	676.0	690.1	598.6	566.3	554.6	551.0
65°	17498.8	5948.7	1590.9	826.3	670.8	637.9	642.0	582.1	549.3	540.5	537.0
67.5°	14434.3	4801.5	1538.7	843.9	647.3	610.9	593.3	560.4	532.8	524.0	517.0
70°	11382.8	3993.4	1514.6	833.3	618.5	583.9	564.5	537.0	513.5	504.1	498.8
72.5°	9166.3	3373.1	1501.7	822.2	580.4	547.5	529.3	505.9	480.6	477.1	471.8
75°	7757.3	2651.9	1376.1	788.1	537.0	504.1	491.8	470.1	444.8	444.8	441.3
77.5°	5983.9	1917.8	1144.3	697.7	491.8	455.4	444.8	428.4	399.6	404.9	403.2
80°	4420.0	1251.1	894.9	578.6	436.0	401.4	395.5	379.7	348.6	356.2	356.2
82.5°	3028.1	820.4	643.8	473.6	372.1	339.8	339.8	323.3	289.3	292.8	304.0
85°	1520.5	564.5	480.6	366.8	289.3	272.9	272.9	260.6	225.9	227.7	242.4
87.5°	463.0	339.8	318.1	262.3	207.7	204.2	194.8	186.0	164.3	162.6	171.9
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: P299030

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CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	11110.5	11110.5	11110.5	11110.5	11110.5	11110.5	11110.5	11110.5	11110.5	11110.5	11110.5
2.5°	9582.4	9479.1	9355.3	9080.1	8987.9	8982.1	9066.0	8978.5	9145.2	9074.8	9152.2
5°	7727.4	7627.1	7487.4	7137.1	6923.5	6778.5	6710.4	6508.0	6654.1	6547.3	6636.5
7.5°	5683.5	5707.0	5614.8	5408.8	4944.1	4711.1	4573.8	4450.5	4557.3	4546.2	4716.4
10°	3995.2	4057.9	3993.4	3785.7	3408.9	3281.0	3306.2	3354.9	3494.6	3566.2	3828.5
12.5°	2876.1	2872.5	2830.9	2644.9	2397.2	2411.3	2514.6	2599.1	2727.6	2803.9	3070.9
15°	2147.2	2114.9	2096.8	1944.8	1803.9	1835.0	1885.5	1894.3	1975.9	2021.1	2238.2
17.5°	1623.2	1639.6	1659.0	1551.0	1444.2	1424.2	1384.9	1335.6	1359.7	1368.5	1476.5
20°	1288.7	1353.8	1403.1	1326.8	1218.9	1160.2	1109.7	1077.4	1077.4	1075.7	1106.2
22.5°	1126.1	1173.1	1225.9	1173.1	1075.7	1024.6	995.9	970.6	967.1	967.1	995.9
25°	1038.1	1072.1	1122.6	1086.8	1014.0	975.9	948.9	916.6	904.3	900.2	920.2
27.5°	994.1	1008.8	1034.0	1001.1	940.1	921.9	914.9	886.1	869.1	860.3	880.8
30°	920.2	916.6	918.4	886.1	836.8	835.1	847.4	853.3	847.4	845.6	876.7
32.5°	851.5	843.9	842.1	813.4	768.2	757.6	768.2	779.3	791.6	809.8	845.6
35°	764.6	782.8	793.4	768.2	713.6	681.3	669.0	649.0	637.9	637.9	679.6
37.5°	696.0	737.6	754.1	730.6	670.8	625.6	603.9	600.3	602.1	609.1	649.0
40°	672.5	703.0	717.1	694.2	634.4	593.3	580.4	576.9	580.4	591.5	630.8
42.5°	657.8	679.6	677.8	649.0	600.3	571.6	564.5	560.4	564.5	575.1	618.5
45°	645.5	659.6	645.5	610.9	566.3	551.0	552.8	551.0	554.6	566.3	607.4
47.5°	634.4	639.6	622.0	587.4	540.5	537.0	544.0	549.3	552.8	562.8	605.6
50°	618.5	618.5	602.1	566.3	518.8	520.5	529.3	542.2	544.0	554.6	589.8
52.5°	598.6	596.8	585.7	551.0	500.6	505.9	505.9	520.5	524.0	537.0	573.3
55°	582.1	578.6	573.3	540.5	484.7	493.5	488.2	493.5	502.3	515.2	554.6
57.5°	568.1	560.4	560.4	531.1	471.8	475.3	463.0	470.1	480.6	491.8	532.8
60°	552.8	545.8	549.3	518.8	451.9	448.3	443.1	457.1	461.3	473.6	515.2
62.5°	537.0	531.1	532.8	504.1	437.8	428.4	428.4	441.3	443.1	461.3	500.6
65°	524.0	517.0	515.2	490.0	421.3	410.8	416.1	421.3	424.9	443.1	480.6
67.5°	511.7	497.0	497.0	477.1	403.2	392.0	403.2	401.4	407.3	423.1	453.6
70°	495.3	475.3	477.1	468.3	385.0	372.1	381.4	379.7	383.2	393.8	424.9
72.5°	470.1	453.6	457.1	453.6	366.8	348.6	352.1	352.1	352.1	361.5	393.8
75°	437.8	424.9	436.0	444.8	345.1	319.8	323.3	323.3	318.1	323.3	363.2
77.5°	397.3	390.2	426.6	414.3	319.8	289.3	289.3	285.8	275.2	282.3	325.1
80°	354.4	348.6	393.8	346.8	291.1	251.8	247.6	238.3	227.7	233.0	277.0
82.5°	309.3	304.0	331.0	265.8	251.8	207.7	198.9	182.5	171.9	177.2	216.5
85°	253.5	253.5	255.3	200.7	191.3	159.0	148.5	126.8	113.8	117.4	155.5
87.5°	180.7	186.0	171.9	137.3	113.8	88.6	81.6	68.7	57.5	66.9	81.6
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: P299030

CATALOG NUMBER: GAA-AF-10-LED-U-SLL-7030-600

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	11110.5	11110.5	11110.5	11110.5	11110.5	11110.5	11110.5	11110.5
2.5°	9550.1	9749.1	9975.0	10263.7	10511.9	10918.0	11308.9	11543.6
5°	7140.6	7471.6	7882.9	8413.4	8907.0	9647.5	10383.4	10855.2
7.5°	5110.1	5464.6	5909.4	6570.8	7269.1	8213.9	9186.9	9750.8
10°	4228.7	4592.0	4965.8	5412.4	5983.9	7012.1	8161.7	8797.8
12.5°	3498.1	3886.6	4289.7	4759.8	5289.1	6207.5	7532.6	8265.0
15°	2677.1	3110.8	3586.1	4181.2	4844.3	5905.9	7377.1	8172.2
17.5°	1835.0	2319.8	2903.1	3637.2	4448.8	5807.9	7655.8	8572.5
20°	1263.5	1616.1	2239.9	3100.2	4076.7	5795.6	8190.4	9338.9
22.5°	1057.5	1214.7	1670.1	2606.7	3796.2	5951.1	9020.8	10413.9
25°	977.7	1072.1	1333.9	2178.3	3592.0	6309.0	10163.4	11805.9
27.5°	931.3	1015.8	1211.2	1898.4	3431.2	6724.5	11274.8	13154.4
30°	948.9	1035.8	1176.6	1755.2	3212.3	7071.3	12261.9	14206.6
32.5°	855.0	893.2	1008.8	1628.5	3055.1	7362.4	13125.7	15078.1
35°	728.8	795.2	900.2	1569.2	3058.6	7557.8	14067.6	16191.3
37.5°	694.2	761.1	836.8	1547.5	3100.2	7766.1	15148.5	17497.0
40°	672.5	734.1	799.3	1535.2	3140.1	7955.7	16208.3	18787.5
42.5°	657.8	713.6	795.2	1491.1	3160.1	8125.9	17079.2	19884.8
45°	656.1	713.6	809.8	1447.7	3190.6	8308.4	17809.8	20696.4
47.5°	657.8	737.6	782.8	1395.5	3190.6	8613.5	18666.6	21421.2
50°	650.8	777.6	754.1	1321.5	3116.7	9192.2	19841.4	22391.8
52.5°	647.3	772.3	697.7	1207.7	2988.2	10110.5	21347.2	23729.8
55°	637.9	744.7	657.8	1038.1	2838.5	11112.3	22959.8	25311.9
57.5°	629.1	659.6	636.1	889.6	2606.7	11817.1	24069.5	26546.0
60°	704.8	576.9	618.5	816.9	2297.5	12010.1	24026.7	27037.7
62.5°	652.6	540.5	595.0	801.0	2080.9	11467.9	22916.4	26772.5
65°	511.7	517.0	571.6	847.4	2022.8	10031.3	20949.3	25544.8
67.5°	468.3	493.5	547.5	907.8	2028.7	8031.4	18010.5	22870.6
70°	441.3	468.3	520.5	938.3	2042.8	5987.5	14238.9	18628.4
72.5°	410.8	434.3	490.0	943.6	1948.3	4349.0	10974.9	13697.3
75°	373.8	395.5	446.6	822.2	1614.4	3016.9	8395.2	9371.1
77.5°	332.7	348.6	392.0	634.4	1198.9	1930.7	6301.4	6846.0
80°	284.0	292.8	329.2	464.8	820.4	1207.7	4985.7	5493.3
82.5°	227.7	231.2	255.3	348.6	532.8	775.8	3339.1	3810.9
85°	160.8	160.8	175.5	253.5	363.2	491.8	1812.7	2010.5
87.5°	75.7	77.5	77.5	139.1	189.5	250.0	417.8	257.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)