

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: P299018

Luminaire Tested: **GAA-AF-08-LED-U-SLL-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299018  
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-08-LED-U-SLL-7030-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill  
Light Eliminator Left OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

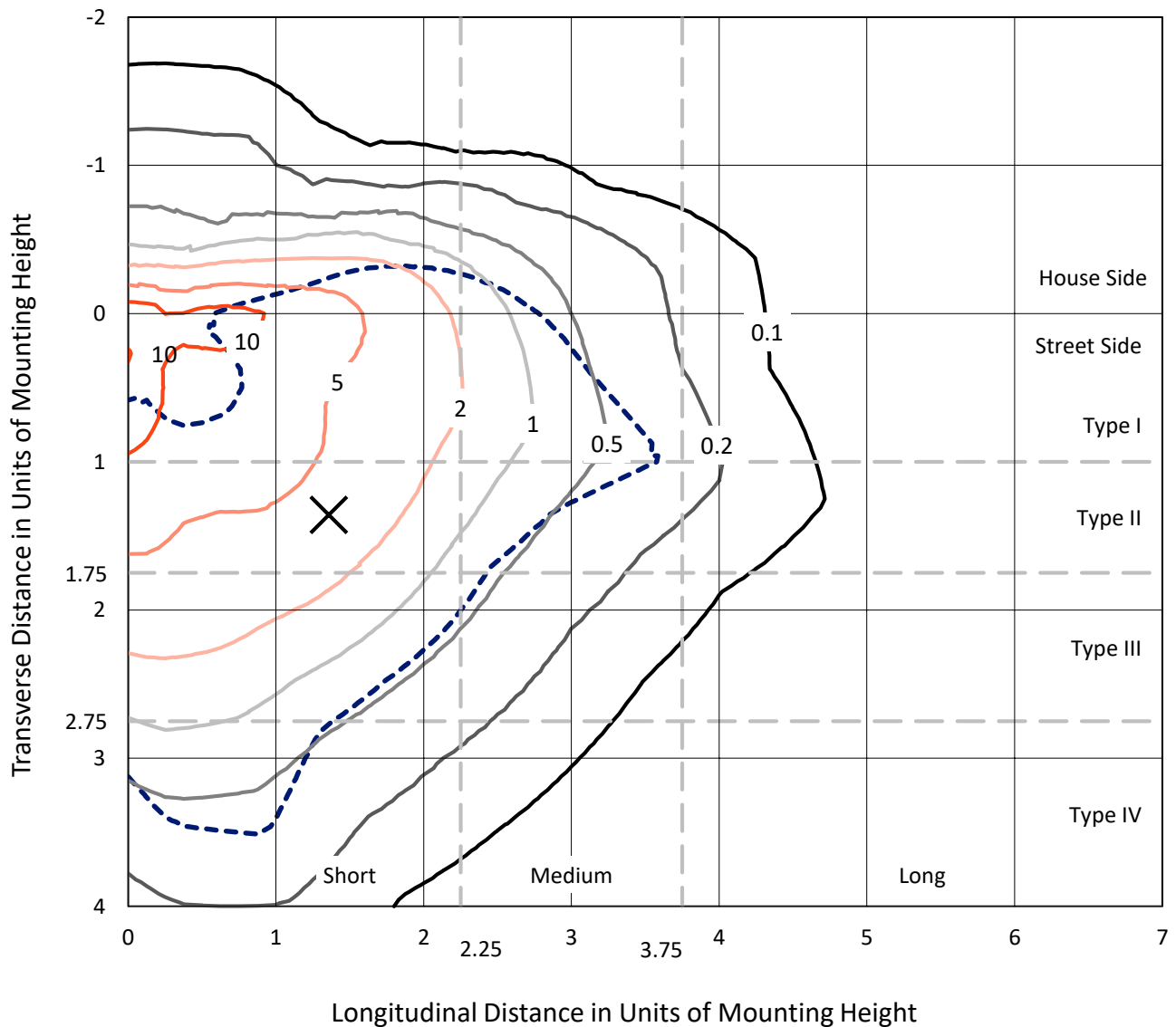
Lumens per Lamp: N/A  
Luminaire Lumens: 26626.3 lumens  
Efficiency: N/A  
Efficacy: 103.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (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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### Iso-Footcandle Lines of Horizontal Illumination

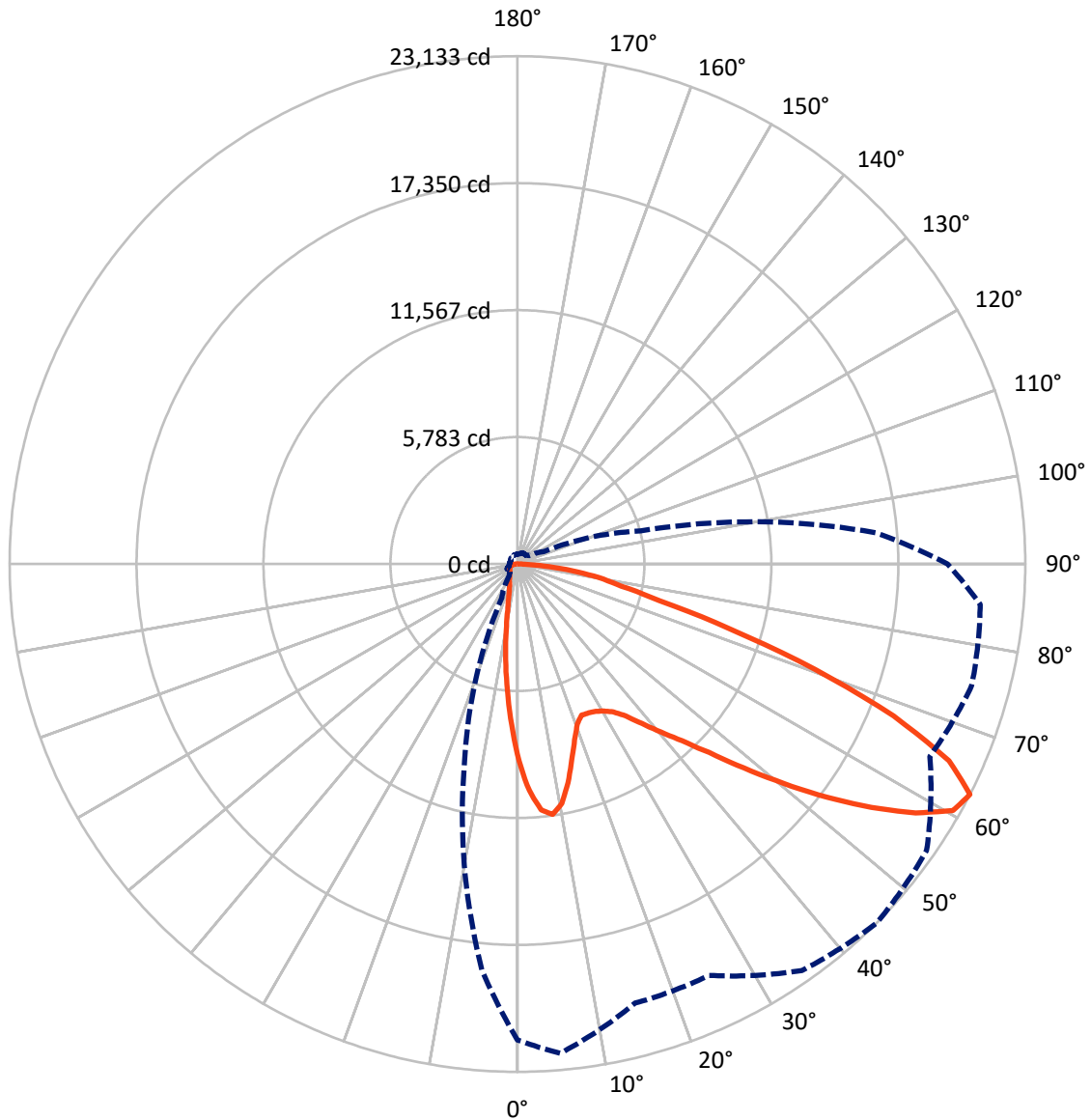
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P299018  
CATALOG NUMBER: GAA-AF-08-LED-U-SLL-7030-600

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P299018

CATALOG NUMBER: GAA-AF-08-LED-U-SLL-7030-600

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4406.3	0.0	4406.3
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	22220.0	0.0	22220.0
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	26626.3	0.0	26626.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	654.9	2.5
10°-20°	1200.8	4.5
20°-30°	1750.8	6.6
30°-40°	2696.5	10.1
40°-50°	3968.5	14.9
50°-60°	5821.0	21.9
60°-70°	6507.0	24.4
70°-80°	3185.7	12.0
80°-90°	841.1	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°	26626.3	100.0
0°-180°	26626.3	100.0

**Coefficient of Utilization**



REPORT NUMBER: P299018

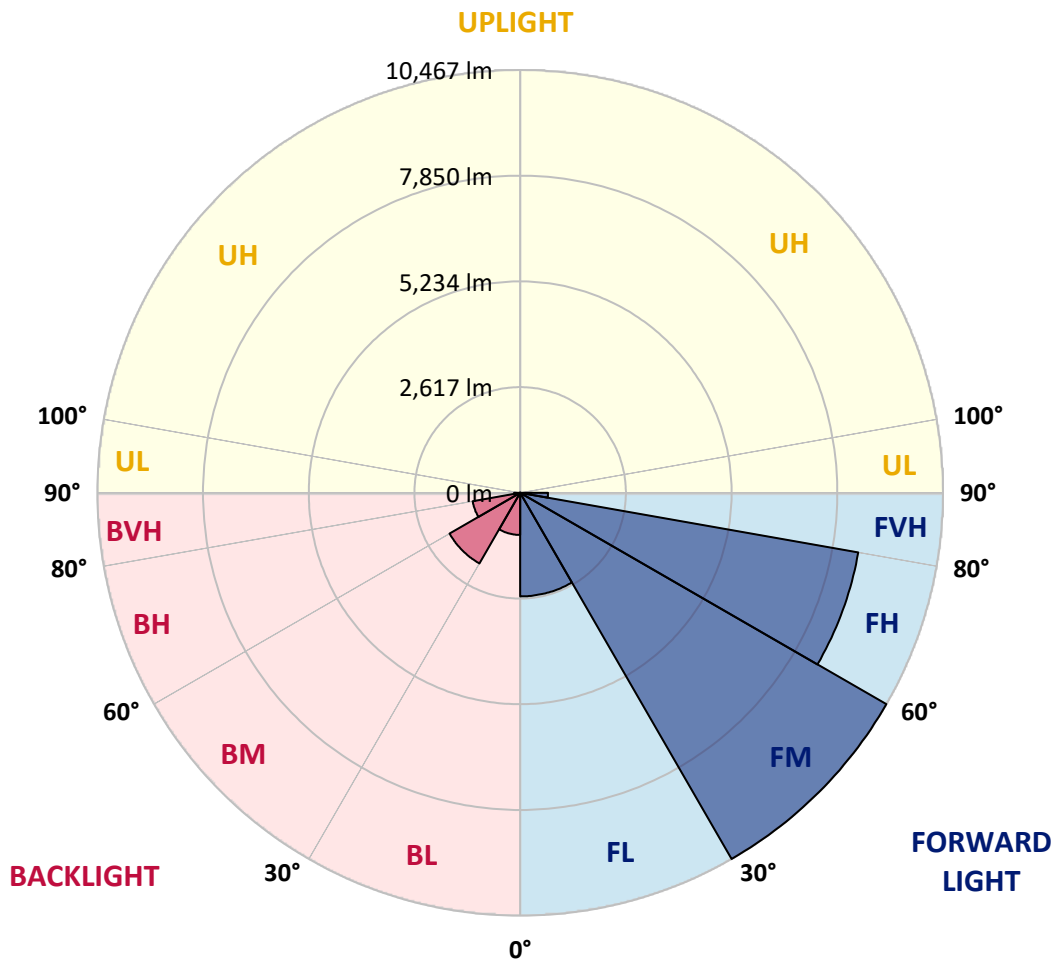
CATALOG NUMBER: GAA-AF-08-LED-U-SLL-7030-600

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2564.0	9.6			
FM	(30°-60°)	10467.1	39.3			
FH	(60°-80°)	8498.2	31.9			G4/12000
FVH	(80°-90°)	690.7	2.6			G4/750
BL	(0°-30°)	1042.5	3.9	B3/2500		
BM	(30°-60°)	2018.9	7.6	B2/2500		
BH	(60°-80°)	1194.5	4.5	B3/2500		G3/2500
BVH	(80°-90°)	150.4	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-G4**

Type IV Short





REPORT NUMBER: P299018

CATALOG NUMBER: GAA-AF-08-LED-U-SLL-7030-600

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8996.1	8996.1	8996.1	8996.1	8996.1	8996.1	8996.1	8996.1	8996.1	8996.1	8996.1
2.5°	9346.8	9496.4	9787.7	10005.3	10270.9	10332.2	10417.3	10333.7	10185.9	9989.6	9925.5
5°	8789.4	9108.7	9815.3	10437.7	10990.8	11248.3	11320.6	11107.7	10679.1	10115.6	9771.5
7.5°	7895.2	8348.9	9305.9	10222.5	11037.4	11519.2	11507.3	11014.1	10225.3	9307.3	8755.7
10°	7123.5	7641.9	8740.0	9764.4	10629.2	11096.3	10915.7	10285.7	9343.9	8287.2	7688.9
12.5°	6692.1	7200.0	8313.8	9342.5	10065.7	10226.7	10089.0	9471.3	8584.1	7516.0	6991.9
15°	6617.0	7175.3	8144.1	8981.4	9386.7	9246.5	9082.1	8805.6	8178.8	7267.0	6721.1
17.5°	6941.1	7555.4	8339.0	8729.5	8660.6	8415.9	8369.4	8400.3	8249.6	7543.6	6914.4
20°	7561.6	8299.0	8802.7	8611.2	8109.0	7772.1	7784.0	8253.9	8700.1	8244.9	7526.0
22.5°	8432.1	9274.1	9471.3	8673.9	7876.2	7476.6	7573.5	8334.7	9419.0	9269.8	8351.8
25°	9559.2	10326.5	10184.5	8902.0	7899.4	7513.1	7590.6	8612.6	10267.6	10294.2	9373.8
27.5°	10651.1	11362.8	10782.7	9205.2	7996.4	7599.6	7702.3	9049.8	11078.7	11406.6	10541.8
30°	11503.0	11998.1	11019.8	9481.7	8186.4	7767.8	7895.2	9465.5	11447.9	12157.3	11440.3
32.5°	12208.6	12564.0	11397.5	9824.3	8536.1	8032.5	8256.8	9970.6	11979.1	12871.9	12319.8
35°	13110.0	13211.2	11867.5	10206.3	9076.4	8493.9	8771.8	10465.3	12485.6	13593.2	13186.5
37.5°	14167.2	14037.0	12310.8	10729.0	9774.9	9215.1	9445.1	11008.4	12902.3	14411.4	14071.7
40°	15212.1	14898.5	12867.7	11539.6	10793.6	10065.7	10337.9	11588.1	13292.0	15231.1	14937.0
42.5°	16100.6	15636.4	13416.0	12431.0	11741.5	11004.1	11329.1	12172.0	13663.5	15930.5	15687.7
45°	16757.7	16180.9	13938.7	13287.2	13048.7	12250.9	12404.9	12840.6	14066.0	16514.9	16305.4
47.5°	17344.6	16728.3	14529.7	14151.0	14191.9	13872.6	13625.1	13619.3	14540.7	16992.0	16889.4
50°	18130.5	17488.1	15165.0	15040.5	15907.2	15694.8	15148.9	14528.3	15140.3	17533.7	17521.8
52.5°	19213.8	18691.6	15941.0	15999.4	17509.0	17647.7	16971.1	15620.7	16079.7	18527.2	18457.4
55°	20494.8	20189.8	16998.2	17101.8	19472.8	19572.6	18900.2	16985.8	17461.9	19966.5	19771.6
57.5°	21494.1	21429.9	18157.1	18425.1	20939.6	21387.6	20769.9	18567.1	19019.0	21178.1	20689.2
60°	21892.3	22204.0	19391.0	19759.8	22296.6	22792.2	22251.0	19955.5	20399.3	21680.3	20626.4
62.5°	21677.5	22373.6	20705.3	20674.4	22599.3	23133.4	22752.8	20728.6	21422.8	21161.9	19583.0
65°	20683.5	21763.5	21467.9	20438.8	21563.0	21606.7	21483.6	20383.2	21664.2	19524.1	17565.5
67.5°	18518.2	20072.9	20463.5	18419.4	18767.2	18482.1	18275.4	18492.1	20405.0	17069.4	14762.6
70°	15083.3	17422.5	17609.2	14732.2	14573.9	14382.0	13971.0	15160.7	17921.4	13990.0	11714.0
72.5°	11090.6	13549.5	14124.4	10805.0	10073.3	10112.2	9787.7	11425.1	14571.1	10392.1	8745.7
75°	7587.7	9811.0	11051.1	7539.3	6661.7	6677.3	6636.0	8095.7	11605.6	7229.0	6544.3
77.5°	5543.2	7009.5	8334.7	5068.5	4920.7	4829.9	4808.1	5664.3	8897.7	5249.0	5081.8
80°	4447.9	5178.7	5598.3	3512.8	3777.5	3770.3	3648.7	3894.8	5810.7	3839.2	3800.8
82.5°	3085.7	3979.9	4535.8	2753.0	2549.7	2506.9	2536.8	2900.8	4107.2	2624.3	2495.5
85°	1627.9	2643.3	4492.1	2439.9	1513.4	1207.4	1502.0	2375.3	3558.4	1390.8	1217.3
87.5°	208.1	764.0	2974.0	973.6	597.3	321.7	713.2	1337.6	2285.0	283.7	247.6
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	8996.1	8996.1	8996.1	8996.1	8996.1	8996.1	8996.1	8996.1	8996.1	8996.1	8996.1
2.5°	9760.1	9565.3	9310.6	9074.5	8830.3	8587.0	8269.6	8070.5	7933.2	7906.6	7848.6
5°	9523.0	8875.9	8386.9	7964.1	7580.6	7038.5	6738.6	6489.7	6356.6	6343.8	6311.5
7.5°	8429.2	7536.4	6876.4	6277.7	5734.6	5297.0	4813.8	4589.0	4496.4	4518.2	4540.1
10°	7291.7	6293.9	5535.5	4923.5	4445.1	4076.3	3688.6	3426.8	3244.8	3208.2	3201.1
12.5°	6460.7	5365.9	4629.9	4197.5	3827.8	3480.5	3069.5	2760.2	2525.0	2444.2	2390.5
15°	6109.1	4912.1	4141.0	3675.3	3266.7	2826.2	2444.2	2120.6	1904.4	1834.1	1794.7
17.5°	6184.1	4786.2	3804.1	3208.2	2686.0	2226.1	1744.8	1467.8	1337.6	1304.3	1304.3
20°	6576.6	4762.9	3525.6	2778.2	2126.3	1593.7	1198.8	1040.6	998.3	994.0	1005.4
22.5°	7126.8	4845.1	3318.5	2405.2	1652.6	1163.7	933.7	875.2	856.2	861.0	873.8
25°	7946.5	5121.7	3167.9	2072.6	1296.7	952.7	832.5	797.8	788.8	800.6	816.8
27.5°	8918.2	5398.2	3073.8	1822.2	1094.8	871.0	791.6	755.5	761.2	775.9	790.2
30°	9771.5	5625.4	2926.0	1644.0	1032.0	875.2	791.6	742.2	736.5	739.3	743.6
32.5°	10537.5	5778.8	2753.0	1473.9	890.0	777.4	739.3	732.2	699.4	687.5	689.4
35°	11197.5	5778.8	2649.5	1374.6	797.8	689.4	628.2	591.6	574.9	576.4	593.0
37.5°	11834.2	5662.9	2598.1	1318.6	747.9	655.7	601.5	569.2	547.4	543.1	546.0
40°	12395.8	5494.7	2539.7	1295.3	709.9	635.3	584.4	557.4	534.1	526.9	528.4
42.5°	12846.7	5358.3	2475.1	1264.9	686.1	620.6	572.1	548.8	522.7	515.1	513.6
45°	13334.3	5313.2	2390.5	1203.1	698.0	622.0	569.2	544.5	517.9	509.4	506.5
47.5°	13976.7	5455.2	2302.6	1129.9	723.2	629.6	573.5	544.5	516.5	509.4	506.5
50°	14785.9	5788.8	2190.9	1023.0	698.0	650.0	572.1	539.8	516.5	509.4	503.7
52.5°	15825.5	6239.7	2045.1	900.4	683.3	699.4	569.2	531.2	509.4	499.4	488.9
55°	17088.5	6608.4	1870.2	799.2	650.0	686.1	565.0	521.2	498.0	483.2	474.2
57.5°	18013.6	6741.5	1646.9	733.6	603.0	664.3	558.8	507.9	483.2	471.4	459.9
60°	17830.6	6484.0	1457.8	692.3	574.9	600.1	554.5	496.1	469.9	461.4	450.4
62.5°	16365.7	5810.7	1336.1	673.3	557.4	547.4	558.8	484.7	458.5	449.0	446.2
65°	14168.6	4816.6	1288.1	669.0	543.1	516.5	519.8	471.4	444.7	437.6	434.8
67.5°	11687.4	3887.7	1245.9	683.3	524.1	494.6	480.4	453.8	431.4	424.3	418.6
70°	9216.6	3233.4	1226.4	674.7	500.8	472.8	457.1	434.8	415.8	408.2	403.9
72.5°	7421.9	2731.2	1215.9	665.7	469.9	443.3	428.6	409.6	389.2	386.3	382.0
75°	6281.1	2147.2	1114.2	638.1	434.8	408.2	398.2	380.6	360.2	360.2	357.3
77.5°	4845.1	1552.8	926.6	565.0	398.2	368.7	360.2	346.9	323.6	327.9	326.4
80°	3578.9	1013.0	724.6	468.5	353.0	325.0	320.3	307.4	282.2	288.4	288.4
82.5°	2451.8	664.3	521.2	383.4	301.2	275.1	275.1	261.8	234.3	237.1	246.1
85°	1231.1	457.1	389.2	297.0	234.3	220.9	220.9	211.0	182.9	184.4	196.2
87.5°	374.9	275.1	257.5	212.4	168.2	165.4	157.8	150.6	133.0	131.6	139.2
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):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	8996.1	8996.1	8996.1	8996.1	8996.1	8996.1	8996.1	8996.1	8996.1	8996.1	8996.1
2.5°	7758.8	7675.2	7574.9	7352.1	7277.5	7272.7	7340.7	7269.9	7404.8	7347.8	7410.5
5°	6256.8	6175.6	6062.5	5778.8	5605.9	5488.5	5433.4	5269.5	5387.8	5301.3	5373.5
7.5°	4601.9	4620.9	4546.3	4379.5	4003.2	3814.5	3703.4	3603.6	3690.0	3681.0	3818.8
10°	3234.9	3285.7	3233.4	3065.2	2760.2	2656.6	2677.0	2716.5	2829.5	2887.5	3099.9
12.5°	2328.7	2325.9	2292.1	2141.5	1941.0	1952.4	2036.0	2104.5	2208.5	2270.3	2486.5
15°	1738.6	1712.5	1697.7	1574.7	1460.6	1485.8	1526.7	1533.8	1599.8	1636.4	1812.2
17.5°	1314.3	1327.6	1343.3	1255.8	1169.4	1153.2	1121.4	1081.5	1100.9	1108.1	1195.5
20°	1043.4	1096.2	1136.1	1074.3	986.9	939.4	898.5	872.4	872.4	871.0	895.7
22.5°	911.8	949.8	992.6	949.8	871.0	829.6	806.3	785.9	783.1	783.1	806.3
25°	840.5	868.1	909.0	880.0	821.1	790.2	768.3	742.2	732.2	728.9	745.0
27.5°	804.9	816.8	837.2	810.6	761.2	746.5	740.8	717.5	703.7	696.6	713.2
30°	745.0	742.2	743.6	717.5	677.6	676.1	686.1	690.9	686.1	684.7	709.9
32.5°	689.4	683.3	681.8	658.6	622.0	613.4	622.0	631.0	641.0	655.7	684.7
35°	619.1	633.9	642.4	622.0	577.8	551.7	541.7	525.5	516.5	516.5	550.2
37.5°	563.5	597.3	610.6	591.6	543.1	506.5	488.9	486.1	487.5	493.2	525.5
40°	544.5	569.2	580.6	562.1	513.6	480.4	469.9	467.1	469.9	479.0	510.8
42.5°	532.6	550.2	548.8	525.5	486.1	462.8	457.1	453.8	457.1	465.7	500.8
45°	522.7	534.1	522.7	494.6	458.5	446.2	447.6	446.2	449.0	458.5	491.8
47.5°	513.6	517.9	503.7	475.6	437.6	434.8	440.5	444.7	447.6	455.7	490.4
50°	500.8	500.8	487.5	458.5	420.0	421.5	428.6	439.0	440.5	449.0	477.5
52.5°	484.7	483.2	474.2	446.2	405.3	409.6	409.6	421.5	424.3	434.8	464.2
55°	471.4	468.5	464.2	437.6	392.5	399.6	395.3	399.6	406.7	417.2	449.0
57.5°	459.9	453.8	453.8	430.0	382.0	384.9	374.9	380.6	389.2	398.2	431.4
60°	447.6	441.9	444.7	420.0	365.9	363.0	358.7	370.1	373.5	383.4	417.2
62.5°	434.8	430.0	431.4	408.2	354.5	346.9	346.9	357.3	358.7	373.5	405.3
65°	424.3	418.6	417.2	396.8	341.2	332.6	336.9	341.2	344.0	358.7	389.2
67.5°	414.3	402.5	402.5	386.3	326.4	317.4	326.4	325.0	329.8	342.6	367.3
70°	401.0	384.9	386.3	379.2	311.7	301.2	308.9	307.4	310.3	318.8	344.0
72.5°	380.6	367.3	370.1	367.3	297.0	282.2	285.1	285.1	285.1	292.7	318.8
75°	354.5	344.0	353.0	360.2	279.4	259.0	261.8	261.8	257.5	261.8	294.1
77.5°	321.7	316.0	345.4	335.5	259.0	234.3	234.3	231.4	222.8	228.5	263.2
80°	287.0	282.2	318.8	280.8	235.7	203.8	200.5	192.9	184.4	188.6	224.3
82.5°	250.4	246.1	268.0	215.2	203.8	168.2	161.1	147.8	139.2	143.5	175.3
85°	205.3	205.3	206.7	162.5	154.9	128.8	120.2	102.6	92.2	95.0	125.9
87.5°	146.3	150.6	139.2	111.2	92.2	71.7	66.0	55.6	46.6	54.2	66.0
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: P299018

CATALOG NUMBER: GAA-AF-08-LED-U-SLL-7030-600

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	8996.1	8996.1	8996.1	8996.1	8996.1	8996.1	8996.1	8996.1
2.5°	7732.7	7893.7	8076.7	8310.4	8511.4	8840.2	9156.7	9346.8
5°	5781.7	6049.7	6382.7	6812.3	7211.9	7811.5	8407.4	8789.4
7.5°	4137.6	4424.6	4784.8	5320.3	5885.7	6650.7	7438.5	7895.2
10°	3424.0	3718.1	4020.8	4382.3	4845.1	5677.6	6608.4	7123.5
12.5°	2832.4	3146.9	3473.4	3854.0	4282.6	5026.2	6099.1	6692.1
15°	2167.7	2518.8	2903.7	3385.5	3922.4	4782.0	5973.2	6617.0
17.5°	1485.8	1878.3	2350.6	2945.0	3602.1	4702.6	6198.9	6941.1
20°	1023.0	1308.6	1813.7	2510.2	3300.9	4692.6	6631.7	7561.6
22.5°	856.2	983.6	1352.3	2110.6	3073.8	4818.5	7304.1	8432.1
25°	791.6	868.1	1080.0	1763.8	2908.4	5108.4	8229.2	9559.2
27.5°	754.1	822.5	980.7	1537.1	2778.2	5444.8	9129.1	10651.1
30°	768.3	838.6	952.7	1421.2	2601.0	5725.6	9928.3	11503.0
32.5°	692.3	723.2	816.8	1318.6	2473.7	5961.3	10627.8	12208.6
35°	590.1	643.8	728.9	1270.6	2476.5	6119.5	11390.4	13110.0
37.5°	562.1	616.3	677.6	1253.0	2510.2	6288.2	12265.6	14167.2
40°	544.5	594.4	647.2	1243.0	2542.6	6441.7	13123.8	15212.1
42.5°	532.6	577.8	643.8	1207.4	2558.7	6579.5	13828.9	16100.6
45°	531.2	577.8	655.7	1172.2	2583.4	6727.2	14420.5	16757.7
47.5°	532.6	597.3	633.9	1129.9	2583.4	6974.3	15114.2	17344.6
50°	526.9	629.6	610.6	1070.0	2523.5	7442.8	16065.4	18130.5
52.5°	524.1	625.3	565.0	977.9	2419.5	8186.4	17284.7	19213.8
55°	516.5	603.0	532.6	840.5	2298.3	8997.5	18590.4	20494.8
57.5°	509.4	534.1	515.1	720.3	2110.6	9568.2	19488.9	21494.1
60°	570.7	467.1	500.8	661.4	1860.2	9724.5	19454.2	21892.3
62.5°	528.4	437.6	481.8	648.6	1684.9	9285.5	18555.3	21677.5
65°	414.3	418.6	462.8	686.1	1637.9	8122.3	16962.5	20683.5
67.5°	379.2	399.6	443.3	735.1	1642.6	6503.0	14583.0	18518.2
70°	357.3	379.2	421.5	759.8	1654.0	4848.0	11529.1	15083.3
72.5°	332.6	351.6	396.8	764.0	1577.5	3521.4	8886.3	11090.6
75°	302.7	320.3	361.6	665.7	1307.1	2442.8	6797.6	7587.7
77.5°	269.4	282.2	317.4	513.6	970.7	1563.3	5102.2	5543.2
80°	230.0	237.1	266.6	376.3	664.3	977.9	4036.9	4447.9
82.5°	184.4	187.2	206.7	282.2	431.4	628.2	2703.6	3085.7
85°	130.2	130.2	142.1	205.3	294.1	398.2	1467.8	1627.9
87.5°	61.3	62.7	62.7	112.6	153.5	202.4	338.3	208.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)