

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: P299449

Luminaire Tested: **GAA-AF-10-LED-U-SLR-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194679)
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-SLR-7027-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill
Light Eliminator Right OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36223.9 lumens
Efficiency: N/A
Efficacy: 86.5 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): 419
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

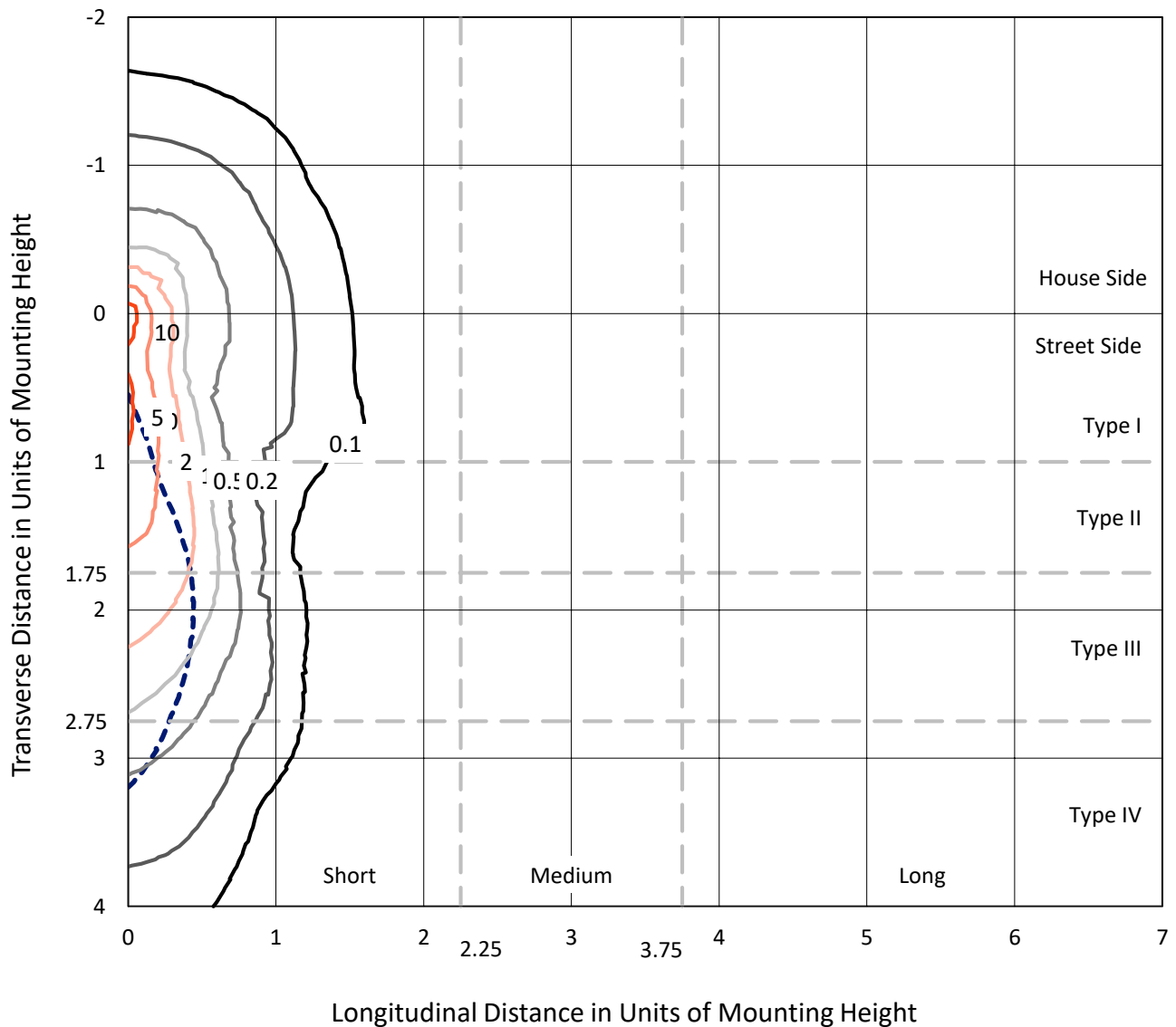


REPORT NUMBER: P299449

CATALOG NUMBER: GAA-AF-10-LED-U-SLR-7027-800

Iso-Footcandle Lines of Horizontal Illumination

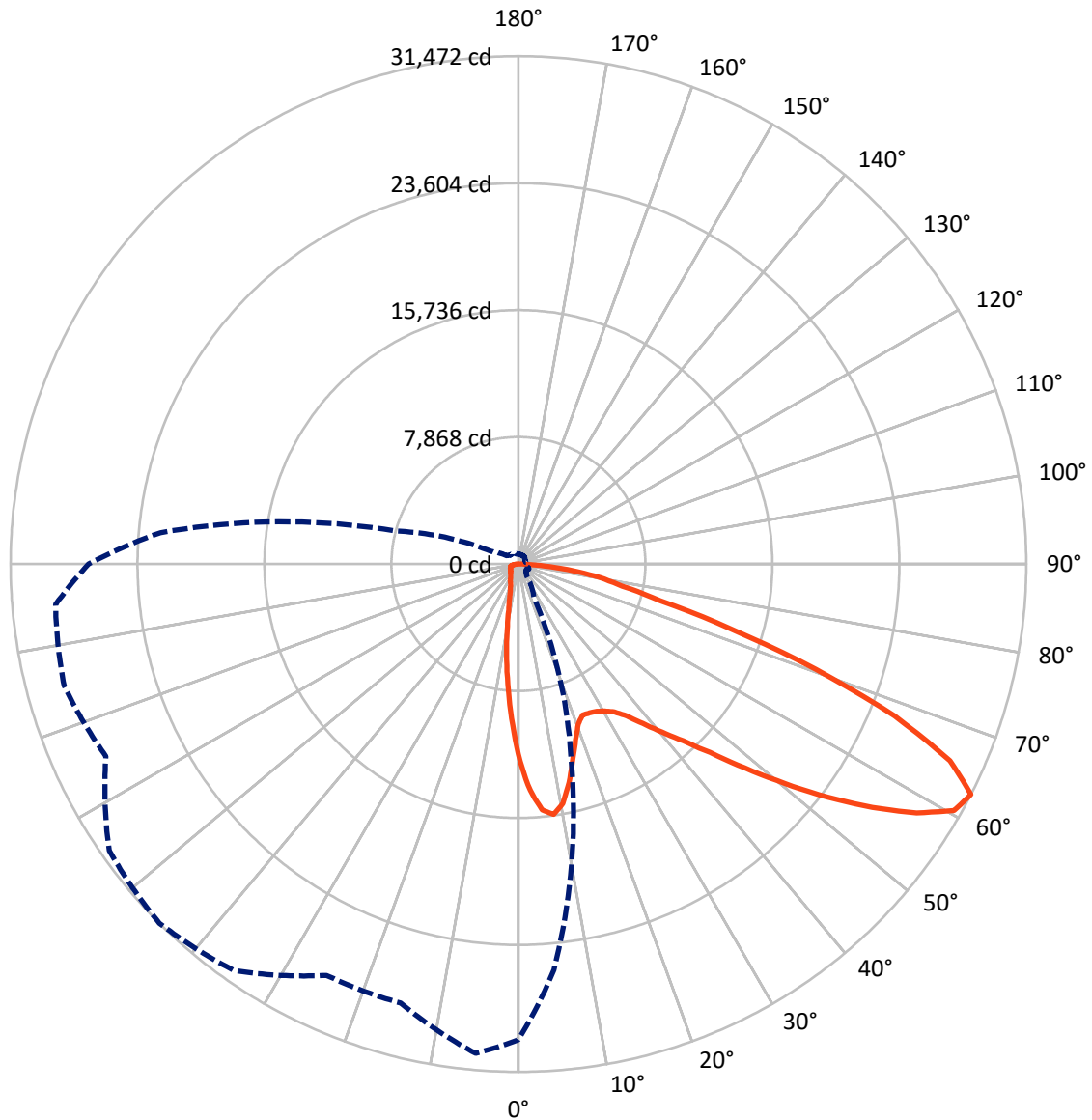
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.6 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P299449
CATALOG NUMBER: GAA-AF-10-LED-U-SLR-7027-800

Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P299449

CATALOG NUMBER: GAA-AF-10-LED-U-SLR-7027-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5994.6	0.0	5994.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	30229.4	0.0	30229.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	36223.9	0.0	36223.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	890.9	2.5
10°-20°	1633.7	4.5
20°-30°	2381.9	6.6
30°-40°	3668.5	10.1
40°-50°	5399.0	14.9
50°-60°	7919.2	21.9
60°-70°	8852.5	24.4
70°-80°	4334.1	12.0
80°-90°	1144.3	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°	36223.9	100.0
0°-180°	36223.9	100.0

Coefficient of Utilization



REPORT NUMBER: P299449

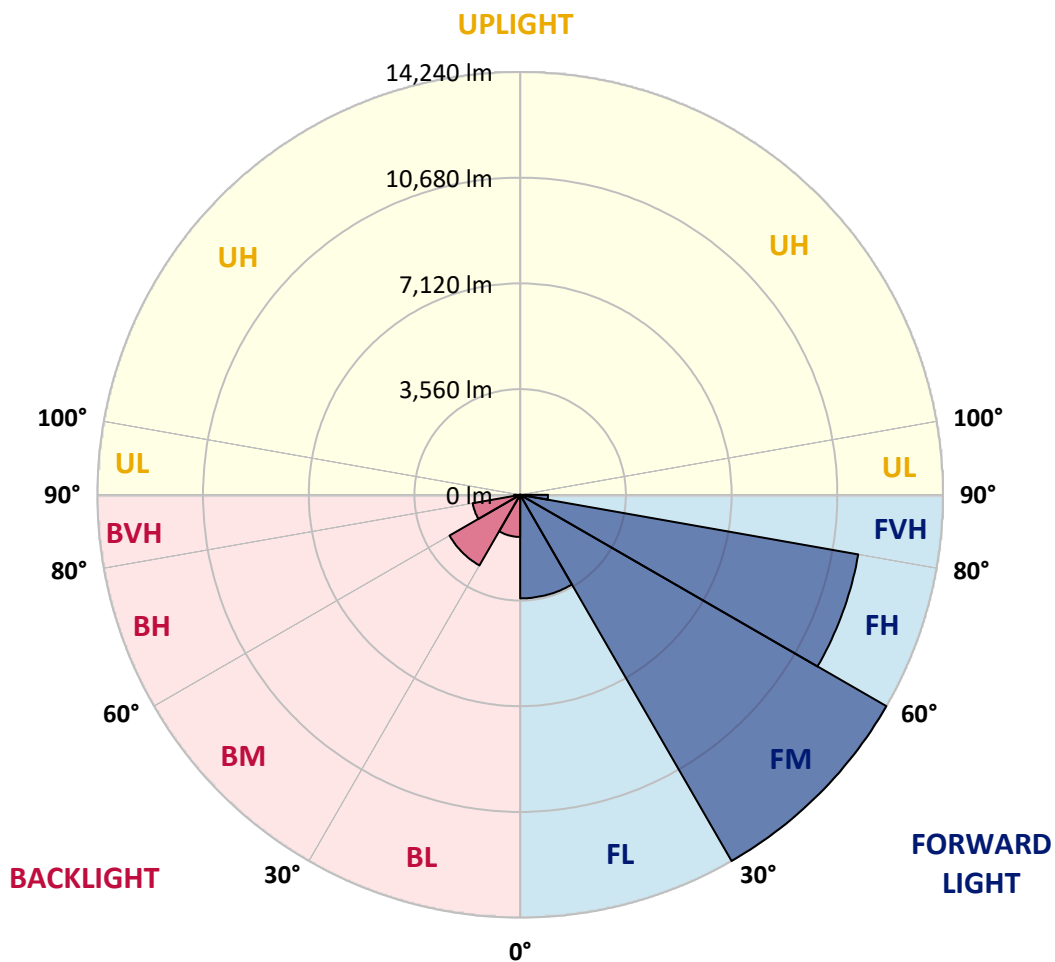
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3488.2	9.6			
FM (30°-60°)	14239.9	39.3			
FH (60°-80°)	11561.4	31.9			G4/12000
FVH (80°-90°)	939.7	2.6			G5
BL (0°-30°)	1418.2	3.9	B3/2500		
BM (30°-60°)	2746.7	7.6	B3/5000		
BH (60°-80°)	1625.1	4.5	B3/2500		G3/2500
BVH (80°-90°)	204.6	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: P299449

CATALOG NUMBER: GAA-AF-10-LED-U-SLR-7027-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	12238.6	12238.6	12238.6	12238.6	12238.6	12238.6	12238.6	12238.6	12238.6	12238.6	12238.6
2.5°	12716.1	12457.4	12027.0	11579.1	11306.6	10987.7	10738.8	10519.9	10081.7	9996.1	10073.9
5°	11957.7	11438.1	10627.3	9811.0	9267.3	8683.7	8229.8	7865.7	7309.9	7212.2	7329.8
7.5°	10741.2	10119.7	9048.4	8006.8	7238.2	6509.3	6019.8	5629.2	5195.2	5008.3	5019.7
10°	9691.7	8990.6	7724.0	6591.3	5962.0	5470.1	5057.7	4657.4	4217.4	3928.6	3849.1
12.5°	9103.9	8297.9	6837.9	5826.3	5242.8	4725.6	4281.3	3853.3	3383.1	3088.3	3005.1
15°	9002.6	8126.1	6505.7	5336.8	4605.6	3950.9	3427.1	2949.0	2465.0	2226.2	2176.2
17.5°	9442.7	8433.0	6397.8	4900.4	4006.4	3198.0	2554.8	2021.3	1627.0	1507.7	1497.4
20°	10286.7	9022.5	6383.9	4490.5	3415.0	2467.4	1780.2	1391.9	1218.9	1184.6	1187.0
22.5°	11471.8	9936.4	6555.2	4181.8	2871.3	1839.8	1338.3	1164.7	1097.1	1065.2	1065.2
25°	13004.8	11195.1	6949.4	3957.0	2399.3	1469.7	1180.9	1077.3	1013.4	991.7	995.9
27.5°	14490.8	12419.5	7407.5	3779.7	2090.6	1334.1	1118.8	1025.4	970.0	947.6	957.9
30°	15649.4	13507.0	7789.7	3538.6	1933.3	1296.1	1141.2	1045.3	965.7	932.0	933.8
32.5°	16609.1	14458.8	8110.4	3365.0	1794.0	1111.0	983.8	941.6	932.0	892.2	872.3
35°	17835.9	15496.3	8325.7	3369.2	1728.3	991.7	875.9	802.4	748.7	702.9	702.9
37.5°	19273.6	16686.9	8554.7	3415.0	1704.8	921.7	838.5	764.4	715.0	670.9	663.1
40°	20695.1	17854.0	8763.9	3459.0	1690.3	880.1	808.4	740.9	695.1	651.1	639.0
42.5°	21904.4	18813.7	8950.8	3480.7	1642.7	875.9	786.7	724.6	681.2	633.0	621.5
45°	22798.3	19617.8	9152.1	3514.5	1595.1	892.2	786.7	722.8	669.1	623.3	611.3
47.5°	23596.5	20561.9	9488.5	3514.5	1537.2	862.0	812.6	724.6	667.3	619.1	609.5
50°	24665.9	21856.1	10125.7	3433.1	1455.8	830.1	856.0	716.8	649.2	611.3	599.2
52.5°	26139.2	23515.1	11137.2	3291.4	1330.4	768.6	850.0	713.1	631.2	591.4	577.5
55°	27882.0	25291.0	12240.4	3126.3	1143.0	724.6	820.4	702.9	611.3	567.3	553.4
57.5°	29242.0	26513.6	13016.9	2871.3	979.6	701.1	727.0	693.3	587.2	541.3	529.9
60°	29783.3	26466.0	13230.3	2530.7	900.0	681.2	635.4	776.4	567.3	521.4	507.6
62.5°	29490.9	25243.4	12632.9	2292.0	881.9	655.3	595.6	718.6	551.6	507.6	487.7
65°	28138.8	23076.9	11049.8	2228.1	933.8	629.4	569.7	563.6	529.9	487.7	467.8
67.5°	25193.4	19839.1	8847.1	2234.1	999.5	603.4	543.8	516.0	499.7	466.0	447.9
70°	20520.3	15685.6	6594.9	2250.4	1033.2	573.3	516.0	485.9	467.8	434.0	422.0
72.5°	15088.2	12089.1	4791.3	2146.7	1039.3	539.5	478.0	452.1	434.0	398.5	388.2
75°	10322.8	9247.4	3323.4	1778.3	906.1	491.9	435.8	412.3	400.3	356.3	350.2
77.5°	7540.8	6941.6	2126.8	1320.2	698.7	432.2	384.6	366.5	358.7	310.5	302.6
80°	6051.8	5491.8	1330.4	904.2	511.8	362.3	322.5	312.9	304.4	256.8	250.8
82.5°	4197.5	3677.9	854.2	587.2	384.6	280.9	255.0	250.8	238.7	195.3	189.3
85°	2214.2	1997.2	541.3	400.3	278.5	192.9	177.2	177.2	171.2	129.6	125.4
87.5°	282.7	460.0	274.9	209.2	153.1	85.6	85.6	83.8	89.8	73.5	63.9
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: P299449

CATALOG NUMBER: GAA-AF-10-LED-U-SLR-7027-800

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	12238.6	12238.6	12238.6	12238.6	12238.6	12238.6	12238.6	12238.6	12238.6	12238.6	12238.6
2.5°	9890.6	9986.4	9894.8	9900.8	10002.1	10304.7	10442.2	10555.5	10677.3	10756.9	10792.4
5°	7168.8	7391.9	7467.2	7626.4	7861.5	8247.9	8401.0	8512.5	8586.7	8630.1	8648.2
7.5°	4902.8	5037.8	5189.1	5445.9	5957.7	6185.0	6286.3	6260.4	6177.2	6147.0	6117.5
10°	3695.9	3642.3	3614.0	3755.6	4169.8	4398.8	4470.6	4400.6	4354.8	4365.1	4414.5
12.5°	2863.4	2770.0	2656.7	2640.4	2913.5	3118.4	3164.2	3167.9	3251.7	3325.2	3434.9
15°	2087.0	2076.7	2021.3	1987.5	2142.5	2310.0	2329.9	2365.5	2441.5	2495.1	2590.4
17.5°	1471.5	1525.2	1569.2	1590.9	1708.4	1827.8	1806.1	1788.0	1774.1	1774.1	1819.9
20°	1187.0	1222.5	1278.6	1341.9	1461.9	1545.0	1491.4	1419.7	1367.8	1352.1	1358.2
22.5°	1069.4	1097.1	1129.1	1184.6	1292.5	1350.3	1292.5	1240.6	1188.8	1170.7	1164.7
25°	1009.7	1045.3	1075.4	1117.0	1196.6	1236.4	1180.9	1143.0	1111.0	1089.3	1073.0
27.5°	976.0	1007.3	1015.8	1035.7	1103.2	1138.7	1111.0	1095.3	1075.4	1055.6	1035.7
30°	939.8	933.8	919.9	921.7	976.0	1011.5	1009.7	1013.4	1011.5	1005.5	1001.9
32.5°	858.4	846.4	834.3	846.4	895.8	927.8	930.2	938.0	938.0	936.2	951.9
35°	715.0	736.7	750.5	786.7	846.4	874.1	862.0	842.2	806.6	784.3	782.5
37.5°	661.3	664.9	689.0	738.5	804.8	830.1	812.6	766.8	742.7	738.5	744.5
40°	635.4	639.0	652.9	698.7	764.4	790.3	774.6	740.9	718.6	716.8	727.0
42.5°	617.3	621.5	629.4	661.3	715.0	746.9	748.7	724.6	698.7	701.1	710.7
45°	607.0	609.5	607.0	623.3	672.8	710.7	727.0	710.7	689.0	693.3	704.7
47.5°	605.2	599.2	591.4	595.6	647.4	684.8	704.7	698.7	689.0	693.3	702.9
50°	597.4	583.5	573.3	571.5	623.3	663.1	681.2	681.2	684.8	693.3	702.9
52.5°	573.3	557.6	557.6	551.6	607.0	645.0	657.1	658.9	664.9	678.8	693.3
55°	543.8	537.7	543.8	533.5	595.6	631.2	637.2	641.4	645.0	657.1	677.0
57.5°	517.8	510.0	523.9	519.6	585.3	617.3	617.3	625.1	625.1	641.4	657.1
60°	504.0	487.7	493.7	497.9	571.5	605.2	601.6	609.5	613.1	627.5	639.0
62.5°	485.9	472.0	472.0	481.7	555.8	587.2	585.3	591.4	607.0	611.3	623.3
65°	464.2	458.1	452.1	464.2	539.5	567.3	569.7	577.5	591.4	595.6	605.2
67.5°	441.9	444.3	432.2	444.3	525.7	547.4	547.4	563.6	569.7	577.5	587.2
70°	418.4	420.2	409.9	424.4	516.0	525.7	523.9	545.6	549.8	555.8	565.5
72.5°	388.2	388.2	384.6	404.5	499.7	504.0	499.7	517.8	519.6	525.7	529.9
75°	356.3	356.3	352.7	380.4	490.1	479.9	467.8	481.7	485.9	490.1	490.1
77.5°	314.7	318.9	318.9	352.7	455.7	470.2	429.8	438.3	444.3	446.1	440.1
80°	262.8	273.1	276.7	320.7	382.2	434.0	384.6	390.0	392.4	392.4	384.6
82.5°	201.3	218.8	229.1	276.7	293.0	364.1	334.6	340.6	334.6	322.5	318.9
85°	139.3	163.4	175.4	211.0	221.2	280.9	278.5	278.5	267.1	250.8	249.0
87.5°	76.0	89.8	97.7	125.4	151.3	189.3	205.0	198.9	189.3	179.0	181.5
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: P299449

CATALOG NUMBER: GAA-AF-10-LED-U-SLR-7027-800

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	12238.6	12238.6	12238.6	12238.6	12238.6	12238.6	12238.6	12238.6	12238.6	12238.6	12238.6
2.5°	10979.9	11250.6	11682.8	12013.2	12345.9	12666.6	13013.2	13277.9	13502.7	13590.8	13857.2
5°	8829.6	9167.8	9575.9	10312.6	10834.6	11409.7	12075.2	12955.4	13293.6	13762.0	14528.2
7.5°	6242.9	6549.1	7206.2	7801.8	8540.9	9355.3	10252.9	11467.6	11911.9	12662.4	13910.9
10°	4661.7	5017.9	5545.4	6047.6	6698.6	7531.1	8562.6	9920.7	10460.3	11274.7	12712.4
12.5°	3755.6	4175.8	4735.2	5207.2	5711.2	6298.3	7300.2	8789.2	9512.6	10225.2	11678.6
15°	2885.1	3325.2	3845.4	4444.6	4999.9	5633.4	6682.9	8311.8	9143.7	9887.0	11127.0
17.5°	1997.2	2373.3	3028.6	3653.7	4365.1	5175.3	6511.7	8413.1	9406.5	10263.1	11222.8
20°	1416.0	1630.6	2168.4	2893.6	3779.7	4796.7	6479.8	8946.6	10239.0	11216.8	11835.9
22.5°	1190.6	1270.2	1583.0	2247.9	3271.5	4514.0	6591.3	9695.3	11362.1	12610.6	12813.7
25°	1085.1	1133.3	1296.1	1764.5	2819.4	4309.0	6967.5	10810.5	12752.2	14004.9	13968.7
27.5°	1027.2	1077.3	1184.6	1489.6	2479.4	4181.8	7343.6	12133.1	14341.3	15518.0	15071.9
30°	1009.7	1077.3	1190.6	1404.0	2236.5	3980.5	7652.3	13293.6	15563.8	16539.8	15574.1
32.5°	995.9	1005.5	1057.4	1210.5	2005.0	3745.4	7861.5	14335.2	16760.4	17511.5	16296.8
35°	804.8	854.2	938.0	1085.1	1870.0	3604.3	7861.5	15233.5	17939.6	18493.0	16985.9
37.5°	774.6	818.6	892.2	1017.6	1794.0	3534.4	7704.1	16099.7	19144.0	19606.4	17553.1
40°	759.0	794.5	864.5	965.7	1762.1	3454.8	7475.1	16864.1	20320.7	20721.0	18083.0
42.5°	746.9	778.9	844.6	933.8	1720.5	3367.4	7290.0	17477.2	21342.5	21672.9	18588.8
45°	740.9	774.6	846.4	950.1	1636.7	3251.7	7228.5	18140.3	22182.9	22467.4	19136.2
47.5°	740.9	780.7	856.0	983.8	1537.2	3132.3	7421.4	19015.0	22977.4	23116.6	19781.2
50°	734.8	778.9	884.3	950.1	1391.9	2981.0	7875.3	20115.8	23837.6	23853.3	20598.0
52.5°	722.8	774.6	951.9	930.2	1224.3	2782.1	8489.0	21530.0	25110.2	25205.4	21876.0
55°	708.9	768.6	933.8	884.3	1087.5	2545.1	8990.6	23248.1	26898.2	27162.8	23756.2
57.5°	690.8	760.8	904.2	820.4	997.7	2240.1	9172.0	24506.8	28146.6	28811.6	25874.6
60°	675.2	754.7	816.2	782.5	941.6	1983.3	8821.2	24257.8	28061.0	29494.6	27752.4
62.5°	658.9	760.8	744.5	759.0	915.7	1818.1	7905.5	22264.2	26641.4	28789.9	29144.3
65°	641.4	707.1	702.9	738.5	910.3	1752.4	6553.3	19275.4	23897.3	26561.8	29472.9
67.5°	617.3	652.9	672.8	713.1	930.2	1694.5	5288.6	15900.2	20083.8	23222.1	27760.2
70°	591.4	621.5	643.2	681.2	918.1	1668.6	4398.8	12538.8	15936.4	19032.5	24381.4
72.5°	557.6	583.5	603.4	639.0	906.1	1654.8	3715.8	10098.0	11898.0	14138.1	19823.4
75°	517.8	541.3	555.8	591.4	868.1	1515.5	2921.3	8544.5	8903.2	9835.1	15788.7
77.5°	472.0	490.1	501.6	541.3	768.6	1260.5	2112.9	6591.3	6913.8	7140.5	12104.8
80°	418.4	435.8	441.9	479.9	637.2	985.6	1378.1	4868.4	5171.1	5222.9	7905.5
82.5°	356.3	374.4	374.4	409.9	521.4	708.9	904.2	3335.4	3395.1	3570.5	5587.6
85°	286.9	300.8	300.8	318.9	404.5	529.9	621.5	1674.7	1656.6	1891.7	4840.7
87.5°	205.0	215.2	224.9	229.1	288.8	350.2	374.4	510.0	336.4	386.4	3108.2
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: P299449

CATALOG NUMBER: GAA-AF-10-LED-U-SLR-7027-800

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	12238.6	12238.6	12238.6	12238.6	12238.6	12238.6	12238.6	12238.6
2.5°	14058.5	14171.9	14056.1	13972.9	13612.5	13315.9	12919.2	12716.1
5°	15111.7	15400.4	15302.8	14952.5	14199.6	13353.2	12391.7	11957.7
7.5°	14984.5	15655.4	15671.1	15016.4	13907.2	12660.6	11358.5	10741.2
10°	13992.8	14850.7	15096.0	14460.6	13283.9	11890.2	10396.4	9691.7
12.5°	12885.4	13725.8	13913.3	13693.8	12710.6	11310.3	9795.3	9103.9
15°	11979.4	12356.2	12578.6	12770.3	12218.7	11079.4	9761.0	9002.6
17.5°	11427.8	11386.2	11450.1	11782.3	11875.7	11344.0	10278.8	9442.7
20°	11228.9	10589.9	10573.6	11031.7	11714.8	11975.8	11290.4	10286.7
22.5°	11338.6	10302.9	10171.5	10715.3	11800.4	12885.4	12616.6	11471.8
25°	11716.6	10327.0	10220.9	10747.2	12110.8	13855.4	14048.3	13004.8
27.5°	12312.2	10478.4	10338.5	10878.6	12523.1	14669.8	15458.3	14490.8
30°	12877.6	10741.2	10567.6	11137.2	12899.3	14992.3	16322.8	15649.4
32.5°	13564.8	11233.1	10928.1	11612.9	13365.3	15505.9	17093.2	16609.1
35°	14237.6	11933.6	11555.6	12347.7	13884.9	16145.5	17973.3	17835.9
37.5°	14976.7	12849.9	12537.0	13297.8	14596.3	16748.4	19096.4	19273.6
40°	15765.2	14064.6	13693.8	14683.7	15699.4	17505.5	20269.5	20695.1
42.5°	16559.7	15412.5	14970.6	15973.7	16911.7	18251.8	21272.6	21904.4
45°	17469.3	16876.2	16667.0	17752.1	18077.0	18963.2	22013.5	22798.3
47.5°	18529.1	18537.0	18873.3	19307.4	19251.9	19767.3	22758.6	23596.5
50°	19765.5	20609.5	21352.8	21640.9	20462.4	20631.8	23791.8	24665.9
52.5°	21250.9	23088.9	24008.8	23819.5	21766.9	21686.7	25428.5	26139.2
55°	23108.8	25713.6	26627.5	26491.9	23266.1	23124.5	27467.9	27882.0
57.5°	25259.1	28256.4	29096.7	28487.2	25066.2	24702.1	29154.6	29242.0
60°	27149.0	30271.6	31008.3	30333.1	26882.5	26380.4	30207.7	29783.3
62.5°	28200.3	30954.6	31472.4	30745.4	28126.7	28168.3	30438.6	29490.9
65°	27730.7	29228.1	29395.1	29335.4	27806.0	29205.8	29608.5	28138.8
67.5°	25157.8	24863.0	25144.0	25532.2	25058.3	27839.8	27308.1	25193.4
70°	20625.8	19006.6	19566.6	19827.0	20042.2	23957.0	23702.0	20520.3
72.5°	15543.9	13315.9	13757.7	13704.1	14699.4	19215.7	18433.3	15088.2
75°	11013.7	9028.6	9084.0	9062.3	10257.1	15033.9	13347.8	10322.8
77.5°	7705.9	6541.3	6571.4	6694.4	6895.7	11338.6	9536.1	7540.8
80°	5298.9	4964.3	5129.5	5139.7	4779.2	7616.7	7045.2	6051.8
82.5°	3946.7	3450.6	3410.8	3468.7	3745.4	6171.1	5414.0	4197.5
85°	3231.8	2043.0	1642.7	2059.3	3319.2	6111.5	3596.5	2214.2
87.5°	1819.9	970.0	438.3	812.6	1324.4	4046.2	1039.3	282.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)