

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: P299342

Luminaire Tested: **GAA-AF-02-LED-U-SLR-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299342
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-02-LED-U-SLR-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill
Light Eliminator Right OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10318.4 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 113
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

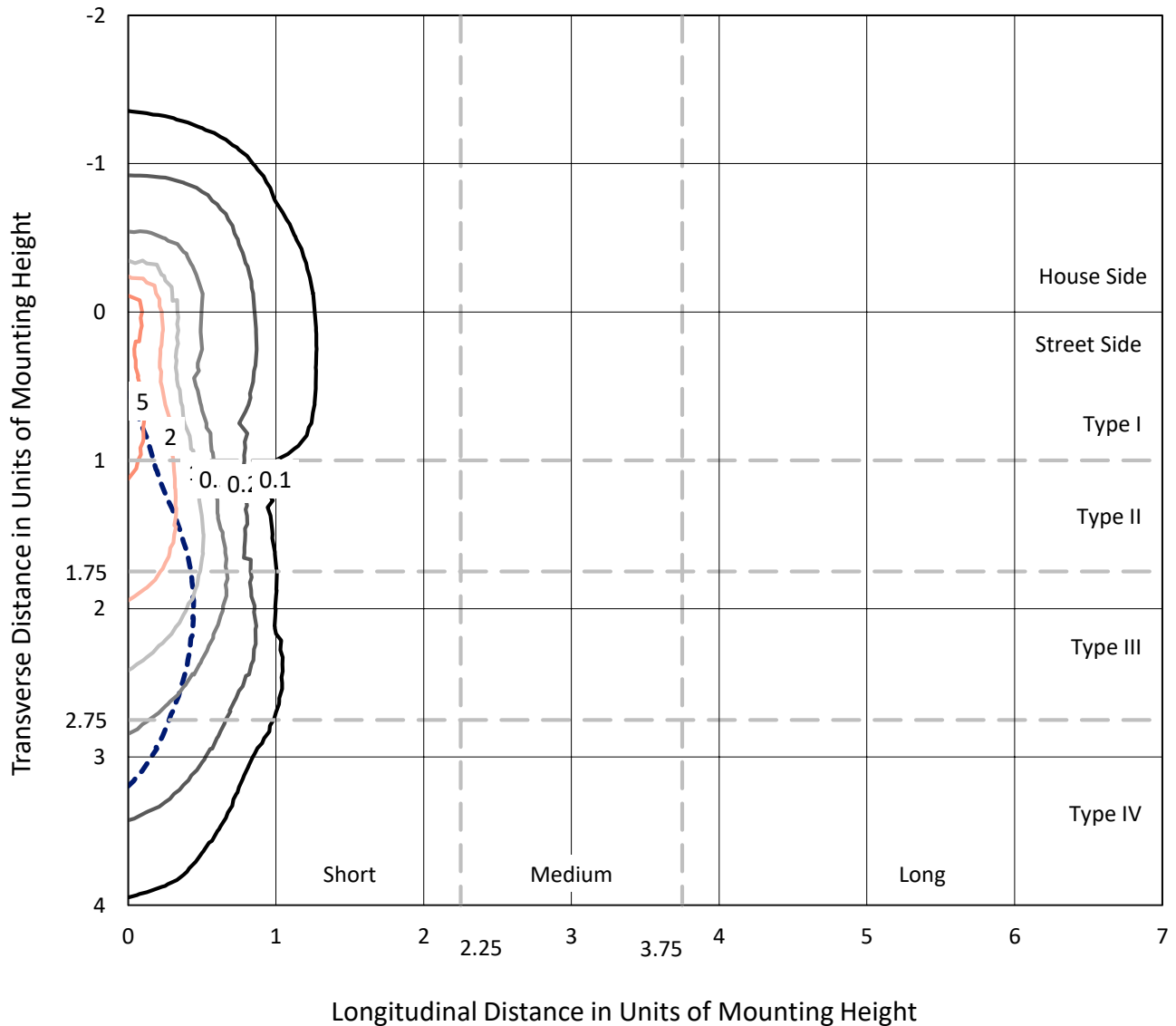


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

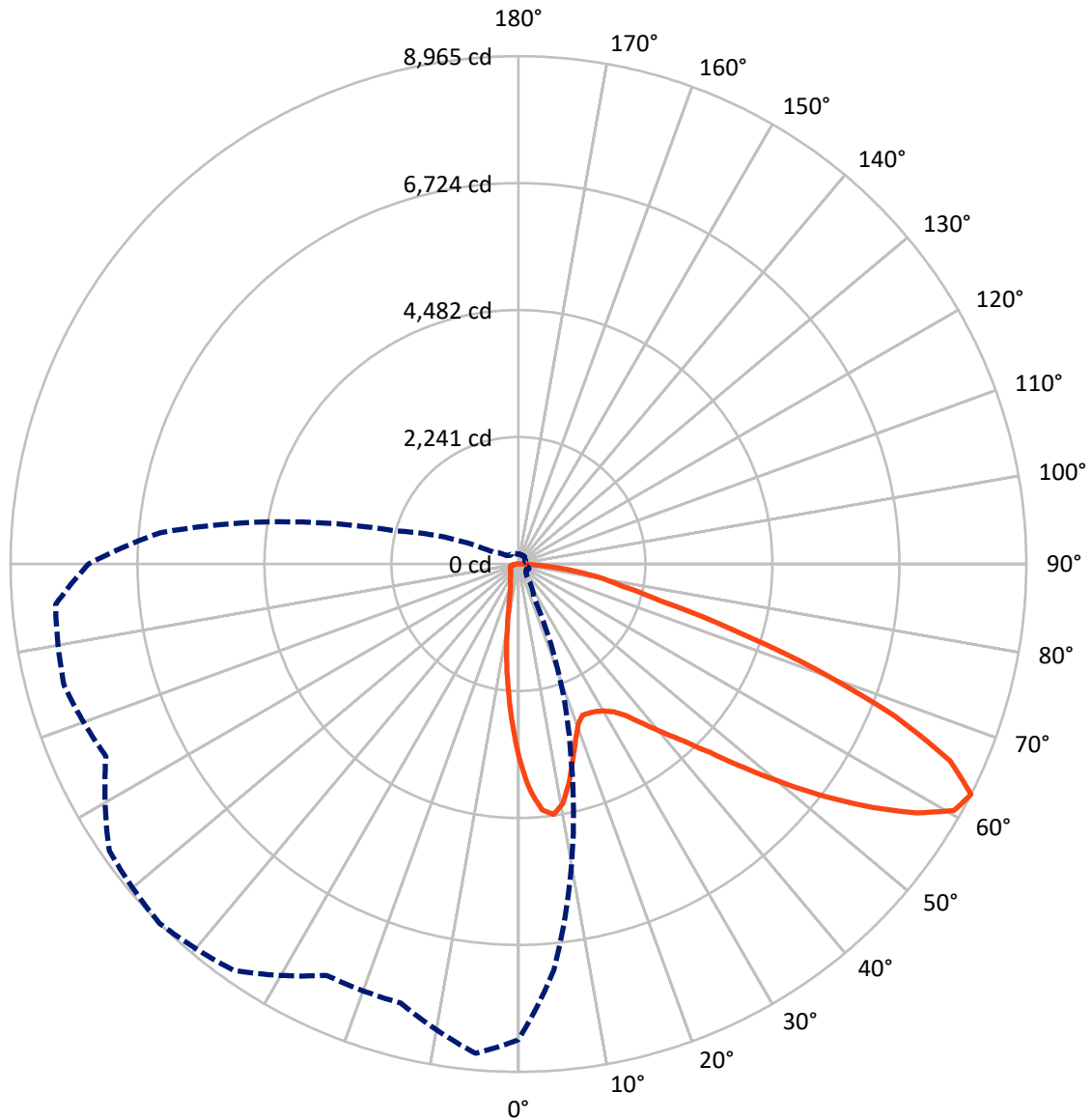


Based on 20 foot mounting height. Maximum calculated value = 8.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1707.6	0.0	1707.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	8610.8	0.0	8610.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	10318.4	0.0	10318.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.8	2.5
10°-20°	465.3	4.5
20°-30°	678.5	6.6
30°-40°	1045.0	10.1
40°-50°	1537.9	14.9
50°-60°	2255.8	21.9
60°-70°	2521.6	24.4
70°-80°	1234.6	12.0
80°-90°	326.0	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°	10318.4	100.0
0°-180°	10318.4	100.0

Coefficient of Utilization



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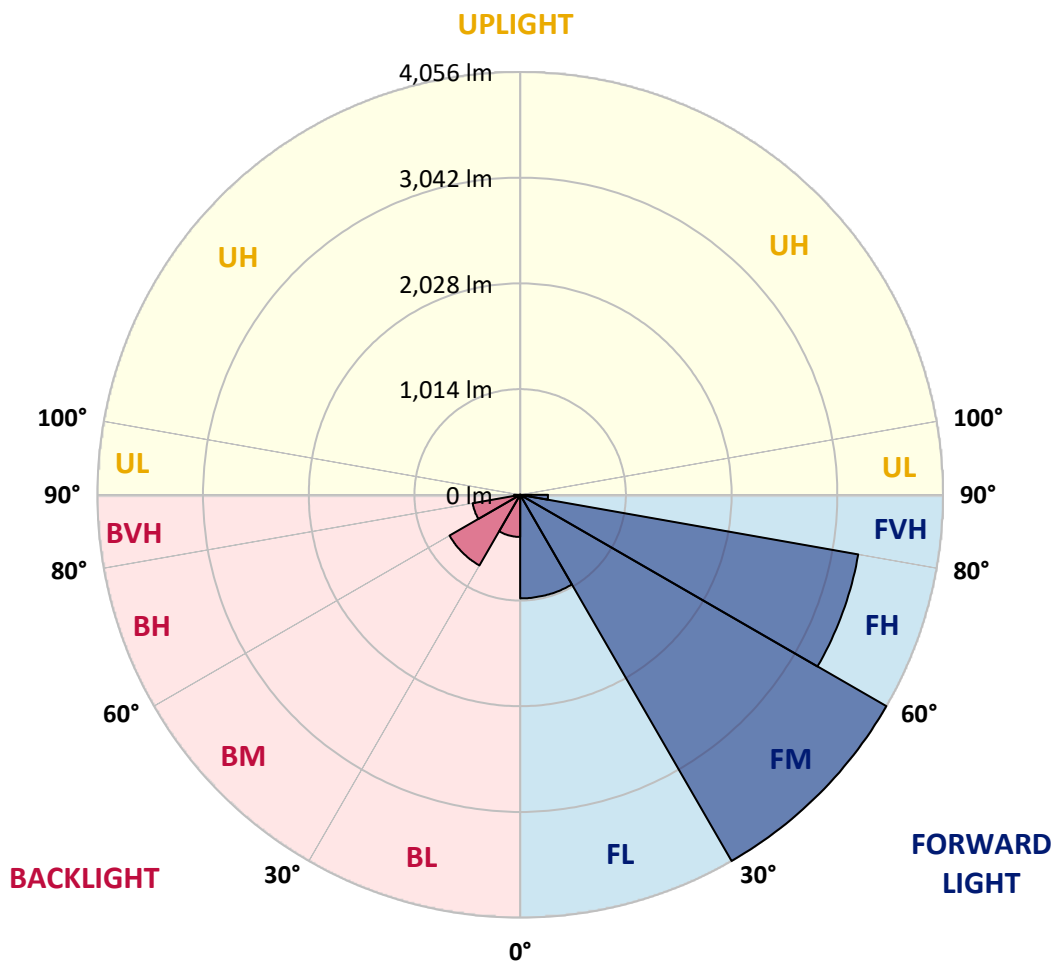
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	993.6	9.6			
FM (30°-60°)	4056.2	39.3			
FH (60°-80°)	3293.3	31.9			G2/5000
FVH (80°-90°)	267.7	2.6			G3/500
BL (0°-30°)	404.0	3.9	B1/500		
BM (30°-60°)	782.4	7.6	B1/1000		
BH (60°-80°)	462.9	4.5	B1/500		G1/500
BVH (80°-90°)	58.3	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2
2.5°	3622.1	3548.5	3425.9	3298.3	3220.7	3129.8	3058.9	2996.6	2871.8	2847.4	2869.5
5°	3406.1	3258.1	3027.2	2794.7	2639.8	2473.5	2344.2	2240.5	2082.2	2054.4	2087.9
7.5°	3059.6	2882.6	2577.4	2280.7	2061.8	1854.2	1714.7	1603.5	1479.8	1426.6	1429.9
10°	2760.7	2561.0	2200.2	1877.5	1698.3	1558.1	1440.7	1326.7	1201.3	1119.1	1096.4
12.5°	2593.2	2363.7	1947.8	1659.6	1493.4	1346.1	1219.5	1097.6	963.7	879.7	856.0
15°	2564.4	2314.7	1853.1	1520.2	1311.9	1125.4	976.2	840.0	702.1	634.1	619.9
17.5°	2689.7	2402.1	1822.4	1395.9	1141.2	910.9	727.7	575.8	463.5	429.5	426.5
20°	2930.1	2570.1	1818.5	1279.1	972.8	702.8	507.1	396.5	347.2	337.4	338.1
22.5°	3267.7	2830.4	1867.2	1191.2	817.9	524.1	381.2	331.8	312.5	303.4	303.4
25°	3704.4	3188.9	1979.5	1127.1	683.4	418.6	336.4	306.9	288.7	282.5	283.7
27.5°	4127.7	3537.7	2110.0	1076.7	595.5	380.0	318.7	292.1	276.3	269.9	272.9
30°	4457.7	3847.4	2218.9	1008.0	550.7	369.2	325.1	297.8	275.1	265.5	266.0
32.5°	4731.1	4118.6	2310.2	958.5	511.0	316.5	280.2	268.2	265.5	254.1	248.5
35°	5080.5	4414.1	2371.6	959.7	492.3	282.5	249.5	228.6	213.3	200.2	200.2
37.5°	5490.1	4753.2	2436.8	972.8	485.6	262.6	238.9	217.7	203.7	191.1	188.9
40°	5895.0	5085.7	2496.4	985.3	481.5	250.7	230.3	211.0	198.0	185.5	182.0
42.5°	6239.4	5359.0	2549.6	991.5	467.9	249.5	224.1	206.4	194.0	180.3	177.0
45°	6494.1	5588.1	2607.0	1001.1	454.4	254.1	224.1	205.9	190.6	177.6	174.1
47.5°	6721.4	5857.0	2702.8	1001.1	437.9	245.6	231.5	206.4	190.1	176.4	173.6
50°	7026.0	6225.7	2884.3	977.9	414.7	236.5	243.8	204.2	184.9	174.1	170.7
52.5°	7445.7	6698.2	3172.4	937.6	379.0	218.9	242.1	203.1	179.8	168.5	164.5
55°	7942.1	7204.1	3486.7	890.5	325.6	206.4	233.7	200.2	174.1	161.6	157.6
57.5°	8329.5	7552.4	3707.8	817.9	279.0	199.7	207.1	197.5	167.3	154.2	150.9
60°	8483.7	7538.8	3768.6	720.9	256.4	194.0	181.0	221.2	161.6	148.5	144.6
62.5°	8400.5	7190.6	3598.5	652.9	251.2	186.7	169.7	204.7	157.1	144.6	138.9
65°	8015.3	6573.4	3147.5	634.7	266.0	179.3	162.3	160.6	150.9	138.9	133.3
67.5°	7176.3	5651.1	2520.1	636.4	284.7	171.9	154.9	147.0	142.4	132.7	127.6
70°	5845.2	4468.0	1878.6	641.0	294.3	163.3	147.0	138.4	133.3	123.6	120.2
72.5°	4297.8	3443.6	1364.8	611.5	296.0	153.7	136.2	128.8	123.6	113.5	110.6
75°	2940.4	2634.1	946.7	506.6	258.1	140.1	124.1	117.5	114.0	101.5	99.8
77.5°	2148.0	1977.3	605.8	376.1	199.0	123.1	109.6	104.4	102.2	88.4	86.2
80°	1723.8	1564.3	379.0	257.6	145.8	103.2	91.9	89.1	86.7	73.2	71.4
82.5°	1195.6	1047.6	243.3	167.3	109.6	80.0	72.6	71.4	68.0	55.6	53.9
85°	630.7	568.9	154.2	114.0	79.3	54.9	50.5	50.5	48.8	36.9	35.7
87.5°	80.5	131.0	78.3	59.6	43.6	24.4	24.4	23.9	25.6	20.9	18.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2
2.5°	2817.3	2844.6	2818.5	2820.2	2849.1	2935.3	2974.4	3006.7	3041.4	3064.1	3074.2
5°	2042.0	2105.6	2127.0	2172.4	2239.3	2349.4	2393.0	2424.8	2445.9	2458.3	2463.4
7.5°	1396.6	1435.0	1478.1	1551.3	1697.1	1761.8	1790.6	1783.3	1759.6	1751.0	1742.6
10°	1052.8	1037.5	1029.4	1069.8	1187.8	1253.0	1273.4	1253.5	1240.5	1243.4	1257.5
12.5°	815.6	789.0	756.7	752.1	829.9	888.3	901.3	902.4	926.2	947.2	978.4
15°	594.5	591.6	575.8	566.1	610.3	658.0	663.7	673.8	695.4	710.7	737.9
17.5°	419.2	434.4	447.0	453.2	486.6	520.6	514.5	509.3	505.4	505.4	518.4
20°	338.1	348.2	364.2	382.2	416.4	440.1	424.8	404.4	389.6	385.2	386.9
22.5°	304.6	312.5	321.6	337.4	368.2	384.6	368.2	353.4	338.6	333.5	331.8
25°	287.6	297.8	306.3	318.2	340.9	352.2	336.4	325.6	316.5	310.3	305.7
27.5°	278.0	286.9	289.3	295.0	314.2	324.4	316.5	312.0	306.3	300.7	295.0
30°	267.7	266.0	262.0	262.6	278.0	288.1	287.6	288.7	288.1	286.4	285.4
32.5°	244.5	241.1	237.7	241.1	255.2	264.3	265.0	267.2	267.2	266.7	271.1
35°	203.7	209.8	213.8	224.1	241.1	249.0	245.6	239.9	229.8	223.4	222.9
37.5°	188.4	189.4	196.3	210.4	229.2	236.5	231.5	218.4	211.6	210.4	212.1
40°	181.0	182.0	186.0	199.0	217.7	225.1	220.7	211.0	204.7	204.2	207.1
42.5°	175.8	177.0	179.3	188.4	203.7	212.8	213.3	206.4	199.0	199.7	202.5
45°	172.9	173.6	172.9	177.6	191.6	202.5	207.1	202.5	196.3	197.5	200.7
47.5°	172.4	170.7	168.5	169.7	184.4	195.1	200.7	199.0	196.3	197.5	200.2
50°	170.2	166.2	163.3	162.8	177.6	188.9	194.0	194.0	195.1	197.5	200.2
52.5°	163.3	158.8	158.8	157.1	172.9	183.7	187.2	187.7	189.4	193.4	197.5
55°	154.9	153.2	154.9	152.0	169.7	179.8	181.5	182.7	183.7	187.2	192.8
57.5°	147.5	145.3	149.2	148.0	166.7	175.8	175.8	178.1	178.1	182.7	187.2
60°	143.6	138.9	140.6	141.8	162.8	172.4	171.4	173.6	174.6	178.8	182.0
62.5°	138.4	134.5	134.5	137.2	158.3	167.3	166.7	168.5	172.9	174.1	177.6
65°	132.2	130.5	128.8	132.2	153.7	161.6	162.3	164.5	168.5	169.7	172.4
67.5°	125.9	126.6	123.1	126.6	149.7	155.9	155.9	160.6	162.3	164.5	167.3
70°	119.2	119.7	116.8	120.9	147.0	149.7	149.2	155.4	156.6	158.3	161.1
72.5°	110.6	110.6	109.6	115.2	142.4	143.6	142.4	147.5	148.0	149.7	150.9
75°	101.5	101.5	100.5	108.4	139.6	136.7	133.3	137.2	138.4	139.6	139.6
77.5°	89.6	90.8	90.8	100.5	129.8	133.9	122.4	124.8	126.6	127.1	125.4
80°	74.9	77.8	78.8	91.4	108.9	123.6	109.6	111.1	111.8	111.8	109.6
82.5°	57.4	62.3	65.3	78.8	83.5	103.7	95.3	97.0	95.3	91.9	90.8
85°	39.7	46.5	50.0	60.1	63.0	80.0	79.3	79.3	76.1	71.4	70.9
87.5°	21.6	25.6	27.8	35.7	43.1	53.9	58.4	56.7	53.9	51.0	51.7
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°	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2
2.5°	3127.6	3204.7	3327.8	3421.9	3516.7	3608.1	3706.8	3782.2	3846.2	3871.3	3947.2
5°	2515.1	2611.4	2727.7	2937.5	3086.2	3250.0	3439.6	3690.3	3786.7	3920.1	4138.3
7.5°	1778.3	1865.5	2052.7	2222.3	2432.9	2664.8	2920.5	3266.5	3393.1	3606.9	3962.5
10°	1327.9	1429.4	1579.6	1722.6	1908.1	2145.2	2439.0	2825.9	2979.6	3211.6	3621.1
12.5°	1069.8	1189.5	1348.8	1483.3	1626.8	1794.1	2079.5	2503.6	2709.7	2912.6	3326.6
15°	821.8	947.2	1095.4	1266.1	1424.2	1604.7	1903.6	2367.6	2604.6	2816.3	3169.5
17.5°	568.9	676.0	862.7	1040.8	1243.4	1474.2	1854.9	2396.4	2679.4	2923.4	3196.8
20°	403.4	464.5	617.7	824.2	1076.7	1366.3	1845.8	2548.4	2916.6	3195.1	3371.4
22.5°	339.1	361.8	450.9	640.3	931.9	1285.8	1877.5	2761.7	3236.5	3592.1	3650.0
25°	309.1	322.8	369.2	502.6	803.1	1227.4	1984.7	3079.4	3632.5	3989.3	3979.0
27.5°	292.6	306.9	337.4	424.3	706.3	1191.2	2091.8	3456.1	4085.1	4420.3	4293.2
30°	287.6	306.9	339.1	399.9	637.1	1133.8	2179.7	3786.7	4433.3	4711.3	4436.2
32.5°	283.7	286.4	301.2	344.8	571.1	1066.9	2239.3	4083.4	4774.2	4988.1	4642.1
35°	229.2	243.3	267.2	309.1	532.7	1026.7	2239.3	4339.2	5110.1	5267.7	4838.4
37.5°	220.7	233.2	254.1	289.9	511.0	1006.8	2194.5	4586.0	5453.1	5584.8	5000.0
40°	216.2	226.3	246.2	275.1	501.9	984.1	2129.3	4803.7	5788.3	5902.3	5150.9
42.5°	212.8	221.9	240.6	266.0	490.1	959.2	2076.5	4978.4	6079.4	6173.5	5295.0
45°	211.0	220.7	241.1	270.6	466.2	926.2	2059.0	5167.2	6318.8	6399.8	5450.9
47.5°	211.0	222.4	243.8	280.2	437.9	892.2	2114.0	5416.4	6545.1	6584.7	5634.6
50°	209.3	221.9	251.9	270.6	396.5	849.1	2243.3	5729.9	6790.1	6794.6	5867.3
52.5°	205.9	220.7	271.1	265.0	348.8	792.5	2418.1	6132.8	7152.6	7179.7	6231.4
55°	201.9	218.9	266.0	251.9	309.8	725.0	2561.0	6622.2	7661.9	7737.3	6766.9
57.5°	196.8	216.7	257.6	233.7	284.2	638.1	2612.6	6980.7	8017.5	8206.9	7370.3
60°	192.3	215.0	232.5	222.9	268.2	564.9	2512.7	6909.8	7993.1	8401.5	7905.2
62.5°	187.7	216.7	212.1	216.2	260.8	517.9	2251.9	6341.9	7588.8	8200.7	8301.7
65°	182.7	201.4	200.2	210.4	259.3	499.2	1866.7	5490.6	6807.1	7566.1	8395.3
67.5°	175.8	186.0	191.6	203.1	265.0	482.7	1506.5	4529.1	5720.8	6614.8	7907.5
70°	168.5	177.0	183.2	194.0	261.5	475.3	1253.0	3571.7	4539.4	5421.4	6945.0
72.5°	158.8	166.2	171.9	182.0	258.1	471.4	1058.4	2876.4	3389.1	4027.2	5646.7
75°	147.5	154.2	158.3	168.5	247.3	431.7	832.1	2433.9	2536.1	2801.5	4497.4
77.5°	134.5	139.6	142.9	154.2	218.9	359.1	601.9	1877.5	1969.4	2034.0	3448.0
80°	119.2	124.1	125.9	136.7	181.5	280.8	392.5	1386.8	1473.0	1487.7	2251.9
82.5°	101.5	106.6	106.6	116.8	148.5	201.9	257.6	950.1	967.1	1017.1	1591.6
85°	81.7	85.7	85.7	90.8	115.2	150.9	177.0	477.0	471.9	538.8	1378.9
87.5°	58.4	61.3	64.0	65.3	82.3	99.8	106.6	145.3	95.8	110.1	885.4
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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CATALOG NUMBER: GAA-AF-02-LED-U-SLR-7030

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2	3486.2
2.5°	4004.6	4036.8	4003.9	3980.2	3877.5	3793.0	3680.0	3622.1
5°	4304.5	4386.8	4359.0	4259.2	4044.7	3803.7	3529.8	3406.1
7.5°	4268.3	4459.4	4463.9	4277.4	3961.5	3606.4	3235.4	3059.6
10°	3985.8	4230.2	4300.1	4119.1	3783.9	3386.9	2961.4	2760.7
12.5°	3670.4	3909.8	3963.2	3900.7	3620.6	3221.7	2790.2	2593.2
15°	3412.3	3519.6	3583.0	3637.6	3480.5	3155.9	2780.4	2564.4
17.5°	3255.2	3243.3	3261.5	3356.2	3382.8	3231.3	2927.9	2689.7
20°	3198.5	3016.5	3011.9	3142.4	3336.9	3411.3	3216.0	2930.1
22.5°	3229.8	2934.8	2897.3	3052.2	3361.3	3670.4	3593.8	3267.7
25°	3337.4	2941.6	2911.4	3061.3	3449.7	3946.7	4001.6	3704.4
27.5°	3507.1	2984.7	2944.9	3098.8	3567.2	4178.7	4403.3	4127.7
30°	3668.2	3059.6	3010.2	3172.4	3674.4	4270.5	4649.5	4457.7
32.5°	3863.9	3199.7	3112.8	3307.9	3807.1	4416.8	4869.0	4731.1
35°	4055.6	3399.3	3291.6	3517.2	3955.1	4599.0	5119.7	5080.5
37.5°	4266.1	3660.3	3571.1	3787.9	4157.7	4770.7	5439.6	5490.1
40°	4490.7	4006.3	3900.7	4182.6	4472.0	4986.4	5773.7	5895.0
42.5°	4717.0	4390.2	4264.4	4550.1	4817.3	5199.0	6059.5	6239.4
45°	4976.1	4807.2	4747.6	5056.7	5149.2	5401.6	6270.5	6494.1
47.5°	5278.0	5280.2	5376.0	5499.7	5483.9	5630.7	6482.7	6721.4
50°	5630.2	5870.6	6082.3	6164.4	5828.7	5876.9	6777.1	7026.0
52.5°	6053.3	6576.8	6838.9	6785.0	6200.3	6177.4	7243.3	7445.7
55°	6582.5	7324.5	7584.8	7546.2	6627.3	6587.0	7824.2	7942.1
57.5°	7195.0	8048.8	8288.2	8114.5	7140.1	7036.4	8304.6	8329.5
60°	7733.3	8622.8	8832.7	8640.3	7657.4	7514.4	8604.6	8483.7
62.5°	8032.8	8817.4	8964.9	8757.8	8011.9	8023.7	8670.4	8400.5
65°	7899.0	8325.6	8373.1	8356.1	7920.5	8319.2	8433.9	8015.3
67.5°	7166.2	7082.2	7162.2	7272.8	7137.8	7930.1	7778.7	7176.3
70°	5875.2	5414.0	5573.5	5647.7	5709.0	6824.1	6751.5	5845.2
72.5°	4427.7	3793.0	3918.9	3903.6	4187.1	5473.6	5250.7	4297.8
75°	3137.2	2571.8	2587.6	2581.4	2921.7	4282.4	3802.1	2940.4
77.5°	2195.0	1863.3	1871.9	1906.9	1964.2	3229.8	2716.4	2148.0
80°	1509.4	1414.1	1461.1	1464.0	1361.4	2169.6	2006.8	1723.8
82.5°	1124.2	982.9	971.6	988.0	1066.9	1757.8	1542.2	1195.6
85°	920.6	581.9	467.9	586.6	945.5	1740.8	1024.4	630.7
87.5°	518.4	276.3	124.8	231.5	377.3	1152.5	296.0	80.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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