

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: P299359

Luminaire Tested: **GAA-AF-05-LED-U-SLR-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299359
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-05-LED-U-SLR-7027
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K 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: 22641.3 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 279
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

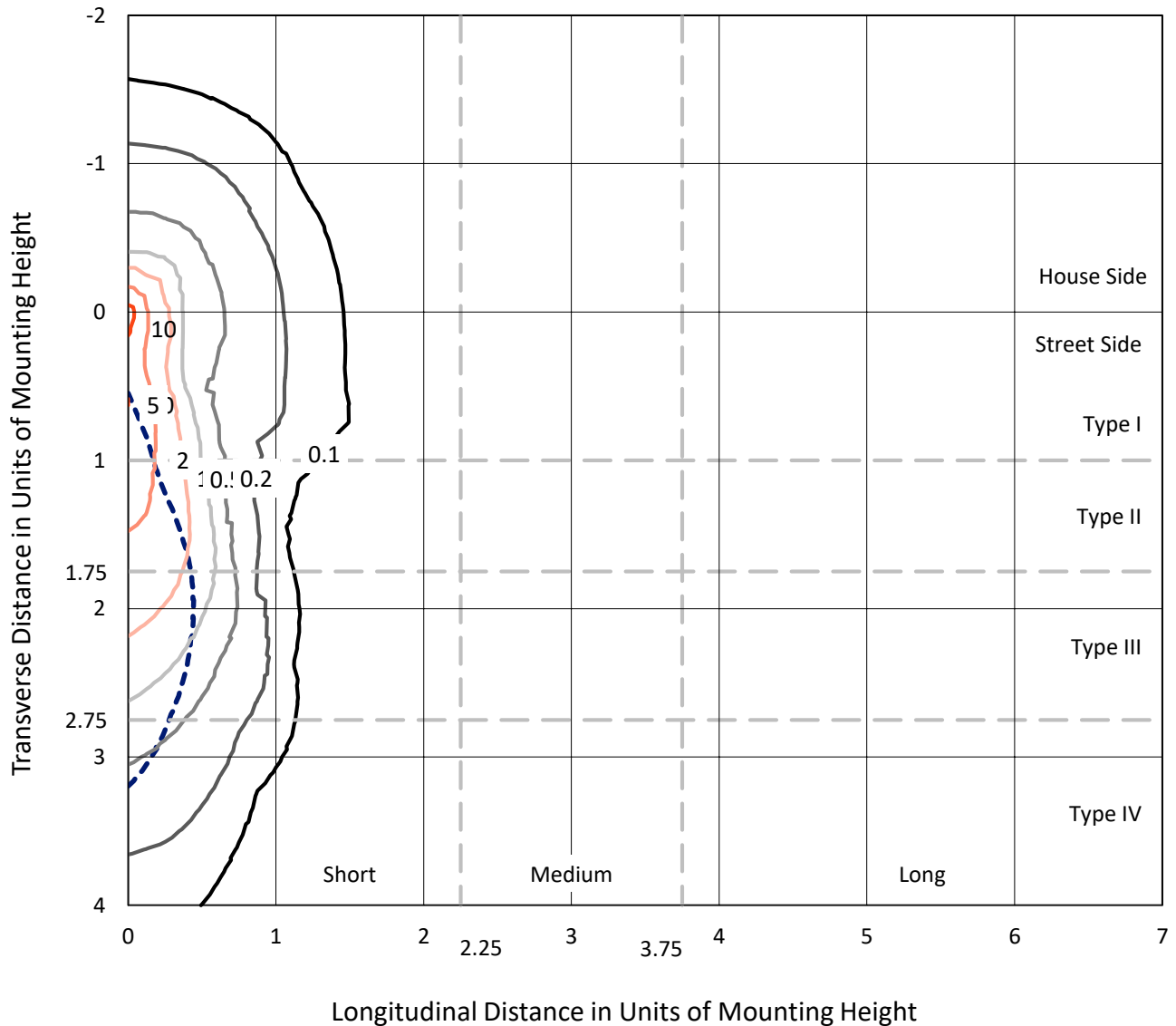


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

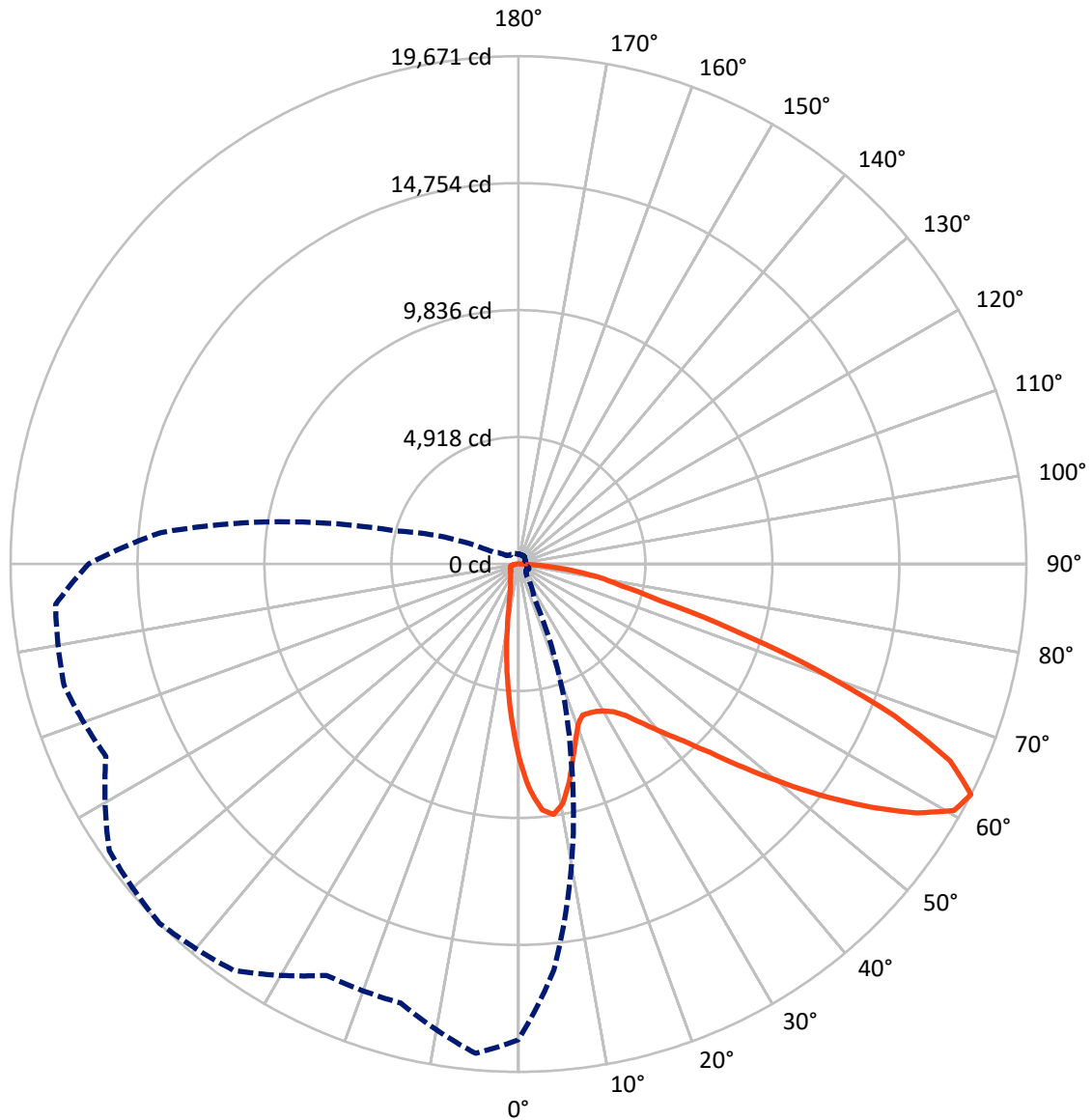


Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type IV - Short - Non-Cutoff

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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	3746.8	0.0	3746.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	18894.5	0.0	18894.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	22641.3	0.0	22641.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	556.8	2.5
10°-20°	1021.1	4.5
20°-30°	1488.8	6.6
30°-40°	2292.9	10.1
40°-50°	3374.6	14.9
50°-60°	4949.8	21.9
60°-70°	5533.1	24.4
70°-80°	2709.0	12.0
80°-90°	715.2	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°	22641.3	100.0
0°-180°	22641.3	100.0



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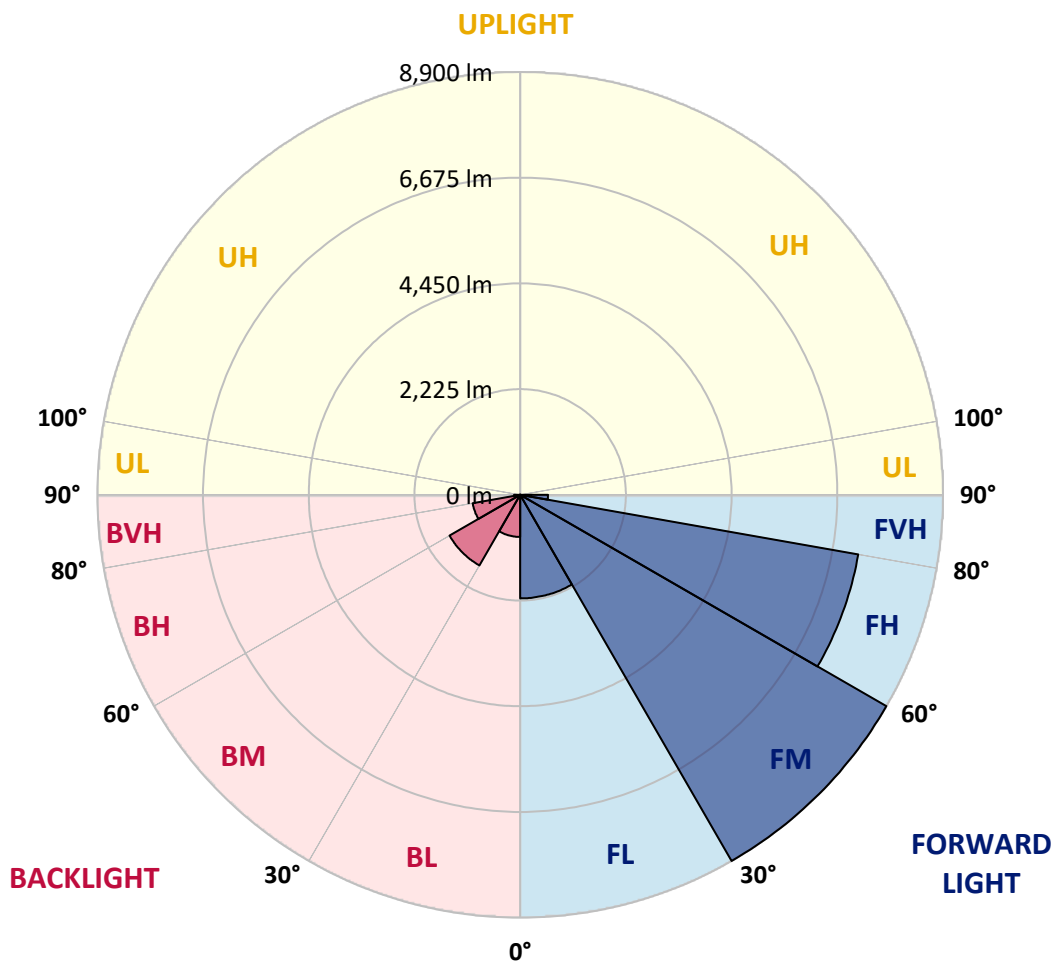
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2180.3	9.6			
FM	(30°-60°)	8900.5	39.3			
FH	(60°-80°)	7226.3	31.9			G3/7500
FVH	(80°-90°)	587.4	2.6			G4/750
BL	(0°-30°)	886.4	3.9	B2/1000		
BM	(30°-60°)	1716.8	7.6	B2/2500		
BH	(60°-80°)	1015.8	4.5	B3/2500		G3/2500
BVH	(80°-90°)	127.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7649.6	7649.6	7649.6	7649.6	7649.6	7649.6	7649.6	7649.6	7649.6	7649.6	7649.6
2.5°	7948.0	7786.4	7517.3	7237.4	7067.1	6867.7	6712.1	6575.4	6301.4	6247.9	6296.5
5°	7474.0	7149.2	6642.4	6132.3	5792.4	5427.7	5143.9	4916.4	4569.0	4507.9	4581.4
7.5°	6713.6	6325.2	5655.6	5004.5	4524.1	4068.6	3762.6	3518.5	3247.2	3130.4	3137.5
10°	6057.6	5619.4	4827.8	4119.8	3726.4	3419.0	3161.3	2911.1	2636.0	2455.5	2405.8
12.5°	5690.3	5186.5	4273.9	3641.7	3276.9	2953.7	2676.0	2408.4	2114.5	1930.3	1878.3
15°	5627.0	5079.1	4066.3	3335.7	2878.7	2469.5	2142.0	1843.3	1540.7	1391.5	1360.2
17.5°	5902.0	5270.9	3998.9	3062.9	2504.1	1998.9	1596.8	1263.4	1017.0	942.4	935.9
20°	6429.5	5639.4	3990.2	2806.7	2134.5	1542.2	1112.7	870.0	761.9	740.4	741.9
22.5°	7170.3	6210.6	4097.2	2613.8	1794.6	1150.0	836.5	728.0	685.8	665.8	665.8
25°	8128.5	6997.4	4343.6	2473.2	1499.6	918.6	738.1	673.3	633.4	619.8	622.5
27.5°	9057.3	7762.6	4630.0	2362.5	1306.7	833.8	699.3	640.9	606.3	592.3	598.7
30°	9781.5	8442.3	4868.9	2211.8	1208.4	810.1	713.3	653.4	603.6	582.5	583.6
32.5°	10381.3	9037.3	5069.3	2103.2	1121.3	694.4	614.9	588.5	582.5	557.6	545.2
35°	11148.1	9685.8	5203.8	2105.9	1080.3	619.8	547.5	501.5	468.0	439.3	439.3
37.5°	12046.7	10429.9	5347.0	2134.5	1065.6	576.1	524.1	477.8	446.9	419.4	414.5
40°	12935.2	11159.4	5477.8	2162.0	1056.5	550.1	505.3	463.1	434.4	406.9	399.4
42.5°	13691.0	11759.2	5594.6	2175.6	1026.8	547.5	491.7	452.9	425.8	395.6	388.5
45°	14249.8	12261.9	5720.4	2196.7	997.0	557.6	491.7	451.8	418.2	389.6	382.1
47.5°	14748.7	12851.9	5930.7	2196.7	960.8	538.8	507.9	452.9	417.1	387.0	380.9
50°	15417.1	13660.9	6328.9	2145.8	909.9	518.8	535.0	448.0	405.8	382.1	374.5
52.5°	16338.0	14697.8	6961.2	2057.3	831.6	480.4	531.3	445.7	394.5	369.6	361.0
55°	17427.3	15807.8	7650.7	1954.0	714.4	452.9	512.8	439.3	382.1	354.6	345.9
57.5°	18277.3	16572.0	8136.0	1794.6	612.3	438.2	454.4	433.3	367.0	338.4	331.2
60°	18615.7	16542.2	8269.4	1581.8	562.5	425.8	397.1	485.3	354.6	325.9	317.3
62.5°	18432.9	15778.1	7896.0	1432.6	551.2	409.6	372.3	449.1	344.8	317.3	304.8
65°	17587.8	14423.9	6906.6	1392.6	583.6	393.4	356.1	352.3	331.2	304.8	292.4
67.5°	15746.8	12400.1	5529.8	1396.4	624.7	377.2	339.9	322.5	312.4	291.3	280.0
70°	12825.9	9804.1	4122.1	1406.6	645.8	358.3	322.5	303.7	292.4	271.3	263.8
72.5°	9430.7	7556.1	2994.7	1341.7	649.6	337.2	298.8	282.6	271.3	249.1	242.7
75°	6452.1	5780.0	2077.2	1111.5	566.3	307.5	272.4	257.7	250.2	222.7	218.9
77.5°	4713.3	4338.7	1329.3	825.2	436.7	270.2	240.4	229.1	224.2	194.0	189.1
80°	3782.6	3432.6	831.6	565.2	319.9	226.5	201.6	195.6	190.3	160.5	156.7
82.5°	2623.6	2298.8	533.9	367.0	240.4	175.6	159.4	156.7	149.2	122.1	118.3
85°	1383.9	1248.3	338.4	250.2	174.1	120.6	110.8	110.8	107.0	81.0	78.4
87.5°	176.7	287.5	171.8	130.7	95.7	53.5	53.5	52.4	56.1	46.0	39.9
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°	7649.6	7649.6	7649.6	7649.6	7649.6	7649.6	7649.6	7649.6	7649.6	7649.6	7649.6
2.5°	6182.0	6241.9	6184.6	6188.4	6251.7	6440.8	6526.7	6597.6	6673.7	6723.4	6745.7
5°	4480.8	4620.2	4667.3	4766.8	4913.7	5155.2	5250.9	5320.6	5367.0	5394.1	5405.4
7.5°	3064.4	3148.8	3243.4	3403.9	3723.8	3865.9	3929.2	3913.0	3861.0	3842.1	3823.7
10°	2310.1	2276.6	2258.9	2347.4	2606.3	2749.4	2794.3	2750.6	2721.9	2728.3	2759.2
12.5°	1789.8	1731.3	1660.5	1650.3	1821.0	1949.1	1977.8	1980.0	2032.4	2078.4	2146.9
15°	1304.4	1298.0	1263.4	1242.3	1339.1	1443.9	1456.3	1478.5	1526.0	1559.5	1619.1
17.5°	919.7	953.3	980.8	994.3	1067.8	1142.4	1128.9	1117.6	1108.9	1108.9	1137.5
20°	741.9	764.1	799.2	838.7	913.7	965.7	932.2	887.3	854.9	845.1	848.9
22.5°	668.4	685.8	705.7	740.4	807.8	844.0	807.8	775.4	743.0	731.7	728.0
25°	631.1	653.4	672.2	698.2	747.9	772.8	738.1	714.4	694.4	680.9	670.7
27.5°	610.0	629.6	634.9	647.3	689.5	711.8	694.4	684.6	672.2	659.8	647.3
30°	587.4	583.6	575.0	576.1	610.0	632.3	631.1	633.4	632.3	628.5	626.2
32.5°	536.5	529.0	521.5	529.0	559.9	579.9	581.4	586.3	586.3	585.2	595.0
35°	446.9	460.4	469.1	491.7	529.0	546.3	538.8	526.4	504.1	490.2	489.1
37.5°	413.3	415.6	430.7	461.6	503.0	518.8	507.9	479.3	464.2	461.6	465.3
40°	397.1	399.4	408.1	436.7	477.8	494.0	484.2	463.1	449.1	448.0	454.4
42.5°	385.8	388.5	393.4	413.3	446.9	466.8	468.0	452.9	436.7	438.2	444.2
45°	379.4	380.9	379.4	389.6	420.5	444.2	454.4	444.2	430.7	433.3	440.5
47.5°	378.3	374.5	369.6	372.3	404.7	428.0	440.5	436.7	430.7	433.3	439.3
50°	373.4	364.7	358.3	357.2	389.6	414.5	425.8	425.8	428.0	433.3	439.3
52.5°	358.3	348.5	348.5	344.8	379.4	403.2	410.7	411.8	415.6	424.3	433.3
55°	339.9	336.1	339.9	333.5	372.3	394.5	398.3	400.9	403.2	410.7	423.1
57.5°	323.7	318.8	327.4	324.8	365.9	385.8	385.8	390.7	390.7	400.9	410.7
60°	315.0	304.8	308.6	311.2	357.2	378.3	376.0	380.9	383.2	392.2	399.4
62.5°	303.7	295.0	295.0	301.1	347.4	367.0	365.9	369.6	379.4	382.1	389.6
65°	290.1	286.4	282.6	290.1	337.2	354.6	356.1	361.0	369.6	372.3	378.3
67.5°	276.2	277.7	270.2	277.7	328.6	342.1	342.1	352.3	356.1	361.0	367.0
70°	261.5	262.6	256.2	265.3	322.5	328.6	327.4	341.0	343.6	347.4	353.4
72.5°	242.7	242.7	240.4	252.8	312.4	315.0	312.4	323.7	324.8	328.6	331.2
75°	222.7	222.7	220.4	237.8	306.3	299.9	292.4	301.1	303.7	306.3	306.3
77.5°	196.7	199.3	199.3	220.4	284.9	293.9	268.7	273.9	277.7	278.8	275.1
80°	164.3	170.7	172.9	200.5	238.9	271.3	240.4	243.8	245.3	245.3	240.4
82.5°	125.8	136.8	143.2	172.9	183.1	227.6	209.1	212.9	209.1	201.6	199.3
85°	87.0	102.1	109.6	131.9	138.3	175.6	174.1	174.1	166.9	156.7	155.6
87.5°	47.5	56.1	61.0	78.4	94.6	118.3	128.1	124.3	118.3	111.9	113.4
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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CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	7649.6	7649.6	7649.6	7649.6	7649.6	7649.6	7649.6	7649.6	7649.6	7649.6	7649.6
2.5°	6862.8	7032.0	7302.2	7508.7	7716.7	7917.1	8133.8	8299.2	8439.7	8494.7	8661.3
5°	5518.8	5730.2	5985.3	6445.7	6772.0	7131.5	7547.5	8097.6	8309.0	8601.7	9080.6
7.5°	3902.0	4093.4	4504.1	4876.4	5338.4	5847.4	6408.4	7167.7	7445.4	7914.5	8694.8
10°	2913.7	3136.4	3466.1	3780.0	4186.9	4707.2	5351.9	6200.8	6538.1	7047.1	7945.7
12.5°	2347.4	2610.0	2959.7	3254.7	3569.7	3936.7	4562.9	5493.6	5945.7	6391.1	7299.5
15°	1803.3	2078.4	2403.5	2778.1	3125.1	3521.1	4177.1	5195.2	5715.1	6179.7	6954.8
17.5°	1248.3	1483.4	1893.0	2283.7	2728.3	3234.7	4070.1	5258.5	5879.4	6414.8	7014.7
20°	885.1	1019.2	1355.3	1808.6	2362.5	2998.1	4050.1	5591.9	6399.8	7010.9	7397.9
22.5°	744.2	793.9	989.4	1405.0	2044.8	2821.4	4119.8	6059.9	7101.7	7882.1	8009.0
25°	678.2	708.4	810.1	1102.9	1762.2	2693.3	4354.9	6757.0	7970.6	8753.6	8731.0
27.5°	642.0	673.3	740.4	931.0	1549.7	2613.8	4590.1	7583.6	8963.8	9699.3	9420.5
30°	631.1	673.3	744.2	877.5	1397.9	2487.9	4783.0	8309.0	9728.0	10338.0	9734.4
32.5°	622.5	628.5	660.9	756.6	1253.2	2341.0	4913.7	8960.1	10475.9	10945.4	10186.1
35°	503.0	533.9	586.3	678.2	1168.8	2252.8	4913.7	9521.5	11212.9	11558.8	10616.8
37.5°	484.2	511.7	557.6	636.0	1121.3	2209.1	4815.4	10062.9	11965.7	12254.7	10971.4
40°	474.4	496.6	540.3	603.6	1101.4	2159.4	4672.2	10540.7	12701.2	12951.4	11302.6
42.5°	466.8	486.8	527.9	583.6	1075.4	2104.7	4556.5	10923.9	13339.9	13546.3	11618.7
45°	463.1	484.2	529.0	593.8	1023.0	2032.4	4518.1	11338.4	13865.1	14042.9	11960.8
47.5°	463.1	487.9	535.0	614.9	960.8	1957.8	4638.7	11885.1	14361.7	14448.7	12364.0
50°	459.3	486.8	552.8	593.8	870.0	1863.2	4922.4	12573.1	14899.4	14909.2	12874.5
52.5°	451.8	484.2	595.0	581.4	765.3	1738.9	5306.0	13457.0	15694.8	15754.3	13673.3
55°	443.1	480.4	583.6	552.8	679.7	1590.8	5619.4	14530.9	16812.4	16977.8	14848.5
57.5°	431.8	475.5	565.2	512.8	623.6	1400.2	5732.9	15317.6	17592.7	18008.3	16172.6
60°	422.0	471.7	510.2	489.1	588.5	1239.6	5513.6	15162.0	17539.2	18435.2	17346.3
62.5°	411.8	475.5	465.3	474.4	572.3	1136.4	4941.2	13916.0	16651.8	17994.7	18216.3
65°	400.9	442.0	439.3	461.6	569.0	1095.3	4096.1	12047.8	14936.7	16602.1	18421.6
67.5°	385.8	408.1	420.5	445.7	581.4	1059.2	3305.6	9938.2	12553.1	14514.7	17351.2
70°	369.6	388.5	402.0	425.8	573.9	1043.0	2749.4	7837.2	9960.8	11896.0	15239.3
72.5°	348.5	364.7	377.2	399.4	566.3	1034.3	2322.5	6311.6	7436.7	8836.8	12390.3
75°	323.7	338.4	347.4	369.6	542.6	947.2	1825.9	5340.6	5564.8	6147.3	9868.5
77.5°	295.0	306.3	313.5	338.4	480.4	787.9	1320.6	4119.8	4321.4	4463.1	7565.9
80°	261.5	272.4	276.2	299.9	398.3	616.1	861.3	3043.0	3232.1	3264.5	4941.2
82.5°	222.7	234.0	234.0	256.2	325.9	443.1	565.2	2084.8	2122.1	2231.7	3492.5
85°	179.4	188.0	188.0	199.3	252.8	331.2	388.5	1046.7	1035.4	1182.4	3025.6
87.5°	128.1	134.5	140.5	143.2	180.5	218.9	234.0	318.8	210.2	241.5	1942.7
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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CATALOG NUMBER: GAA-AF-05-LED-U-SLR-7027

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	7649.6	7649.6	7649.6	7649.6	7649.6	7649.6	7649.6	7649.6
2.5°	8787.1	8857.9	8785.6	8733.6	8508.3	8322.9	8075.0	7948.0
5°	9445.4	9625.8	9564.8	9345.9	8875.3	8346.3	7745.3	7474.0
7.5°	9365.9	9785.2	9795.0	9385.8	8692.5	7913.3	7099.5	6713.6
10°	8746.0	9282.2	9435.6	9038.4	8302.9	7431.8	6498.1	6057.6
12.5°	8053.9	8579.1	8696.3	8559.2	7944.6	7069.3	6122.5	5690.3
15°	7487.6	7723.1	7862.1	7981.9	7637.1	6925.0	6101.0	5627.0
17.5°	7142.8	7116.8	7156.7	7364.4	7422.8	7090.4	6424.6	5902.0
20°	7018.5	6619.1	6608.9	6895.2	7322.2	7485.3	7056.9	6429.5
22.5°	7087.0	6439.7	6357.6	6697.4	7375.7	8053.9	7885.8	7170.3
25°	7323.3	6454.8	6388.5	6717.4	7569.7	8660.1	8780.7	8128.5
27.5°	7695.6	6549.4	6461.9	6799.5	7827.4	9169.2	9662.0	9057.3
30°	8049.0	6713.6	6605.1	6961.2	8062.5	9370.8	10202.3	9781.5
32.5°	8478.5	7021.1	6830.4	7258.5	8353.8	9691.8	10683.9	10381.3
35°	8899.0	7458.9	7222.7	7717.8	8678.6	10091.6	11234.0	11148.1
37.5°	9361.0	8031.6	7836.1	8311.6	9123.2	10468.3	11935.9	12046.7
40°	9853.8	8790.9	8559.2	9177.8	9812.7	10941.6	12669.2	12935.2
42.5°	10350.4	9633.4	9357.2	9984.2	10570.5	11408.1	13296.2	13691.0
45°	10919.0	10548.2	10417.5	11095.7	11298.8	11852.7	13759.2	14249.8
47.5°	11581.4	11586.3	11796.5	12067.8	12033.2	12355.3	14224.9	14748.7
50°	12354.2	12881.7	13346.3	13526.4	12789.7	12895.6	14870.8	15417.1
52.5°	13282.6	14431.4	15006.4	14888.1	13605.1	13555.0	15893.7	16338.0
55°	14443.9	16072.0	16643.2	16558.4	14542.2	14453.6	17168.4	17427.3
57.5°	15787.9	17661.3	18186.5	17805.6	15667.3	15439.7	18222.7	18277.3
60°	16969.1	18920.9	19381.3	18959.3	16802.6	16488.7	18880.9	18615.7
62.5°	17626.2	19347.8	19671.4	19217.0	17580.2	17606.2	19025.2	18432.9
65°	17332.7	18268.6	18373.0	18335.7	17379.8	18254.7	18506.4	17587.8
67.5°	15724.6	15540.3	15715.9	15958.5	15662.4	17400.9	17068.6	15746.8
70°	12891.9	11879.8	12229.8	12392.6	12527.1	14974.0	14814.6	12825.9
72.5°	9715.5	8322.9	8599.1	8565.6	9187.6	12010.5	11521.5	9430.7
75°	6883.9	5643.2	5677.8	5664.3	6411.1	9396.8	8342.9	6452.1
77.5°	4816.5	4088.5	4107.4	4184.2	4310.1	7087.0	5960.4	4713.3
80°	3312.0	3102.9	3206.1	3212.5	2987.2	4760.7	4403.5	3782.6
82.5°	2466.8	2156.7	2131.9	2168.0	2341.0	3857.2	3383.9	2623.6
85°	2020.0	1276.9	1026.8	1287.1	2074.6	3819.9	2247.9	1383.9
87.5°	1137.5	606.3	273.9	507.9	827.8	2529.0	649.6	176.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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