

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: HALO

Report Number: P670542 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: ARFL15DBZ-15W-3500K

Issue Date: 3/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P670542 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (2022-08-03)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ARFL15DBZ-15W-3500K
Description: SLIM WALL OR FLOODLIGHT
Light Source: 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

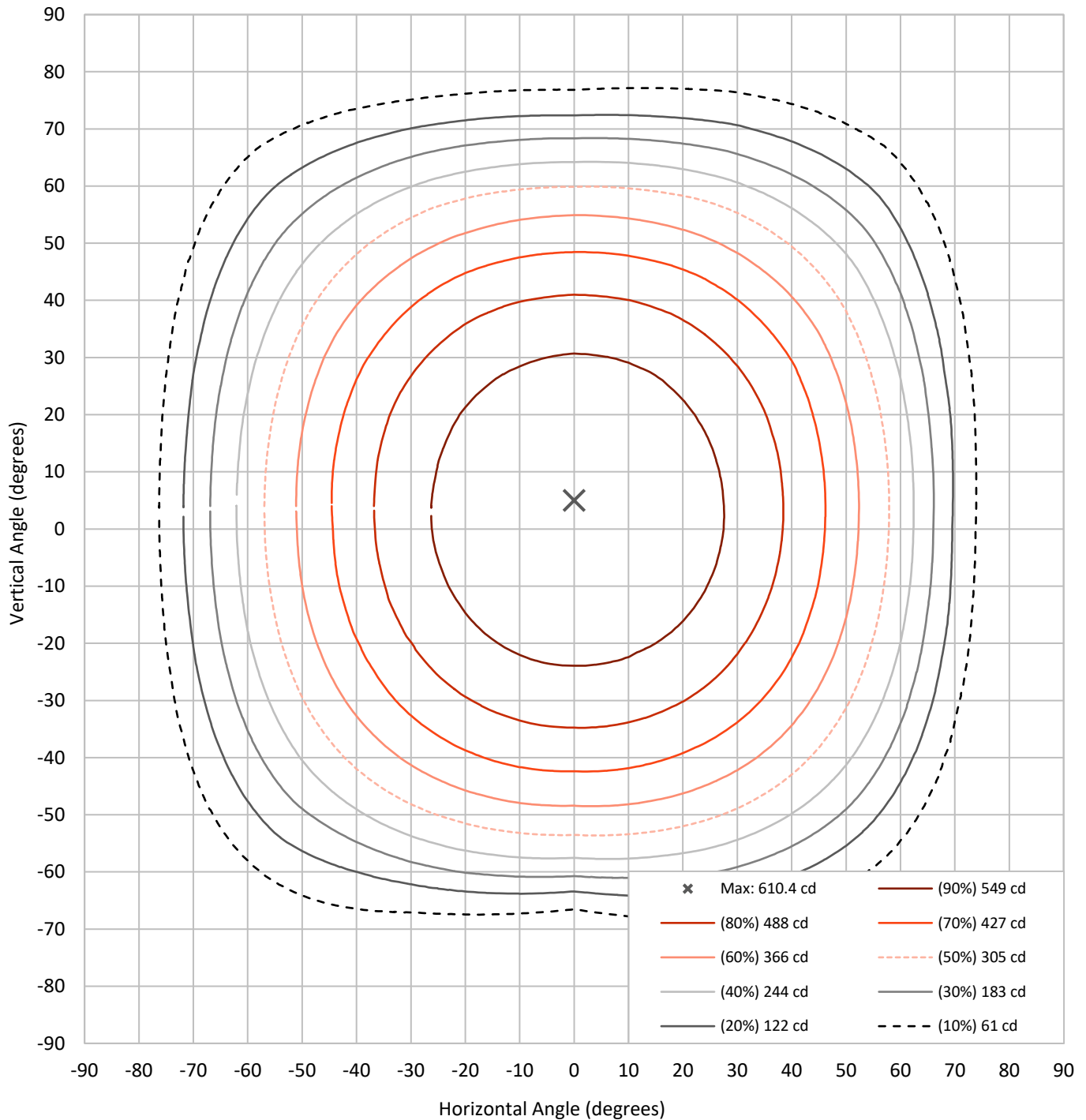
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	1694.6 lumens	Max Intensity:	610.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 5°V
Efficacy:	125.5 lumens/watt		
Luminous Opening:	Rectangular w/ Sides (W: 0.25' x L: 0.43' x H: 0.12')		
Beam Angle (50%):	114.9°H x 113.4°V	Field Angle (10%):	150.2°H x 143.3°V
Beam Lumens:	1357.7 lumens	Field Lumens:	1669.3 lumens
Beam Efficiency:	80.1%	Field Efficiency:	98.5%
Input Watts (W):	13.5		
Input Voltage (V):	120		
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:	25 FT		



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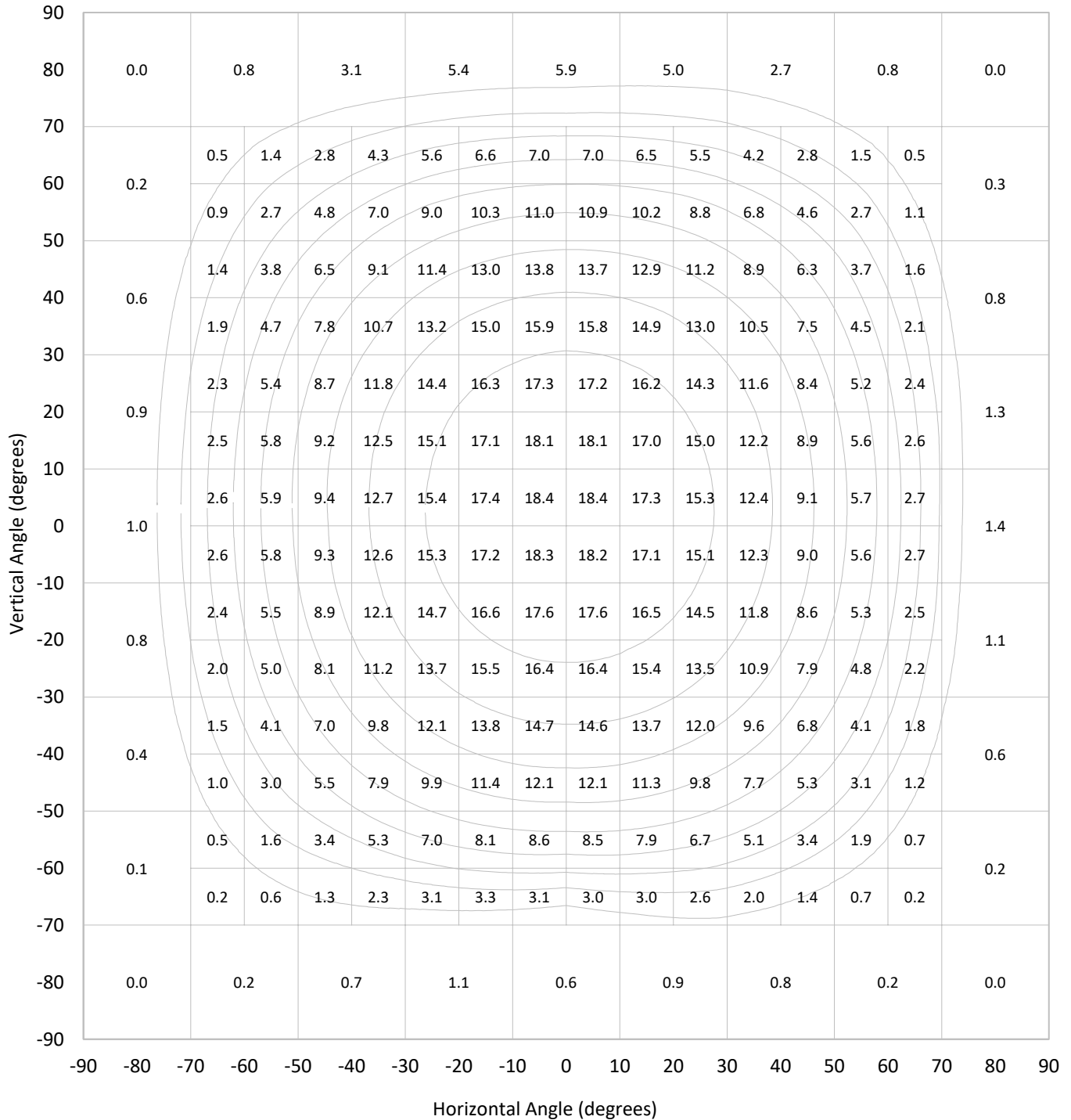
Iso-Candela Plot





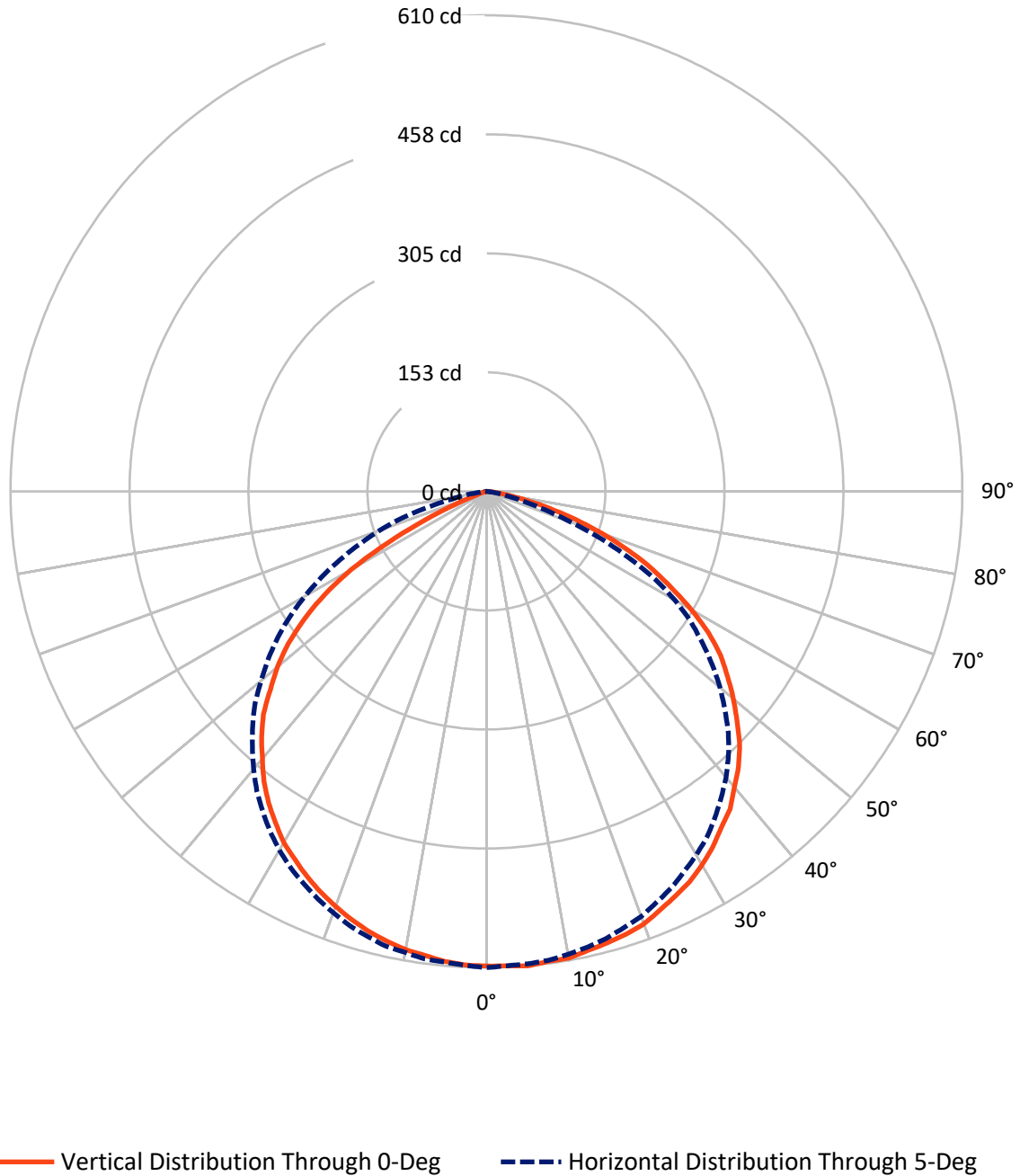
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Lumen Table



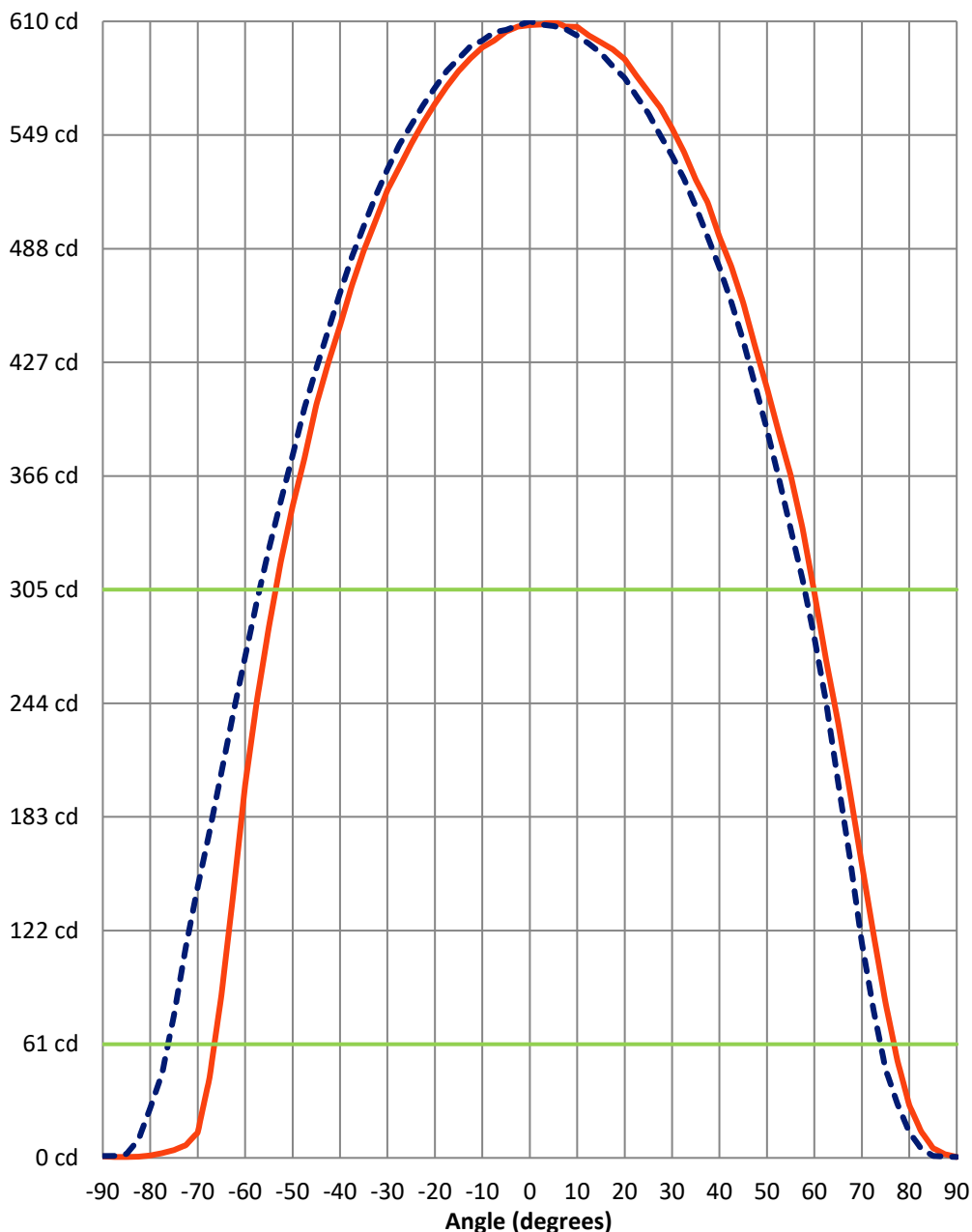
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 114.9°
 V Angle: 113.4°
 Lumens: 1357.7
 Efficiency: 80.1%

Field:
 H Angle: 150.2°
 V Angle: 143.3°
 Lumens: 1669.3
 Efficiency: 98.5%

Spill:
 Lumens: 25.4
 Efficiency: 1.5%

— Vertical Distribution through 0-Deg
 - - Horizontal Distribution through 5-Deg

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FIELD
BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.8
87.5°	1.0	1.0	1.0	1.1	1.1	1.2	1.2	1.3	1.4	1.4	1.5
85°	1.0	1.0	1.1	1.1	1.2	1.3	1.4	1.5	1.6	1.8	2.0
82.5°	1.0	1.0	1.1	1.1	1.2	1.4	1.5	1.8	2.0	2.4	2.8
80°	1.0	1.0	1.1	1.2	1.3	1.5	1.8	2.1	2.8	3.5	4.7
77.5°	1.0	1.0	1.1	1.2	1.4	1.7	2.2	2.9	4.1	5.9	7.8
75°	1.0	1.0	1.1	1.3	1.5	2.0	2.7	4.3	6.2	8.3	11.3
72.5°	1.0	1.0	1.1	1.3	1.7	2.4	3.9	5.9	8.2	12.2	17.0
70°	1.0	1.0	1.1	1.4	1.9	3.1	5.1	7.5	11.9	17.5	23.4
67.5°	1.0	1.0	1.2	1.5	2.2	4.0	6.4	10.5	16.5	23.0	29.7
65°	1.0	1.0	1.2	1.6	2.6	4.9	8.2	14.1	21.3	28.6	37.6
62.5°	1.0	1.1	1.2	1.7	3.3	5.8	10.7	18.5	25.8	35.5	46.9
60°	1.0	1.1	1.3	1.9	3.8	7.1	14.0	22.0	31.7	43.2	57.1
57.5°	1.0	1.1	1.3	2.0	4.4	9.0	17.5	26.2	38.0	51.6	68.3
55°	1.0	1.1	1.3	2.4	5.0	11.0	20.2	31.4	44.6	60.6	80.4
52.5°	1.0	1.1	1.4	2.7	5.7	13.7	23.1	36.5	51.2	70.4	91.1
50°	1.0	1.1	1.4	3.0	7.0	16.3	27.3	41.4	58.4	80.3	102.0
47.5°	1.0	1.1	1.5	3.3	8.1	18.3	31.4	46.5	66.2	89.5	112.9
45°	1.0	1.1	1.5	3.6	9.4	20.2	35.1	51.7	74.3	98.4	123.3
42.5°	1.0	1.1	1.6	3.9	11.2	22.6	38.6	56.9	81.9	107.5	132.7
40°	1.0	1.1	1.6	4.2	12.9	25.7	42.1	62.7	89.2	116.6	140.9
37.5°	1.0	1.1	1.6	4.5	14.5	28.6	45.4	68.6	95.9	124.5	149.6
35°	1.0	1.1	1.7	5.0	15.8	31.1	48.7	74.3	102.8	131.6	157.6
32.5°	1.0	1.1	1.8	5.5	16.8	33.3	52.0	79.7	109.8	137.7	164.7
30°	1.0	1.1	1.9	6.0	17.8	35.3	54.8	84.7	116.0	143.9	170.9
27.5°	1.0	1.1	2.0	6.5	18.6	37.1	58.4	89.0	121.5	149.9	176.5
25°	1.0	1.1	2.1	6.9	19.7	38.8	61.7	92.9	126.3	155.0	182.6
22.5°	1.0	1.1	2.1	7.3	21.1	40.3	64.7	96.7	130.1	159.5	188.1
20°	1.0	1.1	2.2	7.7	22.4	41.6	67.4	100.7	133.5	163.3	192.8
17.5°	1.0	1.1	2.2	8.3	23.6	42.6	69.9	104.2	136.4	166.4	196.8
15°	1.0	1.1	2.2	8.7	24.6	43.6	72.1	107.3	139.3	169.0	200.2
12.5°	1.0	1.1	2.2	9.1	25.4	44.4	73.8	109.7	141.6	171.0	202.8
10°	1.0	1.1	2.2	9.4	26.1	44.9	75.2	111.4	143.5	172.9	204.8
7.5°	1.0	1.1	2.2	9.6	26.5	45.3	76.1	112.5	144.8	174.4	206.2
5°	1.0	1.1	2.2	9.7	26.8	45.4	76.7	113.3	145.5	175.2	207.0
2.5°	1.0	1.1	2.1	9.7	27.0	45.3	76.8	113.5	145.8	175.5	207.2
0°	1.0	1.1	2.1	9.7	26.9	45.0	76.5	113.3	145.5	175.2	206.7
-2.5°	1.0	1.1	2.1	9.5	26.6	44.6	75.8	112.3	144.5	174.1	205.6
-5°	1.0	1.1	2.1	9.4	26.1	44.0	74.6	110.9	142.9	172.5	203.9
-7.5°	1.0	1.0	2.1	9.1	25.5	43.2	73.0	109.0	140.9	170.2	201.6
-10°	1.0	1.0	2.0	8.7	24.6	42.2	71.0	106.7	138.3	167.4	198.7
-12.5°	1.0	1.0	2.0	8.3	23.7	41.0	68.6	103.8	135.1	164.1	195.2
-15°	1.0	1.0	2.0	7.8	22.5	39.7	65.8	100.2	131.5	160.6	191.0
-17.5°	1.0	1.0	1.9	7.2	21.2	38.2	62.7	95.9	127.4	156.7	186.2
-20°	1.0	1.0	1.9	6.5	19.8	36.7	59.1	91.2	123.2	152.2	180.7

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CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	1.0	1.0	1.8	6.0	18.2	35.1	55.6	85.9	118.6	146.9	174.6
-25°	1.0	1.0	1.7	5.6	16.5	33.4	52.0	80.9	113.7	140.9	167.7
-27.5°	1.0	1.0	1.7	5.1	15.3	31.5	48.2	76.1	107.4	134.3	160.1
-30°	1.0	1.0	1.6	4.6	14.3	29.5	44.3	70.8	100.6	127.0	152.9
-32.5°	1.0	1.0	1.5	4.1	13.2	27.3	41.2	64.7	92.9	119.5	145.1
-35°	1.0	1.0	1.4	3.6	12.1	24.9	38.0	58.1	84.4	112.2	136.3
-37.5°	1.0	1.0	1.3	3.1	10.8	22.4	34.9	51.8	76.3	103.7	126.7
-40°	1.0	1.0	1.3	2.9	9.3	19.3	31.9	46.0	68.8	94.0	116.6
-42.5°	1.0	1.0	1.3	2.7	7.7	16.2	28.9	40.6	60.4	83.2	107.4
-45°	1.0	1.0	1.2	2.4	6.1	13.8	25.6	36.2	51.5	72.9	96.1
-47.5°	1.0	1.0	1.2	2.2	5.1	12.1	22.1	32.0	44.2	63.2	83.6
-50°	1.0	1.0	1.2	2.0	4.2	10.3	18.2	28.1	37.8	52.5	71.1
-52.5°	1.0	1.0	1.1	1.8	3.3	8.2	14.2	24.0	32.2	43.4	59.6
-55°	1.0	1.0	1.1	1.6	2.8	6.1	11.8	19.6	27.7	35.8	47.3
-57.5°	1.0	1.0	1.1	1.4	2.5	4.7	9.5	14.9	22.8	29.6	37.9
-60°	1.0	1.0	1.1	1.3	2.1	3.5	7.0	11.4	17.7	24.4	30.4
-62.5°	1.0	1.0	1.0	1.3	1.8	2.8	4.9	8.7	12.5	18.6	24.3
-65°	1.0	1.0	1.0	1.2	1.6	2.3	3.6	6.0	9.3	13.0	18.0
-67.5°	1.0	1.0	1.0	1.1	1.4	1.9	2.7	4.1	6.4	8.9	12.0
-70°	1.0	1.0	1.0	1.1	1.3	1.6	2.2	2.8	4.1	5.9	7.8
-72.5°	1.0	1.0	1.0	1.1	1.2	1.4	1.8	2.3	2.8	3.7	4.9
-75°	1.0	1.0	1.0	1.0	1.1	1.2	1.4	1.8	2.2	2.6	3.1
-77.5°	1.0	1.0	1.0	1.0	1.1	1.1	1.3	1.4	1.7	2.0	2.3
-80°	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.2	1.4	1.5	1.7
-82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.2	1.2	1.3
-85°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1
-87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
-90°	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1



REPORT NUMBER: P670542 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL15DBZ-15W-3500K

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	0.8	0.8	0.9	0.9	1.0	1.0	1.1	1.1	1.2	1.2	1.3
87.5°	1.6	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9
85°	2.2	2.5	2.6	2.7	2.9	3.1	3.3	3.5	3.7	3.9	4.0
82.5°	3.5	4.1	4.6	5.5	6.3	7.1	7.8	8.5	9.2	9.9	10.5
80°	6.3	8.1	9.2	10.3	11.6	13.4	15.1	16.7	18.5	20.1	21.6
77.5°	9.8	12.5	15.2	17.8	20.5	23.1	25.5	27.8	30.0	32.1	34.0
75°	15.3	19.8	23.7	27.0	30.2	33.4	36.6	40.7	44.5	48.4	51.7
72.5°	22.4	27.6	32.3	36.4	42.0	47.6	53.3	58.9	64.2	69.6	74.9
70°	29.2	35.7	43.2	50.6	58.2	66.1	73.8	81.4	88.5	95.6	102.5
67.5°	37.6	47.1	57.9	67.9	77.9	87.2	95.7	104.8	113.8	122.9	131.3
65°	48.3	60.9	75.3	87.2	96.9	107.7	118.2	128.6	138.7	148.4	158.3
62.5°	60.4	76.1	91.9	104.1	116.3	128.0	139.5	150.8	162.7	173.5	183.7
60°	73.8	90.8	107.0	121.5	134.4	146.9	160.3	172.9	184.9	197.0	208.8
57.5°	87.0	104.6	122.0	137.7	151.4	166.3	180.0	193.6	207.4	220.8	234.1
55°	99.3	118.4	136.3	152.9	169.0	184.1	199.3	214.8	229.5	244.9	260.1
52.5°	111.8	131.6	149.5	168.3	185.2	201.9	218.8	235.3	252.1	269.5	285.0
50°	123.9	143.5	163.6	182.5	201.4	219.7	237.6	255.6	274.4	290.7	305.8
47.5°	135.1	155.9	176.3	196.5	217.3	236.7	255.9	275.7	293.5	309.6	324.6
45°	145.1	167.5	188.5	210.8	232.0	252.8	273.9	293.3	310.7	327.0	343.6
42.5°	155.8	178.0	201.0	223.5	246.2	269.2	290.0	308.8	326.7	344.6	360.9
40°	165.3	188.5	212.8	236.8	260.6	283.1	303.8	323.7	343.0	360.8	377.6
37.5°	174.0	199.0	223.7	248.3	273.0	295.8	317.7	338.6	357.8	376.2	392.5
35°	182.2	208.7	234.7	260.7	285.0	308.1	330.2	351.8	371.9	389.6	405.8
32.5°	190.7	217.3	243.9	270.5	295.1	318.8	341.9	364.0	384.3	401.2	418.1
30°	198.5	226.2	253.8	280.1	305.4	329.3	352.6	374.9	394.0	412.7	429.9
27.5°	205.5	234.0	262.1	288.5	314.0	338.6	362.1	383.8	404.0	422.6	440.7
25°	211.7	240.5	269.2	296.2	321.9	347.0	370.5	391.3	412.0	431.7	449.0
22.5°	217.6	247.2	275.8	303.4	329.1	354.2	377.4	399.4	420.0	439.3	457.0
20°	223.2	253.2	281.4	309.1	335.4	360.3	383.2	405.7	426.7	445.3	463.3
17.5°	227.8	257.7	286.4	314.1	340.7	365.6	388.3	411.3	432.0	451.2	469.8
15°	231.2	261.5	290.6	318.2	345.1	369.6	393.6	416.4	436.2	455.0	474.5
12.5°	233.9	264.5	294.1	321.5	348.2	372.8	397.4	419.9	439.6	458.8	478.1
10°	236.0	266.8	296.7	324.1	350.4	375.1	399.9	422.3	442.4	462.6	480.9
7.5°	237.8	268.4	298.3	326.0	351.9	376.5	401.6	423.6	444.2	464.1	482.8
5°	238.8	269.2	299.2	326.9	352.5	377.2	402.6	424.0	444.3	464.5	483.8
2.5°	239.0	269.2	299.3	327.0	352.3	377.0	402.7	423.5	443.6	464.0	483.8
0°	238.5	268.5	298.6	326.2	351.2	375.9	401.8	422.2	442.1	462.5	482.7
-2.5°	237.3	267.4	297.3	325.0	350.1	374.8	400.4	421.1	441.2	461.4	481.3
-5°	235.4	265.6	295.3	323.0	348.1	372.8	398.0	419.2	439.6	459.4	478.9
-7.5°	232.7	263.0	292.5	320.0	345.3	369.9	394.6	416.3	437.0	456.5	475.4
-10°	229.3	259.7	288.8	316.1	341.7	366.1	390.5	412.5	432.6	452.7	470.6
-12.5°	225.5	255.5	284.4	311.4	337.2	361.4	385.6	407.7	426.9	446.5	464.8
-15°	221.1	250.6	279.2	306.1	331.9	355.9	379.4	402.0	421.1	440.1	458.3
-17.5°	216.1	244.9	273.2	300.1	325.8	349.4	372.2	394.4	414.3	433.7	451.7
-20°	209.9	238.5	266.3	292.9	318.9	341.9	364.5	386.1	406.3	424.2	442.7



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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	202.8	230.9	258.7	284.7	310.0	333.5	355.9	377.2	397.6	415.7	433.7
-25°	195.4	222.6	250.1	276.0	300.7	324.4	346.3	367.2	386.5	404.9	421.5
-27.5°	187.6	214.4	240.8	266.5	290.6	314.6	335.6	356.4	375.5	393.9	410.9
-30°	179.1	205.1	230.6	256.0	279.3	302.5	323.9	344.5	363.6	380.8	398.3
-32.5°	169.9	194.8	219.3	244.2	267.8	289.9	312.1	331.2	350.3	367.9	384.0
-35°	159.8	184.4	208.3	232.0	255.4	276.2	297.5	317.7	335.8	353.2	369.4
-37.5°	149.9	173.2	196.0	218.3	241.0	262.6	282.2	302.2	319.8	336.9	353.1
-40°	139.5	161.2	183.4	204.9	226.2	247.5	266.5	285.1	303.6	319.3	335.0
-42.5°	128.0	148.9	170.1	190.5	210.4	230.7	250.2	267.0	284.8	301.7	316.2
-45°	115.7	136.4	155.9	175.8	194.7	212.6	230.8	248.8	264.5	281.1	296.5
-47.5°	104.7	122.7	141.7	160.1	178.3	194.1	210.3	227.4	243.8	258.5	273.8
-50°	91.3	108.8	126.6	144.0	160.5	174.7	189.1	204.3	220.5	235.2	249.0
-52.5°	76.9	95.5	110.5	127.3	141.5	154.0	167.1	180.4	194.5	209.5	222.9
-55°	63.3	79.6	96.3	109.5	122.0	133.3	144.2	155.9	167.7	180.3	193.4
-57.5°	49.8	64.1	78.8	93.2	102.1	112.4	121.9	131.1	140.6	151.0	161.4
-60°	38.3	49.2	61.8	73.9	84.6	92.1	99.8	107.4	114.8	122.0	129.7
-62.5°	29.6	36.6	45.6	55.9	65.0	73.4	80.3	84.7	90.3	95.6	100.8
-65°	22.9	27.2	32.8	39.0	47.3	54.2	60.4	65.8	69.8	71.9	75.0
-67.5°	16.0	20.3	23.6	27.7	32.1	37.1	42.5	46.8	50.3	53.1	55.0
-70°	9.9	12.8	16.2	19.3	21.7	24.7	27.6	30.2	33.6	35.9	37.2
-72.5°	6.0	7.5	9.4	11.4	14.0	16.1	17.7	19.2	20.6	22.0	23.0
-75°	3.7	4.3	5.0	6.3	7.4	8.7	9.7	11.0	12.0	12.7	13.1
-77.5°	2.5	2.8	3.1	3.5	4.0	4.3	5.0	5.4	5.8	6.0	6.0
-80°	1.9	2.1	2.2	2.4	2.5	2.7	2.8	3.0	3.1	3.2	3.2
-82.5°	1.5	1.6	1.7	1.8	1.9	1.9	2.0	2.0	2.1	2.1	2.1
-85°	1.2	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.6	1.6	1.6
-87.5°	1.0	1.0	1.1	1.1	1.2	1.2	1.3	1.3	1.4	1.4	1.5
-90°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0



REPORT NUMBER: P670542 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL15DBZ-15W-3500K

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	1.3	1.4	1.4	1.3	1.3	1.2	1.1	1.0	1.0	0.9	0.8
87.5°	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0
85°	4.3	4.6	4.8	5.0	5.2	5.3	5.5	5.5	5.6	5.6	5.6
82.5°	11.4	12.2	13.0	13.5	13.9	14.3	14.5	14.8	15.0	15.1	15.1
80°	23.0	24.3	25.5	26.4	27.1	27.7	28.2	28.7	29.0	29.2	29.3
77.5°	36.3	38.5	40.5	42.3	44.0	45.5	47.0	48.3	49.4	50.5	51.3
75°	54.9	57.9	60.3	63.7	67.2	70.2	73.1	76.0	78.4	80.3	81.8
72.5°	80.0	85.3	90.3	94.9	99.3	103.6	107.7	111.2	114.2	116.4	118.1
70°	109.5	116.8	123.5	129.4	134.7	139.5	143.9	147.7	150.9	153.5	155.5
67.5°	139.4	147.2	154.9	162.1	167.9	173.2	177.9	182.0	185.7	188.8	191.6
65°	167.7	176.3	184.2	191.7	198.7	205.3	210.9	216.0	220.5	224.5	227.9
62.5°	193.7	203.7	212.9	221.7	230.0	237.5	244.1	250.0	255.1	259.3	262.7
60°	220.2	231.4	242.6	253.6	263.5	271.9	279.1	284.9	290.0	294.1	297.5
57.5°	247.5	260.8	274.1	285.9	295.6	302.5	309.3	315.6	321.0	325.5	329.6
55°	275.7	289.0	300.5	311.5	321.2	328.3	335.2	341.9	348.3	353.8	357.7
52.5°	298.9	311.9	323.2	333.3	343.7	352.6	359.5	366.4	372.4	377.3	381.4
50°	319.6	331.9	344.9	355.3	365.7	375.0	382.6	389.4	395.6	400.9	405.2
47.5°	339.2	352.4	365.1	376.7	387.0	396.7	404.8	411.8	417.9	423.2	427.7
45°	357.9	372.0	384.7	396.6	407.2	417.3	426.0	433.1	439.1	444.4	449.1
42.5°	376.2	390.1	402.7	415.0	426.6	436.4	444.9	452.1	458.7	464.5	469.3
40°	392.7	406.3	420.0	432.2	443.3	453.3	462.6	470.8	477.3	482.5	486.6
37.5°	407.5	422.0	435.4	447.7	458.9	470.1	479.3	486.7	492.4	498.5	503.4
35°	421.4	436.1	449.7	462.3	474.0	484.3	493.2	501.4	507.9	513.7	518.1
32.5°	434.3	449.1	463.0	475.6	486.9	497.3	506.5	514.8	521.5	526.7	531.2
30°	446.1	461.0	474.8	487.5	498.8	509.3	518.5	526.5	533.1	537.7	542.5
27.5°	456.3	471.5	485.7	498.2	509.7	519.7	528.4	535.7	543.5	549.0	553.4
25°	465.8	481.6	495.2	507.8	518.4	528.4	537.3	545.7	552.2	559.5	563.9
22.5°	474.2	489.8	503.6	515.3	526.2	536.7	545.7	554.3	561.1	568.6	572.2
20°	481.2	496.9	510.4	521.9	533.9	543.9	553.3	561.0	568.4	575.2	579.0
17.5°	486.9	502.6	515.3	528.9	540.2	549.9	558.4	566.8	575.1	580.3	586.2
15°	491.9	506.7	520.2	533.6	544.3	554.0	563.4	572.4	579.4	585.6	590.6
12.5°	495.8	510.0	525.1	537.8	548.6	557.7	567.6	576.2	583.9	590.1	595.2
10°	497.8	512.6	528.1	540.4	550.5	561.7	571.1	579.8	587.0	593.4	598.4
7.5°	499.3	515.0	529.9	542.8	552.7	564.3	573.3	582.5	590.2	594.8	600.2
5°	500.3	516.5	530.9	544.1	554.7	565.3	574.7	583.7	590.4	597.0	600.1
2.5°	500.5	516.7	531.0	543.5	555.7	565.3	575.0	583.9	590.6	596.4	601.4
0°	499.5	515.9	530.0	542.4	555.4	564.4	574.1	582.8	590.2	595.8	601.6
-2.5°	497.9	514.1	528.0	541.1	553.5	562.9	572.0	580.7	587.6	593.2	598.3
-5°	495.1	511.2	525.3	539.0	550.2	560.6	569.4	577.6	583.6	590.4	594.2
-7.5°	491.2	507.4	522.1	535.2	545.8	556.9	565.8	573.8	579.4	585.5	591.2
-10°	486.9	503.1	517.3	530.0	541.4	552.2	560.5	567.2	574.2	580.1	586.3
-12.5°	482.7	497.5	511.0	522.0	535.6	546.0	554.9	563.3	569.6	574.8	579.5
-15°	476.4	490.2	504.3	517.8	528.6	539.7	548.8	557.0	563.8	568.9	572.5
-17.5°	468.1	482.8	497.6	508.3	518.9	531.3	540.9	548.9	556.5	562.1	566.7
-20°	458.9	475.3	487.5	501.1	512.2	521.4	531.6	540.1	546.8	553.0	558.6

Classified

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



REPORT NUMBER: P670542 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: ARFL15DBZ-15W-3500K

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	450.0	464.6	478.8	490.8	502.6	513.1	521.3	530.0	536.8	542.5	547.3
-25°	439.2	454.0	468.6	480.2	491.4	502.3	511.2	518.6	527.2	531.1	536.1
-27.5°	426.9	442.7	455.8	469.4	479.5	489.0	499.0	506.9	514.0	519.4	525.3
-30°	414.1	429.3	443.5	455.2	467.1	476.1	484.8	492.1	500.7	506.1	510.9
-32.5°	400.2	414.3	428.4	441.3	452.0	462.2	470.6	477.9	484.4	489.9	494.9
-35°	384.6	399.4	412.2	424.3	436.1	446.9	454.6	462.6	468.8	473.9	478.8
-37.5°	368.2	382.1	395.6	407.3	417.2	428.0	437.4	445.6	450.8	456.6	461.1
-40°	349.9	363.8	376.9	388.6	400.2	408.4	416.5	424.9	431.8	437.5	442.0
-42.5°	330.1	343.5	356.1	368.4	378.9	388.2	397.6	404.2	410.2	415.4	420.0
-45°	310.2	322.1	333.9	345.2	355.5	365.9	374.2	381.1	387.0	392.6	397.0
-47.5°	287.9	300.8	311.4	321.2	330.7	339.8	348.4	355.9	362.3	367.2	371.0
-50°	262.7	275.9	287.5	297.7	306.3	314.0	321.5	328.6	334.9	340.0	344.1
-52.5°	235.6	247.1	259.3	270.2	279.6	287.7	294.7	300.8	306.4	310.8	314.5
-55°	206.9	217.7	228.1	237.5	247.0	256.4	263.5	269.6	274.6	278.7	281.8
-57.5°	172.5	183.8	195.2	204.6	212.3	219.4	226.1	232.1	237.5	241.8	245.0
-60°	138.2	146.5	155.4	164.3	172.5	179.6	185.9	190.2	194.0	197.3	200.0
-62.5°	105.9	110.6	116.6	122.6	128.4	133.7	138.5	142.5	145.6	147.7	148.8
-65°	77.8	80.3	83.0	85.5	88.6	91.1	94.1	96.2	97.4	98.0	97.8
-67.5°	55.8	55.6	55.8	56.1	57.4	58.2	58.5	58.8	58.2	57.0	55.5
-70°	37.9	38.1	37.6	37.0	37.0	36.4	35.3	33.8	32.3	30.2	27.7
-72.5°	23.9	24.2	23.8	23.5	23.3	22.9	22.3	21.3	19.9	18.2	16.4
-75°	13.5	13.6	13.4	13.5	13.7	13.6	13.3	12.7	12.0	11.0	9.9
-77.5°	6.1	6.2	6.0	6.1	6.4	6.6	6.5	6.4	6.1	5.7	5.2
-80°	3.2	3.2	3.0	2.9	2.8	2.7	2.6	2.5	2.3	2.2	2.0
-82.5°	2.2	2.2	2.2	2.1	2.0	1.9	1.8	1.6	1.5	1.4	1.2
-85°	1.6	1.6	1.6	1.5	1.5	1.4	1.3	1.2	1.1	1.0	0.9
-87.5°	1.5	1.6	1.6	1.5	1.4	1.3	1.2	1.1	1.1	1.0	0.9
-90°	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.9



REPORT NUMBER: P670542 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL15DBZ-15W-3500K

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.7	0.7	0.6	0.5	0.6	0.6	0.7	0.7	0.8	0.9	0.9
87.5°	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.2	2.2	2.3	2.3
85°	5.6	5.5	5.4	5.3	5.5	5.8	5.9	6.1	6.2	6.3	6.4
82.5°	15.0	14.8	14.6	14.3	14.8	15.3	15.7	16.0	16.3	16.4	16.4
80°	29.2	29.1	28.8	28.4	29.4	30.3	31.0	31.6	32.0	32.3	32.4
77.5°	52.0	52.3	52.4	52.3	53.7	54.7	55.6	56.1	56.4	56.4	56.2
75°	82.8	83.4	83.5	83.3	84.6	85.4	85.9	86.0	85.7	85.0	83.8
72.5°	119.3	119.9	120.0	119.7	120.6	121.0	120.9	120.4	119.3	117.9	116.0
70°	157.0	157.8	158.1	157.8	158.6	158.8	158.4	157.4	155.8	153.7	151.0
67.5°	193.8	195.4	196.2	196.4	196.9	196.7	195.8	194.3	192.3	189.6	186.3
65°	230.4	232.3	233.4	233.8	234.2	233.8	232.6	230.8	228.2	224.9	220.9
62.5°	265.0	266.5	267.1	267.0	267.9	267.9	267.3	265.8	263.3	260.0	255.8
60°	300.2	302.1	303.2	303.5	304.0	303.6	302.4	300.3	297.4	293.8	289.4
57.5°	332.9	335.4	337.2	338.2	338.0	337.0	335.1	332.5	328.9	324.6	319.9
55°	361.0	363.6	365.5	366.6	366.2	365.0	363.1	360.4	356.9	352.5	347.4
52.5°	384.6	387.1	388.7	389.6	389.3	388.2	386.3	383.5	380.2	376.2	371.2
50°	408.5	411.0	412.7	413.5	413.5	412.5	410.6	407.7	403.9	399.4	393.9
47.5°	431.1	433.5	435.1	435.8	435.6	434.6	432.8	430.0	426.4	422.2	417.3
45°	452.9	455.9	458.1	459.2	458.5	456.9	454.5	451.3	447.4	442.8	437.2
42.5°	473.0	475.8	477.7	478.7	478.1	476.5	474.1	471.1	467.3	461.8	455.7
40°	489.8	492.2	493.8	494.6	494.4	493.3	491.5	488.7	484.9	479.7	473.5
37.5°	507.2	510.1	512.0	513.1	512.8	511.8	509.9	506.1	501.3	496.0	490.5
35°	521.5	523.6	524.9	525.4	525.6	525.0	523.6	520.9	516.4	512.9	506.3
32.5°	534.7	537.3	539.2	540.3	539.8	538.4	536.3	533.7	530.0	525.7	519.5
30°	546.7	549.6	551.7	552.9	552.2	550.8	548.7	545.4	541.0	536.5	531.1
27.5°	557.7	560.8	562.9	564.2	563.4	561.8	559.5	556.2	551.7	547.9	540.1
25°	568.3	570.4	571.8	572.6	572.3	571.2	569.1	566.0	562.0	556.4	549.4
22.5°	576.0	579.1	580.3	581.1	580.8	579.8	577.7	574.6	570.5	564.3	557.6
20°	583.0	586.4	588.7	590.1	589.3	587.0	584.0	582.2	577.9	571.9	565.0
17.5°	588.7	592.2	594.3	595.4	594.5	593.1	591.4	588.8	583.0	578.5	571.0
15°	595.0	597.4	598.6	599.1	599.1	598.2	595.3	592.0	588.4	583.3	577.1
12.5°	599.2	601.7	602.8	602.8	602.7	601.6	600.5	596.7	591.5	586.3	581.8
10°	602.3	605.3	607.0	607.4	607.6	606.0	602.5	599.5	595.5	589.2	583.7
7.5°	603.6	606.9	607.3	607.7	607.8	607.8	605.7	600.4	596.6	592.2	584.5
5°	604.6	605.8	608.2	610.4	608.7	607.9	606.3	602.7	598.3	593.3	586.3
2.5°	604.7	606.9	608.6	608.8	608.0	607.6	605.8	603.2	598.7	593.6	586.8
0°	604.3	605.4	606.4	608.4	608.2	607.3	605.4	601.6	598.7	593.5	586.3
-2.5°	602.7	605.2	606.7	607.6	607.4	607.7	605.3	601.0	597.2	591.1	584.3
-5°	599.9	602.0	603.4	604.9	605.1	605.2	601.9	599.0	594.3	587.3	581.5
-7.5°	595.6	598.8	599.9	600.1	601.3	600.5	598.6	595.7	589.6	583.4	577.3
-10°	591.2	595.2	596.3	596.4	596.8	596.0	593.8	589.3	583.7	579.0	572.6
-12.5°	584.5	587.9	590.1	590.6	590.9	589.3	586.2	582.9	578.0	572.7	566.0
-15°	577.4	580.2	582.8	583.7	583.4	582.0	579.2	574.3	570.9	565.3	560.2
-17.5°	569.3	572.0	574.4	575.4	574.7	572.7	570.5	566.9	562.8	558.4	552.4
-20°	561.5	564.0	565.7	566.1	565.7	564.2	561.7	558.2	555.0	549.5	543.4



REPORT NUMBER: P670542 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL15DBZ-15W-3500K

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	551.6	554.5	555.8	555.9	555.8	554.7	553.0	549.4	543.6	539.3	533.2
-25°	540.1	542.6	544.1	544.5	544.4	543.1	540.5	537.6	533.0	528.6	523.1
-27.5°	528.1	530.1	531.6	532.1	532.0	530.8	528.9	526.2	522.1	516.9	510.3
-30°	514.9	517.5	519.2	519.8	519.7	518.5	516.3	512.8	508.3	503.1	496.6
-32.5°	499.3	501.9	503.1	503.4	503.5	502.6	500.5	497.2	493.3	488.0	481.5
-35°	482.3	484.9	486.6	487.2	487.2	486.1	483.8	480.6	476.8	472.1	466.0
-37.5°	464.7	467.0	468.2	468.5	468.8	468.0	466.2	463.0	459.0	454.4	446.9
-40°	444.5	446.2	447.1	447.0	447.7	447.2	445.5	442.4	438.8	434.1	428.0
-42.5°	423.5	425.6	426.7	426.8	427.1	426.5	424.8	422.0	418.4	413.4	407.3
-45°	400.2	402.6	404.1	404.4	404.6	403.6	401.5	398.6	395.0	390.8	385.5
-47.5°	373.8	375.4	376.1	375.7	376.7	376.7	375.7	373.5	370.3	366.2	360.9
-50°	347.1	349.1	350.0	349.9	350.7	350.5	349.2	346.7	343.3	339.0	333.7
-52.5°	317.3	319.2	320.1	320.0	320.8	320.7	319.5	317.4	314.4	310.7	305.6
-55°	284.1	285.5	285.8	285.0	286.4	286.8	286.1	284.5	282.0	278.6	274.3
-57.5°	246.8	247.6	247.3	245.9	247.9	249.0	248.9	247.9	245.6	242.4	238.3
-60°	201.7	202.4	201.9	200.1	202.8	204.3	204.5	203.7	202.1	199.8	197.1
-62.5°	148.8	147.7	145.4	141.9	146.6	150.1	152.5	154.0	154.6	154.4	153.4
-65°	96.6	94.5	91.5	87.4	93.2	98.0	101.8	104.8	106.9	108.2	109.1
-67.5°	53.4	50.7	47.2	43.1	49.2	54.6	59.3	63.2	66.7	69.8	72.3
-70°	24.7	21.3	17.6	13.7	19.3	24.7	29.8	34.4	38.4	41.8	44.4
-72.5°	14.3	11.9	9.4	6.9	10.4	13.8	16.9	19.8	22.4	24.6	26.4
-75°	8.6	7.2	5.7	4.2	6.1	7.9	9.6	11.2	12.5	13.6	14.5
-77.5°	4.6	4.0	3.3	2.6	3.4	4.2	4.9	5.5	6.1	6.5	6.8
-80°	1.9	1.7	1.5	1.3	1.6	1.9	2.1	2.3	2.6	2.7	2.9
-82.5°	1.1	0.9	0.8	0.7	0.8	1.0	1.1	1.3	1.4	1.6	1.7
-85°	0.8	0.7	0.6	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2
-87.5°	0.8	0.7	0.6	0.5	0.6	0.6	0.7	0.8	0.8	0.9	1.0
-90°	0.9	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	1.0	1.0



REPORT NUMBER: P670542 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL15DBZ-15W-3500K

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	1.0	1.0	1.1	1.1	1.2	1.1	1.1	1.0	0.9	0.9	0.8
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.1	2.0	1.9	1.8
85°	6.4	6.4	6.4	6.3	6.2	5.8	5.4	5.0	4.7	4.3	4.0
82.5°	16.4	16.3	16.1	15.8	15.3	14.3	13.3	12.3	11.5	10.6	9.7
80°	32.4	32.1	31.7	31.1	30.0	28.2	26.2	24.3	22.5	20.7	18.7
77.5°	55.6	54.8	53.6	52.1	50.0	46.7	43.2	40.0	37.3	34.5	31.6
75°	82.3	80.9	79.3	77.4	74.5	70.0	65.4	60.6	55.7	50.8	46.1
72.5°	113.6	110.9	108.2	105.3	101.2	95.2	88.7	82.3	75.9	69.3	63.2
70°	147.7	143.9	139.7	135.2	129.5	122.6	114.9	107.1	99.6	91.4	82.9
67.5°	182.3	177.8	172.9	167.3	159.8	151.5	143.2	134.6	125.5	115.0	104.6
65°	216.1	210.7	205.2	199.5	191.0	181.7	171.9	161.4	150.7	140.5	129.6
62.5°	250.6	244.3	237.3	229.8	220.7	211.0	201.5	190.2	177.7	164.8	151.7
60°	284.3	278.3	271.5	262.6	251.7	240.2	229.1	217.3	205.2	191.7	176.5
57.5°	315.0	309.2	302.2	292.9	282.1	270.3	257.5	243.8	230.5	216.6	202.1
55°	341.5	335.0	327.5	318.7	309.0	297.0	284.3	270.4	255.6	239.9	224.9
52.5°	365.3	358.6	350.9	341.8	331.5	320.0	308.4	294.1	279.3	263.3	246.3
50°	387.1	380.3	372.4	362.9	352.7	341.5	329.0	315.5	300.8	284.6	267.4
47.5°	410.2	402.3	393.4	382.8	372.6	360.9	348.6	335.1	320.1	304.4	286.5
45°	430.8	423.8	414.8	403.3	392.4	379.4	366.7	353.0	338.3	321.9	304.8
42.5°	449.6	442.2	432.6	422.7	411.3	398.5	384.1	369.8	354.7	338.7	320.9
40°	467.0	458.0	449.3	439.9	428.1	415.9	401.5	386.6	370.2	353.8	336.2
37.5°	483.0	474.3	464.8	454.4	443.8	431.1	417.6	402.0	385.9	367.9	350.0
35°	497.8	489.2	479.2	468.8	457.4	445.0	431.7	416.7	400.1	381.9	362.8
32.5°	512.4	502.8	492.7	481.7	470.6	457.7	444.2	429.5	413.1	395.8	374.3
30°	524.0	514.7	505.4	494.0	481.7	469.9	456.0	441.5	424.8	406.1	386.5
27.5°	533.4	525.8	515.9	504.9	492.9	479.4	466.2	451.7	435.9	416.1	395.5
25°	541.8	534.5	525.1	514.7	502.1	489.4	475.1	459.0	442.7	424.5	404.0
22.5°	549.8	541.4	533.5	522.9	511.5	497.7	482.7	468.5	451.5	433.1	411.8
20°	556.7	548.4	538.5	529.6	518.2	504.6	490.4	474.1	456.4	438.6	418.2
17.5°	563.5	553.9	545.0	534.0	523.3	511.0	495.8	479.9	463.8	444.9	424.0
15°	568.3	559.0	549.9	539.5	529.3	515.6	500.5	485.3	468.1	449.2	429.0
12.5°	573.2	564.4	553.1	543.5	531.3	519.2	505.3	489.2	471.8	452.3	432.6
10°	576.5	566.9	556.8	546.0	534.2	522.0	507.8	491.8	474.9	455.9	435.6
7.5°	579.4	569.3	560.1	547.8	536.8	524.9	509.8	493.5	477.0	458.4	437.7
5°	580.0	570.3	560.9	549.3	538.2	525.9	510.8	494.7	478.1	459.5	438.8
2.5°	579.7	570.2	561.1	549.8	538.8	525.6	510.9	494.9	478.2	459.6	438.9
0°	578.9	569.2	560.5	549.4	538.3	524.7	510.1	494.2	477.4	458.9	438.0
-2.5°	577.0	567.5	558.7	547.6	536.5	523.0	508.3	492.4	475.8	457.2	436.4
-5°	573.7	564.9	556.1	545.0	533.7	520.7	505.6	489.7	473.2	454.6	433.9
-7.5°	569.4	561.4	552.8	540.8	529.8	517.2	502.0	486.1	469.9	451.1	430.5
-10°	565.2	556.7	547.6	535.7	524.3	512.3	497.4	481.6	465.6	446.4	426.2
-12.5°	559.4	551.8	541.9	531.9	518.3	506.1	491.6	476.0	459.9	440.9	420.5
-15°	552.7	544.7	533.9	524.7	513.2	499.2	484.9	469.9	453.3	434.4	413.5
-17.5°	545.4	536.7	528.0	515.0	504.9	491.6	477.1	462.7	445.9	427.0	406.0
-20°	536.3	528.4	517.8	508.4	495.7	482.7	468.9	454.1	437.5	418.9	397.9



REPORT NUMBER: P670542 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL15DBZ-15W-3500K

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	526.9	518.1	509.4	497.7	486.0	472.6	459.7	444.6	427.3	408.6	388.9
-25°	515.3	507.8	497.6	487.0	475.2	462.9	449.0	434.4	417.2	398.0	378.2
-27.5°	503.5	494.9	485.4	475.1	463.8	450.9	437.4	421.6	404.7	386.8	367.5
-30°	489.5	481.3	472.3	462.2	450.3	438.0	423.8	408.8	392.0	374.0	353.8
-32.5°	475.0	466.9	458.0	447.0	435.9	423.3	409.9	394.4	377.8	360.2	340.1
-35°	459.2	449.9	441.3	431.3	419.8	408.0	394.1	379.0	363.1	343.9	325.5
-37.5°	440.2	432.4	424.1	413.6	403.2	390.9	377.1	362.5	345.0	328.6	310.5
-40°	421.3	413.1	405.3	395.8	384.7	372.0	358.6	343.0	328.2	311.2	293.8
-42.5°	401.1	394.1	385.4	375.5	363.8	351.4	337.7	324.4	309.1	293.2	275.5
-45°	379.2	371.7	362.4	352.2	341.3	329.7	317.3	304.1	289.2	272.9	255.1
-47.5°	353.9	345.9	337.6	328.4	318.8	307.4	295.5	281.8	266.9	250.6	233.4
-50°	327.4	320.6	313.0	304.2	294.6	283.3	270.7	257.1	242.4	227.1	211.3
-52.5°	299.9	293.7	286.3	277.3	267.1	255.8	243.6	230.6	217.1	202.6	186.5
-55°	268.9	262.7	255.2	246.5	237.0	226.5	215.4	203.3	190.0	175.1	158.7
-57.5°	233.3	227.8	221.8	214.6	205.7	195.8	184.9	172.5	159.1	145.9	132.3
-60°	193.9	190.1	185.9	180.0	171.2	161.2	150.7	140.4	129.5	117.5	104.7
-62.5°	151.6	148.9	145.8	141.8	134.7	127.2	118.8	109.8	100.0	90.1	79.2
-65°	109.6	109.3	108.5	106.8	101.7	95.4	88.4	81.0	72.9	64.9	57.4
-67.5°	74.1	75.2	75.5	75.0	71.3	66.2	60.9	55.6	50.3	45.5	40.7
-70°	46.5	47.7	47.9	47.8	45.9	42.8	39.7	36.6	33.4	30.6	27.9
-72.5°	27.6	28.2	28.5	28.4	27.5	26.0	24.5	22.9	21.2	19.3	17.4
-75°	15.0	15.3	15.4	15.2	14.7	14.2	13.4	12.6	11.8	10.8	9.8
-77.5°	7.1	7.2	7.3	7.1	6.9	6.8	6.4	6.1	6.0	5.7	5.3
-80°	3.0	3.1	3.2	3.2	3.3	3.4	3.4	3.2	3.1	2.9	2.6
-82.5°	1.8	1.9	2.1	2.2	2.2	2.2	2.1	2.0	1.8	1.7	1.6
-85°	1.3	1.4	1.5	1.5	1.6	1.5	1.4	1.3	1.3	1.2	1.1
-87.5°	1.0	1.1	1.2	1.2	1.3	1.2	1.2	1.1	1.0	0.9	0.8
-90°	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0



REPORT NUMBER: P670542 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL15DBZ-15W-3500K

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.7	0.7	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4
87.5°	1.7	1.6	1.6	1.5	1.4	1.3	1.2	1.1	1.0	0.9	0.9
85°	3.6	3.2	2.8	2.6	2.4	2.1	1.9	1.6	1.4	1.2	1.1
82.5°	8.7	7.8	6.9	6.0	5.0	4.3	3.4	2.6	2.0	1.7	1.4
80°	16.9	15.0	13.0	11.5	10.0	8.4	6.5	4.8	3.5	2.6	1.8
77.5°	28.4	25.2	22.4	19.4	16.6	13.7	10.6	8.1	5.9	4.1	2.8
75°	41.5	37.6	33.7	29.6	25.5	21.1	16.1	12.0	8.8	6.1	4.1
72.5°	57.2	51.3	45.6	40.2	35.5	29.7	23.2	17.3	12.5	8.6	5.8
70°	74.3	66.1	58.9	52.1	45.7	38.2	30.7	23.6	17.1	11.7	7.7
67.5°	94.9	84.8	74.3	64.4	56.4	47.3	38.1	29.9	22.3	15.6	10.1
65°	117.2	104.1	92.5	81.0	68.3	56.6	46.2	36.4	27.6	19.8	12.9
62.5°	140.0	127.1	111.8	97.5	83.8	67.7	54.5	43.3	33.0	23.9	16.2
60°	161.1	146.6	133.1	117.0	98.3	80.9	64.1	50.4	38.8	28.3	19.4
57.5°	185.3	167.4	150.4	136.0	115.7	93.8	75.4	58.0	44.7	32.9	22.7
55°	208.6	190.7	170.5	151.2	131.8	108.8	86.4	67.7	50.7	37.7	26.1
52.5°	229.5	211.9	192.3	168.5	144.8	123.5	98.7	76.5	57.8	42.5	29.7
50°	249.2	230.8	211.8	187.5	159.8	135.7	111.7	86.3	65.3	47.3	33.3
47.5°	268.1	248.6	228.3	204.2	176.8	147.9	123.8	96.8	72.2	52.6	37.0
45°	285.3	265.5	243.3	218.8	192.8	162.2	134.0	107.4	80.4	58.2	40.6
42.5°	301.9	281.0	258.0	232.7	205.8	177.1	144.1	117.7	88.4	63.5	44.0
40°	316.8	295.0	271.9	246.6	218.3	189.7	156.6	126.2	96.1	68.9	47.7
37.5°	330.4	308.5	284.2	259.2	230.8	200.4	169.0	134.2	104.9	75.0	51.4
35°	342.4	320.6	296.7	270.9	242.9	210.7	180.0	142.8	112.5	80.6	54.9
32.5°	353.3	331.5	307.8	281.1	253.5	221.4	188.2	152.6	118.9	85.6	58.1
30°	363.2	341.1	317.6	291.4	263.1	231.6	196.0	161.9	124.5	90.9	61.2
27.5°	372.8	349.9	326.3	300.6	271.6	240.6	203.7	170.4	129.4	96.7	65.0
25°	382.5	357.7	333.9	308.6	279.2	248.5	211.8	175.9	135.3	101.9	68.4
22.5°	389.7	365.0	340.6	315.3	286.6	255.3	219.2	180.7	141.4	105.7	71.1
20°	395.9	371.8	346.5	321.1	293.0	261.2	225.8	185.2	146.9	109.1	73.1
17.5°	401.5	377.9	351.5	325.9	298.5	266.1	231.4	189.0	151.6	112.0	74.7
15°	406.3	382.3	355.7	329.9	302.7	270.2	235.7	192.4	155.6	113.7	75.7
12.5°	409.9	385.8	359.4	333.0	305.9	273.7	239.1	196.0	158.7	115.0	76.9
10°	412.3	388.4	362.3	335.4	308.3	276.5	241.7	198.8	160.3	115.7	78.2
7.5°	414.0	390.2	364.2	337.0	309.9	278.4	243.4	200.8	160.9	115.9	78.9
5°	414.9	391.1	365.1	337.8	310.6	279.4	244.2	201.8	160.9	115.6	79.0
2.5°	414.9	391.1	365.1	337.8	310.6	279.6	244.2	201.8	160.2	114.9	78.6
0°	413.9	390.2	364.2	336.9	309.8	278.9	243.5	200.9	159.0	113.6	77.5
-2.5°	412.4	388.8	362.7	335.5	308.5	277.5	242.2	199.9	158.2	113.0	76.9
-5°	410.0	386.4	360.4	333.3	306.3	275.2	240.1	197.8	156.8	112.0	75.7
-7.5°	406.7	383.2	357.2	330.3	303.4	272.0	237.3	194.7	154.8	110.5	73.9
-10°	402.6	379.2	353.1	326.5	299.7	268.0	233.6	190.7	152.2	108.4	71.6
-12.5°	397.8	374.2	348.0	322.0	295.2	263.1	228.9	185.7	148.6	105.9	68.7
-15°	391.7	367.8	342.2	316.5	289.8	257.4	223.4	179.8	143.4	102.8	66.2
-17.5°	384.3	360.4	335.4	310.3	283.3	251.0	217.1	174.0	137.4	99.1	63.9
-20°	376.5	352.2	327.7	303.0	275.3	243.8	209.2	168.0	130.6	94.4	61.2



REPORT NUMBER: P670542 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL15DBZ-15W-3500K

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	367.3	343.5	319.6	294.9	266.5	235.7	200.3	161.3	123.3	89.1	58.3
-25°	356.4	333.7	310.5	285.9	256.8	226.9	190.2	154.2	115.4	83.2	54.6
-27.5°	344.9	322.7	300.2	275.2	246.5	216.7	179.0	146.4	107.7	76.5	50.3
-30°	333.3	311.8	288.9	263.1	235.5	205.0	168.5	135.6	100.7	69.3	45.7
-32.5°	319.7	299.2	276.6	250.2	223.7	192.0	158.1	124.2	92.9	63.2	42.1
-35°	306.4	285.4	262.0	236.8	210.4	177.2	147.3	112.8	84.2	58.3	38.8
-37.5°	291.1	270.3	246.6	222.9	195.2	163.6	133.8	102.2	74.9	52.5	35.4
-40°	274.8	253.1	230.9	207.3	178.0	150.1	119.3	91.8	65.1	45.9	31.9
-42.5°	256.0	235.5	214.4	189.7	161.6	134.6	105.4	80.6	58.3	40.8	28.4
-45°	236.2	217.5	195.9	169.8	145.3	117.5	92.5	69.1	51.0	36.3	24.9
-47.5°	216.2	197.2	174.8	151.5	126.2	101.6	79.2	59.3	42.9	31.8	21.3
-50°	193.9	173.9	153.8	131.2	107.8	86.1	66.1	50.9	37.6	27.2	17.7
-52.5°	168.3	150.5	131.2	110.3	89.8	71.3	55.8	41.8	32.1	22.7	14.6
-55°	143.3	126.0	108.1	90.2	73.0	58.2	45.7	35.8	26.6	18.4	11.7
-57.5°	116.9	101.9	86.1	71.5	58.5	47.4	37.6	29.3	21.3	14.5	9.4
-60°	92.2	78.9	66.7	56.2	46.7	37.9	30.5	23.1	16.3	11.1	7.2
-62.5°	68.9	59.4	51.2	43.2	36.8	30.1	23.4	17.3	12.2	8.5	5.2
-65°	50.6	44.2	37.7	33.5	28.1	22.3	17.0	12.5	9.1	6.1	3.6
-67.5°	35.6	32.1	28.2	23.9	19.7	15.4	11.7	9.0	6.3	4.0	2.5
-70°	25.0	21.9	18.7	15.8	12.9	10.2	8.2	5.8	3.9	2.6	1.8
-72.5°	15.5	13.5	11.6	9.6	8.4	6.7	4.6	3.3	2.4	1.7	1.2
-75°	8.5	7.8	7.0	5.8	4.3	3.4	2.5	2.0	1.5	1.2	1.0
-77.5°	4.7	3.9	3.4	2.8	2.3	1.8	1.5	1.3	1.1	0.9	0.8
-80°	2.3	2.1	1.8	1.6	1.4	1.2	1.1	0.9	0.8	0.7	0.6
-82.5°	1.5	1.3	1.2	1.1	1.0	0.8	0.7	0.7	0.6	0.6	0.5
-85°	1.0	0.9	0.8	0.7	0.6	0.5	0.5	0.5	0.4	0.5	0.5
-87.5°	0.8	0.7	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4
-90°	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.7

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Scaled Data Report



REPORT NUMBER: P670542 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: ARFL15DBZ-15W-3500K

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.5	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	0.8	0.7	0.7	0.6	0.6	0.5	0.5
85°	0.9	0.8	0.7	0.6	0.6	0.5	0.5
82.5°	1.1	1.0	0.8	0.7	0.6	0.5	0.5
80°	1.4	1.1	0.9	0.7	0.6	0.5	0.5
77.5°	1.9	1.3	1.0	0.8	0.6	0.5	0.5
75°	2.6	1.7	1.2	0.9	0.7	0.5	0.5
72.5°	3.6	2.2	1.3	0.9	0.7	0.5	0.5
70°	4.8	2.8	1.6	1.0	0.7	0.6	0.5
67.5°	6.2	3.5	1.9	1.1	0.8	0.6	0.5
65°	7.8	4.4	2.3	1.2	0.8	0.6	0.5
62.5°	9.6	5.4	2.8	1.4	0.8	0.6	0.5
60°	12.0	6.5	3.2	1.5	0.9	0.6	0.5
57.5°	14.4	7.8	3.8	1.7	0.9	0.6	0.5
55°	16.7	9.1	4.5	1.9	0.9	0.6	0.5
52.5°	19.0	10.8	5.1	2.1	1.0	0.6	0.5
50°	21.5	12.4	5.8	2.3	1.0	0.6	0.5
47.5°	23.9	13.9	6.4	2.5	1.1	0.6	0.5
45°	26.5	15.3	7.1	2.8	1.1	0.6	0.5
42.5°	28.9	16.7	8.1	3.1	1.2	0.6	0.5
40°	31.5	18.3	9.0	3.4	1.2	0.6	0.5
37.5°	33.9	19.7	9.9	3.6	1.2	0.7	0.5
35°	36.1	21.1	10.6	3.9	1.2	0.7	0.5
32.5°	38.1	22.5	11.2	4.1	1.3	0.7	0.5
30°	39.9	23.7	11.7	4.3	1.3	0.7	0.5
27.5°	41.9	24.8	12.1	4.5	1.3	0.7	0.5
25°	43.5	26.0	12.5	4.6	1.3	0.7	0.5
22.5°	44.9	27.0	13.1	4.6	1.3	0.7	0.5
20°	46.0	27.8	13.5	4.8	1.3	0.7	0.5
17.5°	47.0	28.4	13.8	4.9	1.3	0.7	0.5
15°	47.7	28.9	14.0	5.1	1.3	0.7	0.5
12.5°	48.2	29.2	14.1	5.1	1.2	0.7	0.5
10°	48.3	29.3	14.1	5.2	1.2	0.7	0.5
7.5°	48.2	29.3	14.0	5.1	1.2	0.7	0.5
5°	47.8	29.0	13.8	5.0	1.1	0.7	0.5
2.5°	47.1	28.6	13.6	4.9	1.1	0.7	0.5
0°	46.2	28.1	13.2	4.8	1.0	0.7	0.5
-2.5°	46.0	27.9	13.1	4.7	1.0	0.6	0.5
-5°	45.5	27.6	13.0	4.6	1.0	0.6	0.5
-7.5°	44.8	27.2	12.7	4.5	1.0	0.6	0.5
-10°	43.8	26.6	12.4	4.4	1.0	0.6	0.5
-12.5°	42.7	25.8	12.0	4.2	1.0	0.6	0.5
-15°	41.3	24.9	11.5	3.9	1.0	0.6	0.5
-17.5°	39.8	23.8	11.0	3.7	1.0	0.6	0.5
-20°	38.0	22.6	10.3	3.4	0.9	0.6	0.5

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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	36.2	21.2	9.6	3.1	0.9	0.6	0.5
-25°	34.3	19.8	8.9	3.0	0.9	0.6	0.5
-27.5°	32.2	18.2	8.3	2.8	0.9	0.6	0.5
-30°	30.0	16.7	7.7	2.6	0.9	0.6	0.5
-32.5°	27.7	15.2	7.0	2.4	0.9	0.6	0.5
-35°	25.2	13.6	6.3	2.2	0.8	0.6	0.5
-37.5°	22.6	12.1	5.6	2.0	0.8	0.6	0.5
-40°	20.0	10.7	4.9	1.8	0.8	0.6	0.5
-42.5°	17.2	9.2	4.1	1.5	0.8	0.6	0.5
-45°	14.9	7.9	3.3	1.3	0.8	0.6	0.5
-47.5°	12.5	6.8	2.8	1.1	0.7	0.6	0.5
-50°	10.6	5.6	2.4	1.0	0.7	0.6	0.5
-52.5°	8.6	4.5	2.0	0.9	0.7	0.5	0.5
-55°	7.0	3.4	1.7	0.9	0.7	0.5	0.5
-57.5°	5.4	2.7	1.4	0.8	0.6	0.5	0.5
-60°	4.0	2.2	1.1	0.8	0.6	0.5	0.5
-62.5°	2.8	1.7	1.0	0.7	0.6	0.5	0.5
-65°	2.2	1.3	0.9	0.7	0.6	0.5	0.5
-67.5°	1.6	1.0	0.8	0.7	0.6	0.5	0.5
-70°	1.2	0.9	0.7	0.6	0.5	0.5	0.5
-72.5°	1.0	0.8	0.7	0.6	0.5	0.5	0.5
-75°	0.8	0.7	0.6	0.5	0.5	0.5	0.5
-77.5°	0.7	0.6	0.6	0.5	0.5	0.5	0.5
-80°	0.6	0.5	0.5	0.5	0.5	0.5	0.5
-82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5
-85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5
-87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5
-90°	0.7	0.7	0.6	0.6	0.6	0.5	0.5

(END OF REPORT)