

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: P670540 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: ARFL15DBZ-15W-2700K

Issue Date: 3/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P670540 (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-2700K
Description: SLIM WALL OR FLOODLIGHT
Light Source: 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

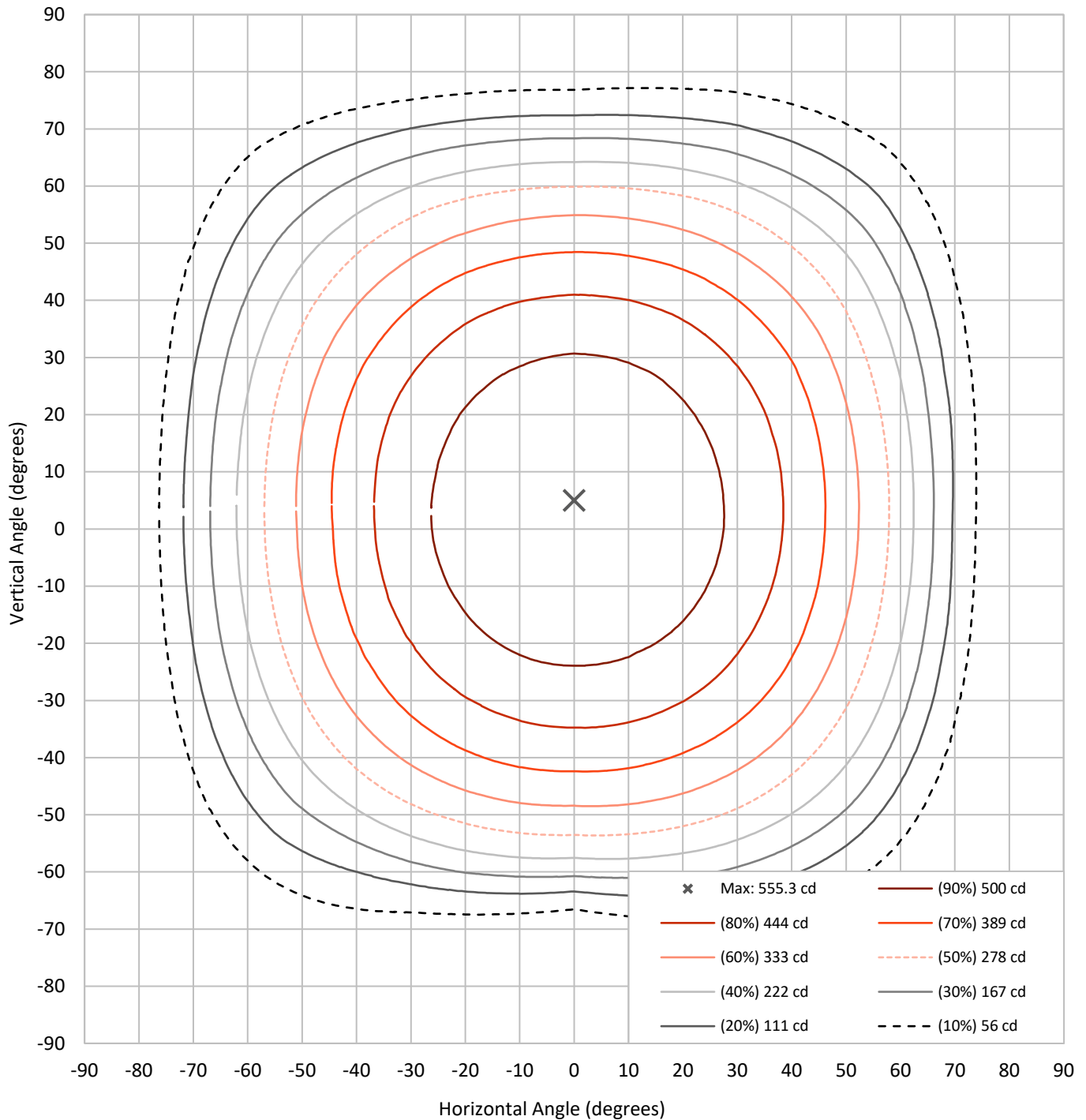
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	1541.6 lumens	Max Intensity:	555.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 5°V
Efficacy:	108.6 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:	1235.1 lumens	Field Lumens:	1518.6 lumens
Beam Efficiency:	80.1%	Field Efficiency:	98.5%
Input Watts (W):	14.2		
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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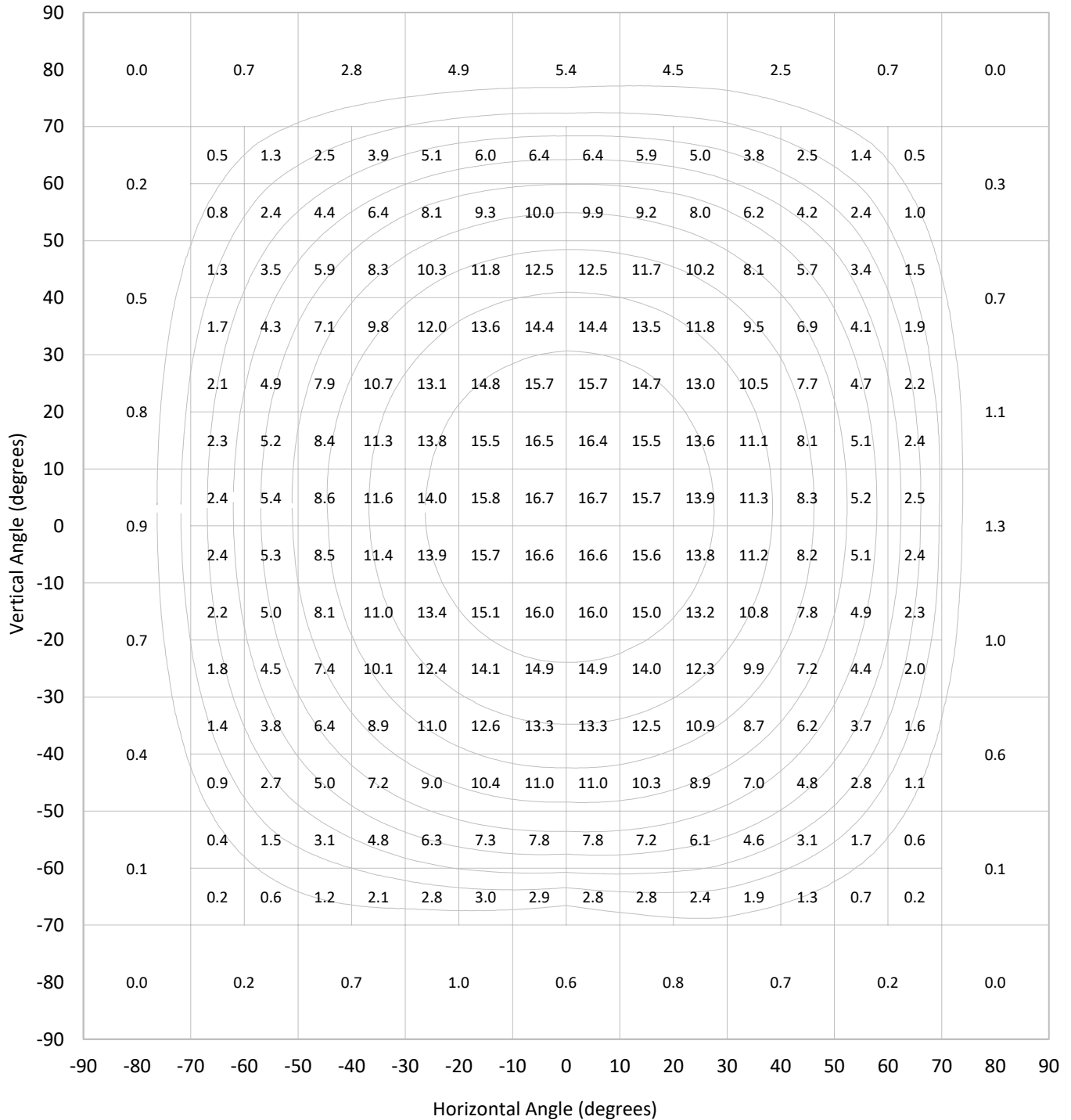
Iso-Candela Plot





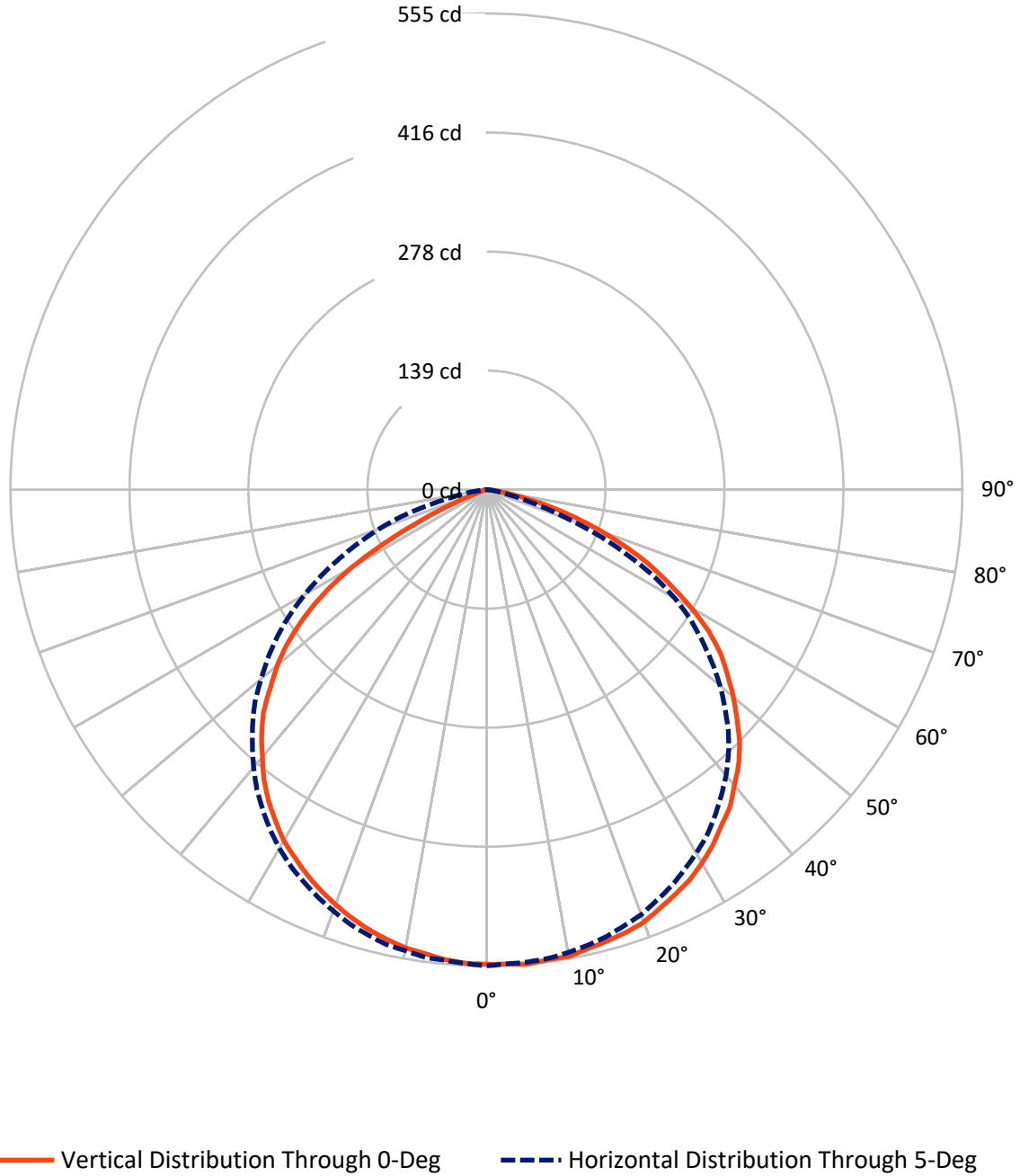
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Lumen Table



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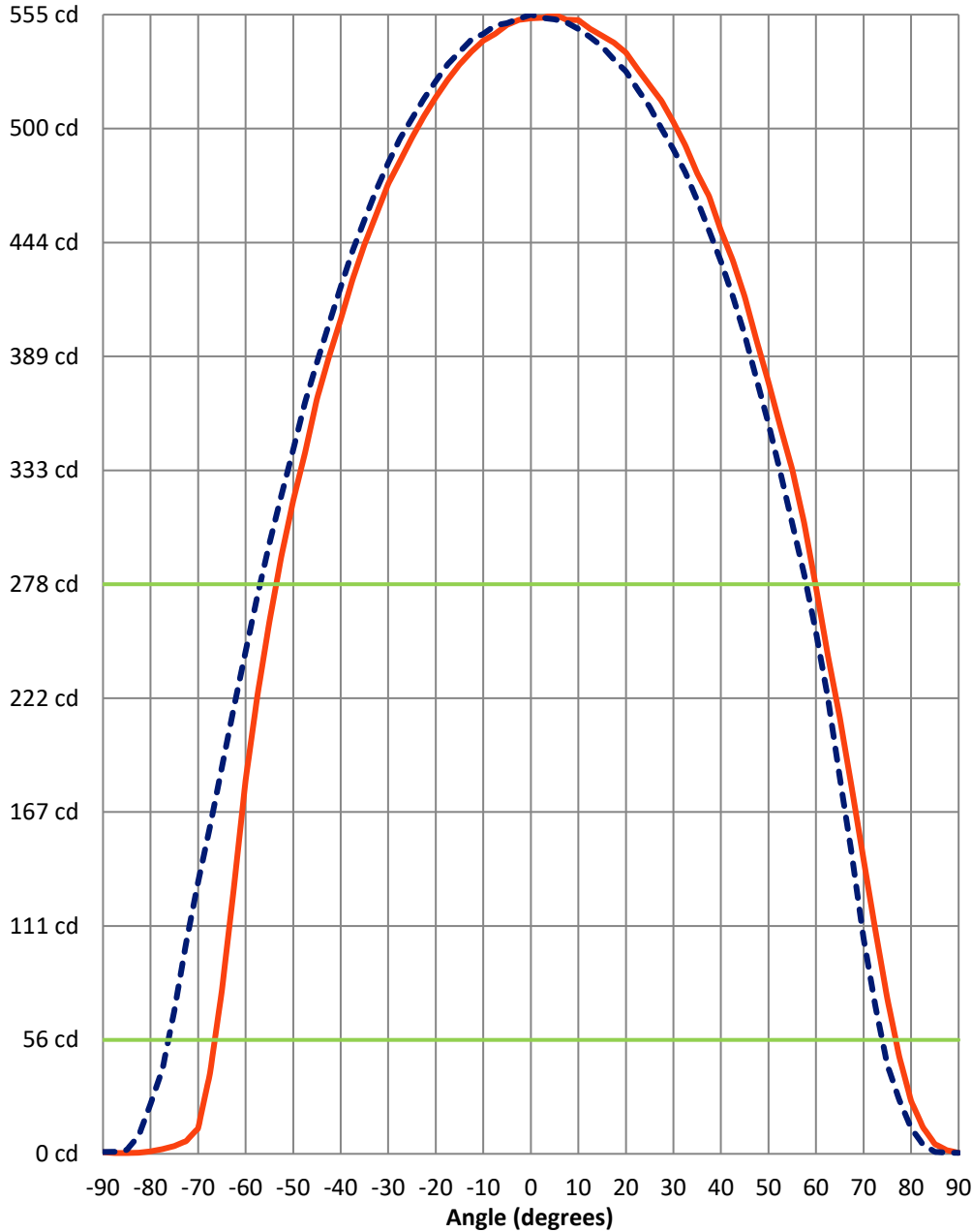
Luminous Intensity Polar Plot





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Luminous Intensity Plot



Beam:
H Angle: 114.9°
V Angle: 113.4°
Lumens: 1235.1
Efficiency: 80.1%

Field:
H Angle: 150.2°
V Angle: 143.3°
Lumens: 1518.6
Efficiency: 98.5%

Spill:
Lumens: 23.1
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°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8
87.5°	0.9	0.9	0.9	1.0	1.0	1.0	1.1	1.1	1.2	1.3	1.3
85°	0.9	0.9	0.9	1.0	1.0	1.1	1.2	1.4	1.5	1.6	1.8
82.5°	0.9	0.9	1.0	1.0	1.1	1.3	1.4	1.6	1.9	2.2	2.6
80°	0.9	0.9	1.0	1.1	1.2	1.4	1.7	2.0	2.5	3.2	4.2
77.5°	0.9	0.9	1.0	1.1	1.3	1.6	2.0	2.7	3.7	5.3	7.0
75°	0.9	0.9	1.0	1.2	1.4	1.8	2.5	3.9	5.6	7.6	10.3
72.5°	0.9	0.9	1.1	1.3	1.5	2.2	3.5	5.4	7.5	11.1	15.5
70°	0.9	0.9	1.1	1.3	1.8	2.8	4.6	6.9	10.8	15.9	21.3
67.5°	0.9	0.9	1.1	1.4	2.0	3.6	5.8	9.5	15.0	21.0	27.1
65°	0.9	0.9	1.1	1.5	2.4	4.4	7.5	12.9	19.4	26.1	34.2
62.5°	0.9	1.0	1.2	1.6	3.0	5.3	9.7	16.8	23.5	32.3	42.7
60°	0.9	1.0	1.2	1.7	3.5	6.5	12.7	20.0	28.9	39.3	52.0
57.5°	0.9	1.0	1.2	1.9	4.0	8.1	15.9	23.9	34.6	46.9	62.1
55°	0.9	1.0	1.2	2.2	4.6	10.0	18.4	28.5	40.5	55.1	73.1
52.5°	0.9	1.0	1.2	2.5	5.2	12.5	21.0	33.1	46.6	64.0	82.9
50°	0.9	1.0	1.3	2.7	6.3	14.9	24.8	37.7	53.2	73.0	92.8
47.5°	0.9	1.0	1.3	3.0	7.4	16.7	28.5	42.3	60.2	81.4	102.7
45°	0.9	1.0	1.4	3.3	8.5	18.4	31.9	47.0	67.6	89.6	112.1
42.5°	0.9	1.0	1.4	3.6	10.2	20.6	35.1	51.7	74.5	97.8	120.7
40°	0.9	1.0	1.5	3.8	11.7	23.3	38.3	57.0	81.2	106.0	128.2
37.5°	0.9	1.0	1.5	4.1	13.2	26.0	41.3	62.4	87.3	113.2	136.1
35°	0.9	1.0	1.6	4.5	14.4	28.2	44.3	67.6	93.5	119.7	143.4
32.5°	0.9	1.0	1.7	5.0	15.3	30.2	47.2	72.5	99.9	125.3	149.8
30°	0.9	1.0	1.7	5.5	16.2	32.1	49.9	77.0	105.5	131.0	155.5
27.5°	0.9	1.0	1.8	5.9	17.0	33.7	53.1	81.0	110.5	136.4	160.6
25°	0.9	1.0	1.9	6.3	17.9	35.3	56.2	84.5	114.9	141.1	166.1
22.5°	0.9	1.0	1.9	6.6	19.2	36.6	58.9	88.0	118.4	145.1	171.1
20°	0.9	1.0	2.0	7.0	20.4	37.8	61.3	91.6	121.4	148.6	175.4
17.5°	0.9	1.0	2.0	7.5	21.5	38.8	63.6	94.8	124.2	151.4	179.0
15°	0.9	1.0	2.0	7.9	22.3	39.6	65.6	97.6	126.8	153.7	182.1
12.5°	0.9	1.0	2.0	8.3	23.1	40.3	67.2	99.8	128.9	155.6	184.5
10°	0.9	1.0	2.0	8.5	23.7	40.8	68.4	101.3	130.5	157.3	186.3
7.5°	0.9	1.0	2.0	8.7	24.1	41.2	69.3	102.4	131.7	158.6	187.6
5°	0.9	1.0	2.0	8.8	24.4	41.3	69.8	103.0	132.4	159.4	188.3
2.5°	0.9	1.0	1.9	8.8	24.5	41.2	69.9	103.2	132.7	159.7	188.5
0°	0.9	1.0	1.9	8.8	24.4	40.9	69.6	103.0	132.4	159.4	188.1
-2.5°	0.9	1.0	1.9	8.7	24.1	40.5	68.9	102.2	131.5	158.4	187.1
-5°	0.9	1.0	1.9	8.5	23.7	40.0	67.9	100.9	130.1	156.9	185.6
-7.5°	0.9	1.0	1.9	8.2	23.1	39.3	66.5	99.2	128.2	154.9	183.5
-10°	0.9	1.0	1.8	7.9	22.4	38.4	64.6	97.0	125.8	152.2	180.8
-12.5°	0.9	1.0	1.8	7.5	21.5	37.3	62.5	94.4	123.0	149.3	177.5
-15°	0.9	1.0	1.8	7.0	20.5	36.1	59.9	91.1	119.7	146.1	173.7
-17.5°	0.9	1.0	1.7	6.5	19.3	34.8	57.1	87.3	115.9	142.5	169.3
-20°	0.9	1.0	1.7	5.9	18.0	33.4	53.8	83.0	112.1	138.5	164.4

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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°	0.9	1.0	1.6	5.4	16.6	31.9	50.6	78.2	107.9	133.6	158.9
-25°	0.9	1.0	1.6	5.1	15.1	30.3	47.3	73.7	103.4	128.2	152.5
-27.5°	0.9	1.0	1.5	4.7	14.0	28.6	43.8	69.2	97.7	122.2	145.6
-30°	0.9	1.0	1.4	4.2	13.0	26.7	40.2	64.4	91.5	115.5	139.1
-32.5°	0.9	1.0	1.4	3.8	12.0	24.8	37.5	58.9	84.5	108.7	132.1
-35°	0.9	1.0	1.3	3.3	11.0	22.7	34.6	52.9	76.8	102.1	124.0
-37.5°	0.9	1.0	1.2	2.9	9.8	20.3	31.7	47.2	69.5	94.3	115.3
-40°	0.9	1.0	1.2	2.6	8.4	17.6	29.0	41.8	62.6	85.5	106.1
-42.5°	0.9	1.0	1.2	2.4	7.0	14.8	26.2	36.9	55.0	75.7	97.7
-45°	0.9	1.0	1.1	2.2	5.5	12.6	23.2	32.9	46.9	66.3	87.4
-47.5°	0.9	1.0	1.1	2.0	4.6	11.0	20.1	29.1	40.2	57.5	76.1
-50°	0.9	1.0	1.1	1.8	3.8	9.4	16.6	25.6	34.3	47.9	64.7
-52.5°	0.9	1.0	1.0	1.6	3.0	7.5	12.9	21.8	29.3	39.5	54.3
-55°	0.9	0.9	1.0	1.4	2.6	5.5	10.7	17.8	25.1	32.5	43.1
-57.5°	0.9	0.9	1.0	1.3	2.2	4.3	8.6	13.6	20.7	26.9	34.4
-60°	0.9	0.9	1.0	1.2	1.9	3.2	6.4	10.3	16.1	22.2	27.6
-62.5°	0.9	0.9	1.0	1.1	1.7	2.5	4.4	7.9	11.4	16.9	22.1
-65°	0.9	0.9	1.0	1.1	1.4	2.1	3.3	5.5	8.4	11.8	16.4
-67.5°	0.9	0.9	1.0	1.0	1.2	1.8	2.5	3.7	5.8	8.1	10.9
-70°	0.9	0.9	1.0	1.0	1.2	1.5	2.0	2.6	3.8	5.4	7.1
-72.5°	0.9	0.9	1.0	1.0	1.1	1.3	1.6	2.0	2.5	3.4	4.4
-75°	0.9	0.9	0.9	1.0	1.0	1.1	1.3	1.6	2.0	2.4	2.9
-77.5°	0.9	0.9	0.9	1.0	1.0	1.1	1.2	1.3	1.5	1.8	2.1
-80°	0.9	0.9	0.9	0.9	1.0	1.0	1.1	1.1	1.2	1.4	1.5
-82.5°	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.1	1.1	1.2
-85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0
-87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
-90°	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.0



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 CATALOG NUMBER: ARFL15DBZ-15W-2700K

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	0.8	0.9	0.9	1.0	1.0	1.1	1.1	1.1	1.2
87.5°	1.4	1.5	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.7
85°	2.0	2.3	2.4	2.5	2.7	2.9	3.1	3.2	3.4	3.5	3.6
82.5°	3.2	3.8	4.2	5.0	5.7	6.4	7.1	7.7	8.3	9.0	9.5
80°	5.7	7.3	8.4	9.4	10.5	12.2	13.7	15.2	16.8	18.3	19.7
77.5°	8.9	11.4	13.8	16.2	18.7	21.1	23.2	25.3	27.3	29.2	31.0
75°	13.9	18.0	21.6	24.6	27.5	30.4	33.4	37.1	40.5	44.0	47.1
72.5°	20.5	25.1	29.4	33.2	38.2	43.3	48.5	53.6	58.4	63.3	68.1
70°	26.6	32.5	39.3	46.1	52.9	60.1	67.1	74.0	80.5	87.0	93.3
67.5°	34.2	42.8	52.7	61.8	70.8	79.3	87.1	95.4	103.5	111.8	119.5
65°	43.9	55.4	68.5	79.2	88.1	98.0	107.6	117.0	126.2	135.0	144.1
62.5°	55.0	69.3	83.5	94.7	105.8	116.4	126.9	137.1	148.0	157.8	167.1
60°	67.1	82.6	97.3	110.5	122.2	133.7	145.8	157.3	168.3	179.2	190.0
57.5°	79.1	95.2	110.9	125.3	137.7	151.3	163.7	176.1	188.7	200.9	212.9
55°	90.3	107.7	124.0	139.0	153.8	167.4	181.3	195.4	208.8	222.8	236.6
52.5°	101.7	119.7	136.0	153.1	168.5	183.6	199.1	214.0	229.3	245.2	259.3
50°	112.7	130.6	148.9	166.0	183.1	199.8	216.2	232.6	249.6	264.5	278.2
47.5°	122.9	141.9	160.4	178.7	197.7	215.3	232.9	250.8	267.0	281.7	295.3
45°	132.0	152.3	171.5	191.8	211.0	230.0	249.2	266.8	282.6	297.5	312.6
42.5°	141.8	161.9	182.9	203.3	224.0	244.9	263.7	280.9	297.2	313.5	328.3
40°	150.4	171.5	193.6	215.4	237.1	257.5	276.4	294.5	312.1	328.3	343.5
37.5°	158.2	181.0	203.5	225.9	248.4	269.1	289.0	308.1	325.5	342.2	357.1
35°	165.8	189.9	213.5	237.2	259.2	280.3	300.4	320.1	338.3	354.5	369.1
32.5°	173.5	197.7	221.9	246.1	268.5	290.1	311.1	331.1	349.6	365.0	380.4
30°	180.6	205.8	230.9	254.8	277.8	299.6	320.8	341.0	358.4	375.5	391.1
27.5°	187.0	212.8	238.4	262.4	285.7	308.1	329.4	349.1	367.5	384.4	400.9
25°	192.6	218.8	244.9	269.5	292.9	315.7	337.1	356.0	374.8	392.7	408.5
22.5°	197.9	224.9	250.9	276.0	299.4	322.2	343.4	363.4	382.1	399.6	415.7
20°	203.0	230.3	256.1	281.2	305.2	327.8	348.6	369.1	388.2	405.1	421.5
17.5°	207.2	234.4	260.6	285.8	310.0	332.6	353.3	374.2	393.0	410.5	427.4
15°	210.3	237.9	264.4	289.5	313.9	336.3	358.1	378.7	396.8	413.9	431.6
12.5°	212.8	240.7	267.5	292.5	316.8	339.1	361.5	381.9	399.9	417.4	435.0
10°	214.7	242.8	269.9	294.9	318.8	341.2	363.8	384.2	402.5	420.8	437.5
7.5°	216.3	244.2	271.4	296.6	320.1	342.5	365.4	385.4	404.1	422.2	439.2
5°	217.2	244.9	272.2	297.4	320.7	343.1	366.3	385.7	404.2	422.5	440.1
2.5°	217.4	244.9	272.2	297.5	320.5	343.0	366.3	385.3	403.5	422.0	440.1
0°	217.0	244.3	271.6	296.8	319.6	342.0	365.5	384.1	402.2	420.7	439.1
-2.5°	215.9	243.3	270.5	295.7	318.5	341.0	364.2	383.1	401.4	419.7	437.9
-5°	214.1	241.6	268.6	293.9	316.7	339.1	362.1	381.3	399.9	417.9	435.6
-7.5°	211.7	239.3	266.0	291.1	314.2	336.5	359.0	378.8	397.6	415.3	432.5
-10°	208.6	236.2	262.7	287.6	310.9	333.0	355.2	375.3	393.5	411.9	428.1
-12.5°	205.1	232.5	258.7	283.2	306.8	328.8	350.7	370.9	388.4	406.1	422.8
-15°	201.1	228.0	254.0	278.5	301.9	323.7	345.2	365.7	383.1	400.4	417.0
-17.5°	196.5	222.8	248.5	273.0	296.4	317.9	338.7	358.8	377.0	394.6	410.9
-20°	190.9	217.0	242.3	266.5	290.1	311.1	331.6	351.2	369.6	385.9	402.7

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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°	184.5	210.1	235.3	259.0	282.0	303.4	323.8	343.2	361.7	378.2	394.6
-25°	177.8	202.5	227.5	251.1	273.6	295.1	315.1	334.1	351.5	368.5	383.4
-27.5°	170.7	195.0	219.1	242.5	264.4	286.2	305.4	324.2	341.7	358.3	373.9
-30°	162.9	186.5	209.8	232.9	254.1	275.2	294.7	313.4	330.8	346.4	362.3
-32.5°	154.6	177.3	199.5	222.2	243.7	263.8	284.0	301.4	318.7	334.7	349.3
-35°	145.4	167.7	189.4	211.1	232.4	251.3	270.7	289.1	305.5	321.3	336.1
-37.5°	136.4	157.5	178.3	198.5	219.3	238.9	256.7	274.9	290.9	306.5	321.2
-40°	126.9	146.6	166.8	186.3	205.8	225.1	242.5	259.4	276.2	290.5	304.8
-42.5°	116.5	135.5	154.7	173.4	191.4	210.0	227.6	243.0	259.1	274.5	287.6
-45°	105.2	124.1	141.8	159.9	177.1	193.4	210.0	226.3	240.7	255.7	269.7
-47.5°	95.2	111.6	128.9	145.6	162.2	176.6	191.3	206.9	221.8	235.2	249.1
-50°	83.1	99.0	115.2	131.0	145.9	158.9	172.0	185.8	200.6	213.9	226.5
-52.5°	70.0	86.9	100.5	115.8	128.7	140.0	152.0	164.1	176.9	190.6	202.7
-55°	57.6	72.4	87.6	99.7	111.0	121.3	131.2	141.8	152.6	164.0	175.9
-57.5°	45.4	58.3	71.7	84.8	92.9	102.2	110.9	119.3	127.9	137.3	146.9
-60°	34.9	44.8	56.3	67.3	77.0	83.8	90.7	97.7	104.4	111.0	117.9
-62.5°	27.0	33.3	41.5	50.9	59.2	66.8	73.0	77.0	82.2	87.0	91.7
-65°	20.8	24.8	29.8	35.5	43.1	49.3	55.0	59.9	63.5	65.5	68.2
-67.5°	14.6	18.4	21.4	25.2	29.3	33.8	38.7	42.5	45.7	48.3	50.1
-70°	9.0	11.7	14.7	17.6	19.8	22.5	25.1	27.5	30.6	32.6	33.8
-72.5°	5.5	6.8	8.5	10.4	12.7	14.6	16.1	17.5	18.8	20.0	20.9
-75°	3.4	4.0	4.6	5.7	6.7	7.9	8.8	10.0	10.9	11.6	12.0
-77.5°	2.3	2.6	2.9	3.2	3.6	4.0	4.6	4.9	5.3	5.5	5.5
-80°	1.7	1.9	2.0	2.2	2.3	2.5	2.6	2.7	2.9	2.9	3.0
-82.5°	1.3	1.4	1.5	1.6	1.7	1.7	1.8	1.9	1.9	1.9	1.9
-85°	1.1	1.1	1.2	1.2	1.3	1.3	1.4	1.4	1.4	1.5	1.5
-87.5°	0.9	0.9	1.0	1.0	1.1	1.1	1.1	1.2	1.2	1.3	1.3
-90°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.9	0.9



REPORT NUMBER: P670540 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL15DBZ-15W-2700K

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	1.2	1.3	1.3	1.2	1.2	1.1	1.0	1.0	0.9	0.8	0.8
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
85°	3.9	4.1	4.4	4.6	4.7	4.8	4.9	5.0	5.1	5.1	5.1
82.5°	10.3	11.1	11.8	12.3	12.7	13.0	13.2	13.5	13.6	13.7	13.7
80°	20.9	22.1	23.2	24.0	24.6	25.2	25.7	26.1	26.4	26.5	26.6
77.5°	33.0	35.1	36.8	38.4	40.0	41.5	42.8	43.9	45.0	45.9	46.7
75°	50.0	52.6	54.8	57.9	61.1	63.9	66.6	69.1	71.3	73.0	74.4
72.5°	72.8	77.6	82.1	86.4	90.4	94.3	98.0	101.2	103.9	105.9	107.5
70°	99.6	106.3	112.4	117.7	122.6	127.0	130.9	134.4	137.3	139.7	141.5
67.5°	126.8	133.9	141.0	147.5	152.8	157.5	161.8	165.6	168.9	171.8	174.3
65°	152.6	160.4	167.6	174.5	180.9	186.8	191.9	196.5	200.6	204.3	207.3
62.5°	176.2	185.4	193.7	201.7	209.2	216.1	222.1	227.5	232.1	235.9	238.9
60°	200.3	210.5	220.8	230.8	239.7	247.3	253.9	259.2	263.9	267.6	270.6
57.5°	225.2	237.3	249.4	260.1	268.9	275.2	281.3	287.1	291.9	296.1	299.8
55°	250.8	262.9	273.4	283.4	292.1	298.7	304.9	311.0	316.9	321.8	325.4
52.5°	271.9	283.7	294.0	303.2	312.6	320.8	327.0	333.3	338.8	343.2	347.0
50°	290.8	301.9	313.7	323.2	332.7	341.1	348.1	354.2	359.8	364.8	368.6
47.5°	308.6	320.6	332.2	342.7	352.0	360.9	368.3	374.6	380.1	385.0	389.0
45°	325.6	338.5	349.9	360.8	370.4	379.6	387.6	394.0	399.4	404.3	408.5
42.5°	342.2	354.9	366.4	377.5	388.1	397.0	404.7	411.3	417.3	422.6	426.9
40°	357.3	369.6	382.1	393.2	403.2	412.3	420.8	428.3	434.2	439.0	442.7
37.5°	370.7	384.0	396.1	407.3	417.5	427.7	436.0	442.8	448.0	453.5	457.9
35°	383.4	396.8	409.1	420.6	431.2	440.6	448.7	456.1	462.0	467.3	471.4
32.5°	395.1	408.5	421.2	432.6	442.9	452.5	460.8	468.4	474.4	479.2	483.3
30°	405.8	419.3	432.0	443.5	453.8	463.3	471.7	479.0	485.0	489.2	493.6
27.5°	415.1	429.0	441.8	453.2	463.6	472.8	480.7	487.4	494.4	499.5	503.4
25°	423.8	438.1	450.5	461.9	471.6	480.7	488.8	496.4	502.3	509.0	512.9
22.5°	431.5	445.6	458.1	468.7	478.7	488.2	496.4	504.2	510.4	517.2	520.5
20°	437.8	452.0	464.3	474.8	485.7	494.8	503.4	510.4	517.1	523.3	526.7
17.5°	442.9	457.2	468.8	481.2	491.4	500.2	508.0	515.6	523.2	527.9	533.2
15°	447.4	461.0	473.2	485.5	495.2	503.9	512.5	520.7	527.1	532.7	537.3
12.5°	451.0	464.0	477.6	489.3	499.1	507.4	516.3	524.1	531.2	536.9	541.4
10°	452.9	466.3	480.4	491.6	500.8	511.0	519.5	527.5	534.1	539.8	544.3
7.5°	454.2	468.5	482.1	493.8	502.8	513.3	521.6	529.9	536.9	541.1	546.0
5°	455.2	469.8	483.0	494.9	504.6	514.3	522.9	531.0	537.1	543.1	545.9
2.5°	455.4	470.1	483.1	494.4	505.5	514.3	523.1	531.2	537.3	542.6	547.1
0°	454.5	469.3	482.2	493.4	505.3	513.5	522.3	530.2	536.9	542.0	547.3
-2.5°	453.0	467.7	480.4	492.2	503.6	512.1	520.4	528.2	534.5	539.6	544.3
-5°	450.5	465.1	477.9	490.3	500.6	510.0	518.0	525.4	530.9	537.1	540.6
-7.5°	446.8	461.6	475.0	486.9	496.6	506.6	514.7	522.0	527.1	532.7	537.8
-10°	442.9	457.7	470.6	482.2	492.5	502.3	509.9	516.0	522.3	527.7	533.3
-12.5°	439.1	452.6	464.8	474.9	487.3	496.8	504.8	512.4	518.1	522.9	527.2
-15°	433.4	445.9	458.8	471.0	481.0	490.9	499.2	506.7	512.9	517.6	520.8
-17.5°	425.8	439.2	452.7	462.5	472.1	483.3	492.1	499.3	506.2	511.4	515.5
-20°	417.5	432.4	443.5	455.9	465.9	474.3	483.7	491.3	497.5	503.0	508.2



REPORT NUMBER: P670540 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL15DBZ-15W-2700K

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	409.4	422.7	435.6	446.5	457.2	466.8	474.3	482.2	488.3	493.5	497.9
-25°	399.6	413.0	426.4	436.9	447.0	456.9	465.0	471.7	479.7	483.2	487.7
-27.5°	388.4	402.7	414.7	427.0	436.2	444.9	453.9	461.2	467.7	472.5	478.0
-30°	376.7	390.6	403.5	414.1	424.9	433.1	441.1	447.7	455.5	460.4	464.8
-32.5°	364.1	376.9	389.8	401.5	411.1	420.5	428.1	434.8	440.8	445.7	450.3
-35°	349.8	363.4	375.0	386.0	396.8	406.5	413.5	420.8	426.5	431.1	435.6
-37.5°	335.0	347.6	359.9	370.6	379.5	389.4	397.9	405.4	410.1	415.3	419.5
-40°	318.3	331.0	342.8	353.5	364.1	371.6	378.9	386.5	392.8	398.0	402.0
-42.5°	300.3	312.5	324.0	335.2	344.7	353.1	361.7	367.7	373.2	378.0	382.1
-45°	282.2	293.0	303.7	314.0	323.4	332.8	340.4	346.6	352.1	357.2	361.1
-47.5°	261.9	273.6	283.2	292.2	300.8	309.1	317.0	323.8	329.6	334.1	337.5
-50°	239.0	251.0	261.5	270.8	278.6	285.7	292.4	299.0	304.6	309.4	313.0
-52.5°	214.3	224.8	236.0	245.8	254.3	261.6	268.1	273.7	278.7	282.7	286.1
-55°	188.3	198.1	207.4	216.1	224.8	233.3	239.7	245.2	249.7	253.5	256.4
-57.5°	156.9	167.2	177.6	186.1	193.1	199.5	205.7	211.2	216.1	220.0	222.9
-60°	125.7	133.4	141.4	149.4	156.9	163.4	169.1	173.0	176.5	179.5	181.9
-62.5°	96.3	100.6	106.1	111.6	116.8	121.7	126.0	129.6	132.4	134.4	135.4
-65°	70.7	73.0	75.5	77.8	80.6	82.8	85.6	87.5	88.6	89.2	89.0
-67.5°	50.8	50.6	50.8	51.1	52.2	53.0	53.3	53.5	53.0	51.9	50.5
-70°	34.5	34.7	34.2	33.7	33.7	33.1	32.1	30.7	29.4	27.5	25.2
-72.5°	21.7	22.0	21.7	21.3	21.1	20.8	20.3	19.4	18.1	16.6	14.9
-75°	12.3	12.4	12.2	12.4	12.5	12.4	12.0	11.6	10.9	10.0	9.0
-77.5°	5.6	5.6	5.4	5.5	5.8	6.0	6.0	5.8	5.6	5.2	4.7
-80°	3.0	2.9	2.7	2.6	2.5	2.4	2.4	2.3	2.1	2.0	1.9
-82.5°	2.0	2.0	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.2	1.1
-85°	1.5	1.5	1.5	1.5	1.4	1.3	1.2	1.1	1.0	0.9	0.8
-87.5°	1.3	1.4	1.4	1.3	1.2	1.2	1.1	1.0	0.9	0.8	0.7
-90°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8



REPORT NUMBER: P670540 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL15DBZ-15W-2700K

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	0.7	0.6	0.6	0.5	0.6	0.6	0.7	0.7	0.8	0.8	0.9
87.5°	1.8	1.8	1.8	1.8	1.8	1.9	1.9	2.0	2.0	2.0	2.1
85°	5.0	5.0	4.9	4.8	5.0	5.2	5.4	5.5	5.6	5.7	5.8
82.5°	13.6	13.5	13.2	13.0	13.5	13.9	14.3	14.6	14.8	14.9	15.0
80°	26.6	26.4	26.2	25.8	26.7	27.5	28.2	28.7	29.1	29.4	29.5
77.5°	47.2	47.6	47.7	47.6	48.8	49.8	50.5	51.0	51.3	51.3	51.1
75°	75.3	75.8	75.9	75.7	76.9	77.7	78.1	78.2	77.9	77.3	76.3
72.5°	108.5	109.1	109.2	108.9	109.7	110.1	110.0	109.5	108.6	107.2	105.5
70°	142.8	143.6	143.9	143.6	144.3	144.5	144.1	143.2	141.8	139.8	137.3
67.5°	176.3	177.7	178.5	178.7	179.1	178.9	178.1	176.8	174.9	172.5	169.4
65°	209.6	211.3	212.4	212.7	213.0	212.7	211.6	209.9	207.6	204.6	200.9
62.5°	241.1	242.4	243.0	242.9	243.7	243.8	243.1	241.8	239.6	236.6	232.8
60°	273.1	274.8	275.9	276.1	276.6	276.2	275.1	273.2	270.6	267.3	263.3
57.5°	302.8	305.1	306.7	307.6	307.4	306.5	304.9	302.5	299.2	295.3	291.0
55°	328.4	330.7	332.5	333.5	333.1	332.0	330.3	327.8	324.7	320.7	316.0
52.5°	349.9	352.1	353.6	354.4	354.2	353.2	351.4	348.9	345.9	342.2	337.7
50°	371.6	373.9	375.4	376.1	376.1	375.2	373.5	370.9	367.4	363.3	358.4
47.5°	392.2	394.4	395.8	396.4	396.3	395.4	393.7	391.1	387.9	384.1	379.7
45°	412.0	414.8	416.8	417.8	417.2	415.7	413.5	410.6	407.0	402.8	397.7
42.5°	430.3	432.8	434.6	435.5	434.9	433.5	431.3	428.5	425.0	420.1	414.6
40°	445.6	447.8	449.3	450.0	449.8	448.8	447.1	444.6	441.1	436.4	430.8
37.5°	461.4	464.0	465.8	466.8	466.5	465.6	463.8	460.4	456.0	451.2	446.2
35°	474.4	476.4	477.5	478.0	478.1	477.6	476.4	473.9	469.8	466.6	460.6
32.5°	486.4	488.8	490.5	491.6	491.1	489.8	488.0	485.5	482.2	478.3	472.6
30°	497.3	499.9	501.8	502.9	502.3	501.0	499.2	496.2	492.2	488.1	483.2
27.5°	507.4	510.2	512.1	513.2	512.5	511.0	509.0	506.0	501.9	498.4	491.3
25°	516.9	518.9	520.2	520.9	520.6	519.6	517.7	514.9	511.2	506.2	499.8
22.5°	524.0	526.9	527.9	528.7	528.4	527.5	525.5	522.7	518.9	513.4	507.3
20°	530.3	533.4	535.5	536.8	536.1	534.0	531.2	529.6	525.7	520.2	514.0
17.5°	535.6	538.7	540.6	541.6	540.9	539.6	538.0	535.6	530.4	526.4	519.5
15°	541.2	543.5	544.5	545.0	545.0	544.2	541.5	538.7	535.2	530.6	525.1
12.5°	545.1	547.4	548.4	548.4	548.3	547.3	546.3	542.8	538.2	533.3	529.3
10°	547.9	550.7	552.3	552.6	552.8	551.3	548.1	545.3	541.8	536.0	531.0
7.5°	549.2	552.1	552.5	552.9	553.0	552.9	551.0	546.2	542.7	538.7	531.7
5°	550.0	551.2	553.3	555.3	553.7	553.0	551.5	548.3	544.3	539.8	533.4
2.5°	550.1	552.1	553.7	553.8	553.1	552.8	551.2	548.8	544.7	540.0	533.8
0°	549.8	550.7	551.6	553.5	553.3	552.5	550.8	547.3	544.7	539.9	533.3
-2.5°	548.2	550.6	552.0	552.8	552.6	552.8	550.6	546.7	543.3	537.7	531.5
-5°	545.7	547.6	548.9	550.3	550.5	550.6	547.5	544.8	540.7	534.3	529.0
-7.5°	541.8	544.7	545.7	546.0	547.0	546.4	544.5	541.9	536.3	530.7	525.1
-10°	537.8	541.4	542.5	542.6	542.9	542.2	540.2	536.1	531.1	526.7	520.9
-12.5°	531.7	534.8	536.9	537.3	537.6	536.1	533.3	530.3	525.8	521.0	514.9
-15°	525.2	527.8	530.1	531.0	530.7	529.4	526.9	522.5	519.4	514.3	509.7
-17.5°	518.0	520.4	522.6	523.5	522.9	521.1	519.1	515.7	512.0	508.0	502.5
-20°	510.9	513.1	514.6	515.0	514.7	513.3	511.0	507.8	504.8	499.9	494.3



REPORT NUMBER: P670540 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL15DBZ-15W-2700K

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	501.8	504.3	505.6	505.7	505.6	504.5	503.1	499.8	494.6	490.6	485.1
-25°	491.4	493.6	494.9	495.3	495.2	494.0	491.7	489.0	484.9	480.9	475.8
-27.5°	480.4	482.2	483.6	484.0	483.9	482.9	481.2	478.8	474.9	470.2	464.2
-30°	468.4	470.7	472.2	472.8	472.7	471.6	469.6	466.5	462.4	457.7	451.8
-32.5°	454.3	456.6	457.7	458.0	458.1	457.3	455.4	452.3	448.7	443.9	438.1
-35°	438.7	441.1	442.6	443.2	443.2	442.2	440.1	437.3	433.7	429.5	424.0
-37.5°	422.7	424.8	426.0	426.2	426.4	425.8	424.1	421.2	417.6	413.4	406.6
-40°	404.4	406.0	406.8	406.7	407.3	406.8	405.2	402.5	399.2	394.9	389.4
-42.5°	385.2	387.2	388.2	388.2	388.5	387.9	386.4	384.0	380.7	376.0	370.5
-45°	364.1	366.3	367.6	367.9	368.0	367.1	365.2	362.6	359.3	355.5	350.7
-47.5°	340.0	341.5	342.1	341.8	342.7	342.7	341.8	339.8	336.9	333.2	328.3
-50°	315.8	317.6	318.4	318.3	319.1	318.8	317.6	315.4	312.3	308.3	303.5
-52.5°	288.7	290.4	291.2	291.1	291.9	291.7	290.7	288.7	286.1	282.7	278.1
-55°	258.5	259.7	260.0	259.3	260.6	260.9	260.3	258.8	256.5	253.4	249.6
-57.5°	224.5	225.2	224.9	223.7	225.6	226.5	226.4	225.5	223.4	220.6	216.8
-60°	183.5	184.2	183.8	182.1	184.6	185.9	186.1	185.3	183.8	181.8	179.3
-62.5°	135.4	134.4	132.3	129.1	133.4	136.5	138.8	140.1	140.6	140.4	139.5
-65°	87.9	86.0	83.2	79.5	84.8	89.1	92.6	95.3	97.2	98.4	99.3
-67.5°	48.6	46.1	43.0	39.2	44.8	49.6	53.9	57.5	60.6	63.5	65.8
-70°	22.5	19.4	16.0	12.5	17.6	22.5	27.1	31.3	34.9	38.0	40.4
-72.5°	13.0	10.9	8.6	6.3	9.5	12.5	15.4	18.1	20.4	22.4	24.0
-75°	7.8	6.5	5.2	3.8	5.5	7.2	8.7	10.2	11.4	12.4	13.2
-77.5°	4.2	3.6	3.0	2.3	3.0	3.8	4.4	5.0	5.5	5.8	6.2
-80°	1.7	1.6	1.4	1.2	1.4	1.7	1.9	2.1	2.3	2.5	2.6
-82.5°	1.0	0.8	0.7	0.6	0.7	0.9	1.0	1.1	1.3	1.4	1.5
-85°	0.7	0.6	0.5	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1
-87.5°	0.7	0.6	0.5	0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9
-90°	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9



REPORT NUMBER: P670540 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL15DBZ-15W-2700K

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	0.9	1.0	1.0	1.1	1.1	1.0	1.0	0.9	0.9	0.8	0.8
87.5°	2.1	2.1	2.1	2.1	2.1	2.0	2.0	1.9	1.8	1.7	1.6
85°	5.8	5.8	5.8	5.7	5.6	5.2	4.8	4.5	4.2	3.9	3.6
82.5°	14.9	14.8	14.7	14.4	14.0	13.1	12.1	11.2	10.4	9.6	8.8
80°	29.5	29.3	28.9	28.3	27.4	25.7	23.8	22.1	20.5	18.8	17.0
77.5°	50.6	49.8	48.7	47.3	45.4	42.4	39.3	36.4	34.0	31.5	28.8
75°	74.9	73.6	72.1	70.4	67.8	63.7	59.5	55.1	50.7	46.2	41.9
72.5°	103.4	100.9	98.4	95.8	92.1	86.6	80.7	74.9	69.0	63.1	57.6
70°	134.3	130.9	127.1	123.0	117.8	111.5	104.5	97.5	90.6	83.2	75.4
67.5°	165.8	161.8	157.3	152.2	145.4	137.8	130.3	122.5	114.2	104.7	95.2
65°	196.6	191.7	186.7	181.4	173.8	165.3	156.4	146.9	137.0	127.8	117.9
62.5°	228.0	222.3	215.9	209.0	200.8	192.0	183.4	173.0	161.7	149.9	138.0
60°	258.6	253.2	247.0	238.9	229.0	218.5	208.4	197.7	186.7	174.4	160.6
57.5°	286.5	281.3	274.9	266.5	256.6	245.9	234.3	221.8	209.6	197.0	183.8
55°	310.6	304.7	297.9	290.0	281.1	270.2	258.6	246.0	232.6	218.2	204.5
52.5°	332.3	326.2	319.3	310.9	301.5	291.1	280.5	267.6	254.1	239.5	224.1
50°	352.2	346.0	338.8	330.1	320.9	310.6	299.3	287.0	273.7	258.9	243.3
47.5°	373.2	365.9	357.9	348.2	338.9	328.4	317.1	304.8	291.2	276.9	260.7
45°	391.9	385.5	377.4	366.9	357.0	345.2	333.6	321.2	307.7	292.9	277.2
42.5°	409.0	402.3	393.6	384.6	374.2	362.5	349.5	336.5	322.7	308.1	291.9
40°	424.8	416.7	408.7	400.2	389.5	378.4	365.3	351.8	336.8	321.9	305.8
37.5°	439.4	431.4	422.7	413.4	403.7	392.2	379.9	365.7	351.1	334.7	318.5
35°	452.9	445.1	435.9	426.4	416.1	404.8	392.7	379.1	364.0	347.5	330.1
32.5°	466.1	457.4	448.2	438.2	428.1	416.4	404.0	390.7	375.8	360.1	340.5
30°	476.7	468.3	459.7	449.4	438.2	427.5	414.9	401.6	386.5	369.4	351.6
27.5°	485.3	478.3	469.3	459.3	448.4	436.1	424.1	410.9	396.5	378.5	359.8
25°	492.9	486.3	477.8	468.2	456.8	445.2	432.2	417.6	402.7	386.2	367.5
22.5°	500.2	492.5	485.3	475.7	465.4	452.8	439.1	426.2	410.8	394.0	374.6
20°	506.4	498.9	489.8	481.8	471.4	459.0	446.1	431.3	415.2	399.0	380.4
17.5°	512.6	503.9	495.8	485.8	476.1	464.9	451.1	436.6	421.9	404.7	385.7
15°	517.0	508.6	500.2	490.8	481.6	469.1	455.4	441.5	425.8	408.6	390.3
12.5°	521.5	513.5	503.2	494.4	483.4	472.3	459.7	445.0	429.2	411.4	393.6
10°	524.5	515.7	506.5	496.6	485.9	474.9	462.0	447.4	432.0	414.7	396.3
7.5°	527.1	517.9	509.6	498.4	488.3	477.5	463.7	449.0	433.9	417.0	398.2
5°	527.6	518.8	510.3	499.7	489.6	478.4	464.7	450.0	434.9	418.0	399.2
2.5°	527.3	518.7	510.5	500.2	490.1	478.1	464.9	450.3	435.0	418.1	399.2
0°	526.6	517.8	509.9	499.8	489.7	477.4	464.1	449.6	434.3	417.5	398.4
-2.5°	524.9	516.3	508.3	498.3	488.1	475.8	462.5	448.0	432.8	415.9	397.0
-5°	521.9	513.9	505.9	495.8	485.5	473.7	460.0	445.5	430.5	413.6	394.7
-7.5°	518.0	510.7	502.9	492.0	481.9	470.5	456.7	442.2	427.5	410.3	391.6
-10°	514.2	506.4	498.2	487.3	477.0	466.0	452.5	438.1	423.6	406.1	387.8
-12.5°	508.9	501.9	493.0	483.8	471.5	460.5	447.2	433.1	418.4	401.1	382.5
-15°	502.8	495.5	485.7	477.3	466.9	454.2	441.1	427.5	412.4	395.2	376.2
-17.5°	496.1	488.3	480.3	468.5	459.4	447.3	434.1	421.0	405.6	388.5	369.3
-20°	487.9	480.7	471.0	462.5	451.0	439.1	426.5	413.1	398.0	381.1	361.9



REPORT NUMBER: P670540 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL15DBZ-15W-2700K

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	479.3	471.3	463.4	452.8	442.1	429.9	418.2	404.4	388.7	371.7	353.7
-25°	468.8	461.9	452.7	443.1	432.3	421.1	408.4	395.2	379.6	362.1	344.1
-27.5°	458.0	450.2	441.6	432.2	421.9	410.2	398.0	383.5	368.2	351.9	334.4
-30°	445.4	437.8	429.7	420.5	409.6	398.4	385.5	371.9	356.6	340.2	321.9
-32.5°	432.1	424.8	416.7	406.7	396.6	385.1	372.9	358.8	343.6	327.7	309.4
-35°	417.8	409.3	401.4	392.4	381.8	371.1	358.5	344.8	330.3	312.8	296.1
-37.5°	400.4	393.4	385.8	376.3	366.8	355.6	343.0	329.8	313.9	298.9	282.4
-40°	383.3	375.8	368.7	360.0	350.0	338.4	326.2	312.0	298.6	283.1	267.3
-42.5°	364.8	358.5	350.6	341.6	331.0	319.7	307.2	295.1	281.2	266.7	250.6
-45°	345.0	338.2	329.7	320.4	310.4	300.0	288.7	276.6	263.1	248.3	232.1
-47.5°	321.9	314.6	307.1	298.7	290.1	279.6	268.8	256.3	242.9	227.9	212.3
-50°	297.8	291.7	284.8	276.7	267.9	257.8	246.3	234.0	220.5	206.6	192.3
-52.5°	272.9	267.1	260.5	252.3	242.9	232.7	221.7	209.8	197.5	184.4	169.7
-55°	244.7	239.0	232.2	224.3	215.6	206.0	196.0	184.9	172.9	159.3	144.4
-57.5°	212.3	207.2	201.8	195.2	187.1	178.1	168.2	156.9	144.8	132.7	120.3
-60°	176.4	173.0	169.1	163.7	155.7	146.7	137.1	127.7	117.8	106.9	95.3
-62.5°	137.9	135.5	132.7	129.0	122.6	115.7	108.1	99.9	91.1	82.0	72.1
-65°	99.7	99.4	98.6	97.2	92.5	86.8	80.5	73.7	66.3	59.0	52.3
-67.5°	67.4	68.5	68.8	68.3	64.9	60.2	55.3	50.5	45.8	41.4	37.0
-70°	42.3	43.4	43.6	43.5	41.7	39.0	36.2	33.4	30.4	27.8	25.4
-72.5°	25.1	25.7	26.0	25.9	25.0	23.7	22.3	20.8	19.3	17.6	15.8
-75°	13.6	13.9	14.0	13.8	13.3	12.9	12.2	11.4	10.8	9.9	8.9
-77.5°	6.4	6.6	6.6	6.5	6.3	6.1	5.8	5.5	5.4	5.2	4.9
-80°	2.7	2.8	2.9	2.9	3.0	3.1	3.0	2.9	2.8	2.6	2.4
-82.5°	1.7	1.8	1.9	2.0	2.0	2.0	1.9	1.8	1.7	1.5	1.4
-85°	1.2	1.2	1.3	1.4	1.5	1.4	1.3	1.2	1.2	1.1	1.0
-87.5°	0.9	1.0	1.1	1.1	1.2	1.1	1.1	1.0	0.9	0.9	0.8
-90°	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.9	0.9



REPORT NUMBER: P670540 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL15DBZ-15W-2700K

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	0.7	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4
87.5°	1.6	1.5	1.4	1.3	1.3	1.2	1.1	1.0	0.9	0.9	0.8
85°	3.3	2.9	2.6	2.3	2.2	1.9	1.7	1.4	1.2	1.1	1.0
82.5°	7.9	7.1	6.3	5.4	4.5	3.9	3.1	2.4	1.8	1.5	1.2
80°	15.3	13.6	11.8	10.4	9.1	7.6	5.9	4.3	3.2	2.3	1.6
77.5°	25.9	23.0	20.4	17.6	15.1	12.4	9.6	7.3	5.3	3.7	2.5
75°	37.7	34.2	30.7	27.0	23.2	19.2	14.6	10.9	7.9	5.6	3.7
72.5°	52.0	46.7	41.5	36.6	32.3	27.0	21.1	15.8	11.3	7.8	5.2
70°	67.6	60.1	53.5	47.4	41.5	34.7	27.9	21.4	15.6	10.6	6.9
67.5°	86.4	77.1	67.6	58.6	51.3	43.0	34.7	27.2	20.3	14.2	9.1
65°	106.6	94.7	84.2	73.6	62.1	51.5	42.0	33.1	25.1	18.0	11.7
62.5°	127.4	115.7	101.8	88.7	76.2	61.6	49.5	39.4	30.0	21.8	14.7
60°	146.6	133.3	121.1	106.5	89.4	73.6	58.3	45.8	35.3	25.7	17.7
57.5°	168.6	152.3	136.8	123.7	105.3	85.3	68.6	52.8	40.7	30.0	20.7
55°	189.8	173.5	155.1	137.5	119.9	99.0	78.6	61.5	46.2	34.3	23.7
52.5°	208.7	192.8	175.0	153.3	131.7	112.3	89.8	69.6	52.6	38.6	27.0
50°	226.7	209.9	192.7	170.6	145.4	123.4	101.6	78.6	59.3	43.0	30.3
47.5°	243.9	226.2	207.6	185.8	160.8	134.6	112.7	88.1	65.7	47.9	33.7
45°	259.6	241.6	221.3	199.0	175.4	147.6	121.9	97.7	73.1	52.9	36.9
42.5°	274.6	255.7	234.7	211.7	187.2	161.1	131.1	107.1	80.5	57.8	40.0
40°	288.2	268.3	247.4	224.3	198.5	172.6	142.4	114.8	87.5	62.7	43.4
37.5°	300.6	280.6	258.6	235.8	210.0	182.3	153.7	122.1	95.4	68.3	46.8
35°	311.5	291.6	269.9	246.5	221.0	191.6	163.7	129.9	102.3	73.4	49.9
32.5°	321.4	301.6	280.1	255.7	230.6	201.4	171.2	138.8	108.2	77.9	52.8
30°	330.5	310.4	288.9	265.1	239.3	210.7	178.3	147.3	113.3	82.7	55.7
27.5°	339.2	318.3	296.8	273.5	247.0	218.9	185.3	155.0	117.7	88.0	59.1
25°	347.9	325.4	303.8	280.7	254.0	226.1	192.7	160.0	123.1	92.7	62.2
22.5°	354.5	332.1	309.9	286.8	260.7	232.2	199.4	164.4	128.7	96.2	64.7
20°	360.2	338.2	315.2	292.1	266.5	237.6	205.4	168.5	133.6	99.3	66.5
17.5°	365.3	343.8	319.8	296.5	271.6	242.0	210.5	171.9	137.9	101.9	67.9
15°	369.6	347.8	323.6	300.1	275.4	245.8	214.4	175.0	141.5	103.5	68.9
12.5°	372.9	351.0	327.0	303.0	278.3	249.0	217.5	178.3	144.4	104.6	69.9
10°	375.1	353.4	329.6	305.1	280.5	251.5	219.9	180.8	145.8	105.2	71.1
7.5°	376.6	355.0	331.3	306.6	281.9	253.2	221.4	182.6	146.3	105.4	71.8
5°	377.5	355.9	332.1	307.3	282.6	254.2	222.2	183.5	146.3	105.2	71.9
2.5°	377.5	355.8	332.1	307.2	282.6	254.3	222.2	183.6	145.7	104.4	71.5
0°	376.6	355.0	331.3	306.4	281.9	253.7	221.5	182.7	144.6	103.3	70.5
-2.5°	375.2	353.7	330.0	305.2	280.6	252.4	220.3	181.8	143.9	102.8	70.0
-5°	373.0	351.6	327.9	303.2	278.7	250.4	218.5	179.9	142.6	101.9	68.9
-7.5°	370.0	348.7	325.0	300.5	276.0	247.5	215.9	177.1	140.8	100.5	67.3
-10°	366.3	345.0	321.2	297.0	272.6	243.8	212.6	173.4	138.4	98.6	65.1
-12.5°	361.8	340.4	316.6	292.9	268.5	239.4	208.3	168.9	135.2	96.3	62.5
-15°	356.3	334.6	311.4	288.0	263.7	234.2	203.2	163.5	130.4	93.5	60.2
-17.5°	349.6	327.9	305.1	282.3	257.8	228.3	197.5	158.3	125.0	90.2	58.1
-20°	342.5	320.4	298.1	275.7	250.5	221.8	190.3	152.8	118.8	85.9	55.7



REPORT NUMBER: P670540 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL15DBZ-15W-2700K

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	334.2	312.5	290.7	268.2	242.4	214.4	182.2	146.7	112.2	81.0	53.1
-25°	324.2	303.6	282.5	260.1	233.6	206.4	173.0	140.3	105.0	75.7	49.7
-27.5°	313.8	293.6	273.1	250.4	224.2	197.1	162.8	133.2	98.0	69.6	45.8
-30°	303.2	283.6	262.8	239.4	214.2	186.5	153.3	123.4	91.6	63.1	41.5
-32.5°	290.8	272.2	251.7	227.6	203.5	174.6	143.9	113.0	84.6	57.5	38.3
-35°	278.7	259.6	238.3	215.4	191.4	161.2	134.0	102.6	76.6	53.1	35.3
-37.5°	264.8	245.9	224.3	202.8	177.5	148.9	121.7	93.0	68.1	47.8	32.2
-40°	250.0	230.3	210.0	188.6	161.9	136.5	108.5	83.5	59.2	41.8	29.1
-42.5°	232.9	214.2	195.1	172.6	147.0	122.5	95.9	73.3	53.1	37.1	25.9
-45°	214.9	197.9	178.3	154.5	132.1	106.9	84.1	62.8	46.5	33.0	22.6
-47.5°	196.7	179.4	159.1	137.8	114.8	92.4	72.1	54.0	39.0	28.9	19.4
-50°	176.4	158.2	139.9	119.4	98.0	78.4	60.2	46.3	34.2	24.8	16.1
-52.5°	153.1	136.9	119.4	100.3	81.7	64.8	50.8	38.0	29.2	20.7	13.3
-55°	130.3	114.7	98.3	82.1	66.4	53.0	41.6	32.5	24.2	16.7	10.6
-57.5°	106.4	92.7	78.3	65.0	53.3	43.2	34.2	26.6	19.4	13.2	8.5
-60°	83.9	71.8	60.7	51.2	42.5	34.5	27.7	21.0	14.9	10.1	6.6
-62.5°	62.6	54.0	46.7	39.3	33.5	27.4	21.3	15.8	11.2	7.7	4.7
-65°	46.1	40.3	34.3	30.5	25.5	20.3	15.5	11.4	8.3	5.5	3.3
-67.5°	32.4	29.2	25.6	21.8	18.0	14.1	10.7	8.2	5.7	3.7	2.3
-70°	22.7	19.9	17.0	14.4	11.8	9.3	7.5	5.3	3.6	2.3	1.6
-72.5°	14.1	12.3	10.5	8.8	7.7	6.1	4.2	3.1	2.2	1.5	1.1
-75°	7.8	7.1	6.4	5.3	3.9	3.1	2.3	1.8	1.4	1.1	0.9
-77.5°	4.3	3.6	3.1	2.6	2.1	1.6	1.4	1.2	1.0	0.8	0.7
-80°	2.1	1.9	1.6	1.4	1.2	1.1	1.0	0.8	0.7	0.6	0.5
-82.5°	1.3	1.2	1.1	1.0	0.9	0.7	0.6	0.6	0.5	0.5	0.5
-85°	0.9	0.8	0.7	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.4
-87.5°	0.7	0.7	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4
-90°	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.7

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

Scaled Data Report



REPORT NUMBER: P670540 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: ARFL15DBZ-15W-2700K

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°	0.7	0.7	0.6	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°	1.0	0.9	0.7	0.6	0.6	0.5	0.5
80°	1.3	1.0	0.8	0.7	0.6	0.5	0.5
77.5°	1.7	1.2	0.9	0.7	0.6	0.5	0.5
75°	2.3	1.5	1.0	0.7	0.6	0.5	0.5
72.5°	3.3	1.9	1.2	0.8	0.6	0.5	0.5
70°	4.3	2.5	1.4	0.9	0.6	0.5	0.5
67.5°	5.6	3.2	1.7	1.0	0.6	0.5	0.5
65°	7.1	4.0	2.1	1.1	0.7	0.5	0.5
62.5°	8.7	4.9	2.5	1.2	0.7	0.5	0.5
60°	10.9	5.9	2.9	1.4	0.8	0.6	0.5
57.5°	13.1	7.0	3.5	1.5	0.8	0.6	0.5
55°	15.2	8.3	4.0	1.7	0.8	0.6	0.5
52.5°	17.3	9.8	4.6	1.9	0.9	0.6	0.5
50°	19.5	11.3	5.3	2.1	0.9	0.6	0.5
47.5°	21.7	12.6	5.8	2.3	0.9	0.6	0.5
45°	24.1	13.9	6.5	2.6	1.0	0.6	0.5
42.5°	26.2	15.2	7.4	2.8	1.0	0.6	0.5
40°	28.6	16.6	8.2	3.1	1.0	0.6	0.5
37.5°	30.8	17.9	8.9	3.3	1.1	0.6	0.5
35°	32.8	19.2	9.6	3.5	1.1	0.6	0.5
32.5°	34.7	20.4	10.2	3.7	1.1	0.6	0.5
30°	36.4	21.5	10.6	3.9	1.2	0.6	0.5
27.5°	38.1	22.6	11.0	4.0	1.2	0.6	0.5
25°	39.6	23.6	11.4	4.1	1.2	0.6	0.5
22.5°	40.8	24.5	11.9	4.2	1.2	0.6	0.5
20°	41.9	25.3	12.3	4.3	1.2	0.6	0.5
17.5°	42.8	25.8	12.5	4.5	1.2	0.6	0.5
15°	43.4	26.3	12.7	4.6	1.1	0.6	0.5
12.5°	43.8	26.5	12.8	4.7	1.1	0.6	0.5
10°	43.9	26.6	12.8	4.7	1.1	0.6	0.5
7.5°	43.8	26.6	12.7	4.6	1.0	0.6	0.5
5°	43.4	26.4	12.6	4.6	1.0	0.6	0.5
2.5°	42.8	26.0	12.3	4.5	0.9	0.6	0.5
0°	42.0	25.6	12.0	4.3	0.9	0.6	0.5
-2.5°	41.8	25.4	11.9	4.3	0.9	0.5	0.5
-5°	41.3	25.1	11.8	4.2	0.9	0.5	0.5
-7.5°	40.7	24.7	11.6	4.1	0.9	0.5	0.5
-10°	39.9	24.1	11.3	4.0	0.9	0.5	0.5
-12.5°	38.8	23.4	10.9	3.8	0.9	0.5	0.5
-15°	37.6	22.6	10.5	3.6	0.9	0.5	0.5
-17.5°	36.2	21.6	10.0	3.3	0.9	0.5	0.5
-20°	34.6	20.5	9.4	3.1	0.8	0.5	0.5

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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	32.9	19.3	8.8	2.9	0.8	0.5	0.5
-25°	31.2	18.0	8.1	2.7	0.8	0.5	0.5
-27.5°	29.3	16.5	7.5	2.5	0.8	0.5	0.5
-30°	27.3	15.2	7.0	2.4	0.8	0.5	0.5
-32.5°	25.2	13.8	6.4	2.2	0.8	0.5	0.5
-35°	22.9	12.4	5.7	2.0	0.7	0.5	0.5
-37.5°	20.6	11.0	5.1	1.8	0.7	0.5	0.5
-40°	18.2	9.7	4.4	1.6	0.7	0.5	0.5
-42.5°	15.7	8.4	3.7	1.4	0.7	0.5	0.5
-45°	13.6	7.2	3.0	1.2	0.7	0.5	0.5
-47.5°	11.4	6.2	2.6	1.0	0.6	0.5	0.5
-50°	9.6	5.1	2.2	0.9	0.6	0.5	0.5
-52.5°	7.9	4.1	1.8	0.8	0.6	0.5	0.5
-55°	6.4	3.1	1.5	0.8	0.6	0.5	0.5
-57.5°	4.9	2.4	1.2	0.7	0.6	0.5	0.5
-60°	3.7	1.9	1.0	0.7	0.5	0.5	0.5
-62.5°	2.6	1.5	0.9	0.6	0.5	0.5	0.5
-65°	2.0	1.2	0.8	0.6	0.5	0.5	0.5
-67.5°	1.5	0.9	0.7	0.6	0.5	0.5	0.5
-70°	1.0	0.8	0.6	0.5	0.5	0.5	0.5
-72.5°	0.9	0.7	0.6	0.5	0.5	0.5	0.5
-75°	0.7	0.6	0.5	0.5	0.5	0.5	0.5
-77.5°	0.6	0.5	0.5	0.5	0.5	0.5	0.5
-80°	0.5	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	0.6	0.6	0.6	0.6	0.5	0.5

(END OF REPORT)