

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: P670544 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: ARFL15DBZ-15W-5000K

Issue Date: 3/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P670544 (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-5000K
Description: SLIM WALL OR FLOODLIGHT
Light Source: 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

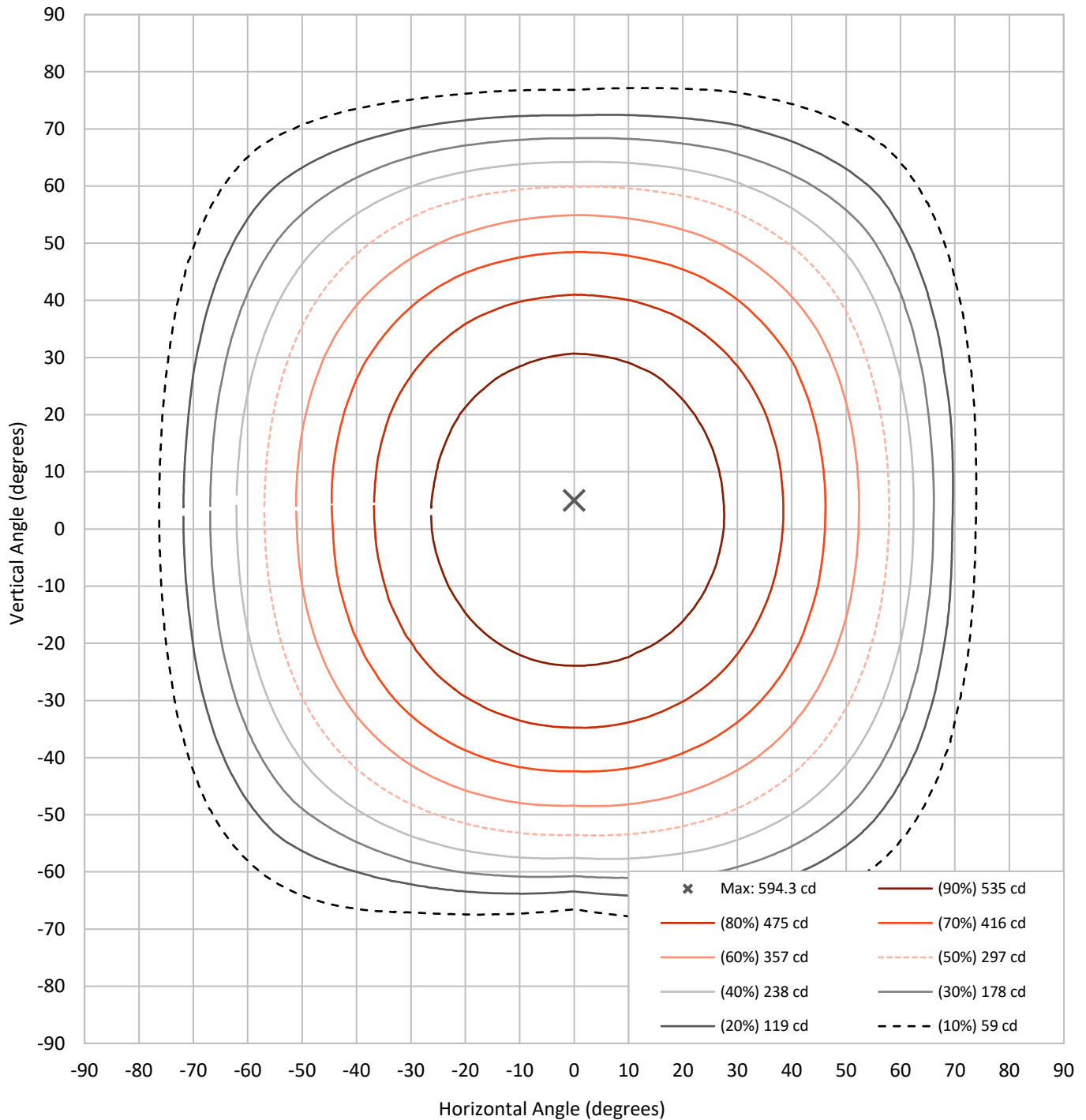
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	1649.9 lumens	Max Intensity:	594.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 5°V
Efficacy:	116.2 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:	1321.8 lumens	Field Lumens:	1625.2 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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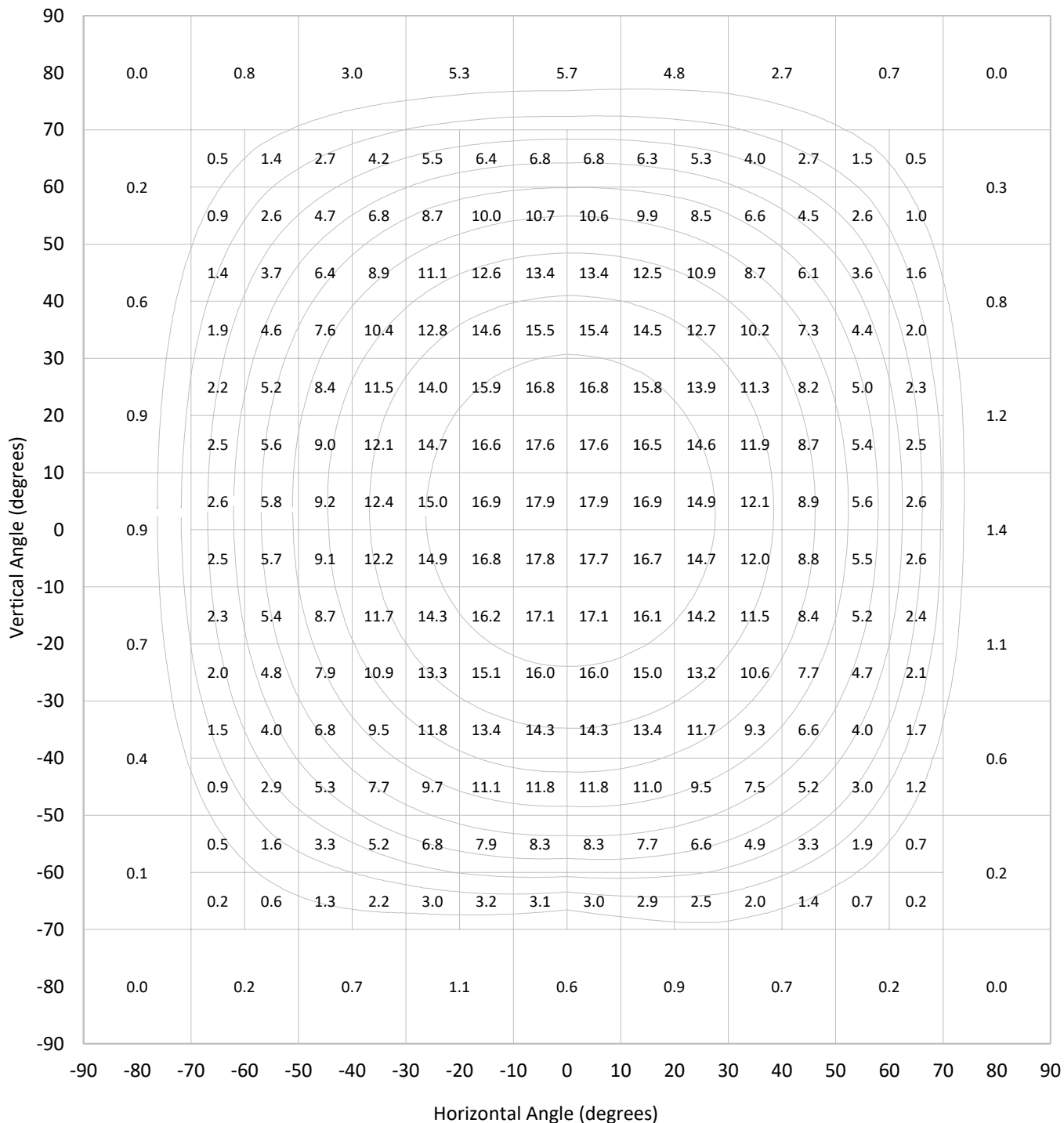
Iso-Candela Plot





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Lumen Table



Classified

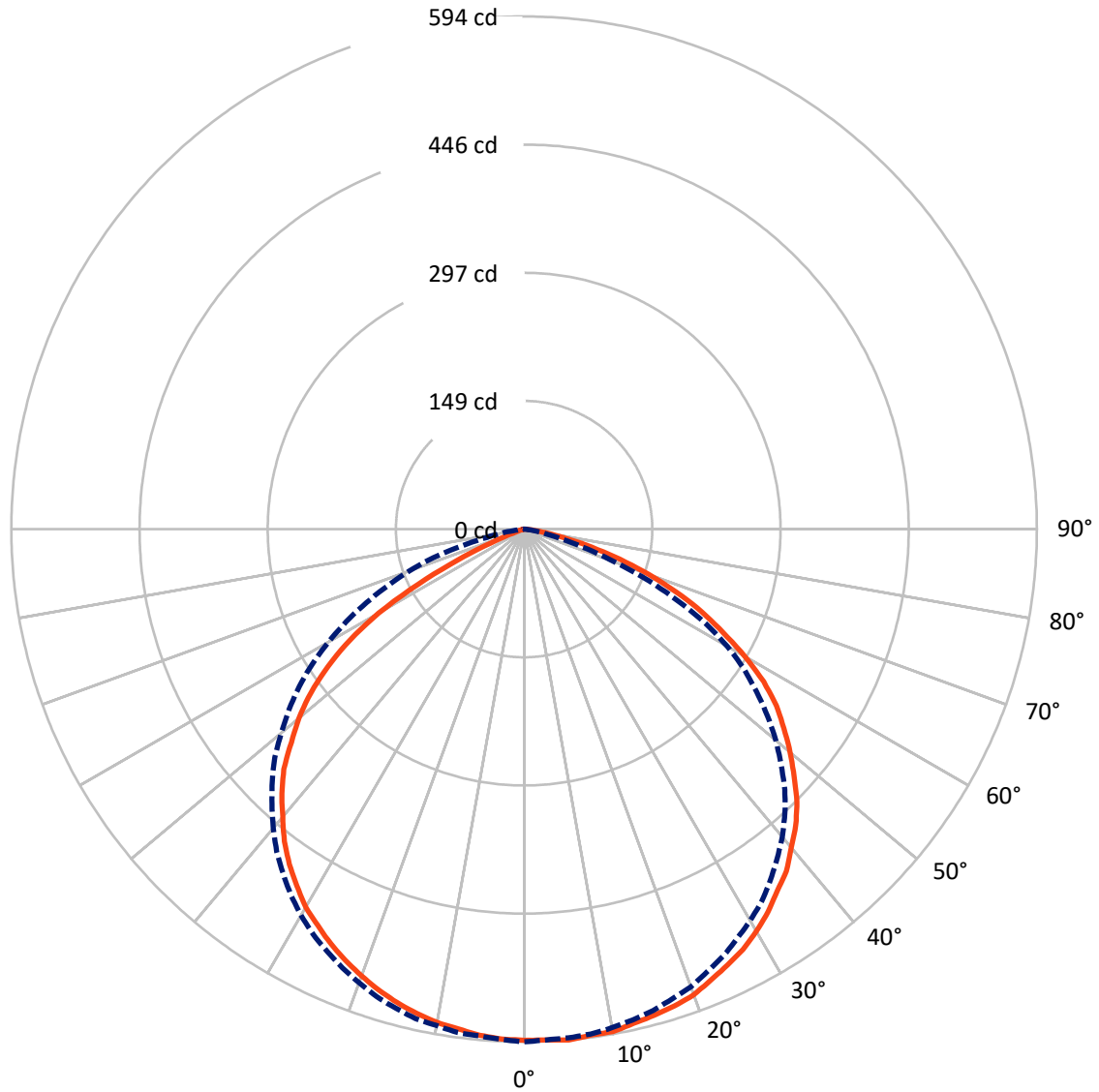
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Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
H Angle: 114.9°
V Angle: 113.4°
Lumens: 1321.8
Efficiency: 80.1%

Field:
H Angle: 150.2°
V Angle: 143.3°
Lumens: 1625.2
Efficiency: 98.5%

Spill:
Lumens: 24.7
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	1.1	1.2	1.2	1.3	1.4	1.4
85°	1.0	1.0	1.0	1.1	1.1	1.2	1.3	1.4	1.6	1.7	1.9
82.5°	1.0	1.0	1.1	1.1	1.2	1.3	1.5	1.7	2.0	2.3	2.7
80°	1.0	1.0	1.1	1.2	1.3	1.5	1.7	2.1	2.7	3.4	4.6
77.5°	1.0	1.0	1.1	1.2	1.4	1.7	2.1	2.8	4.0	5.7	7.6
75°	1.0	1.0	1.1	1.2	1.5	2.0	2.7	4.2	6.1	8.1	11.0
72.5°	1.0	1.0	1.1	1.3	1.6	2.4	3.8	5.8	8.0	11.9	16.6
70°	1.0	1.0	1.1	1.4	1.9	3.0	5.0	7.3	11.5	17.0	22.8
67.5°	1.0	1.0	1.1	1.5	2.2	3.9	6.2	10.2	16.1	22.4	28.9
65°	1.0	1.0	1.2	1.6	2.6	4.7	8.0	13.7	20.8	27.9	36.6
62.5°	1.0	1.0	1.2	1.7	3.2	5.6	10.4	18.0	25.1	34.6	45.7
60°	1.0	1.0	1.2	1.9	3.7	6.9	13.6	21.4	30.9	42.1	55.7
57.5°	1.0	1.0	1.3	2.0	4.3	8.7	17.0	25.5	37.0	50.3	66.5
55°	1.0	1.0	1.3	2.3	4.9	10.7	19.7	30.5	43.4	59.0	78.2
52.5°	1.0	1.1	1.3	2.6	5.6	13.3	22.5	35.5	49.9	68.5	88.7
50°	1.0	1.1	1.4	2.9	6.8	15.9	26.5	40.4	56.9	78.1	99.2
47.5°	1.0	1.1	1.5	3.2	7.9	17.8	30.5	45.3	64.4	87.1	109.9
45°	1.0	1.1	1.5	3.5	9.1	19.7	34.1	50.3	72.3	95.8	120.0
42.5°	1.0	1.1	1.5	3.8	10.9	22.0	37.6	55.4	79.8	104.6	129.2
40°	1.0	1.1	1.6	4.1	12.5	25.0	41.0	61.0	86.8	113.5	137.2
37.5°	1.0	1.1	1.6	4.3	14.1	27.7	44.2	66.8	93.4	121.2	145.6
35°	1.0	1.1	1.7	4.8	15.4	30.2	47.5	72.3	100.0	128.1	153.4
32.5°	1.0	1.1	1.8	5.4	16.4	32.4	50.6	77.6	106.9	134.1	160.3
30°	1.0	1.1	1.9	5.9	17.3	34.3	53.4	82.4	113.0	140.1	166.3
27.5°	1.0	1.1	1.9	6.3	18.2	36.1	56.9	86.6	118.2	146.0	171.8
25°	1.0	1.1	2.0	6.7	19.2	37.8	60.1	90.4	123.0	150.9	177.8
22.5°	1.0	1.1	2.0	7.1	20.6	39.2	63.0	94.1	126.7	155.2	183.1
20°	1.0	1.1	2.1	7.5	21.8	40.5	65.6	98.0	129.9	159.0	187.7
17.5°	1.0	1.1	2.1	8.0	22.9	41.5	68.1	101.5	132.8	162.0	191.6
15°	1.0	1.1	2.1	8.5	23.9	42.4	70.2	104.5	135.6	164.5	194.9
12.5°	1.0	1.1	2.1	8.8	24.7	43.2	71.9	106.8	137.9	166.4	197.5
10°	1.0	1.1	2.1	9.1	25.3	43.7	73.2	108.4	139.7	168.3	199.4
7.5°	1.0	1.1	2.1	9.3	25.8	44.1	74.1	109.6	141.0	169.7	200.8
5°	1.0	1.1	2.1	9.4	26.0	44.2	74.7	110.3	141.7	170.6	201.6
2.5°	1.0	1.1	2.0	9.4	26.2	44.1	74.8	110.5	142.0	170.8	201.7
0°	1.0	1.1	2.0	9.4	26.1	43.8	74.5	110.3	141.7	170.5	201.3
-2.5°	1.0	1.1	2.0	9.3	25.8	43.4	73.8	109.4	140.7	169.5	200.3
-5°	1.0	1.1	2.0	9.1	25.4	42.8	72.7	108.0	139.2	167.9	198.6
-7.5°	1.0	1.0	2.0	8.8	24.7	42.0	71.1	106.1	137.2	165.7	196.4
-10°	1.0	1.0	2.0	8.4	23.9	41.1	69.2	103.8	134.6	162.9	193.5
-12.5°	1.0	1.0	1.9	8.0	23.0	39.9	66.9	101.1	131.6	159.7	190.1
-15°	1.0	1.0	1.9	7.5	21.9	38.6	64.1	97.6	128.0	156.4	186.0
-17.5°	1.0	1.0	1.8	7.0	20.6	37.2	61.0	93.4	124.0	152.5	181.3
-20°	1.0	1.0	1.8	6.3	19.3	35.8	57.6	88.8	119.9	148.2	176.0

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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	1.7	5.8	17.7	34.2	54.2	83.7	115.5	143.0	170.0
-25°	1.0	1.0	1.7	5.4	16.1	32.5	50.7	78.8	110.7	137.2	163.2
-27.5°	1.0	1.0	1.6	5.0	14.9	30.7	46.9	74.0	104.6	130.8	155.9
-30°	1.0	1.0	1.5	4.5	13.9	28.7	43.1	68.9	97.9	123.6	148.9
-32.5°	1.0	1.0	1.5	4.0	12.8	26.5	40.2	63.0	90.4	116.3	141.3
-35°	1.0	1.0	1.4	3.5	11.7	24.2	37.0	56.6	82.2	109.3	132.7
-37.5°	1.0	1.0	1.3	3.0	10.5	21.7	33.9	50.5	74.3	101.0	123.3
-40°	1.0	1.0	1.3	2.8	9.0	18.8	31.1	44.8	67.0	91.5	113.5
-42.5°	1.0	1.0	1.3	2.6	7.5	15.8	28.1	39.6	58.8	81.0	104.6
-45°	1.0	1.0	1.2	2.3	5.9	13.5	24.9	35.2	50.1	71.0	93.6
-47.5°	1.0	1.0	1.2	2.1	4.9	11.8	21.5	31.2	43.1	61.5	81.4
-50°	1.0	1.0	1.2	1.9	4.1	10.0	17.7	27.4	36.8	51.2	69.3
-52.5°	1.0	1.0	1.1	1.7	3.2	8.0	13.8	23.3	31.4	42.3	58.1
-55°	1.0	1.0	1.1	1.6	2.7	5.9	11.4	19.1	26.9	34.9	46.1
-57.5°	1.0	1.0	1.1	1.4	2.4	4.5	9.2	14.5	22.2	28.8	36.9
-60°	1.0	1.0	1.1	1.3	2.0	3.5	6.8	11.1	17.2	23.8	29.6
-62.5°	1.0	1.0	1.0	1.2	1.8	2.7	4.7	8.5	12.1	18.1	23.7
-65°	1.0	1.0	1.0	1.2	1.5	2.3	3.5	5.9	9.0	12.6	17.6
-67.5°	1.0	1.0	1.0	1.1	1.3	1.9	2.6	4.0	6.2	8.7	11.7
-70°	1.0	1.0	1.0	1.1	1.3	1.6	2.1	2.8	4.0	5.8	7.6
-72.5°	1.0	1.0	1.0	1.1	1.2	1.4	1.7	2.2	2.7	3.6	4.7
-75°	1.0	1.0	1.0	1.0	1.1	1.2	1.4	1.7	2.1	2.5	3.1
-77.5°	1.0	1.0	1.0	1.0	1.1	1.1	1.3	1.4	1.6	1.9	2.2
-80°	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.2	1.3	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	0.9	0.9	0.9	0.9	0.9	0.9	0.9
-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: P670544 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL15DBZ-15W-5000K

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°	1.5	1.6	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8
85°	2.1	2.4	2.5	2.6	2.8	3.0	3.3	3.5	3.6	3.8	3.9
82.5°	3.4	4.0	4.5	5.4	6.2	6.9	7.6	8.3	8.9	9.6	10.2
80°	6.1	7.9	9.0	10.1	11.3	13.0	14.7	16.3	18.0	19.6	21.0
77.5°	9.5	12.1	14.8	17.3	20.0	22.5	24.8	27.0	29.2	31.2	33.1
75°	14.8	19.3	23.1	26.3	29.3	32.5	35.6	39.7	43.4	47.1	50.4
72.5°	21.9	26.8	31.4	35.4	40.9	46.4	52.0	57.4	62.6	67.8	72.9
70°	28.5	34.7	42.1	49.4	56.7	64.4	71.9	79.2	86.1	93.1	99.8
67.5°	36.5	45.9	56.5	66.2	75.8	84.8	93.2	102.0	110.8	119.7	127.8
65°	47.1	59.3	73.3	84.8	94.2	104.8	115.1	125.2	135.0	144.4	154.1
62.5°	58.9	74.1	89.4	101.3	113.2	124.6	135.8	146.7	158.4	168.9	178.8
60°	71.8	88.3	104.1	118.3	130.8	143.0	156.0	168.3	180.0	191.8	203.3
57.5°	84.7	101.8	118.8	134.0	147.4	161.9	175.2	188.5	202.0	215.0	227.9
55°	96.6	115.3	132.7	148.8	164.5	179.2	194.1	209.1	223.5	238.5	253.3
52.5°	108.8	128.1	145.5	163.8	180.3	196.6	213.1	229.1	245.4	262.4	277.4
50°	120.6	139.7	159.3	177.6	196.0	213.9	231.4	248.9	267.2	283.0	297.7
47.5°	131.5	151.8	171.6	191.3	211.6	230.4	249.2	268.4	285.8	301.4	316.1
45°	141.2	163.0	183.5	205.3	225.9	246.1	266.7	285.6	302.4	318.4	334.5
42.5°	151.7	173.3	195.8	217.6	239.7	262.1	282.3	300.6	318.1	335.6	351.3
40°	160.9	183.5	207.3	230.5	253.8	275.6	295.8	315.2	334.0	351.3	367.6
37.5°	169.3	193.7	217.8	241.8	265.8	287.9	309.3	329.7	348.4	366.2	382.1
35°	177.4	203.2	228.5	253.8	277.4	299.9	321.5	342.6	362.1	379.4	395.1
32.5°	185.7	211.6	237.5	263.4	287.3	310.5	332.9	354.4	374.2	390.7	407.1
30°	193.3	220.2	247.1	272.7	297.3	320.6	343.3	365.0	383.6	401.8	418.6
27.5°	200.2	227.8	255.1	280.8	305.7	329.7	352.5	373.7	393.3	411.4	429.1
25°	206.1	234.1	262.1	288.4	313.5	337.8	360.8	381.0	401.1	420.2	437.2
22.5°	211.8	240.7	268.5	295.3	320.4	344.8	367.5	388.9	408.9	427.7	445.0
20°	217.2	246.5	274.0	301.0	326.6	350.8	373.1	395.0	415.4	433.6	451.2
17.5°	221.7	250.9	278.8	305.8	331.8	355.9	378.1	400.5	420.6	439.3	457.4
15°	225.0	254.6	283.0	309.8	336.0	359.9	383.2	405.4	424.7	443.0	462.0
12.5°	227.7	257.5	286.3	313.0	339.0	362.9	386.9	408.8	428.0	446.7	465.5
10°	229.8	259.8	288.8	315.6	341.2	365.2	389.3	411.2	430.7	450.4	468.3
7.5°	231.5	261.3	290.4	317.4	342.6	366.6	391.0	412.4	432.5	451.9	470.1
5°	232.5	262.0	291.3	318.3	343.2	367.2	392.0	412.8	432.6	452.3	471.0
2.5°	232.7	262.1	291.3	318.4	343.0	367.0	392.1	412.3	431.9	451.7	471.0
0°	232.2	261.4	290.7	317.6	342.0	366.0	391.2	411.0	430.5	450.3	470.0
-2.5°	231.0	260.3	289.5	316.5	340.9	364.9	389.9	409.9	429.6	449.2	468.6
-5°	229.2	258.6	287.5	314.4	339.0	363.0	387.5	408.1	428.0	447.3	466.2
-7.5°	226.6	256.0	284.7	311.6	336.2	360.1	384.2	405.3	425.6	444.5	462.9
-10°	223.2	252.8	281.2	307.8	332.7	356.4	380.2	401.6	421.2	440.8	458.2
-12.5°	219.5	248.8	276.8	303.1	328.3	351.9	375.4	397.0	415.6	434.7	452.6
-15°	215.3	244.0	271.8	298.0	323.1	346.5	369.4	391.4	409.9	428.5	446.3
-17.5°	210.3	238.5	266.0	292.2	317.2	340.2	362.4	384.0	403.4	422.3	439.8
-20°	204.3	232.2	259.3	285.1	310.5	332.9	354.9	375.9	395.6	412.9	431.0



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 CATALOG NUMBER: ARFL15DBZ-15W-5000K

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	197.5	224.8	251.8	277.1	301.8	324.7	346.5	367.2	387.1	404.8	422.2
-25°	190.3	216.8	243.5	268.7	292.8	315.9	337.2	357.6	376.2	394.3	410.3
-27.5°	182.7	208.7	234.5	259.5	282.9	306.3	326.8	347.0	365.6	383.5	400.1
-30°	174.4	199.7	224.5	249.3	271.9	294.4	315.4	335.4	354.1	370.8	387.8
-32.5°	165.4	189.7	213.6	237.8	260.7	282.3	303.9	322.5	341.1	358.2	373.8
-35°	155.6	179.6	202.8	225.8	248.7	268.9	289.7	309.4	326.9	343.9	359.7
-37.5°	146.0	168.6	190.9	212.5	234.7	255.7	274.7	294.2	311.4	328.0	343.8
-40°	135.8	157.0	178.6	199.4	220.2	241.0	259.5	277.6	295.6	310.9	326.2
-42.5°	124.6	145.0	165.6	185.6	204.9	224.6	243.6	260.0	277.3	293.7	307.8
-45°	112.6	132.8	151.8	171.2	189.5	207.0	224.7	242.2	257.5	273.7	288.6
-47.5°	101.9	119.5	138.0	155.9	173.6	189.0	204.8	221.4	237.4	251.7	266.6
-50°	88.9	106.0	123.3	140.2	156.2	170.1	184.1	199.0	214.7	229.0	242.4
-52.5°	74.9	93.0	107.6	123.9	137.8	149.9	162.7	175.7	189.4	204.0	217.0
-55°	61.7	77.5	93.8	106.7	118.8	129.9	140.4	151.8	163.3	175.5	188.3
-57.5°	48.5	62.4	76.7	90.8	99.4	109.4	118.7	127.7	136.8	147.0	157.2
-60°	37.4	47.9	60.2	72.0	82.4	89.7	97.1	104.6	111.8	118.8	126.2
-62.5°	28.9	35.6	44.4	54.5	63.3	71.5	78.2	82.5	87.9	93.1	98.2
-65°	22.3	26.6	32.0	38.0	46.1	52.8	58.9	64.1	68.0	70.1	73.0
-67.5°	15.6	19.8	23.0	27.0	31.3	36.1	41.4	45.6	49.0	51.7	53.6
-70°	9.6	12.5	15.8	18.8	21.2	24.1	26.9	29.5	32.7	34.9	36.2
-72.5°	5.8	7.3	9.1	11.1	13.6	15.7	17.2	18.7	20.1	21.4	22.4
-75°	3.6	4.2	4.9	6.1	7.1	8.4	9.4	10.8	11.7	12.4	12.8
-77.5°	2.5	2.8	3.1	3.4	3.9	4.2	4.8	5.3	5.6	5.9	5.8
-80°	1.9	2.1	2.2	2.4	2.5	2.6	2.8	2.9	3.0	3.1	3.1
-82.5°	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.0	2.0	2.1	2.1
-85°	1.2	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.5	1.6	1.6
-87.5°	0.9	0.9	1.0	1.1	1.1	1.2	1.2	1.3	1.3	1.4	1.4
-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: P670544 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL15DBZ-15W-5000K

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°	4.2	4.5	4.7	4.9	5.0	5.2	5.3	5.4	5.4	5.4	5.4
82.5°	11.0	11.9	12.6	13.1	13.6	13.9	14.2	14.4	14.6	14.7	14.7
80°	22.4	23.6	24.8	25.6	26.3	26.9	27.5	27.9	28.2	28.4	28.5
77.5°	35.3	37.5	39.4	41.1	42.8	44.4	45.7	47.0	48.1	49.1	50.0
75°	53.5	56.4	58.7	62.0	65.4	68.4	71.2	74.0	76.3	78.2	79.6
72.5°	77.9	83.1	87.9	92.4	96.7	100.8	104.9	108.3	111.1	113.3	115.0
70°	106.6	113.7	120.2	126.0	131.2	135.9	140.1	143.8	146.9	149.5	151.5
67.5°	135.7	143.3	150.8	157.9	163.5	168.6	173.2	177.2	180.8	183.9	186.6
65°	163.3	171.6	179.4	186.7	193.5	199.9	205.4	210.3	214.7	218.6	221.8
62.5°	188.6	198.4	207.3	215.9	224.0	231.3	237.7	243.4	248.4	252.5	255.7
60°	214.4	225.4	236.3	247.0	256.6	264.7	271.7	277.4	282.4	286.4	289.6
57.5°	241.0	253.9	266.9	278.4	287.8	294.6	301.2	307.3	312.5	316.9	320.9
55°	268.4	281.3	292.6	303.3	312.7	319.6	326.3	332.8	339.1	344.5	348.3
52.5°	291.0	303.6	314.6	324.5	334.6	343.4	350.0	356.7	362.6	367.3	371.3
50°	311.1	323.1	335.8	345.9	356.1	365.1	372.6	379.1	385.1	390.3	394.5
47.5°	330.3	343.1	355.5	366.7	376.8	386.3	394.2	400.9	406.9	412.0	416.4
45°	348.4	362.2	374.6	386.1	396.5	406.4	414.8	421.7	427.5	432.7	437.2
42.5°	366.3	379.8	392.1	404.1	415.3	424.9	433.1	440.2	446.6	452.2	456.9
40°	382.3	395.6	408.9	420.8	431.5	441.3	450.3	458.4	464.7	469.8	473.8
37.5°	396.7	410.9	423.9	435.9	446.8	457.7	466.7	473.9	479.4	485.4	490.1
35°	410.2	424.6	437.8	450.1	461.5	471.5	480.2	488.2	494.5	500.1	504.5
32.5°	422.9	437.2	450.8	463.0	474.0	484.3	493.1	501.3	507.7	512.8	517.1
30°	434.4	448.8	462.3	474.6	485.7	495.9	504.9	512.6	519.0	523.5	528.2
27.5°	444.3	459.1	472.9	485.0	496.2	506.0	514.4	521.6	529.2	534.5	538.8
25°	453.6	468.8	482.1	494.4	504.8	514.4	523.1	531.3	537.6	544.7	549.0
22.5°	461.7	476.9	490.3	501.7	512.3	522.5	531.3	539.6	546.3	553.6	557.1
20°	468.6	483.7	497.0	508.1	519.8	529.5	538.7	546.2	553.4	560.0	563.7
17.5°	474.1	489.3	501.7	514.9	525.9	535.4	543.6	551.9	559.9	565.0	570.7
15°	478.8	493.4	506.4	519.6	529.9	539.3	548.5	557.3	564.1	570.1	575.0
12.5°	482.7	496.6	511.2	523.6	534.1	543.0	552.6	561.0	568.5	574.6	579.5
10°	484.7	499.0	514.1	526.1	536.0	546.9	556.1	564.6	571.5	577.8	582.5
7.5°	486.1	501.4	515.9	528.4	538.1	549.4	558.2	567.2	574.7	579.1	584.4
5°	487.2	502.9	517.0	529.7	540.0	550.4	559.6	568.3	574.8	581.2	584.3
2.5°	487.3	503.1	517.0	529.2	541.0	550.5	559.9	568.5	575.0	580.7	585.5
0°	486.4	502.3	516.1	528.1	540.8	549.6	559.0	567.4	574.6	580.1	585.7
-2.5°	484.8	500.5	514.1	526.8	538.9	548.1	557.0	565.3	572.1	577.6	582.5
-5°	482.1	497.8	511.4	524.7	535.7	545.8	554.4	562.3	568.2	574.8	578.6
-7.5°	478.2	494.0	508.3	521.0	531.4	542.2	550.9	558.7	564.1	570.1	575.6
-10°	474.0	489.8	503.7	516.0	527.1	537.6	545.7	552.2	559.0	564.8	570.9
-12.5°	469.9	484.4	497.5	508.3	521.5	531.6	540.3	548.5	554.5	559.7	564.2
-15°	463.8	477.3	491.0	504.1	514.7	525.4	534.3	542.3	549.0	553.9	557.5
-17.5°	455.7	470.1	484.5	494.9	505.2	517.2	526.6	534.4	541.8	547.3	551.7
-20°	446.9	462.8	474.6	487.9	498.6	507.7	517.6	525.8	532.4	538.4	543.9



REPORT NUMBER: P670544 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL15DBZ-15W-5000K

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	438.1	452.4	466.2	477.9	489.3	499.6	507.6	516.0	522.6	528.1	532.8
-25°	427.6	442.0	456.3	467.5	478.4	489.0	497.7	504.9	513.3	517.1	522.0
-27.5°	415.6	431.0	443.8	457.0	466.8	476.1	485.8	493.5	500.5	505.7	511.5
-30°	403.1	418.0	431.8	443.2	454.8	463.5	472.0	479.2	487.4	492.7	497.4
-32.5°	389.7	403.4	417.1	429.7	440.0	450.0	458.2	465.3	471.7	477.0	481.9
-35°	374.4	388.9	401.3	413.1	424.6	435.0	442.6	450.4	456.4	461.4	466.1
-37.5°	358.5	372.0	385.2	396.6	406.2	416.7	425.8	433.8	438.9	444.5	448.9
-40°	340.7	354.2	366.9	378.4	389.7	397.6	405.6	413.7	420.4	425.9	430.3
-42.5°	321.4	334.5	346.7	358.7	368.9	378.0	387.2	393.5	399.4	404.5	408.9
-45°	302.0	313.6	325.1	336.1	346.1	356.1	364.3	371.0	376.8	382.3	386.5
-47.5°	280.3	292.8	303.2	312.7	322.0	330.9	339.2	346.5	352.7	357.5	361.2
-50°	255.8	268.6	279.8	289.8	298.2	305.7	313.0	320.0	326.1	331.1	335.0
-52.5°	229.4	240.6	252.5	263.1	272.2	280.0	286.9	292.9	298.3	302.6	306.2
-55°	201.5	212.0	222.0	231.3	240.5	249.6	256.5	262.5	267.3	271.3	274.4
-57.5°	167.9	178.9	190.1	199.2	206.6	213.6	220.1	226.0	231.2	235.4	238.5
-60°	134.5	142.7	151.3	159.9	167.9	174.9	181.0	185.2	188.9	192.1	194.7
-62.5°	103.1	107.7	113.5	119.3	125.0	130.2	134.8	138.7	141.7	143.8	144.8
-65°	75.7	78.2	80.8	83.3	86.3	88.7	91.6	93.6	94.8	95.4	95.2
-67.5°	54.4	54.2	54.4	54.7	55.9	56.7	57.0	57.2	56.7	55.6	54.0
-70°	36.9	37.1	36.6	36.1	36.0	35.5	34.4	32.9	31.4	29.4	26.9
-72.5°	23.2	23.6	23.2	22.8	22.7	22.3	21.7	20.7	19.4	17.7	15.9
-75°	13.2	13.3	13.1	13.2	13.3	13.2	12.9	12.4	11.6	10.7	9.6
-77.5°	5.9	6.0	5.8	5.9	6.3	6.4	6.4	6.2	6.0	5.6	5.1
-80°	3.1	3.1	2.9	2.8	2.7	2.6	2.5	2.4	2.2	2.1	1.9
-82.5°	2.1	2.1	2.1	2.0	1.9	1.8	1.7	1.6	1.5	1.3	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°	1.4	1.5	1.5	1.4	1.3	1.2	1.2	1.1	1.0	0.9	0.8
-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: P670544 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL15DBZ-15W-5000K

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	2.0	2.0	2.1	2.1	2.2	2.2	2.2
85°	5.4	5.3	5.2	5.1	5.3	5.6	5.8	5.9	6.1	6.2	6.2
82.5°	14.6	14.4	14.2	13.9	14.4	14.9	15.3	15.6	15.8	16.0	16.0
80°	28.4	28.3	28.0	27.6	28.6	29.4	30.2	30.7	31.2	31.5	31.6
77.5°	50.5	50.9	51.0	50.9	52.2	53.2	54.0	54.6	54.9	54.9	54.7
75°	80.6	81.2	81.3	81.1	82.3	83.2	83.7	83.7	83.4	82.7	81.6
72.5°	116.1	116.8	116.9	116.5	117.4	117.8	117.7	117.2	116.2	114.8	112.9
70°	152.9	153.7	154.0	153.7	154.5	154.6	154.2	153.3	151.8	149.7	147.0
67.5°	188.7	190.2	191.1	191.3	191.7	191.5	190.7	189.2	187.2	184.6	181.4
65°	224.4	226.2	227.2	227.6	227.9	227.6	226.5	224.7	222.2	219.0	215.0
62.5°	258.0	259.4	260.1	260.0	260.8	260.9	260.2	258.7	256.4	253.2	249.1
60°	292.3	294.1	295.3	295.5	296.0	295.6	294.4	292.3	289.6	286.1	281.8
57.5°	324.1	326.5	328.3	329.2	329.0	328.0	326.3	323.7	320.2	316.1	311.4
55°	351.4	354.0	355.8	356.9	356.5	355.3	353.5	350.9	347.5	343.2	338.2
52.5°	374.5	376.9	378.5	379.3	379.1	378.0	376.1	373.4	370.2	366.3	361.4
50°	397.7	400.2	401.8	402.6	402.6	401.6	399.8	396.9	393.2	388.8	383.5
47.5°	419.8	422.1	423.6	424.3	424.1	423.2	421.4	418.6	415.1	411.0	406.3
45°	441.0	443.9	446.0	447.1	446.5	444.9	442.5	439.4	435.6	431.1	425.6
42.5°	460.5	463.2	465.1	466.1	465.5	464.0	461.6	458.6	454.8	449.6	443.7
40°	476.9	479.2	480.8	481.6	481.4	480.3	478.5	475.8	472.1	467.1	461.0
37.5°	493.8	496.6	498.5	499.6	499.3	498.3	496.4	492.8	488.0	482.9	477.6
35°	507.8	509.9	511.1	511.6	511.7	511.2	509.8	507.2	502.8	499.4	492.9
32.5°	520.6	523.1	525.0	526.1	525.5	524.2	522.2	519.6	516.0	511.8	505.8
30°	532.2	535.1	537.1	538.3	537.6	536.2	534.2	531.0	526.8	522.3	517.0
27.5°	543.0	546.0	548.0	549.3	548.5	546.9	544.7	541.6	537.1	533.4	525.9
25°	553.3	555.4	556.8	557.5	557.2	556.1	554.1	551.1	547.2	541.8	534.9
22.5°	560.8	563.8	565.0	565.8	565.5	564.5	562.4	559.4	555.4	549.4	542.9
20°	567.6	570.9	573.1	574.5	573.7	571.5	568.6	566.8	562.6	556.7	550.1
17.5°	573.1	576.6	578.6	579.7	578.9	577.5	575.8	573.3	567.6	563.3	555.9
15°	579.3	581.7	582.8	583.3	583.3	582.4	579.6	576.4	572.9	567.9	561.9
12.5°	583.3	585.8	586.9	586.9	586.8	585.7	584.6	581.0	575.9	570.8	566.5
10°	586.4	589.4	591.0	591.4	591.6	590.1	586.6	583.6	579.8	573.7	568.3
7.5°	587.7	590.9	591.3	591.7	591.8	591.8	589.7	584.6	580.8	576.6	569.1
5°	588.6	589.9	592.2	594.3	592.6	591.8	590.3	586.8	582.5	577.7	570.8
2.5°	588.7	591.0	592.6	592.7	592.0	591.6	589.9	587.3	582.9	578.0	571.3
0°	588.4	589.4	590.4	592.4	592.1	591.3	589.5	585.7	582.9	577.9	570.8
-2.5°	586.8	589.2	590.7	591.6	591.4	591.6	589.3	585.1	581.5	575.6	568.9
-5°	584.0	586.1	587.5	589.0	589.2	589.2	586.0	583.1	578.7	571.9	566.2
-7.5°	579.9	583.0	584.0	584.2	585.4	584.7	582.8	580.0	574.0	567.9	562.0
-10°	575.6	579.5	580.5	580.7	581.1	580.3	578.1	573.7	568.3	563.7	557.5
-12.5°	569.1	572.4	574.6	575.0	575.3	573.8	570.7	567.5	562.7	557.6	551.0
-15°	562.1	564.8	567.4	568.3	568.0	566.6	564.0	559.2	555.9	550.4	545.5
-17.5°	554.3	557.0	559.2	560.2	559.6	557.6	555.4	551.9	548.0	543.7	537.8
-20°	546.8	549.1	550.7	551.1	550.8	549.3	546.9	543.5	540.3	535.0	529.0

Classified

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

Scaled Data Report



REPORT NUMBER: P670544 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: ARFL15DBZ-15W-5000K

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	537.0	539.8	541.1	541.2	541.1	540.0	538.4	534.9	529.3	525.1	519.2
-25°	525.8	528.2	529.7	530.1	530.0	528.7	526.3	523.4	518.9	514.7	509.3
-27.5°	514.1	516.1	517.6	518.0	517.9	516.8	514.9	512.4	508.3	503.3	496.8
-30°	501.3	503.8	505.5	506.1	506.0	504.8	502.6	499.2	494.9	489.9	483.5
-32.5°	486.1	488.6	489.8	490.1	490.2	489.3	487.3	484.1	480.2	475.1	468.8
-35°	469.5	472.0	473.7	474.3	474.3	473.2	471.0	468.0	464.2	459.6	453.7
-37.5°	452.4	454.6	455.9	456.2	456.4	455.7	453.9	450.8	446.9	442.4	435.2
-40°	432.8	434.5	435.3	435.2	435.8	435.4	433.7	430.8	427.2	422.6	416.7
-42.5°	412.3	414.4	415.5	415.5	415.8	415.2	413.5	410.9	407.4	402.4	396.6
-45°	389.7	392.0	393.4	393.7	393.9	392.9	390.9	388.1	384.6	380.4	375.3
-47.5°	363.9	365.5	366.1	365.8	366.7	366.7	365.8	363.6	360.6	356.6	351.4
-50°	338.0	339.9	340.8	340.7	341.5	341.3	340.0	337.6	334.2	330.0	324.8
-52.5°	308.9	310.8	311.6	311.5	312.3	312.2	311.1	309.0	306.1	302.5	297.6
-55°	276.6	278.0	278.3	277.5	278.9	279.2	278.5	277.0	274.5	271.2	267.0
-57.5°	240.3	241.0	240.7	239.4	241.4	242.4	242.3	241.3	239.1	236.0	232.0
-60°	196.4	197.0	196.6	194.8	197.5	198.9	199.1	198.3	196.7	194.5	191.9
-62.5°	144.9	143.8	141.6	138.2	142.7	146.1	148.5	149.9	150.5	150.3	149.4
-65°	94.1	92.0	89.0	85.1	90.7	95.4	99.1	102.0	104.0	105.3	106.2
-67.5°	52.0	49.4	46.0	42.0	47.9	53.2	57.7	61.6	64.9	68.0	70.4
-70°	24.0	20.7	17.1	13.3	18.8	24.1	29.0	33.4	37.4	40.7	43.2
-72.5°	13.9	11.6	9.2	6.7	10.1	13.4	16.5	19.3	21.8	23.9	25.7
-75°	8.4	7.0	5.6	4.1	5.9	7.7	9.4	10.9	12.2	13.3	14.1
-77.5°	4.5	3.9	3.2	2.5	3.3	4.1	4.8	5.4	5.9	6.3	6.6
-80°	1.8	1.6	1.4	1.2	1.5	1.7	2.0	2.2	2.4	2.6	2.8
-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°	0.7	0.6	0.5	0.5	0.5	0.6	0.7	0.7	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: P670544 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL15DBZ-15W-5000K

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°	2.2	2.2	2.2	2.3	2.2	2.2	2.1	2.0	1.9	1.8	1.7
85°	6.2	6.2	6.2	6.1	6.0	5.6	5.2	4.8	4.5	4.2	3.8
82.5°	15.9	15.8	15.6	15.4	14.9	14.0	13.0	12.0	11.2	10.3	9.4
80°	31.5	31.3	30.9	30.3	29.3	27.5	25.5	23.6	22.0	20.1	18.2
77.5°	54.2	53.3	52.2	50.7	48.7	45.4	42.1	39.0	36.4	33.7	30.8
75°	80.2	78.7	77.2	75.3	72.5	68.2	63.7	59.0	54.2	49.5	44.9
72.5°	110.6	108.0	105.3	102.6	98.6	92.7	86.4	80.1	73.9	67.5	61.6
70°	143.8	140.1	136.0	131.7	126.1	119.4	111.8	104.3	97.0	89.0	80.7
67.5°	177.5	173.2	168.3	162.9	155.5	147.5	139.4	131.1	122.2	112.0	101.9
65°	210.4	205.1	199.8	194.2	186.0	176.9	167.4	157.2	146.7	136.8	126.2
62.5°	244.0	237.9	231.0	223.7	214.8	205.5	196.2	185.2	173.0	160.4	147.7
60°	276.8	271.0	264.3	255.7	245.1	233.8	223.1	211.6	199.7	186.7	171.8
57.5°	306.6	301.0	294.2	285.2	274.6	263.2	250.8	237.4	224.3	210.8	196.7
55°	332.4	326.1	318.8	310.3	300.8	289.1	276.8	263.3	248.9	233.5	218.9
52.5°	355.6	349.1	341.6	332.7	322.7	311.6	300.2	286.3	272.0	256.4	239.8
50°	376.9	370.3	362.6	353.3	343.4	332.4	320.3	307.2	292.9	277.1	260.4
47.5°	399.4	391.7	383.0	372.7	362.7	351.4	339.4	326.2	311.6	296.4	279.0
45°	419.4	412.6	403.9	392.7	382.0	369.4	357.0	343.7	329.3	313.5	296.7
42.5°	437.7	430.5	421.3	411.6	400.4	388.0	374.0	360.1	345.4	329.7	312.4
40°	454.6	445.9	437.4	428.3	416.8	405.0	391.0	376.5	360.5	344.5	327.3
37.5°	470.3	461.8	452.4	442.4	432.1	419.8	406.6	391.5	375.8	358.2	340.9
35°	484.7	476.3	466.6	456.4	445.3	433.2	420.3	405.7	389.6	371.8	353.2
32.5°	498.9	489.5	479.7	469.0	458.2	445.6	432.4	418.2	402.2	385.4	364.4
30°	510.1	501.2	492.1	481.0	469.0	457.5	444.0	429.8	413.6	395.4	376.3
27.5°	519.3	511.9	502.3	491.6	479.9	466.7	453.9	439.7	424.3	405.1	385.1
25°	527.5	520.4	511.3	501.1	488.9	476.5	462.6	446.9	430.9	413.4	393.3
22.5°	535.3	527.1	519.4	509.1	498.0	484.6	470.0	456.2	439.6	421.6	400.9
20°	542.0	533.9	524.3	515.6	504.5	491.3	477.5	461.7	444.4	427.0	407.1
17.5°	548.6	539.3	530.6	520.0	509.5	497.6	482.8	467.2	451.5	433.1	412.8
15°	553.3	544.3	535.3	525.3	515.3	502.0	487.4	472.5	455.8	437.3	417.7
12.5°	558.0	549.5	538.5	529.1	517.3	505.5	492.0	476.3	459.4	440.3	421.2
10°	561.3	551.9	542.1	531.5	520.1	508.3	494.5	478.8	462.4	443.9	424.1
7.5°	564.1	554.3	545.3	533.4	522.7	511.0	496.3	480.5	464.4	446.3	426.2
5°	564.7	555.2	546.1	534.8	524.0	512.0	497.4	481.6	465.5	447.4	427.2
2.5°	564.4	555.1	546.3	535.3	524.5	511.7	497.5	481.9	465.6	447.5	427.3
0°	563.6	554.2	545.7	534.9	524.1	510.9	496.7	481.1	464.8	446.8	426.4
-2.5°	561.7	552.5	544.0	533.2	522.4	509.2	494.9	479.4	463.2	445.2	424.8
-5°	558.6	550.0	541.4	530.6	519.6	507.0	492.3	476.8	460.8	442.6	422.4
-7.5°	554.4	546.6	538.3	526.6	515.8	503.5	488.7	473.3	457.5	439.2	419.1
-10°	550.3	542.0	533.2	521.5	510.5	498.7	484.3	468.8	453.3	434.6	415.0
-12.5°	544.6	537.2	527.6	517.8	504.6	492.8	478.7	463.5	447.8	429.3	409.4
-15°	538.1	530.3	519.8	510.8	499.7	486.1	472.1	457.5	441.4	422.9	402.6
-17.5°	531.0	522.6	514.1	501.4	491.6	478.7	464.5	450.5	434.1	415.8	395.3
-20°	522.1	514.5	504.1	495.0	482.7	469.9	456.5	442.2	426.0	407.8	387.4



REPORT NUMBER: P670544 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL15DBZ-15W-5000K

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	513.0	504.4	495.9	484.6	473.2	460.1	447.6	432.9	416.0	397.8	378.6
-25°	501.7	494.4	484.5	474.2	462.7	450.7	437.2	422.9	406.2	387.6	368.3
-27.5°	490.2	481.8	472.6	462.6	451.5	439.1	425.9	410.5	394.1	376.6	357.8
-30°	476.6	468.6	459.9	450.0	438.4	426.4	412.6	398.0	381.7	364.1	344.4
-32.5°	462.4	454.6	445.9	435.2	424.5	412.1	399.1	384.1	367.8	350.6	331.1
-35°	447.1	438.1	429.6	420.0	408.7	397.2	383.7	369.0	353.5	334.7	316.9
-37.5°	428.5	421.0	412.9	402.7	392.6	380.6	367.2	352.9	335.9	319.9	302.2
-40°	410.2	402.2	394.6	385.3	374.6	362.2	349.1	333.9	319.5	302.9	286.0
-42.5°	390.5	383.7	375.2	365.6	354.2	342.1	328.8	315.8	300.9	285.4	268.2
-45°	369.2	361.9	352.9	342.9	332.2	321.1	309.0	296.0	281.5	265.7	248.4
-47.5°	344.5	336.8	328.7	319.8	310.4	299.3	287.7	274.3	259.9	244.0	227.3
-50°	318.8	312.2	304.8	296.2	286.7	275.8	263.6	250.4	236.0	221.1	205.8
-52.5°	292.0	285.9	278.7	270.0	260.0	249.0	237.2	224.6	211.4	197.3	181.6
-55°	261.8	255.8	248.5	240.0	230.7	220.5	209.7	197.9	185.0	170.5	154.5
-57.5°	227.2	221.8	216.0	209.0	200.3	190.6	180.0	168.0	154.9	142.1	128.8
-60°	188.8	185.1	180.9	175.2	166.6	157.0	146.7	136.7	126.1	114.4	102.0
-62.5°	147.6	145.0	142.0	138.0	131.2	123.9	115.7	106.9	97.5	87.7	77.1
-65°	106.7	106.5	105.6	104.0	99.0	92.9	86.2	78.9	70.9	63.2	55.9
-67.5°	72.1	73.3	73.6	73.1	69.5	64.5	59.3	54.1	48.9	44.3	39.6
-70°	45.3	46.4	46.7	46.6	44.7	41.7	38.7	35.7	32.5	29.8	27.2
-72.5°	26.9	27.6	27.8	27.7	26.7	25.3	23.8	22.3	20.6	18.8	17.0
-75°	14.6	14.9	15.0	14.8	14.3	13.8	13.0	12.3	11.5	10.5	9.5
-77.5°	6.9	7.1	7.1	7.0	6.8	6.6	6.2	5.9	5.8	5.6	5.2
-80°	2.9	3.0	3.1	3.1	3.2	3.3	3.3	3.1	3.0	2.8	2.6
-82.5°	1.8	1.9	2.0	2.1	2.2	2.1	2.0	1.9	1.8	1.6	1.5
-85°	1.3	1.3	1.4	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	1.0	1.0	1.0	1.0



REPORT NUMBER: P670544 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL15DBZ-15W-5000K

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	1.5	1.4	1.4	1.3	1.2	1.1	1.0	0.9	0.9
85°	3.5	3.1	2.7	2.5	2.3	2.0	1.8	1.5	1.3	1.2	1.0
82.5°	8.5	7.6	6.7	5.8	4.8	4.1	3.3	2.5	1.9	1.6	1.3
80°	16.4	14.6	12.7	11.2	9.8	8.2	6.3	4.6	3.4	2.5	1.7
77.5°	27.7	24.6	21.8	18.8	16.2	13.4	10.4	7.9	5.7	4.0	2.7
75°	40.4	36.6	32.8	28.9	24.8	20.5	15.7	11.7	8.6	6.0	4.0
72.5°	55.7	50.0	44.4	39.1	34.5	28.9	22.5	16.9	12.1	8.4	5.6
70°	72.3	64.4	57.3	50.7	44.4	37.2	29.9	22.9	16.7	11.4	7.5
67.5°	92.5	82.6	72.4	62.8	54.9	46.0	37.1	29.1	21.7	15.1	9.8
65°	114.1	101.3	90.1	78.8	66.5	55.1	45.0	35.4	26.9	19.2	12.6
62.5°	136.3	123.8	108.9	95.0	81.6	65.9	53.0	42.2	32.1	23.3	15.8
60°	156.8	142.7	129.6	113.9	95.7	78.8	62.5	49.1	37.7	27.6	18.9
57.5°	180.4	163.0	146.4	132.4	112.7	91.3	73.5	56.5	43.5	32.1	22.1
55°	203.1	185.6	166.0	147.2	128.3	105.9	84.1	65.9	49.4	36.7	25.4
52.5°	223.4	206.3	187.2	164.1	140.9	120.2	96.1	74.4	56.3	41.4	28.9
50°	242.6	224.7	206.2	182.5	155.6	132.1	108.8	84.1	63.5	46.1	32.4
47.5°	261.1	242.0	222.2	198.8	172.1	144.0	120.6	94.3	70.3	51.3	36.0
45°	277.8	258.6	236.9	213.0	187.7	157.9	130.4	104.6	78.3	56.7	39.5
42.5°	293.9	273.6	251.2	226.6	200.4	172.4	140.3	114.6	86.1	61.8	42.9
40°	308.4	287.2	264.8	240.1	212.5	184.7	152.4	122.9	93.6	67.1	46.5
37.5°	321.7	300.3	276.7	252.4	224.7	195.1	164.5	130.7	102.1	73.1	50.1
35°	333.5	312.1	288.9	263.8	236.5	205.1	175.2	139.0	109.5	78.5	53.4
32.5°	344.0	322.8	299.7	273.7	246.9	215.6	183.3	148.5	115.8	83.3	56.5
30°	353.7	332.2	309.2	283.7	256.2	225.5	190.8	157.6	121.2	88.5	59.6
27.5°	363.0	340.7	317.7	292.7	264.4	234.3	198.3	166.0	126.0	94.2	63.3
25°	372.4	348.3	325.1	300.5	271.9	242.0	206.2	171.3	131.7	99.2	66.6
22.5°	379.4	355.4	331.7	307.0	279.0	248.6	213.5	176.0	137.7	103.0	69.3
20°	385.5	362.0	337.4	312.6	285.2	254.4	219.9	180.3	143.0	106.3	71.2
17.5°	391.0	367.9	342.3	317.3	290.6	259.1	225.4	184.0	147.6	109.0	72.7
15°	395.6	372.3	346.4	321.2	294.8	263.1	229.5	187.3	151.5	110.7	73.8
12.5°	399.1	375.6	350.0	324.3	297.8	266.5	232.8	190.8	154.6	111.9	74.9
10°	401.5	378.2	352.8	326.6	300.2	269.2	235.4	193.6	156.1	112.6	76.1
7.5°	403.1	380.0	354.6	328.1	301.7	271.0	237.0	195.5	156.7	112.9	76.8
5°	404.0	380.8	355.5	328.9	302.4	272.0	237.8	196.4	156.6	112.6	77.0
2.5°	404.0	380.8	355.5	328.8	302.4	272.2	237.8	196.5	156.0	111.8	76.5
0°	403.0	379.9	354.6	328.0	301.6	271.5	237.1	195.6	154.8	110.6	75.5
-2.5°	401.6	378.5	353.2	326.7	300.3	270.1	235.8	194.6	154.1	110.1	74.9
-5°	399.3	376.2	350.9	324.5	298.2	267.9	233.8	192.6	152.7	109.0	73.7
-7.5°	396.0	373.1	347.8	321.6	295.4	264.8	231.0	189.6	150.8	107.6	72.0
-10°	392.1	369.2	343.8	317.9	291.8	260.9	227.5	185.6	148.2	105.6	69.7
-12.5°	387.3	364.3	338.9	313.5	287.4	256.2	222.9	180.8	144.7	103.1	66.9
-15°	381.3	358.1	333.2	308.2	282.2	250.6	217.5	175.0	139.6	100.0	64.4
-17.5°	374.1	350.9	326.5	302.1	275.8	244.4	211.3	169.4	133.8	96.5	62.2
-20°	366.5	342.9	319.0	295.0	268.1	237.4	203.7	163.6	127.2	91.9	59.7



REPORT NUMBER: P670544 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL15DBZ-15W-5000K

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	357.6	334.4	311.2	287.1	259.4	229.5	195.0	157.0	120.1	86.7	56.8
-25°	346.9	324.9	302.3	278.3	250.0	220.9	185.2	150.2	112.4	81.1	53.2
-27.5°	335.8	314.2	292.3	268.0	240.0	210.9	174.2	142.6	104.9	74.5	49.0
-30°	324.5	303.5	281.3	256.2	229.3	199.6	164.1	132.1	98.1	67.5	44.4
-32.5°	311.2	291.3	269.3	243.6	217.8	186.9	154.0	120.9	90.5	61.6	40.9
-35°	298.3	277.9	255.1	230.6	204.8	172.5	143.4	109.8	82.0	56.8	37.7
-37.5°	283.5	263.2	240.1	217.0	190.0	159.3	130.3	99.5	72.9	51.2	34.4
-40°	267.6	246.4	224.8	201.8	173.3	146.1	116.1	89.3	63.4	44.7	31.1
-42.5°	249.3	229.3	208.8	184.7	157.3	131.1	102.6	78.5	56.8	39.7	27.7
-45°	230.0	211.8	190.8	165.3	141.4	114.4	90.0	67.2	49.7	35.3	24.2
-47.5°	210.5	192.0	170.2	147.5	122.9	98.9	77.2	57.8	41.7	30.9	20.8
-50°	188.7	169.3	149.7	127.8	104.9	83.9	64.4	49.6	36.6	26.5	17.3
-52.5°	163.9	146.5	127.8	107.4	87.4	69.4	54.4	40.6	31.3	22.1	14.2
-55°	139.5	122.7	105.2	87.8	71.1	56.7	44.5	34.8	26.0	17.9	11.4
-57.5°	113.8	99.2	83.8	69.6	57.0	46.2	36.6	28.5	20.8	14.1	9.1
-60°	89.8	76.8	65.0	54.7	45.5	36.9	29.7	22.5	15.9	10.8	7.0
-62.5°	67.1	57.8	49.9	42.1	35.8	29.3	22.8	16.9	11.9	8.3	5.1
-65°	49.3	43.1	36.7	32.6	27.4	21.7	16.5	12.1	8.9	5.9	3.5
-67.5°	34.6	31.3	27.5	23.3	19.2	15.0	11.4	8.7	6.1	3.9	2.4
-70°	24.4	21.3	18.2	15.4	12.6	9.9	8.0	5.6	3.8	2.5	1.7
-72.5°	15.1	13.1	11.2	9.3	8.2	6.5	4.5	3.3	2.3	1.7	1.2
-75°	8.3	7.6	6.8	5.7	4.2	3.4	2.5	1.9	1.5	1.2	1.0
-77.5°	4.6	3.8	3.4	2.8	2.2	1.7	1.5	1.3	1.1	0.9	0.8
-80°	2.3	2.0	1.7	1.5	1.3	1.2	1.1	0.9	0.8	0.7	0.6
-82.5°	1.4	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°	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.7	0.7	0.7

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Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report



REPORT NUMBER: P670544 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: ARFL15DBZ-15W-5000K

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	0.9	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°	1.8	1.3	1.0	0.8	0.6	0.5	0.5
75°	2.5	1.6	1.1	0.8	0.7	0.5	0.5
72.5°	3.5	2.1	1.3	0.9	0.7	0.5	0.5
70°	4.7	2.7	1.6	1.0	0.7	0.6	0.5
67.5°	6.1	3.5	1.9	1.1	0.7	0.6	0.5
65°	7.7	4.3	2.2	1.2	0.8	0.6	0.5
62.5°	9.4	5.3	2.7	1.4	0.8	0.6	0.5
60°	11.6	6.4	3.1	1.5	0.9	0.6	0.5
57.5°	14.0	7.6	3.8	1.6	0.9	0.6	0.5
55°	16.3	8.8	4.4	1.9	0.9	0.6	0.5
52.5°	18.5	10.5	5.0	2.1	1.0	0.6	0.5
50°	20.9	12.1	5.7	2.3	1.0	0.6	0.5
47.5°	23.3	13.5	6.3	2.5	1.1	0.6	0.5
45°	25.8	14.9	6.9	2.8	1.1	0.6	0.5
42.5°	28.1	16.3	7.9	3.1	1.1	0.6	0.5
40°	30.6	17.8	8.8	3.4	1.2	0.6	0.5
37.5°	33.0	19.2	9.6	3.6	1.2	0.6	0.5
35°	35.1	20.6	10.3	3.8	1.2	0.7	0.5
32.5°	37.1	21.9	10.9	4.0	1.3	0.7	0.5
30°	38.9	23.1	11.4	4.2	1.3	0.7	0.5
27.5°	40.8	24.2	11.8	4.3	1.3	0.7	0.5
25°	42.4	25.3	12.2	4.4	1.3	0.7	0.5
22.5°	43.7	26.3	12.7	4.5	1.3	0.7	0.5
20°	44.8	27.0	13.2	4.6	1.3	0.7	0.5
17.5°	45.8	27.7	13.5	4.8	1.3	0.7	0.5
15°	46.5	28.1	13.7	4.9	1.3	0.7	0.5
12.5°	46.9	28.4	13.8	5.0	1.2	0.7	0.5
10°	47.0	28.5	13.8	5.0	1.2	0.7	0.5
7.5°	46.8	28.5	13.7	5.0	1.1	0.7	0.5
5°	46.4	28.3	13.5	4.9	1.1	0.7	0.5
2.5°	45.8	27.9	13.3	4.8	1.1	0.7	0.5
0°	44.9	27.4	12.9	4.6	1.0	0.7	0.5
-2.5°	44.7	27.2	12.8	4.6	1.0	0.6	0.5
-5°	44.2	26.9	12.7	4.5	1.0	0.6	0.5
-7.5°	43.5	26.4	12.4	4.4	1.0	0.6	0.5
-10°	42.6	25.8	12.1	4.2	1.0	0.6	0.5
-12.5°	41.5	25.1	11.7	4.0	1.0	0.6	0.5
-15°	40.2	24.2	11.2	3.8	1.0	0.6	0.5
-17.5°	38.7	23.1	10.7	3.6	1.0	0.6	0.5
-20°	37.0	22.0	10.1	3.3	0.9	0.6	0.5

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REPORT NUMBER: P670544 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: ARFL15DBZ-15W-5000K

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	35.2	20.7	9.4	3.1	0.9	0.6	0.5
-25°	33.4	19.2	8.7	2.9	0.9	0.6	0.5
-27.5°	31.4	17.7	8.1	2.7	0.9	0.6	0.5
-30°	29.2	16.2	7.5	2.6	0.9	0.6	0.5
-32.5°	26.9	14.8	6.8	2.4	0.9	0.6	0.5
-35°	24.5	13.3	6.2	2.2	0.8	0.6	0.5
-37.5°	22.0	11.8	5.4	2.0	0.8	0.6	0.5
-40°	19.5	10.4	4.7	1.7	0.8	0.6	0.5
-42.5°	16.8	9.0	4.0	1.5	0.8	0.6	0.5
-45°	14.5	7.8	3.2	1.3	0.8	0.6	0.5
-47.5°	12.2	6.6	2.8	1.1	0.7	0.6	0.5
-50°	10.3	5.4	2.4	1.0	0.7	0.6	0.5
-52.5°	8.4	4.4	2.0	0.9	0.7	0.5	0.5
-55°	6.9	3.3	1.7	0.9	0.7	0.5	0.5
-57.5°	5.3	2.6	1.4	0.8	0.6	0.5	0.5
-60°	3.9	2.1	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°	2.1	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	0.6	0.6	0.6	0.6	0.5	0.5

(END OF REPORT)