

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: P670541 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: ARFL15DBZ-15W-3000K

Issue Date: 3/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P670541 (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-3000K
Description: SLIM WALL OR FLOODLIGHT
Light Source: 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

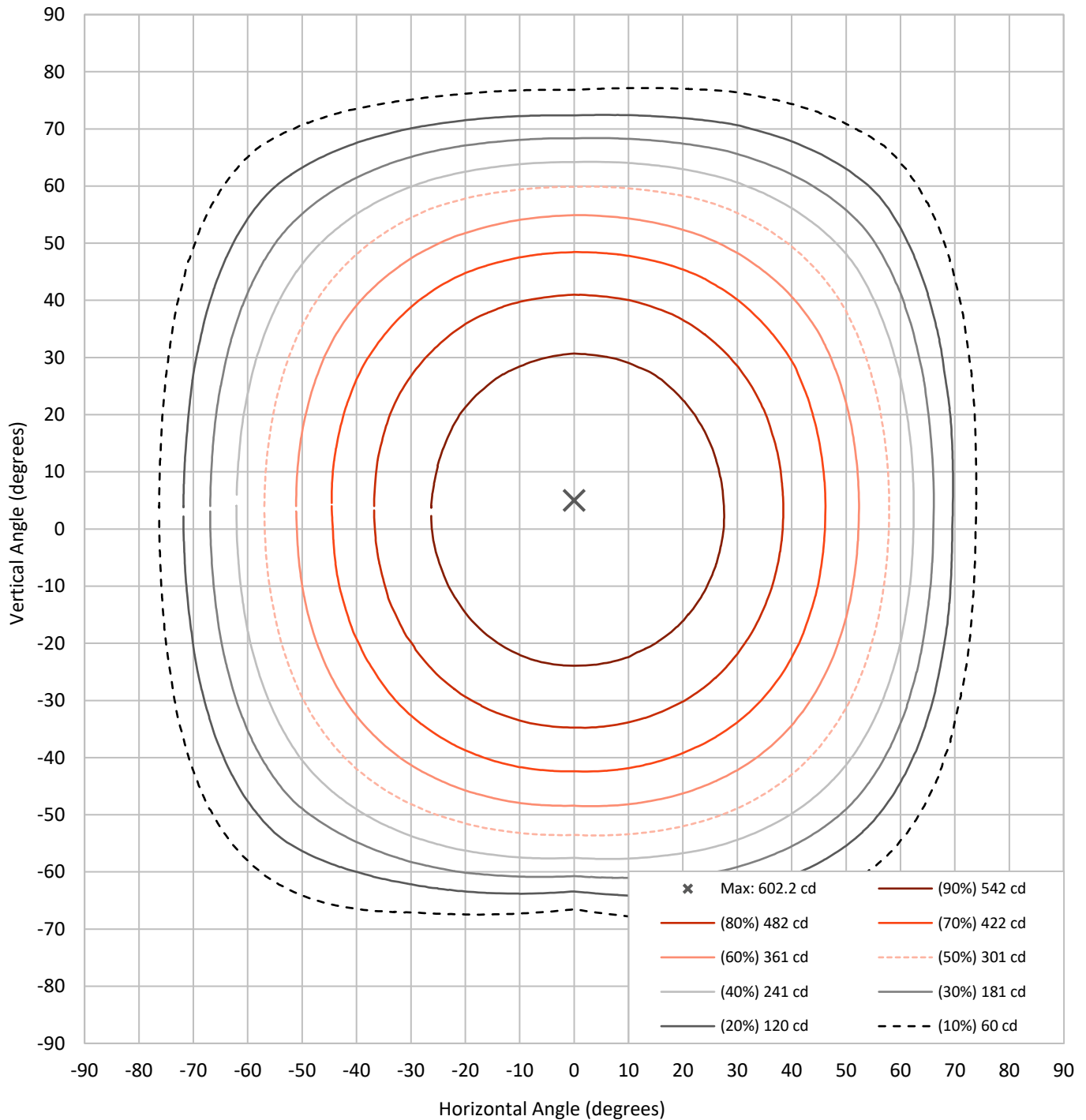
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	1671.8 lumens	Max Intensity:	602.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 5°V
Efficacy:	116.1 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:	1339.3 lumens	Field Lumens:	1646.7 lumens
Beam Efficiency:	80.1%	Field Efficiency:	98.5%
Input Watts (W):	14.4		
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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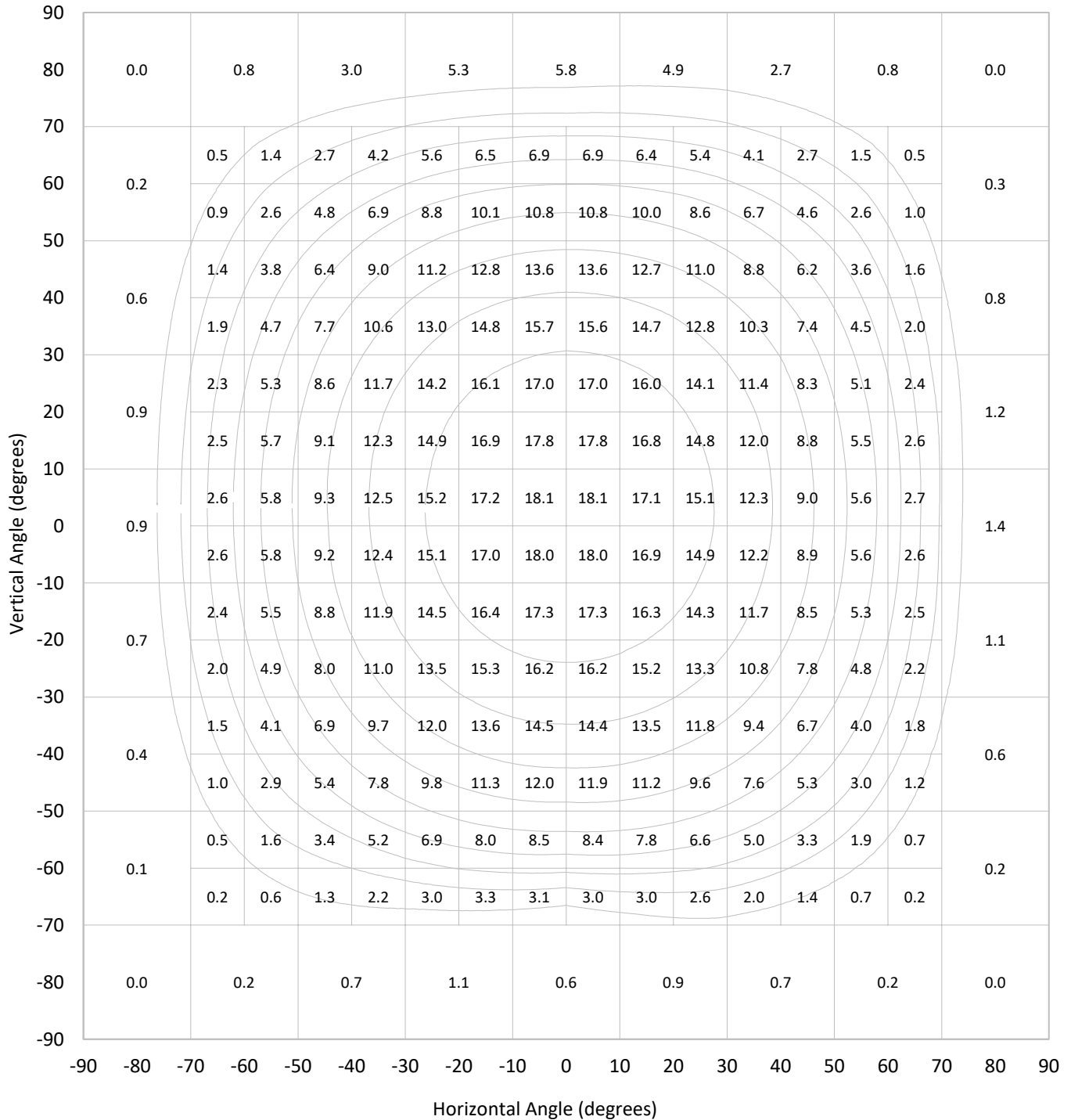
Iso-Candela Plot





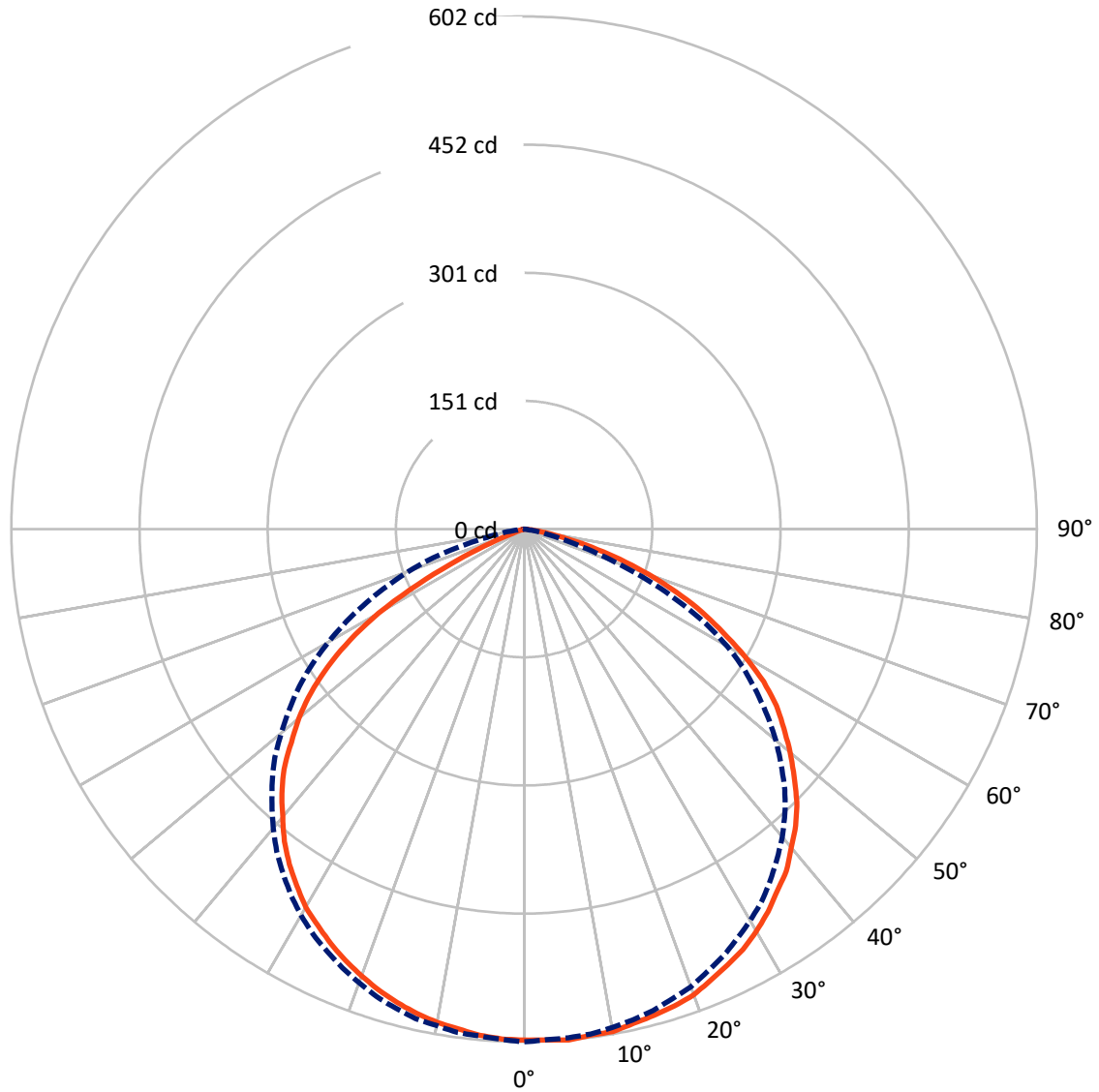
REPORT NUMBER: P670541 (CONVERTED FROM TYPE C PHOTOMETRY)
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Lumen Table



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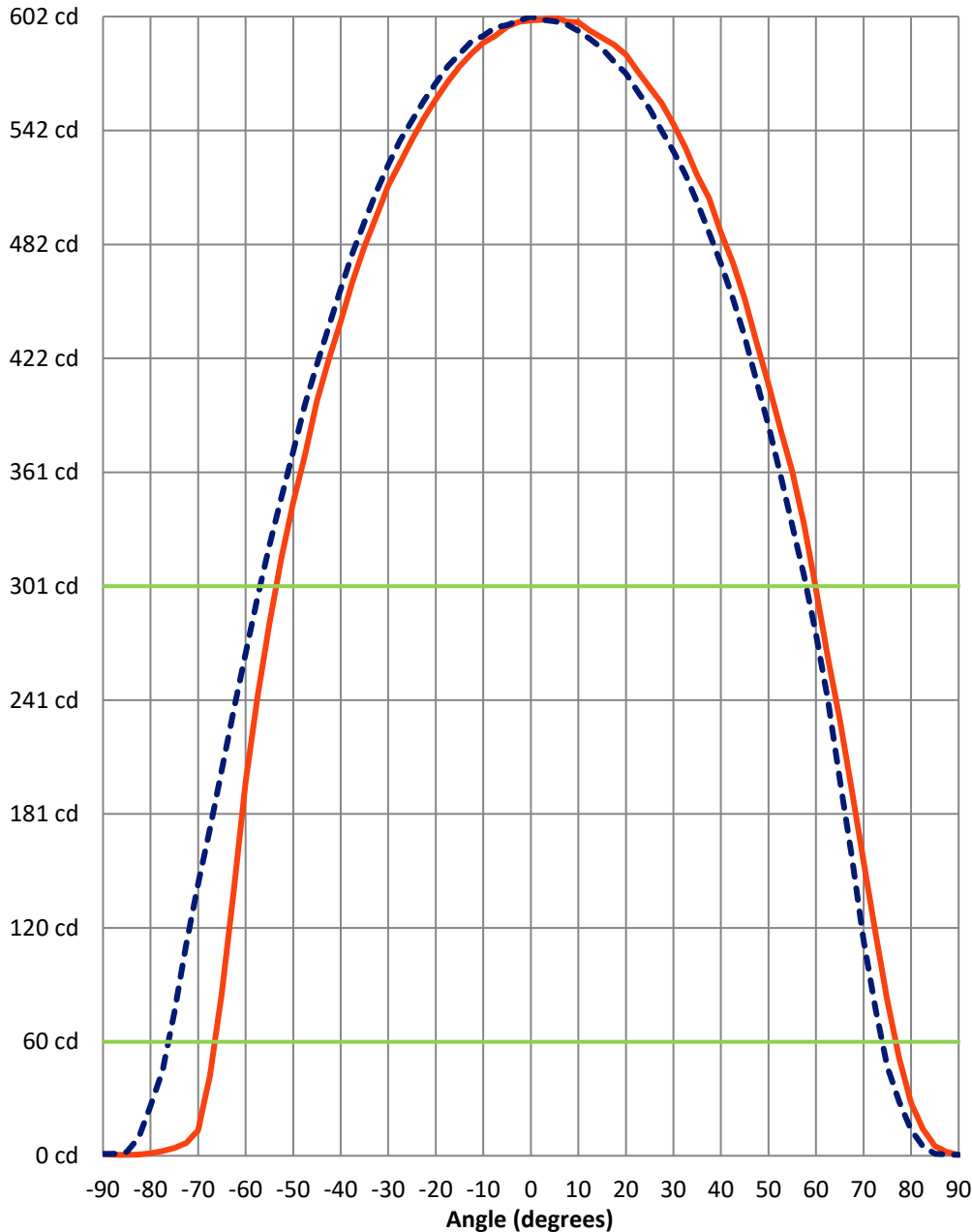
Luminous Intensity Polar Plot



— 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: 1339.3
 Efficiency: 80.1%

Field:
 H Angle: 150.2°
 V Angle: 143.3°
 Lumens: 1646.7
 Efficiency: 98.5%

Spill:
 Lumens: 25
 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	2.8
80°	1.0	1.0	1.1	1.2	1.3	1.5	1.8	2.1	2.7	3.4	4.6
77.5°	1.0	1.0	1.1	1.2	1.4	1.7	2.2	2.9	4.0	5.8	7.7
75°	1.0	1.0	1.1	1.2	1.5	2.0	2.7	4.2	6.1	8.3	11.2
72.5°	1.0	1.0	1.1	1.3	1.7	2.4	3.8	5.8	8.2	12.1	16.8
70°	1.0	1.0	1.1	1.4	1.9	3.0	5.0	7.5	11.7	17.3	23.1
67.5°	1.0	1.0	1.1	1.5	2.2	3.9	6.3	10.4	16.3	22.7	29.3
65°	1.0	1.0	1.2	1.6	2.6	4.8	8.1	14.0	21.0	28.2	37.1
62.5°	1.0	1.0	1.2	1.7	3.2	5.7	10.5	18.2	25.4	35.0	46.3
60°	1.0	1.0	1.3	1.9	3.7	7.1	13.8	21.7	31.3	42.7	56.3
57.5°	1.0	1.0	1.3	2.0	4.4	8.8	17.2	25.9	37.5	50.9	67.4
55°	1.0	1.0	1.3	2.3	5.0	10.9	20.0	30.9	44.0	59.8	79.3
52.5°	1.0	1.1	1.4	2.6	5.7	13.5	22.8	35.9	50.5	69.4	89.8
50°	1.0	1.1	1.4	2.9	6.9	16.1	26.9	40.9	57.6	79.2	100.6
47.5°	1.0	1.1	1.5	3.2	8.0	18.1	30.9	45.9	65.3	88.2	111.3
45°	1.0	1.1	1.5	3.6	9.2	19.9	34.6	51.0	73.3	97.1	121.6
42.5°	1.0	1.1	1.5	3.9	11.0	22.3	38.1	56.1	80.8	106.0	130.9
40°	1.0	1.1	1.6	4.2	12.7	25.3	41.5	61.8	88.0	115.0	139.0
37.5°	1.0	1.1	1.6	4.4	14.3	28.2	44.8	67.7	94.6	122.8	147.6
35°	1.0	1.1	1.7	4.9	15.6	30.6	48.0	73.3	101.4	129.8	155.5
32.5°	1.0	1.1	1.8	5.5	16.6	32.8	51.2	78.6	108.3	135.8	162.5
30°	1.0	1.1	1.9	6.0	17.6	34.8	54.1	83.5	114.4	142.0	168.6
27.5°	1.0	1.1	1.9	6.4	18.4	36.6	57.6	87.8	119.8	147.9	174.1
25°	1.0	1.1	2.0	6.8	19.4	38.3	60.9	91.6	124.6	153.0	180.1
22.5°	1.0	1.1	2.1	7.2	20.9	39.7	63.8	95.4	128.3	157.3	185.6
20°	1.0	1.1	2.1	7.6	22.1	41.0	66.5	99.3	131.7	161.1	190.2
17.5°	1.0	1.1	2.1	8.1	23.3	42.0	69.0	102.8	134.6	164.2	194.2
15°	1.0	1.1	2.1	8.6	24.2	42.9	71.1	105.8	137.4	166.7	197.5
12.5°	1.0	1.1	2.1	9.0	25.0	43.7	72.8	108.2	139.8	168.7	200.0
10°	1.0	1.1	2.1	9.3	25.7	44.3	74.2	109.8	141.6	170.6	202.0
7.5°	1.0	1.1	2.1	9.5	26.1	44.6	75.1	111.0	142.9	172.0	203.4
5°	1.0	1.1	2.1	9.6	26.4	44.7	75.7	111.7	143.6	172.9	204.2
2.5°	1.0	1.1	2.0	9.6	26.6	44.6	75.8	111.9	143.9	173.1	204.3
0°	1.0	1.1	2.0	9.5	26.5	44.4	75.5	111.7	143.6	172.8	203.9
-2.5°	1.0	1.1	2.0	9.4	26.2	43.9	74.8	110.7	142.6	171.8	202.9
-5°	1.0	1.1	2.0	9.2	25.7	43.3	73.6	109.4	141.0	170.2	201.2
-7.5°	1.0	1.0	2.0	8.9	25.1	42.6	72.1	107.5	139.0	167.9	198.9
-10°	1.0	1.0	2.0	8.6	24.3	41.6	70.1	105.1	136.4	165.1	196.0
-12.5°	1.0	1.0	1.9	8.1	23.3	40.4	67.7	102.3	133.3	161.8	192.5
-15°	1.0	1.0	1.9	7.6	22.2	39.1	65.0	98.8	129.7	158.5	188.4
-17.5°	1.0	1.0	1.8	7.1	20.9	37.7	61.8	94.6	125.6	154.6	183.7
-20°	1.0	1.0	1.8	6.4	19.5	36.2	58.3	89.9	121.5	150.2	178.3



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 CATALOG NUMBER: ARFL15DBZ-15W-3000K

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	5.9	18.0	34.6	54.9	84.8	117.0	144.9	172.3
-25°	1.0	1.0	1.7	5.5	16.3	32.9	51.3	79.9	112.1	139.1	165.4
-27.5°	1.0	1.0	1.6	5.1	15.1	31.0	47.5	75.0	105.9	132.5	158.0
-30°	1.0	1.0	1.6	4.6	14.1	29.0	43.7	69.9	99.2	125.3	150.9
-32.5°	1.0	1.0	1.5	4.1	13.0	26.9	40.7	63.9	91.6	117.8	143.2
-35°	1.0	1.0	1.4	3.6	11.9	24.6	37.5	57.4	83.3	110.7	134.5
-37.5°	1.0	1.0	1.3	3.1	10.6	22.0	34.4	51.1	75.3	102.3	125.0
-40°	1.0	1.0	1.3	2.9	9.1	19.1	31.5	45.4	67.9	92.7	115.0
-42.5°	1.0	1.0	1.3	2.6	7.6	16.0	28.4	40.1	59.6	82.1	105.9
-45°	1.0	1.0	1.2	2.4	6.0	13.7	25.2	35.7	50.8	71.9	94.7
-47.5°	1.0	1.0	1.2	2.1	5.0	11.9	21.8	31.5	43.7	62.4	82.5
-50°	1.0	1.0	1.2	1.9	4.1	10.2	18.0	27.7	37.2	51.9	70.2
-52.5°	1.0	1.0	1.1	1.7	3.3	8.1	14.0	23.6	31.8	42.8	58.9
-55°	1.0	1.0	1.1	1.6	2.8	6.0	11.6	19.4	27.3	35.3	46.7
-57.5°	1.0	1.0	1.1	1.4	2.4	4.6	9.4	14.8	22.5	29.2	37.4
-60°	1.0	1.0	1.1	1.3	2.0	3.5	6.9	11.2	17.4	24.0	30.0
-62.5°	1.0	1.0	1.0	1.3	1.8	2.8	4.8	8.6	12.4	18.4	24.0
-65°	1.0	1.0	1.0	1.2	1.5	2.3	3.6	6.0	9.2	12.9	17.8
-67.5°	1.0	1.0	1.0	1.1	1.4	1.9	2.7	4.0	6.3	8.8	11.9
-70°	1.0	1.0	1.0	1.1	1.3	1.6	2.1	2.8	4.0	5.8	7.7
-72.5°	1.0	1.0	1.0	1.1	1.2	1.4	1.7	2.2	2.8	3.7	4.8
-75°	1.0	1.0	1.0	1.0	1.1	1.2	1.4	1.8	2.1	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	2.2
-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: P670541 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL15DBZ-15W-3000K

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°	2.2	2.4	2.6	2.7	2.9	3.1	3.3	3.5	3.6	3.8	3.9
82.5°	3.4	4.1	4.5	5.4	6.2	7.0	7.7	8.4	9.1	9.7	10.4
80°	6.2	8.0	9.1	10.2	11.4	13.2	14.9	16.5	18.2	19.8	21.3
77.5°	9.7	12.3	15.1	17.6	20.3	22.8	25.2	27.4	29.6	31.7	33.6
75°	15.1	19.6	23.4	26.6	29.8	32.9	36.2	40.2	43.9	47.7	51.0
72.5°	22.2	27.2	31.8	35.9	41.4	47.0	52.6	58.1	63.4	68.7	73.8
70°	28.8	35.2	42.7	50.0	57.4	65.2	72.8	80.3	87.3	94.3	101.1
67.5°	37.0	46.5	57.2	67.0	76.8	86.0	94.4	103.4	112.3	121.3	129.5
65°	47.7	60.0	74.3	86.0	95.5	106.2	116.7	126.9	136.8	146.4	156.2
62.5°	59.6	75.1	90.6	102.6	114.7	126.3	137.6	148.8	160.5	171.1	181.2
60°	72.8	89.5	105.5	119.8	132.6	145.0	158.1	170.6	182.4	194.3	206.0
57.5°	85.8	103.2	120.3	135.8	149.4	164.0	177.6	191.0	204.6	217.8	230.9
55°	97.9	116.8	134.4	150.8	166.7	181.6	196.6	211.9	226.4	241.6	256.6
52.5°	110.3	129.8	147.5	166.0	182.6	199.2	215.8	232.1	248.7	265.8	281.1
50°	122.2	141.6	161.4	180.0	198.6	216.7	234.4	252.2	270.7	286.8	301.6
47.5°	133.2	153.8	173.9	193.9	214.4	233.5	252.5	272.0	289.5	305.4	320.3
45°	143.1	165.2	186.0	208.0	228.8	249.4	270.2	289.3	306.5	322.6	339.0
42.5°	153.8	175.6	198.3	220.5	242.9	265.5	286.0	304.6	322.3	340.0	355.9
40°	163.1	186.0	210.0	233.6	257.1	279.2	299.7	319.4	338.4	355.9	372.5
37.5°	171.6	196.3	220.7	245.0	269.3	291.7	313.5	334.1	353.0	371.1	387.2
35°	179.7	205.9	231.5	257.2	281.1	303.9	325.8	347.0	366.9	384.4	400.3
32.5°	188.2	214.3	240.6	266.9	291.1	314.6	337.3	359.1	379.2	395.9	412.5
30°	195.9	223.2	250.3	276.3	301.2	324.9	347.8	369.8	388.7	407.1	424.1
27.5°	202.8	230.8	258.5	284.5	309.8	334.0	357.2	378.6	398.5	416.9	434.7
25°	208.8	237.2	265.6	292.2	317.6	342.3	365.6	386.1	406.4	425.8	443.0
22.5°	214.6	243.9	272.0	299.3	324.7	349.4	372.4	394.0	414.4	433.4	450.8
20°	220.1	249.8	277.6	305.0	330.9	355.4	378.1	400.3	420.9	439.3	457.1
17.5°	224.7	254.2	282.5	309.9	336.1	360.6	383.2	405.8	426.2	445.1	463.5
15°	228.0	258.0	286.7	314.0	340.4	364.7	388.3	410.8	430.3	448.9	468.1
12.5°	230.7	261.0	290.1	317.2	343.5	367.7	392.0	414.2	433.7	452.6	471.7
10°	232.8	263.3	292.7	319.8	345.7	370.0	394.5	416.6	436.4	456.3	474.4
7.5°	234.6	264.8	294.3	321.6	347.1	371.5	396.2	417.9	438.2	457.8	476.3
5°	235.6	265.6	295.1	322.5	347.7	372.1	397.2	418.3	438.4	458.2	477.2
2.5°	235.8	265.6	295.2	322.6	347.5	372.0	397.3	417.8	437.6	457.7	477.2
0°	235.3	264.9	294.5	321.8	346.5	370.9	396.4	416.5	436.2	456.3	476.2
-2.5°	234.1	263.8	293.3	320.7	345.4	369.8	395.0	415.4	435.3	455.2	474.8
-5°	232.2	262.0	291.3	318.6	343.4	367.8	392.7	413.5	433.6	453.2	472.4
-7.5°	229.6	259.5	288.5	315.7	340.6	364.9	389.3	410.7	431.2	450.4	468.9
-10°	226.2	256.2	284.9	311.9	337.0	361.1	385.2	407.0	426.7	446.6	464.2
-12.5°	222.4	252.1	280.5	307.2	332.6	356.5	380.3	402.2	421.2	440.4	458.5
-15°	218.1	247.3	275.4	302.0	327.4	351.1	374.3	396.6	415.4	434.1	452.2
-17.5°	213.2	241.7	269.5	296.0	321.4	344.7	367.2	389.1	408.7	427.9	445.6
-20°	207.1	235.4	262.7	288.9	314.6	337.3	359.6	380.8	400.8	418.5	436.7

Classified

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

Scaled Data Report



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CATALOG NUMBER: ARFL15DBZ-15W-3000K

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	200.1	227.8	255.2	280.8	305.8	328.9	351.1	372.1	392.3	410.1	427.8
-25°	192.8	219.6	246.8	272.3	296.7	320.0	341.7	362.3	381.2	399.5	415.8
-27.5°	185.1	211.5	237.6	262.9	286.6	310.3	331.1	351.6	370.4	388.6	405.4
-30°	176.7	202.3	227.5	252.6	275.5	298.4	319.5	339.9	358.7	375.7	392.9
-32.5°	167.6	192.2	216.4	241.0	264.2	286.0	308.0	326.8	345.7	362.9	378.8
-35°	157.7	181.9	205.5	228.9	252.0	272.5	293.5	313.5	331.3	348.4	364.4
-37.5°	147.9	170.9	193.4	215.3	237.8	259.1	278.4	298.1	315.5	332.4	348.3
-40°	137.6	159.1	180.9	202.1	223.2	244.2	262.9	281.3	299.5	315.0	330.6
-42.5°	126.3	147.0	167.8	188.0	207.6	227.7	246.8	263.4	281.0	297.6	311.9
-45°	114.1	134.6	153.9	173.4	192.1	209.7	227.7	245.4	261.0	277.3	292.4
-47.5°	103.2	121.0	139.8	157.9	175.9	191.5	207.4	224.3	240.5	255.1	270.1
-50°	90.1	107.3	124.8	142.1	158.3	172.3	186.5	201.6	217.5	232.0	245.6
-52.5°	75.9	94.2	109.0	125.5	139.6	151.9	164.9	178.0	191.9	206.7	219.9
-55°	62.5	78.5	95.0	108.0	120.4	131.6	142.3	153.8	165.5	177.9	190.8
-57.5°	49.2	63.2	77.7	92.0	100.7	110.8	120.3	129.4	138.7	148.9	159.3
-60°	37.9	48.6	61.0	72.9	83.5	90.8	98.4	105.9	113.3	120.4	127.9
-62.5°	29.3	36.1	45.0	55.2	64.1	72.4	79.2	83.5	89.1	94.3	99.4
-65°	22.6	26.9	32.4	38.5	46.7	53.5	59.6	64.9	68.9	71.0	73.9
-67.5°	15.8	20.0	23.3	27.4	31.8	36.6	42.0	46.1	49.6	52.4	54.3
-70°	9.8	12.7	16.0	19.1	21.5	24.4	27.3	29.9	33.2	35.4	36.7
-72.5°	6.0	7.4	9.3	11.3	13.8	15.9	17.4	19.0	20.4	21.7	22.7
-75°	3.6	4.3	5.0	6.2	7.3	8.6	9.5	10.9	11.9	12.5	13.0
-77.5°	2.5	2.8	3.1	3.4	3.9	4.3	4.9	5.4	5.7	5.9	5.9
-80°	1.9	2.1	2.2	2.4	2.5	2.6	2.8	2.9	3.1	3.2	3.2
-82.5°	1.5	1.6	1.7	1.8	1.9	1.9	2.0	2.0	2.0	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: P670541 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL15DBZ-15W-3000K

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	5.1	5.3	5.4	5.4	5.5	5.5	5.5
82.5°	11.2	12.0	12.8	13.3	13.7	14.1	14.4	14.6	14.8	14.9	14.9
80°	22.7	24.0	25.1	26.0	26.7	27.3	27.9	28.3	28.6	28.8	28.9
77.5°	35.8	38.0	39.9	41.7	43.3	44.9	46.3	47.6	48.7	49.8	50.6
75°	54.2	57.1	59.5	62.8	66.2	69.3	72.2	75.0	77.3	79.2	80.6
72.5°	78.9	84.1	89.1	93.7	98.0	102.2	106.3	109.8	112.7	114.9	116.5
70°	108.0	115.2	121.9	127.7	132.9	137.7	141.9	145.7	148.9	151.4	153.5
67.5°	137.5	145.3	152.8	159.9	165.7	170.8	175.5	179.6	183.2	186.3	189.0
65°	165.5	173.9	181.8	189.2	196.1	202.6	208.1	213.0	217.5	221.5	224.8
62.5°	191.1	201.0	210.1	218.7	226.9	234.3	240.9	246.6	251.7	255.9	259.1
60°	217.2	228.3	239.4	250.2	259.9	268.2	275.3	281.1	286.1	290.2	293.5
57.5°	244.2	257.3	270.4	282.1	291.6	298.4	305.1	311.4	316.6	321.1	325.1
55°	272.0	285.1	296.5	307.3	316.8	323.8	330.6	337.3	343.6	349.0	352.9
52.5°	294.8	307.7	318.8	328.8	339.0	347.9	354.6	361.4	367.3	372.2	376.2
50°	315.3	327.4	340.2	350.4	360.8	369.9	377.5	384.1	390.2	395.5	399.7
47.5°	334.7	347.6	360.1	371.6	381.8	391.4	399.4	406.3	412.3	417.5	421.9
45°	353.0	367.0	379.5	391.3	401.7	411.8	420.3	427.3	433.1	438.4	443.0
42.5°	371.1	384.9	397.3	409.4	420.8	430.5	438.9	446.1	452.6	458.3	463.0
40°	387.4	400.9	414.3	426.3	437.3	447.2	456.3	464.5	470.9	476.0	480.1
37.5°	402.0	416.3	429.5	441.7	452.7	463.8	472.9	480.1	485.7	491.8	496.6
35°	415.7	430.3	443.6	456.1	467.6	477.7	486.5	494.6	501.0	506.7	511.2
32.5°	428.5	443.0	456.8	469.2	480.3	490.7	499.7	507.9	514.4	519.6	524.0
30°	440.1	454.8	468.4	480.9	492.1	502.5	511.5	519.4	525.9	530.4	535.2
27.5°	450.2	465.2	479.1	491.4	502.8	512.7	521.2	528.5	536.2	541.6	545.9
25°	459.6	475.0	488.5	500.9	511.5	521.2	530.0	538.3	544.8	552.0	556.3
22.5°	467.8	483.2	496.8	508.3	519.1	529.4	538.4	546.8	553.5	560.9	564.5
20°	474.8	490.1	503.5	514.8	526.7	536.5	545.9	553.5	560.7	567.5	571.2
17.5°	480.3	495.8	508.3	521.7	532.9	542.5	550.8	559.2	567.3	572.4	578.2
15°	485.2	499.9	513.2	526.5	536.9	546.4	555.7	564.6	571.5	577.7	582.6
12.5°	489.1	503.2	517.9	530.6	541.2	550.2	559.9	568.4	576.0	582.2	587.1
10°	491.1	505.7	520.9	533.0	543.1	554.1	563.4	572.1	579.1	585.4	590.3
7.5°	492.5	508.1	522.8	535.4	545.2	556.7	565.6	574.6	582.3	586.8	592.1
5°	493.6	509.5	523.8	536.7	547.2	557.7	567.0	575.8	582.4	589.0	592.0
2.5°	493.7	509.8	523.9	536.2	548.2	557.7	567.3	576.0	582.6	588.4	593.3
0°	492.8	508.9	522.9	535.1	548.0	556.8	566.4	574.9	582.2	587.7	593.5
-2.5°	491.2	507.2	520.9	533.8	546.1	555.3	564.4	572.8	579.7	585.2	590.2
-5°	488.5	504.3	518.2	531.7	542.9	553.0	561.7	569.7	575.8	582.4	586.2
-7.5°	484.5	500.6	515.1	527.9	538.5	549.4	558.1	566.1	571.6	577.6	583.2
-10°	480.3	496.3	510.4	522.9	534.1	544.7	552.9	559.5	566.4	572.3	578.4
-12.5°	476.2	490.8	504.1	515.0	528.4	538.7	547.5	555.7	561.9	567.1	571.7
-15°	469.9	483.6	497.5	510.8	521.5	532.4	541.4	549.5	556.3	561.3	564.8
-17.5°	461.7	476.3	490.9	501.4	511.9	524.1	533.6	541.5	549.0	554.5	559.1
-20°	452.8	468.9	480.9	494.3	505.2	514.4	524.4	532.8	539.4	545.5	551.1



REPORT NUMBER: P670541 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL15DBZ-15W-3000K

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	443.9	458.4	472.4	484.2	495.8	506.2	514.3	522.8	529.6	535.1	539.9
-25°	433.2	447.9	462.3	473.7	484.8	495.5	504.3	511.6	520.1	523.9	528.9
-27.5°	421.2	436.7	449.7	463.0	473.0	482.5	492.2	500.1	507.1	512.4	518.3
-30°	408.5	423.5	437.5	449.0	460.8	469.7	478.3	485.5	493.9	499.3	504.0
-32.5°	394.8	408.7	422.6	435.4	445.9	456.0	464.3	471.4	477.9	483.4	488.3
-35°	379.4	394.0	406.6	418.6	430.3	440.8	448.5	456.4	462.5	467.5	472.3
-37.5°	363.2	377.0	390.3	401.8	411.5	422.2	431.5	439.6	444.7	450.4	454.9
-40°	345.2	358.9	371.8	383.4	394.8	402.9	410.9	419.1	426.0	431.6	436.0
-42.5°	325.7	338.9	351.3	363.4	373.8	383.0	392.3	398.7	404.6	409.8	414.4
-45°	306.0	317.8	329.4	340.6	350.7	360.9	369.1	375.9	381.8	387.3	391.6
-47.5°	284.0	296.7	307.2	316.9	326.3	335.3	343.7	351.1	357.4	362.3	366.0
-50°	259.2	272.2	283.6	293.7	302.1	309.8	317.2	324.3	330.4	335.5	339.4
-52.5°	232.4	243.8	255.8	266.6	275.8	283.8	290.8	296.8	302.2	306.6	310.2
-55°	204.2	214.8	225.0	234.4	243.7	252.9	259.9	266.0	270.9	274.9	278.1
-57.5°	170.2	181.3	192.6	201.9	209.4	216.4	223.0	229.0	234.3	238.5	241.7
-60°	136.3	144.6	153.3	162.0	170.1	177.2	183.4	187.7	191.4	194.7	197.3
-62.5°	104.5	109.1	115.1	121.0	126.7	131.9	136.7	140.5	143.6	145.7	146.8
-65°	76.7	79.2	81.9	84.4	87.4	89.8	92.8	94.9	96.1	96.7	96.5
-67.5°	55.1	54.8	55.0	55.4	56.6	57.4	57.7	57.9	57.4	56.3	54.7
-70°	37.4	37.6	37.1	36.6	36.5	35.9	34.8	33.3	31.8	29.8	27.3
-72.5°	23.6	23.9	23.5	23.1	22.9	22.5	22.0	21.0	19.6	18.0	16.2
-75°	13.3	13.5	13.3	13.4	13.6	13.5	13.1	12.6	11.8	10.9	9.7
-77.5°	6.0	6.0	5.8	6.0	6.3	6.5	6.5	6.3	6.0	5.6	5.1
-80°	3.2	3.1	2.9	2.8	2.7	2.6	2.5	2.4	2.3	2.2	2.0
-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°	1.5	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: P670541 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL15DBZ-15W-3000K

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°	5.5	5.4	5.3	5.2	5.4	5.7	5.9	6.0	6.2	6.3	6.3
82.5°	14.8	14.7	14.4	14.1	14.7	15.1	15.5	15.8	16.1	16.2	16.3
80°	28.8	28.7	28.4	28.0	29.0	29.8	30.6	31.2	31.6	31.9	32.0
77.5°	51.2	51.6	51.7	51.6	52.9	54.0	54.8	55.3	55.6	55.6	55.4
75°	81.6	82.2	82.4	82.1	83.4	84.2	84.7	84.8	84.5	83.8	82.7
72.5°	117.7	118.3	118.4	118.1	119.0	119.4	119.3	118.8	117.7	116.3	114.4
70°	154.9	155.7	156.0	155.7	156.5	156.7	156.3	155.3	153.7	151.6	148.9
67.5°	191.2	192.7	193.6	193.8	194.2	194.0	193.2	191.7	189.7	187.0	183.8
65°	227.3	229.1	230.2	230.6	231.0	230.6	229.5	227.6	225.1	221.8	217.9
62.5°	261.4	262.9	263.5	263.4	264.2	264.3	263.7	262.2	259.8	256.5	252.4
60°	296.1	298.0	299.1	299.4	299.9	299.5	298.3	296.2	293.4	289.9	285.5
57.5°	328.4	330.9	332.6	333.6	333.4	332.4	330.6	328.0	324.5	320.2	315.5
55°	356.1	358.7	360.6	361.7	361.3	360.1	358.2	355.5	352.1	347.7	342.7
52.5°	379.4	381.8	383.5	384.3	384.0	383.0	381.0	378.4	375.1	371.1	366.2
50°	403.0	405.5	407.1	407.9	407.9	406.9	405.1	402.2	398.4	393.9	388.6
47.5°	425.3	427.6	429.2	429.9	429.7	428.7	426.9	424.1	420.6	416.5	411.7
45°	446.8	449.8	451.9	453.0	452.3	450.8	448.3	445.2	441.3	436.8	431.2
42.5°	466.6	469.4	471.2	472.2	471.6	470.1	467.7	464.7	460.9	455.6	449.5
40°	483.2	485.6	487.2	488.0	487.8	486.7	484.8	482.1	478.3	473.3	467.1
37.5°	500.4	503.2	505.1	506.2	505.9	504.9	503.0	499.3	494.5	489.3	483.9
35°	514.5	516.6	517.8	518.3	518.4	517.9	516.6	513.9	509.4	506.0	499.5
32.5°	527.5	530.0	531.9	533.0	532.5	531.1	529.1	526.5	522.8	518.6	512.5
30°	539.3	542.2	544.2	545.4	544.7	543.3	541.3	538.1	533.8	529.3	523.9
27.5°	550.2	553.2	555.3	556.6	555.8	554.2	551.9	548.7	544.2	540.5	532.8
25°	560.6	562.7	564.1	564.8	564.5	563.5	561.4	558.4	554.4	548.9	542.0
22.5°	568.2	571.3	572.5	573.3	573.0	572.0	569.9	566.8	562.7	556.7	550.1
20°	575.1	578.4	580.7	582.1	581.3	579.1	576.1	574.3	570.1	564.1	557.4
17.5°	580.7	584.2	586.3	587.3	586.5	585.1	583.4	580.9	575.1	570.7	563.3
15°	587.0	589.3	590.5	591.0	591.0	590.1	587.3	584.1	580.4	575.4	569.3
12.5°	591.1	593.6	594.7	594.7	594.6	593.5	592.4	588.7	583.6	578.3	574.0
10°	594.1	597.2	598.9	599.2	599.4	597.9	594.4	591.3	587.5	581.3	575.8
7.5°	595.5	598.7	599.1	599.5	599.6	599.6	597.5	592.3	588.5	584.2	576.6
5°	596.4	597.7	600.0	602.2	600.5	599.7	598.1	594.6	590.3	585.3	578.4
2.5°	596.6	598.8	600.4	600.5	599.8	599.4	597.7	595.1	590.7	585.6	578.9
0°	596.2	597.2	598.2	600.2	600.0	599.1	597.3	593.5	590.7	585.5	578.3
-2.5°	594.6	597.0	598.5	599.4	599.2	599.5	597.1	592.9	589.2	583.2	576.4
-5°	591.8	593.9	595.3	596.8	597.0	597.0	593.7	590.8	586.3	579.4	573.7
-7.5°	587.6	590.7	591.8	592.0	593.2	592.5	590.5	587.7	581.6	575.4	569.4
-10°	583.2	587.2	588.2	588.3	588.7	588.0	585.8	581.3	575.9	571.2	564.9
-12.5°	576.6	580.0	582.2	582.6	582.9	581.4	578.3	575.1	570.2	564.9	558.3
-15°	569.6	572.3	574.9	575.8	575.5	574.2	571.4	566.6	563.2	557.7	552.7
-17.5°	561.7	564.3	566.6	567.6	567.0	565.0	562.8	559.2	555.2	550.9	544.9
-20°	554.0	556.4	558.0	558.4	558.0	556.6	554.1	550.7	547.5	542.1	536.0



REPORT NUMBER: P670541 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL15DBZ-15W-3000K

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	544.1	547.0	548.3	548.4	548.3	547.2	545.5	542.0	536.3	532.0	526.0
-25°	532.8	535.2	536.7	537.1	537.0	535.7	533.2	530.3	525.8	521.5	516.1
-27.5°	521.0	522.9	524.5	524.9	524.8	523.7	521.8	519.2	515.1	510.0	503.4
-30°	507.9	510.5	512.2	512.8	512.7	511.5	509.3	505.9	501.5	496.4	490.0
-32.5°	492.6	495.2	496.4	496.6	496.8	495.9	493.8	490.6	486.6	481.4	475.0
-35°	475.8	478.3	480.0	480.6	480.7	479.5	477.3	474.2	470.3	465.7	459.7
-37.5°	458.4	460.7	461.9	462.2	462.5	461.7	459.9	456.8	452.8	448.3	440.9
-40°	438.5	440.2	441.1	441.0	441.6	441.2	439.4	436.4	432.9	428.3	422.3
-42.5°	417.8	419.9	421.0	421.0	421.4	420.7	419.1	416.4	412.8	407.7	401.8
-45°	394.8	397.2	398.6	398.9	399.1	398.1	396.1	393.2	389.7	385.5	380.3
-47.5°	368.8	370.4	371.0	370.6	371.6	371.6	370.6	368.5	365.4	361.3	356.1
-50°	342.4	344.4	345.3	345.2	346.0	345.8	344.5	342.0	338.6	334.4	329.2
-52.5°	313.0	314.9	315.8	315.6	316.5	316.3	315.2	313.1	310.2	306.5	301.5
-55°	280.3	281.7	282.0	281.2	282.6	282.9	282.2	280.6	278.2	274.8	270.6
-57.5°	243.5	244.2	243.9	242.6	244.6	245.6	245.6	244.5	242.3	239.2	235.1
-60°	199.0	199.7	199.2	197.4	200.1	201.5	201.7	200.9	199.3	197.1	194.4
-62.5°	146.8	145.7	143.5	140.0	144.6	148.1	150.5	151.9	152.5	152.2	151.3
-65°	95.3	93.2	90.2	86.2	91.9	96.6	100.4	103.4	105.4	106.7	107.6
-67.5°	52.7	50.0	46.6	42.5	48.5	53.8	58.4	62.3	65.7	68.9	71.3
-70°	24.3	21.0	17.3	13.5	19.1	24.4	29.4	33.9	37.8	41.2	43.8
-72.5°	14.1	11.8	9.3	6.8	10.2	13.6	16.7	19.5	22.0	24.2	26.0
-75°	8.5	7.1	5.6	4.1	6.0	7.8	9.5	11.0	12.4	13.5	14.3
-77.5°	4.6	3.9	3.2	2.5	3.3	4.1	4.8	5.4	6.0	6.4	6.7
-80°	1.8	1.7	1.5	1.3	1.6	1.8	2.1	2.3	2.5	2.7	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°	0.8	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: P670541 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL15DBZ-15W-3000K

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°	6.3	6.3	6.3	6.2	6.1	5.7	5.3	4.9	4.6	4.3	3.9
82.5°	16.2	16.1	15.9	15.6	15.1	14.1	13.1	12.1	11.3	10.4	9.5
80°	31.9	31.7	31.3	30.7	29.7	27.8	25.9	23.9	22.2	20.4	18.5
77.5°	54.9	54.0	52.9	51.4	49.3	46.0	42.6	39.5	36.8	34.1	31.2
75°	81.2	79.8	78.2	76.4	73.5	69.1	64.5	59.8	55.0	50.2	45.5
72.5°	112.1	109.4	106.7	103.9	99.8	93.9	87.5	81.2	74.9	68.4	62.4
70°	145.7	142.0	137.8	133.4	127.7	120.9	113.4	105.7	98.3	90.2	81.8
67.5°	179.9	175.5	170.5	165.0	157.6	149.5	141.3	132.8	123.9	113.5	103.2
65°	213.2	207.9	202.5	196.8	188.5	179.3	169.6	159.2	148.6	138.6	127.8
62.5°	247.3	241.1	234.1	226.6	217.7	208.2	198.8	187.7	175.3	162.5	149.7
60°	280.4	274.6	267.9	259.1	248.3	237.0	226.0	214.4	202.4	189.2	174.1
57.5°	310.7	305.0	298.1	289.0	278.3	266.7	254.1	240.5	227.3	213.6	199.3
55°	336.9	330.5	323.0	314.4	304.8	293.0	280.5	266.8	252.2	236.7	221.8
52.5°	360.3	353.7	346.2	337.1	327.0	315.7	304.2	290.1	275.6	259.8	243.0
50°	381.9	375.2	367.4	357.9	347.9	336.9	324.6	311.2	296.7	280.8	263.8
47.5°	404.7	396.8	388.1	377.6	367.6	356.0	343.9	330.6	315.8	300.3	282.6
45°	424.9	418.1	409.2	397.9	387.1	374.3	361.7	348.2	333.7	317.6	300.6
42.5°	443.5	436.2	426.8	417.0	405.8	393.1	379.0	364.8	349.9	334.1	316.5
40°	460.7	451.8	443.2	433.9	422.3	410.3	396.1	381.4	365.2	349.0	331.6
37.5°	476.5	467.9	458.5	448.3	437.8	425.3	412.0	396.7	380.7	362.9	345.3
35°	491.1	482.6	472.7	462.5	451.2	439.0	425.9	411.1	394.7	376.7	357.9
32.5°	505.5	496.0	486.1	475.2	464.3	451.5	438.2	423.7	407.5	390.5	369.2
30°	516.9	507.8	498.6	487.3	475.2	463.6	449.9	435.5	419.1	400.7	381.3
27.5°	526.2	518.6	509.0	498.1	486.2	472.9	459.9	445.6	430.0	410.4	390.2
25°	534.5	527.3	518.1	507.8	495.4	482.8	468.7	452.8	436.7	418.8	398.6
22.5°	542.4	534.1	526.3	515.8	504.7	491.0	476.2	462.2	445.5	427.3	406.2
20°	549.2	541.0	531.2	522.4	511.2	497.8	483.8	467.8	450.3	432.7	412.5
17.5°	555.9	546.5	537.7	526.8	516.2	504.2	489.2	473.4	457.6	438.9	418.2
15°	560.6	551.5	542.4	532.2	522.2	508.6	493.8	478.7	461.8	443.2	423.2
12.5°	565.4	556.8	545.7	536.2	524.1	512.1	498.5	482.6	465.5	446.2	426.8
10°	568.7	559.3	549.3	538.6	527.0	515.0	501.0	485.2	468.5	449.8	429.8
7.5°	571.6	561.6	552.6	540.5	529.6	517.8	502.9	486.9	470.5	452.3	431.8
5°	572.2	562.5	553.4	541.9	531.0	518.8	503.9	488.0	471.6	453.3	432.9
2.5°	571.8	562.5	553.5	542.4	531.5	518.4	504.0	488.3	471.7	453.5	433.0
0°	571.1	561.5	552.9	542.0	531.1	517.6	503.2	487.5	470.9	452.8	432.1
-2.5°	569.2	559.9	551.1	540.3	529.3	515.9	501.4	485.8	469.3	451.1	430.5
-5°	566.0	557.3	548.6	537.7	526.5	513.6	498.7	483.1	466.8	448.5	428.0
-7.5°	561.8	553.8	545.4	533.5	522.6	510.2	495.2	479.6	463.5	445.0	424.7
-10°	557.6	549.1	540.2	528.5	517.2	505.4	490.6	475.1	459.3	440.4	420.5
-12.5°	551.8	544.3	534.6	524.7	511.2	499.3	485.0	469.7	453.7	435.0	414.8
-15°	545.2	537.3	526.7	517.6	506.3	492.5	478.4	463.5	447.3	428.6	407.9
-17.5°	538.1	529.5	520.9	508.0	498.1	485.0	470.7	456.5	439.9	421.3	400.5
-20°	529.0	521.3	510.8	501.6	489.0	476.2	462.5	448.0	431.6	413.2	392.5



REPORT NUMBER: P670541 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL15DBZ-15W-3000K

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	519.8	511.1	502.5	491.0	479.4	466.2	453.5	438.6	421.5	403.1	383.6
-25°	508.4	500.9	490.9	480.4	468.8	456.6	443.0	428.5	411.6	392.7	373.1
-27.5°	496.7	488.2	478.8	468.7	457.5	444.9	431.6	415.9	399.3	381.6	362.5
-30°	482.9	474.7	466.0	456.0	444.2	432.1	418.0	403.3	386.7	368.9	349.0
-32.5°	468.6	460.6	451.9	441.0	430.1	417.6	404.4	389.1	372.6	355.3	335.5
-35°	453.0	443.9	435.4	425.5	414.1	402.5	388.8	373.9	358.1	339.2	321.1
-37.5°	434.2	426.6	418.4	408.1	397.8	385.6	372.0	357.6	340.4	324.2	306.2
-40°	415.6	407.5	399.9	390.5	379.5	367.0	353.7	338.3	323.8	307.0	289.8
-42.5°	395.7	388.8	380.2	370.4	358.9	346.6	333.1	320.0	304.9	289.2	271.8
-45°	374.1	366.7	357.5	347.4	336.6	325.3	313.1	299.9	285.3	269.3	251.6
-47.5°	349.1	341.2	333.0	324.0	314.5	303.3	291.5	278.0	263.4	247.2	230.3
-50°	323.0	316.3	308.8	300.1	290.6	279.6	267.1	253.7	239.1	224.0	208.5
-52.5°	295.9	289.7	282.5	273.6	263.5	252.3	240.3	227.5	214.2	199.9	184.0
-55°	265.4	259.3	251.8	243.2	233.8	223.4	212.5	200.5	187.5	172.7	156.6
-57.5°	230.2	224.7	218.8	211.7	202.9	193.1	182.4	170.2	157.0	143.9	130.5
-60°	191.3	187.5	183.4	177.5	168.8	159.0	148.7	138.5	127.7	115.9	103.4
-62.5°	149.5	146.9	143.8	139.9	132.9	125.5	117.2	108.3	98.7	88.9	78.1
-65°	108.1	107.8	106.9	105.3	100.3	94.1	87.3	79.9	71.9	64.0	56.7
-67.5°	73.1	74.2	74.5	74.1	70.4	65.3	60.0	54.8	49.6	44.9	40.2
-70°	45.8	47.1	47.3	47.2	45.2	42.3	39.2	36.2	33.0	30.2	27.6
-72.5°	27.2	27.9	28.2	28.1	27.1	25.7	24.2	22.6	20.9	19.1	17.2
-75°	14.9	15.2	15.3	15.0	14.5	13.9	13.2	12.4	11.6	10.6	9.6
-77.5°	7.0	7.1	7.1	7.0	6.8	6.6	6.3	6.0	5.9	5.6	5.3
-80°	3.0	3.0	3.1	3.1	3.2	3.3	3.3	3.2	3.0	2.8	2.6
-82.5°	1.8	1.9	2.1	2.2	2.2	2.2	2.1	1.9	1.8	1.7	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: P670541 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL15DBZ-15W-3000K

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°	8.6	7.7	6.8	5.9	4.9	4.2	3.3	2.6	2.0	1.7	1.4
80°	16.6	14.8	12.8	11.3	9.9	8.3	6.4	4.7	3.4	2.5	1.8
77.5°	28.1	24.9	22.0	19.1	16.4	13.5	10.5	8.0	5.8	4.0	2.7
75°	40.9	37.1	33.3	29.3	25.1	20.8	15.8	11.9	8.6	6.1	4.1
72.5°	56.4	50.7	45.0	39.6	35.0	29.3	22.8	17.1	12.3	8.5	5.7
70°	73.3	65.2	58.1	51.4	45.1	37.7	30.3	23.2	16.9	11.5	7.6
67.5°	93.7	83.7	73.4	63.6	55.6	46.7	37.6	29.5	22.0	15.3	9.9
65°	115.6	102.7	91.3	79.9	67.4	55.8	45.6	35.9	27.2	19.5	12.7
62.5°	138.1	125.4	110.3	96.2	82.7	66.8	53.7	42.8	32.5	23.7	16.0
60°	158.9	144.6	131.4	115.5	97.0	79.8	63.3	49.7	38.3	27.9	19.2
57.5°	182.8	165.2	148.3	134.2	114.2	92.5	74.4	57.3	44.1	32.5	22.4
55°	205.8	188.1	168.2	149.1	130.1	107.3	85.3	66.7	50.1	37.2	25.7
52.5°	226.3	209.0	189.7	166.3	142.8	121.8	97.3	75.4	57.1	41.9	29.4
50°	245.8	227.6	208.9	184.9	157.6	133.9	110.2	85.2	64.4	46.7	32.9
47.5°	264.5	245.2	225.2	201.4	174.4	145.9	122.2	95.5	71.2	51.9	36.5
45°	281.5	262.0	240.0	215.8	190.1	160.0	132.2	106.0	79.3	57.4	40.0
42.5°	297.8	277.3	254.5	229.6	203.0	174.7	142.2	116.2	87.2	62.6	43.5
40°	312.6	291.0	268.3	243.3	215.3	187.1	154.5	124.5	94.8	68.0	47.1
37.5°	325.9	304.4	280.4	255.7	227.7	197.6	166.7	132.4	103.5	74.0	50.7
35°	337.8	316.3	292.7	267.3	239.6	207.8	177.5	140.9	111.0	79.5	54.1
32.5°	348.5	327.0	303.7	277.3	250.1	218.5	185.7	150.6	117.3	84.4	57.3
30°	358.3	336.5	313.4	287.5	259.6	228.5	193.3	159.7	122.8	89.7	60.4
27.5°	367.7	345.1	321.9	296.6	267.9	237.4	200.9	168.1	127.7	95.4	64.1
25°	377.3	352.9	329.4	304.5	275.5	245.1	209.0	173.5	133.5	100.5	67.4
22.5°	384.5	360.1	336.0	311.1	282.7	251.8	216.3	178.3	139.6	104.3	70.1
20°	390.6	366.8	341.8	316.7	289.0	257.7	222.8	182.7	145.0	107.7	72.1
17.5°	396.2	372.8	346.8	321.5	294.5	262.5	228.3	186.4	149.6	110.4	73.6
15°	400.8	377.2	351.0	325.4	298.7	266.5	232.5	189.8	153.5	112.2	74.7
12.5°	404.4	380.6	354.6	328.5	301.8	270.0	235.9	193.4	156.6	113.4	75.8
10°	406.8	383.3	357.4	330.9	304.2	272.7	238.5	196.1	158.1	114.2	77.1
7.5°	408.4	385.0	359.3	332.4	305.7	274.6	240.1	198.0	158.7	114.4	77.8
5°	409.3	385.9	360.2	333.2	306.5	275.6	240.9	199.1	158.7	114.1	77.9
2.5°	409.3	385.9	360.2	333.2	306.4	275.8	240.9	199.1	158.0	113.3	77.5
0°	408.3	385.0	359.3	332.3	305.7	275.1	240.2	198.2	156.8	112.1	76.5
-2.5°	406.9	383.6	357.9	330.9	304.3	273.7	238.9	197.2	156.0	111.5	75.9
-5°	404.5	381.3	355.6	328.8	302.2	271.5	236.9	195.1	154.7	110.5	74.7
-7.5°	401.2	378.1	352.4	325.8	299.3	268.3	234.1	192.1	152.7	109.0	72.9
-10°	397.2	374.1	348.3	322.1	295.7	264.4	230.5	188.1	150.1	107.0	70.6
-12.5°	392.4	369.1	343.4	317.6	291.2	259.6	225.8	183.1	146.6	104.4	67.7
-15°	386.4	362.8	337.7	312.3	286.0	254.0	220.4	177.3	141.5	101.4	65.2
-17.5°	379.1	355.6	330.9	306.1	279.5	247.6	214.1	171.6	135.6	97.8	63.0
-20°	371.4	347.5	323.2	299.0	271.6	240.5	206.4	165.7	128.9	93.1	60.4



REPORT NUMBER: P670541 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL15DBZ-15W-3000K

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	362.3	338.9	315.3	290.9	262.9	232.6	197.6	159.1	121.7	87.9	57.5
-25°	351.5	329.2	306.3	282.0	253.3	223.8	187.7	152.1	113.9	82.1	53.9
-27.5°	340.2	318.4	296.2	271.5	243.2	213.7	176.5	144.5	106.3	75.5	49.6
-30°	328.8	307.5	285.0	259.5	232.3	202.3	166.3	133.8	99.4	68.4	45.0
-32.5°	315.4	295.2	272.9	246.8	220.7	189.4	156.0	122.5	91.7	62.3	41.5
-35°	302.3	281.5	258.4	233.7	207.6	174.7	145.3	111.3	83.1	57.5	38.2
-37.5°	287.2	266.7	243.3	219.9	192.6	161.4	132.0	100.8	73.9	51.8	34.9
-40°	271.2	249.7	227.8	204.6	175.6	148.1	117.7	90.5	64.2	45.3	31.5
-42.5°	252.5	232.3	211.6	187.2	159.4	132.8	104.0	79.5	57.6	40.2	28.0
-45°	233.0	214.6	193.3	167.5	143.3	115.9	91.2	68.1	50.4	35.8	24.6
-47.5°	213.3	194.6	172.5	149.4	124.5	100.2	78.2	58.5	42.3	31.3	21.0
-50°	191.3	171.5	151.7	129.5	106.3	85.0	65.2	50.2	37.1	26.9	17.5
-52.5°	166.1	148.4	129.5	108.8	88.5	70.3	55.1	41.2	31.7	22.4	14.5
-55°	141.3	124.4	106.6	88.9	72.0	57.5	45.1	35.2	26.3	18.2	11.6
-57.5°	115.3	100.5	84.9	70.5	57.7	46.8	37.1	28.8	21.1	14.3	9.3
-60°	90.9	77.8	65.8	55.5	46.1	37.4	30.1	22.8	16.1	11.0	7.1
-62.5°	68.0	58.6	50.6	42.6	36.3	29.7	23.1	17.1	12.1	8.4	5.2
-65°	49.9	43.7	37.2	33.0	27.7	22.0	16.8	12.4	9.0	6.0	3.6
-67.5°	35.1	31.7	27.8	23.6	19.5	15.2	11.6	8.9	6.2	4.0	2.5
-70°	24.7	21.6	18.5	15.6	12.8	10.1	8.1	5.7	3.9	2.5	1.7
-72.5°	15.3	13.3	11.4	9.5	8.3	6.6	4.6	3.3	2.4	1.7	1.2
-75°	8.4	7.7	6.9	5.8	4.3	3.4	2.5	1.9	1.5	1.2	1.0
-77.5°	4.7	3.9	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: P670541 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: ARFL15DBZ-15W-3000K

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	2.1	1.3	0.9	0.7	0.5	0.5
70°	4.7	2.8	1.6	1.0	0.7	0.6	0.5
67.5°	6.1	3.5	1.9	1.1	0.8	0.6	0.5
65°	7.7	4.4	2.3	1.2	0.8	0.6	0.5
62.5°	9.5	5.4	2.7	1.4	0.8	0.6	0.5
60°	11.8	6.5	3.1	1.5	0.9	0.6	0.5
57.5°	14.2	7.7	3.8	1.7	0.9	0.6	0.5
55°	16.5	9.0	4.4	1.9	0.9	0.6	0.5
52.5°	18.7	10.7	5.0	2.1	1.0	0.6	0.5
50°	21.2	12.2	5.7	2.3	1.0	0.6	0.5
47.5°	23.6	13.7	6.4	2.5	1.1	0.6	0.5
45°	26.2	15.1	7.0	2.8	1.1	0.6	0.5
42.5°	28.5	16.5	8.0	3.1	1.1	0.6	0.5
40°	31.1	18.0	8.9	3.4	1.2	0.6	0.5
37.5°	33.4	19.4	9.7	3.6	1.2	0.7	0.5
35°	35.6	20.9	10.4	3.9	1.2	0.7	0.5
32.5°	37.6	22.2	11.0	4.1	1.3	0.7	0.5
30°	39.4	23.4	11.6	4.3	1.3	0.7	0.5
27.5°	41.3	24.5	12.0	4.4	1.3	0.7	0.5
25°	43.0	25.7	12.4	4.5	1.3	0.7	0.5
22.5°	44.3	26.6	12.9	4.6	1.3	0.7	0.5
20°	45.4	27.4	13.3	4.7	1.3	0.7	0.5
17.5°	46.4	28.0	13.6	4.9	1.3	0.7	0.5
15°	47.1	28.5	13.9	5.0	1.3	0.7	0.5
12.5°	47.5	28.8	14.0	5.1	1.2	0.7	0.5
10°	47.6	28.9	14.0	5.1	1.2	0.7	0.5
7.5°	47.5	28.8	13.9	5.1	1.2	0.7	0.5
5°	47.1	28.6	13.7	5.0	1.1	0.7	0.5
2.5°	46.4	28.2	13.5	4.9	1.1	0.7	0.5
0°	45.5	27.7	13.1	4.7	1.0	0.7	0.5
-2.5°	45.3	27.5	13.0	4.7	1.0	0.6	0.5
-5°	44.8	27.2	12.9	4.6	1.0	0.6	0.5
-7.5°	44.1	26.8	12.6	4.5	1.0	0.6	0.5
-10°	43.2	26.2	12.3	4.3	1.0	0.6	0.5
-12.5°	42.1	25.4	11.9	4.1	1.0	0.6	0.5
-15°	40.7	24.5	11.4	3.9	1.0	0.6	0.5
-17.5°	39.2	23.4	10.9	3.7	1.0	0.6	0.5
-20°	37.5	22.3	10.2	3.4	0.9	0.6	0.5

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REPORT NUMBER: P670541 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: ARFL15DBZ-15W-3000K

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	35.7	21.0	9.5	3.1	0.9	0.6	0.5
-25°	33.8	19.5	8.8	3.0	0.9	0.6	0.5
-27.5°	31.8	18.0	8.2	2.8	0.9	0.6	0.5
-30°	29.6	16.5	7.6	2.6	0.9	0.6	0.5
-32.5°	27.3	15.0	6.9	2.4	0.9	0.6	0.5
-35°	24.8	13.5	6.3	2.2	0.8	0.6	0.5
-37.5°	22.3	12.0	5.5	2.0	0.8	0.6	0.5
-40°	19.7	10.6	4.8	1.7	0.8	0.6	0.5
-42.5°	17.0	9.1	4.1	1.5	0.8	0.6	0.5
-45°	14.8	7.9	3.3	1.3	0.8	0.6	0.5
-47.5°	12.4	6.7	2.8	1.1	0.7	0.6	0.5
-50°	10.5	5.5	2.4	1.0	0.7	0.6	0.5
-52.5°	8.5	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	2.1	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)