

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: P670546 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: ARFL30DBZ-30W-3000K

Issue Date: 3/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P670546 (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: ARFL30DBZ-30W-3000K  
Description: SLIM WALL OR FLOODLIGHT  
Light Source:  
Ballast/Driver: -

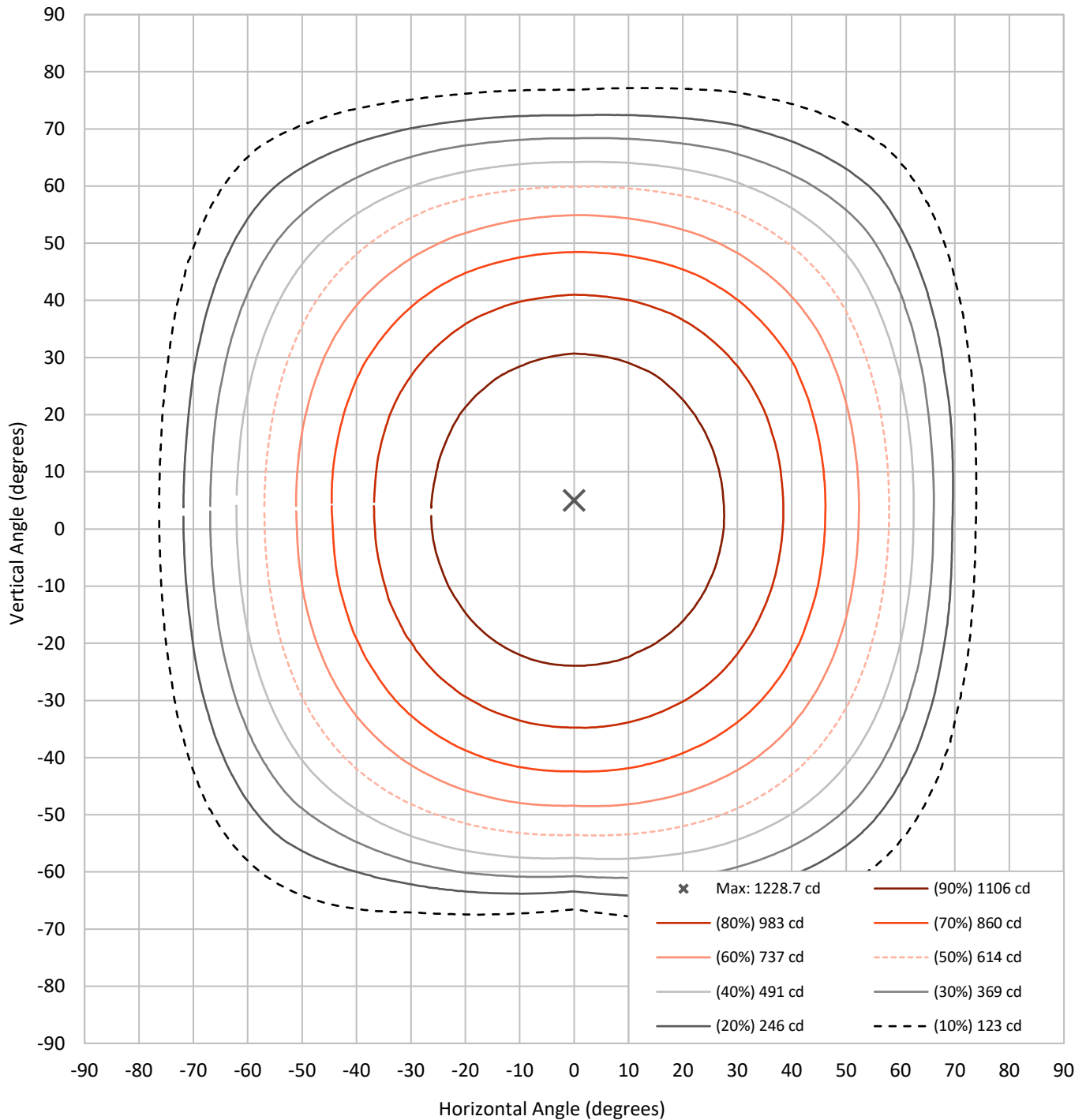
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	3411.1 lumens	Max Intensity:	1228.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 5°V
Efficacy:	117.2 lumens/watt		
Luminous Opening:	Rectangular w/ Sides (W: 0.34' x L: 0.58' x H: 0.15')		
Beam Angle (50%):	114.9°H x 113.4°V	Field Angle (10%):	150.2°H x 143.3°V
Beam Lumens:	2732.8 lumens	Field Lumens:	3360 lumens
Beam Efficiency:	80.1%	Field Efficiency:	98.5%
Input Watts (W):	29.1		
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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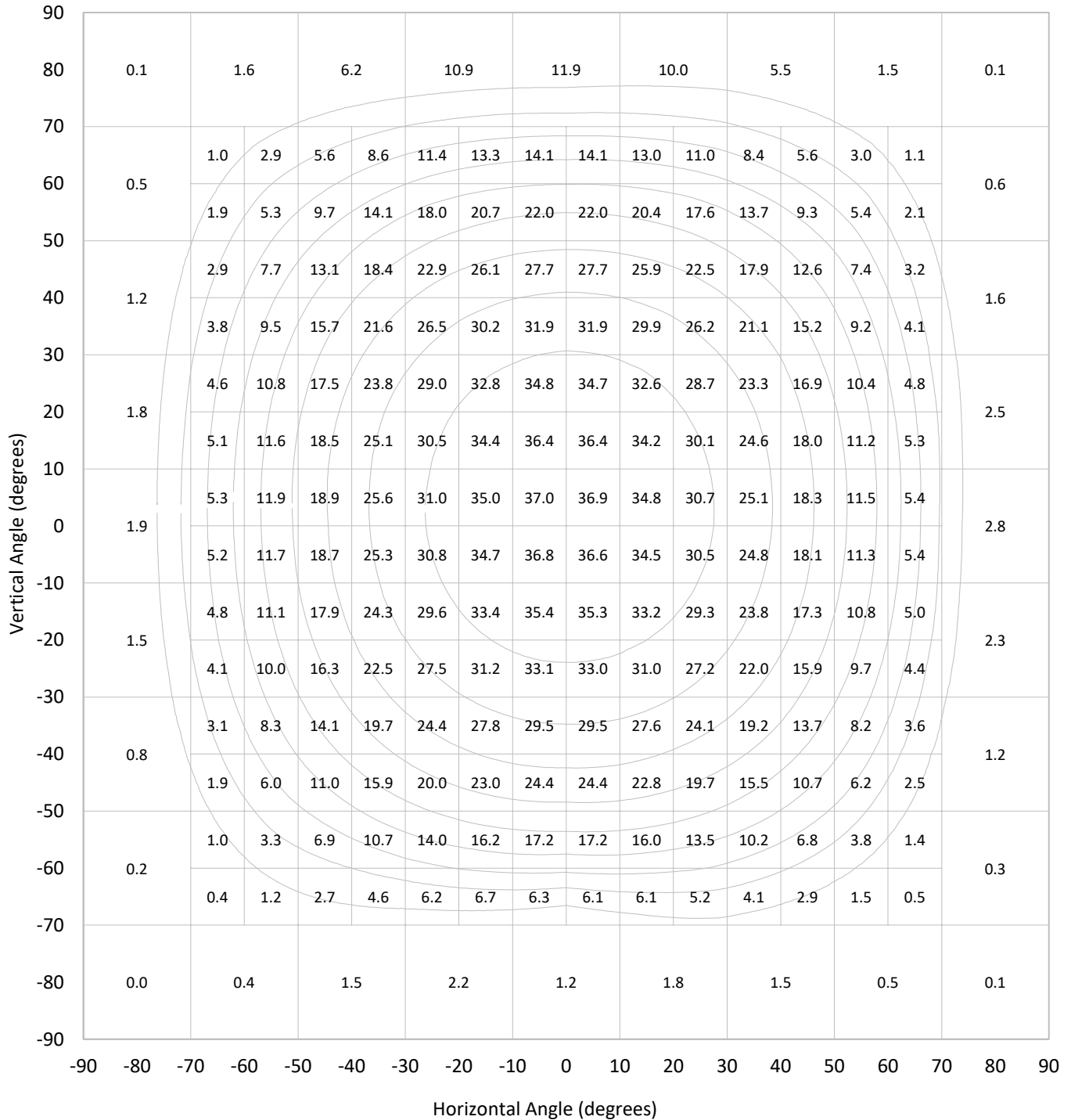
### Iso-Candela Plot





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### Lumen Table



Classified

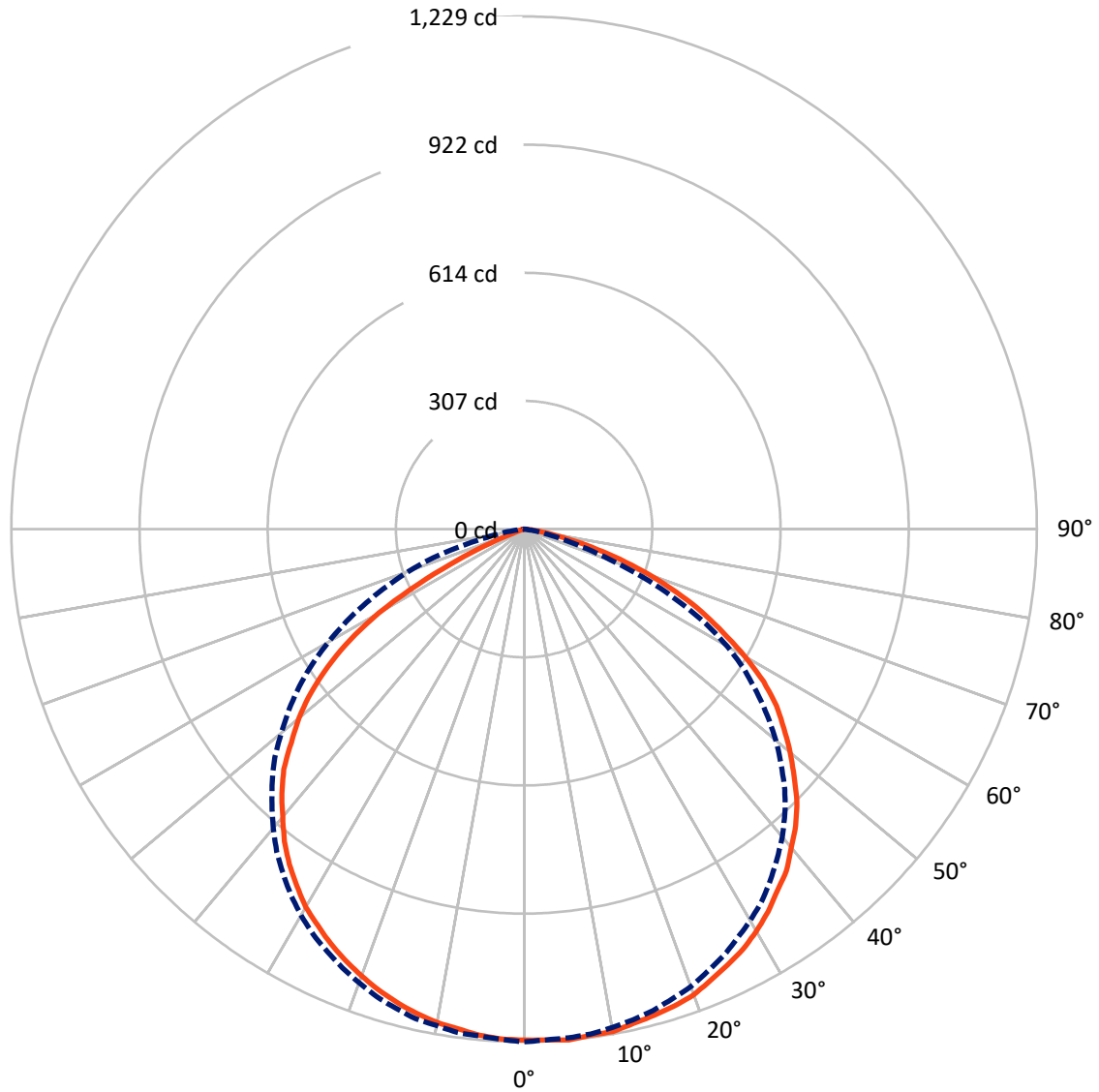
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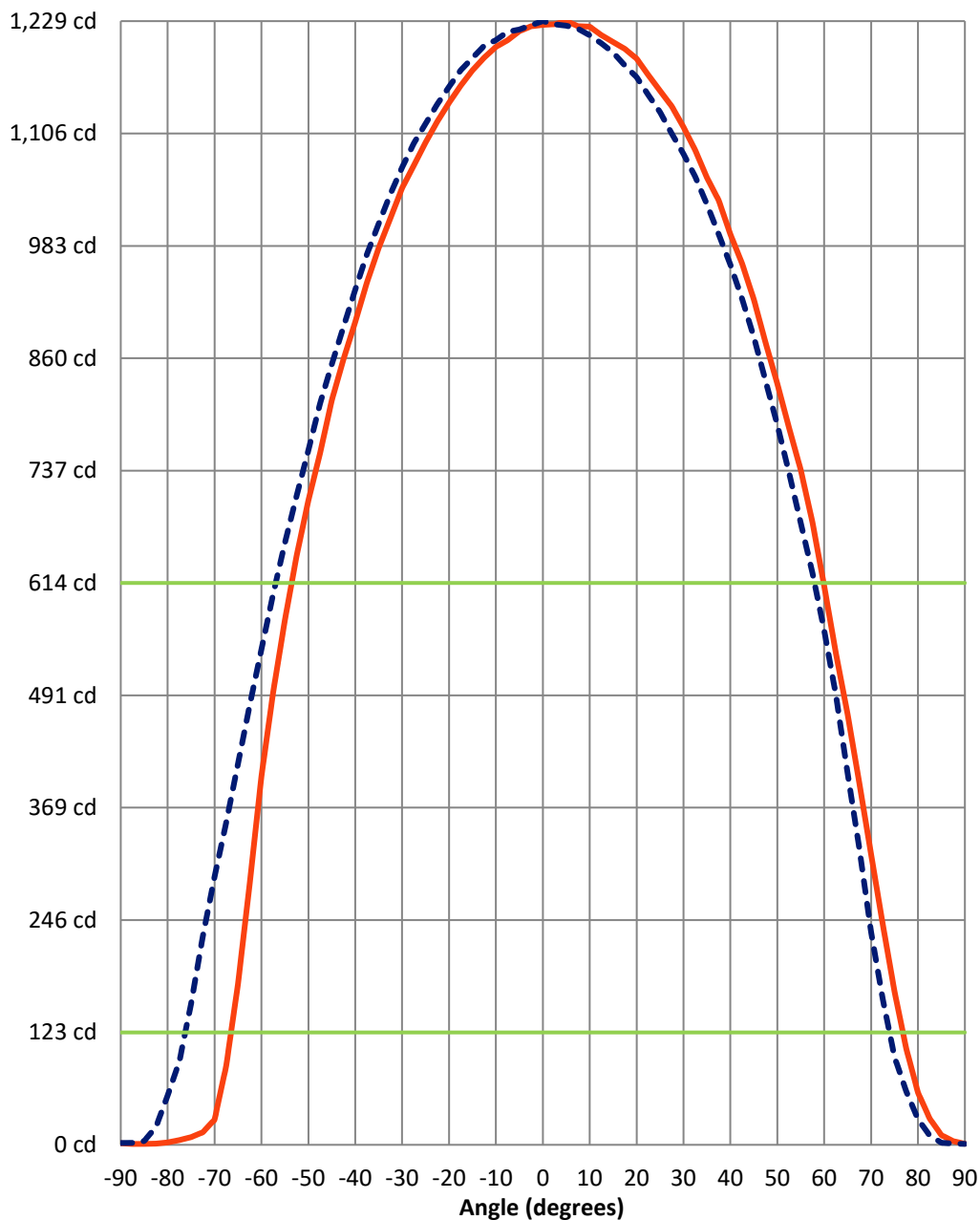
### Luminous Intensity Polar Plot



— 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: 2732.8  
 Efficiency: 80.1%

**Field:**  
 H Angle: 150.2°  
 V Angle: 143.3°  
 Lumens: 3360  
 Efficiency: 98.5%

**Spill:**  
 Lumens: 51.1  
 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°	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8
87.5°	2.0	2.0	2.1	2.1	2.2	2.3	2.4	2.5	2.7	2.8	3.0
85°	2.0	2.0	2.1	2.2	2.3	2.5	2.7	3.0	3.3	3.6	4.0
82.5°	2.0	2.0	2.1	2.3	2.5	2.8	3.1	3.6	4.1	4.8	5.7
80°	2.0	2.1	2.2	2.4	2.7	3.1	3.6	4.3	5.6	7.0	9.3
77.5°	2.0	2.1	2.2	2.5	2.9	3.5	4.4	5.8	8.2	11.8	15.7
75°	2.0	2.1	2.3	2.6	3.1	4.0	5.5	8.6	12.5	16.8	22.8
72.5°	2.0	2.1	2.3	2.7	3.4	4.9	7.8	11.9	16.6	24.6	34.3
70°	2.0	2.1	2.4	2.9	3.9	6.2	10.3	15.2	23.9	35.3	47.2
67.5°	2.0	2.1	2.4	3.0	4.4	8.0	12.9	21.1	33.3	46.3	59.9
65°	2.0	2.1	2.5	3.2	5.3	9.8	16.6	28.5	42.9	57.6	75.7
62.5°	2.0	2.1	2.5	3.5	6.5	11.7	21.4	37.2	51.9	71.5	94.5
60°	2.0	2.1	2.6	3.8	7.6	14.4	28.1	44.3	63.9	87.1	115.0
57.5°	2.0	2.1	2.6	4.1	8.9	18.0	35.2	52.8	76.6	103.9	137.4
55°	2.0	2.1	2.7	4.8	10.1	22.1	40.7	63.1	89.7	121.9	161.8
52.5°	2.0	2.2	2.7	5.4	11.6	27.6	46.5	73.4	103.0	141.6	183.3
50°	2.0	2.2	2.9	6.0	14.0	32.9	54.9	83.4	117.6	161.6	205.2
47.5°	2.0	2.2	3.0	6.6	16.3	36.9	63.1	93.7	133.2	180.1	227.1
45°	2.0	2.2	3.1	7.3	18.8	40.6	70.6	104.0	149.6	198.1	248.1
42.5°	2.0	2.2	3.2	7.9	22.5	45.5	77.7	114.4	164.9	216.3	267.1
40°	2.0	2.2	3.3	8.5	26.0	51.6	84.8	126.1	179.5	234.6	283.6
37.5°	2.0	2.2	3.3	9.0	29.2	57.5	91.4	138.1	193.0	250.6	301.0
35°	2.0	2.2	3.5	10.0	31.8	62.5	98.1	149.5	206.9	264.9	317.2
32.5°	2.0	2.2	3.7	11.1	33.9	66.9	104.5	160.4	221.0	277.2	331.5
30°	2.0	2.2	3.9	12.2	35.8	71.0	110.3	170.4	233.5	289.7	344.0
27.5°	2.0	2.2	4.0	13.1	37.6	74.7	117.5	179.1	244.5	301.8	355.3
25°	2.0	2.2	4.1	13.9	39.6	78.1	124.2	186.9	254.3	312.1	367.5
22.5°	2.0	2.2	4.2	14.6	42.6	81.1	130.3	194.7	261.9	321.0	378.6
20°	2.0	2.2	4.3	15.4	45.2	83.7	135.7	202.7	268.7	328.7	388.0
17.5°	2.0	2.2	4.3	16.6	47.5	85.8	140.8	209.8	274.6	334.9	396.2
15°	2.0	2.2	4.4	17.5	49.5	87.6	145.1	215.9	280.4	340.0	402.9
12.5°	2.0	2.2	4.4	18.3	51.1	89.2	148.6	220.7	285.1	344.1	408.2
10°	2.0	2.2	4.3	18.9	52.4	90.4	151.4	224.1	288.8	348.0	412.2
7.5°	2.0	2.2	4.3	19.3	53.4	91.1	153.3	226.5	291.4	351.0	415.1
5°	2.0	2.2	4.3	19.5	54.0	91.3	154.4	227.9	293.0	352.7	416.7
2.5°	2.0	2.2	4.2	19.5	54.2	91.1	154.6	228.4	293.5	353.3	417.0
0°	2.0	2.2	4.1	19.4	54.1	90.5	154.0	227.9	292.9	352.6	416.1
-2.5°	2.0	2.2	4.1	19.1	53.5	89.7	152.5	226.1	290.8	350.5	414.0
-5°	2.0	2.2	4.1	18.8	52.5	88.5	150.2	223.2	287.7	347.1	410.6
-7.5°	2.0	2.2	4.0	18.2	51.2	86.9	147.0	219.4	283.5	342.6	405.9
-10°	2.0	2.2	4.0	17.5	49.6	84.9	143.0	214.6	278.3	336.8	400.0
-12.5°	2.0	2.2	3.9	16.6	47.6	82.5	138.2	208.9	272.0	330.2	392.8
-15°	2.0	2.1	3.9	15.5	45.3	79.8	132.6	201.6	264.7	323.3	384.5
-17.5°	2.0	2.1	3.8	14.4	42.7	76.9	126.2	193.1	256.3	315.3	374.7
-20°	2.0	2.1	3.7	13.0	39.9	73.9	119.1	183.5	247.9	306.4	363.8

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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°	2.0	2.1	3.6	12.0	36.7	70.7	112.0	173.0	238.7	295.7	351.6
-25°	2.0	2.1	3.5	11.2	33.3	67.1	104.7	162.9	228.7	283.7	337.5
-27.5°	2.0	2.1	3.3	10.3	30.8	63.4	97.0	153.1	216.2	270.4	322.2
-30°	2.0	2.1	3.2	9.3	28.8	59.2	89.1	142.5	202.4	255.6	307.9
-32.5°	2.0	2.1	3.1	8.3	26.6	54.8	82.9	130.3	186.9	240.4	292.2
-35°	2.0	2.1	2.9	7.3	24.3	50.2	76.5	117.1	169.9	225.8	274.4
-37.5°	2.0	2.1	2.8	6.4	21.7	45.0	70.1	104.3	153.7	208.7	255.0
-40°	2.0	2.1	2.7	5.9	18.6	38.9	64.2	92.6	138.4	189.2	234.7
-42.5°	2.0	2.1	2.6	5.4	15.4	32.7	58.1	81.7	121.6	167.5	216.1
-45°	2.0	2.1	2.5	4.8	12.1	27.8	51.4	72.8	103.7	146.7	193.4
-47.5°	2.0	2.1	2.5	4.3	10.2	24.3	44.5	64.4	89.0	127.2	168.4
-50°	2.0	2.1	2.4	3.9	8.4	20.7	36.7	56.6	76.0	105.8	143.2
-52.5°	2.0	2.1	2.3	3.6	6.7	16.5	28.6	48.2	64.9	87.4	120.0
-55°	2.0	2.0	2.2	3.2	5.7	12.2	23.6	39.5	55.6	72.0	95.3
-57.5°	2.0	2.0	2.2	2.9	4.9	9.4	19.1	30.1	45.9	59.5	76.2
-60°	2.0	2.0	2.2	2.7	4.1	7.2	14.1	22.9	35.5	49.1	61.1
-62.5°	2.0	2.0	2.2	2.6	3.7	5.7	9.7	17.5	25.1	37.4	49.0
-65°	2.0	2.0	2.1	2.4	3.2	4.7	7.2	12.1	18.6	26.1	36.3
-67.5°	2.0	2.0	2.1	2.3	2.8	3.9	5.5	8.3	12.9	18.0	24.2
-70°	2.0	2.0	2.1	2.2	2.6	3.3	4.3	5.8	8.3	11.9	15.7
-72.5°	2.0	2.0	2.1	2.2	2.4	2.8	3.6	4.5	5.7	7.5	9.8
-75°	2.0	2.0	2.0	2.1	2.3	2.5	2.9	3.6	4.4	5.2	6.3
-77.5°	2.0	2.0	2.0	2.1	2.2	2.3	2.6	2.9	3.4	4.0	4.6
-80°	2.0	2.0	2.0	2.0	2.1	2.2	2.3	2.5	2.8	3.1	3.5
-82.5°	2.0	2.0	2.0	2.0	2.0	2.1	2.2	2.3	2.4	2.5	2.7
-85°	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.2	2.3
-87.5°	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0
-90°	2.0	2.0	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.3





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 CATALOG NUMBER: ARFL30DBZ-30W-3000K

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	1.7	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6
87.5°	3.2	3.4	3.4	3.5	3.6	3.6	3.7	3.7	3.7	3.8	3.8
85°	4.5	5.0	5.3	5.5	5.8	6.3	6.7	7.1	7.5	7.8	8.1
82.5°	7.0	8.3	9.3	11.1	12.7	14.3	15.7	17.1	18.5	19.9	21.2
80°	12.6	16.2	18.6	20.8	23.3	26.9	30.3	33.6	37.2	40.5	43.5
77.5°	19.7	25.1	30.7	35.9	41.4	46.6	51.4	55.9	60.3	64.6	68.5
75°	30.7	39.9	47.8	54.4	60.7	67.2	73.8	82.1	89.6	97.4	104.1
72.5°	45.3	55.5	64.9	73.3	84.6	95.8	107.3	118.5	129.3	140.1	150.7
70°	58.9	71.8	87.1	102.0	117.1	133.0	148.5	163.8	178.0	192.4	206.3
67.5°	75.6	94.9	116.7	136.7	156.7	175.5	192.6	210.9	229.1	247.5	264.3
65°	97.3	122.5	151.5	175.4	194.9	216.7	238.0	259.0	279.1	298.6	318.7
62.5°	121.6	153.2	184.9	209.4	234.1	257.7	280.9	303.4	327.4	349.1	369.7
60°	148.4	182.7	215.3	244.5	270.5	295.8	322.6	348.0	372.2	396.5	420.4
57.5°	175.1	210.6	245.5	277.2	304.7	334.7	362.3	389.7	417.5	444.5	471.2
55°	199.8	238.4	274.4	307.7	340.1	370.4	401.2	432.3	462.0	493.0	523.6
52.5°	225.0	264.9	300.9	338.7	372.7	406.3	440.4	473.6	507.4	542.4	573.7
50°	249.4	288.9	329.3	367.2	405.2	442.2	478.3	514.6	552.3	585.2	615.5
47.5°	271.9	313.8	354.8	395.5	437.5	476.3	515.2	554.9	590.8	623.2	653.5
45°	292.0	337.0	379.4	424.4	466.9	508.8	551.3	590.4	625.3	658.3	691.6
42.5°	313.7	358.2	404.6	449.9	495.6	541.8	583.6	621.6	657.7	693.7	726.3
40°	332.8	379.4	428.4	476.6	524.6	569.8	611.6	651.6	690.5	726.3	760.0
37.5°	350.1	400.5	450.3	499.9	549.5	595.4	639.6	681.6	720.2	757.2	790.0
35°	366.7	420.1	472.4	524.7	573.6	620.2	664.8	708.1	748.6	784.3	816.8
32.5°	383.9	437.4	491.0	544.5	594.1	641.9	688.3	732.6	773.6	807.7	841.7
30°	399.6	455.3	510.8	563.8	614.7	662.9	709.7	754.6	793.1	830.7	865.4
27.5°	413.8	471.0	527.5	580.6	632.1	681.6	728.9	772.5	813.2	850.6	887.0
25°	426.0	484.1	541.9	596.3	648.1	698.4	745.9	787.7	829.3	868.9	903.8
22.5°	437.9	497.6	555.0	610.7	662.5	712.9	759.8	804.0	845.5	884.2	919.9
20°	449.2	509.6	566.5	622.3	675.3	725.2	771.4	816.7	858.9	896.4	932.7
17.5°	458.5	518.7	576.5	632.3	685.8	735.8	781.7	828.0	869.6	908.3	945.7
15°	465.3	526.4	585.1	640.6	694.5	744.1	792.3	838.1	878.0	915.9	955.1
12.5°	470.8	532.5	591.9	647.2	700.8	750.4	799.9	845.1	884.9	923.6	962.4
10°	475.1	537.1	597.2	652.5	705.4	755.0	804.9	850.1	890.5	931.2	968.1
7.5°	478.7	540.2	600.5	656.2	708.3	758.0	808.4	852.7	894.2	934.2	971.9
5°	480.7	541.8	602.2	658.1	709.6	759.3	810.5	853.4	894.5	935.0	973.9
2.5°	481.1	541.8	602.4	658.3	709.1	758.9	810.6	852.4	892.9	933.8	973.8
0°	480.1	540.4	601.0	656.7	707.0	756.7	808.8	849.8	890.0	930.9	971.6
-2.5°	477.7	538.2	598.5	654.3	704.7	754.5	806.0	847.6	888.1	928.7	968.9
-5°	473.8	534.5	594.4	650.2	700.7	750.4	801.2	843.7	884.9	924.7	963.9
-7.5°	468.5	529.4	588.7	644.2	695.1	744.5	794.3	838.0	879.8	919.0	956.9
-10°	461.6	522.7	581.3	636.4	687.8	736.9	786.0	830.4	870.8	911.3	947.3
-12.5°	453.9	514.4	572.4	626.7	678.8	727.5	776.1	820.7	859.4	898.6	935.6
-15°	445.1	504.5	562.0	616.2	667.9	716.3	763.8	809.2	847.6	885.8	922.6
-17.5°	434.9	493.1	549.9	604.0	655.8	703.2	749.3	793.9	834.0	873.1	909.2
-20°	422.5	480.2	536.0	589.5	641.9	688.2	733.7	777.1	817.9	853.8	891.0

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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°	408.3	464.8	520.6	573.0	624.0	671.2	716.4	759.3	800.3	836.9	872.9
-25°	393.3	448.1	503.4	555.6	605.4	653.0	697.1	739.2	777.9	815.2	848.3
-27.5°	377.6	431.6	484.8	536.4	584.9	633.2	675.7	717.4	756.0	792.9	827.2
-30°	360.5	412.8	464.2	515.4	562.2	608.8	652.0	693.4	732.0	766.6	801.7
-32.5°	342.0	392.1	441.5	491.6	539.1	583.7	628.3	666.8	705.2	740.5	772.9
-35°	321.7	371.2	419.3	467.0	514.1	556.0	598.9	639.6	675.9	710.9	743.6
-37.5°	301.8	348.6	394.6	439.4	485.2	528.6	568.0	608.2	643.7	678.2	710.7
-40°	280.8	324.5	369.1	412.4	455.4	498.1	536.5	574.0	611.1	642.7	674.5
-42.5°	257.7	299.8	342.3	383.5	423.5	464.5	503.5	537.5	573.3	607.2	636.4
-45°	232.8	274.6	313.9	353.7	391.8	428.0	464.6	500.7	532.5	565.8	596.7
-47.5°	210.6	247.0	285.3	322.2	358.9	390.7	423.3	457.7	490.8	520.4	551.1
-50°	183.8	219.0	254.8	289.9	322.9	351.5	380.6	411.3	443.8	473.4	501.1
-52.5°	154.8	192.2	222.4	256.2	284.8	310.0	336.3	363.2	391.5	421.8	448.6
-55°	127.5	160.2	193.8	220.4	245.7	268.4	290.3	313.7	337.7	362.9	389.3
-57.5°	100.3	129.0	158.6	187.6	205.4	226.2	245.4	263.9	282.9	303.8	324.9
-60°	77.2	99.1	124.5	148.8	170.3	185.3	200.8	216.2	231.1	245.5	261.0
-62.5°	59.6	73.6	91.8	112.6	130.9	147.8	161.5	170.4	181.8	192.4	202.9
-65°	46.1	54.8	66.0	78.6	95.3	109.2	121.7	132.4	140.5	144.8	150.9
-67.5°	32.2	40.8	47.4	55.8	64.7	74.7	85.6	94.2	101.2	106.8	110.8
-70°	19.9	25.7	32.6	38.9	43.7	49.7	55.6	60.9	67.6	72.2	74.8
-72.5°	12.1	15.0	18.8	23.0	28.1	32.4	35.5	38.7	41.6	44.3	46.3
-75°	7.4	8.7	10.0	12.6	14.8	17.4	19.4	22.2	24.2	25.6	26.5
-77.5°	5.1	5.7	6.3	7.0	8.0	8.7	10.0	10.9	11.6	12.1	12.0
-80°	3.9	4.3	4.6	4.8	5.1	5.4	5.7	5.9	6.2	6.4	6.5
-82.5°	3.0	3.2	3.4	3.6	3.8	3.9	4.0	4.1	4.2	4.2	4.2
-85°	2.4	2.5	2.6	2.7	2.8	3.0	3.1	3.1	3.2	3.2	3.2
-87.5°	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
-90°	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.1	2.1	2.1



REPORT NUMBER: P670546 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ARFL30DBZ-30W-3000K

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	2.7	2.8	2.9	2.8	2.6	2.5	2.3	2.2	2.0	1.9	1.7
87.5°	3.9	3.9	3.9	4.0	4.0	4.1	4.1	4.1	4.1	4.1	4.1
85°	8.7	9.3	9.7	10.2	10.5	10.8	11.0	11.1	11.2	11.2	11.2
82.5°	22.9	24.6	26.1	27.2	28.0	28.7	29.3	29.8	30.2	30.4	30.3
80°	46.3	48.9	51.3	53.0	54.5	55.8	56.9	57.7	58.4	58.8	58.9
77.5°	73.1	77.6	81.5	85.0	88.5	91.7	94.6	97.1	99.5	101.6	103.3
75°	110.6	116.5	121.4	128.2	135.2	141.4	147.2	153.0	157.7	161.6	164.5
72.5°	161.1	171.6	181.7	191.1	199.9	208.5	216.9	224.0	229.8	234.4	237.8
70°	220.4	235.1	248.7	260.5	271.2	280.9	289.6	297.3	303.7	309.0	313.1
67.5°	280.6	296.3	311.8	326.4	338.1	348.5	358.0	366.4	373.8	380.1	385.7
65°	337.6	354.8	370.9	386.0	400.1	413.3	424.6	434.7	443.8	451.9	458.6
62.5°	389.9	410.1	428.6	446.3	463.0	478.1	491.5	503.2	513.6	522.1	528.7
60°	443.2	465.9	488.5	510.6	530.4	547.3	561.8	573.6	583.9	592.1	598.9
57.5°	498.2	525.0	551.8	575.5	595.1	609.0	622.6	635.3	646.0	655.2	663.4
55°	554.9	581.7	604.9	627.0	646.4	660.7	674.7	688.2	701.2	712.1	720.0
52.5°	601.6	627.8	650.4	670.9	691.7	709.8	723.5	737.5	749.6	759.4	767.7
50°	643.3	668.0	694.2	715.1	736.1	754.8	770.2	783.7	796.2	807.0	815.6
47.5°	682.8	709.2	734.9	758.2	778.9	798.6	814.9	828.9	841.2	851.8	860.8
45°	720.3	748.9	774.3	798.4	819.6	840.1	857.5	871.9	883.8	894.6	903.9
42.5°	757.2	785.3	810.7	835.3	858.7	878.5	895.5	910.1	923.4	935.0	944.6
40°	790.5	817.9	845.4	870.0	892.2	912.4	931.1	947.8	960.7	971.3	979.5
37.5°	820.2	849.5	876.4	901.2	923.7	946.3	964.8	979.6	991.1	1003.5	1013.2
35°	848.2	877.9	905.1	930.6	954.1	974.8	992.7	1009.2	1022.2	1033.9	1043.0
32.5°	874.3	903.9	932.0	957.3	980.0	1001.1	1019.5	1036.4	1049.7	1060.1	1069.2
30°	898.0	927.9	955.7	981.2	1004.1	1025.2	1043.7	1059.7	1073.0	1082.3	1092.1
27.5°	918.5	949.2	977.7	1002.8	1025.9	1046.0	1063.5	1078.3	1094.1	1105.1	1113.9
25°	937.6	969.3	996.8	1022.1	1043.6	1063.5	1081.5	1098.5	1111.6	1126.3	1135.0
22.5°	954.7	985.9	1013.7	1037.1	1059.2	1080.3	1098.5	1115.7	1129.4	1144.5	1151.8
20°	968.7	1000.1	1027.4	1050.5	1074.6	1094.7	1113.8	1129.3	1144.2	1157.9	1165.5
17.5°	980.1	1011.6	1037.2	1064.6	1087.2	1106.8	1123.9	1141.0	1157.6	1168.0	1179.9
15°	990.0	1019.9	1047.1	1074.2	1095.6	1115.0	1134.0	1152.1	1166.1	1178.8	1188.9
12.5°	998.0	1026.7	1056.8	1082.5	1104.2	1122.6	1142.5	1159.7	1175.3	1187.9	1198.1
10°	1002.0	1031.8	1062.9	1087.7	1108.1	1130.7	1149.6	1167.2	1181.7	1194.5	1204.4
7.5°	1005.0	1036.7	1066.6	1092.5	1112.5	1135.8	1154.0	1172.6	1188.1	1197.3	1208.1
5°	1007.1	1039.6	1068.7	1095.1	1116.5	1137.9	1156.9	1175.0	1188.5	1201.7	1208.0
2.5°	1007.4	1040.1	1068.9	1094.0	1118.6	1138.0	1157.4	1175.4	1188.8	1200.5	1210.5
0°	1005.5	1038.4	1066.9	1091.7	1118.1	1136.1	1155.6	1173.1	1188.0	1199.2	1210.9
-2.5°	1002.3	1034.8	1062.9	1089.1	1114.2	1133.1	1151.4	1168.9	1182.8	1194.0	1204.3
-5°	996.6	1029.0	1057.3	1084.8	1107.6	1128.5	1146.1	1162.6	1174.7	1188.4	1196.2
-7.5°	988.7	1021.4	1050.9	1077.2	1098.7	1121.0	1138.8	1155.1	1166.2	1178.6	1190.0
-10°	980.0	1012.7	1041.3	1066.9	1089.8	1111.4	1128.3	1141.7	1155.8	1167.6	1180.2
-12.5°	971.6	1001.4	1028.5	1050.8	1078.1	1099.2	1117.0	1133.8	1146.4	1157.1	1166.5
-15°	958.9	986.7	1015.1	1042.1	1064.1	1086.3	1104.6	1121.3	1134.9	1145.1	1152.5
-17.5°	942.2	971.9	1001.6	1023.1	1044.5	1069.4	1088.7	1104.8	1120.1	1131.5	1140.6
-20°	923.8	956.8	981.3	1008.7	1030.9	1049.5	1070.1	1087.1	1100.7	1113.1	1124.4



REPORT NUMBER: P670546 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ARFL30DBZ-30W-3000K

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	905.7	935.2	963.9	987.9	1011.6	1032.9	1049.4	1066.9	1080.4	1091.9	1101.7
-25°	884.0	913.8	943.3	966.7	989.1	1011.0	1028.9	1043.7	1061.3	1069.0	1079.0
-27.5°	859.3	891.0	917.5	944.8	965.2	984.4	1004.4	1020.4	1034.8	1045.5	1057.5
-30°	833.5	864.2	892.6	916.2	940.2	958.4	975.9	990.6	1007.7	1018.7	1028.4
-32.5°	805.5	834.0	862.3	888.4	909.7	930.3	947.3	962.0	975.1	986.1	996.3
-35°	774.0	804.0	829.6	854.0	877.9	899.4	915.0	931.1	943.7	953.9	963.7
-37.5°	741.1	769.1	796.4	819.9	839.7	861.5	880.5	896.9	907.3	918.9	928.1
-40°	704.3	732.3	758.5	782.2	805.7	822.1	838.3	855.2	869.1	880.6	889.6
-42.5°	664.5	691.5	716.8	741.6	762.6	781.4	800.4	813.6	825.6	836.3	845.5
-45°	624.3	648.3	672.1	694.9	715.5	736.4	753.1	767.0	779.0	790.4	799.1
-47.5°	579.6	605.4	626.7	646.5	665.7	684.1	701.3	716.4	729.3	739.2	746.8
-50°	528.8	555.3	578.6	599.2	616.4	632.1	647.1	661.6	674.1	684.5	692.6
-52.5°	474.2	497.5	522.0	544.0	562.8	578.9	593.2	605.5	616.6	625.5	633.0
-55°	416.5	438.3	459.0	478.2	497.3	516.0	530.3	542.7	552.6	560.9	567.3
-57.5°	347.1	369.9	392.9	411.9	427.3	441.6	455.1	467.3	478.0	486.7	493.2
-60°	278.1	295.0	312.8	330.5	347.1	361.6	374.1	382.8	390.6	397.3	402.5
-62.5°	213.1	222.6	234.7	246.8	258.4	269.1	278.7	286.7	293.0	297.3	299.5
-65°	156.6	161.6	167.1	172.1	178.3	183.3	189.3	193.5	196.0	197.3	196.8
-67.5°	112.3	111.9	112.3	113.1	115.6	117.2	117.8	118.2	117.2	114.7	111.6
-70°	76.3	76.7	75.6	74.6	74.4	73.3	71.1	68.0	65.0	60.8	55.7
-72.5°	48.0	48.7	48.0	47.2	46.8	46.0	44.9	42.8	40.1	36.7	33.0
-75°	27.2	27.4	27.0	27.4	27.6	27.4	26.7	25.6	24.1	22.2	19.9
-77.5°	12.2	12.3	11.9	12.3	12.9	13.2	13.2	12.9	12.3	11.5	10.5
-80°	6.5	6.4	6.0	5.8	5.6	5.4	5.2	4.9	4.7	4.4	4.1
-82.5°	4.3	4.3	4.2	4.0	3.9	3.7	3.4	3.2	3.0	2.7	2.5
-85°	3.3	3.3	3.3	3.1	3.0	2.8	2.6	2.4	2.2	2.0	1.8
-87.5°	3.1	3.1	3.2	3.0	2.8	2.6	2.5	2.3	2.1	1.9	1.7
-90°	2.1	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.8	1.8



REPORT NUMBER: P670546 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ARFL30DBZ-30W-3000K

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	1.6	1.4	1.2	1.1	1.2	1.3	1.4	1.5	1.6	1.8	1.9
87.5°	4.1	4.1	4.1	4.1	4.2	4.3	4.3	4.4	4.5	4.6	4.6
85°	11.1	11.0	10.8	10.6	11.1	11.5	11.9	12.3	12.5	12.7	12.9
82.5°	30.2	29.8	29.3	28.7	29.8	30.8	31.6	32.3	32.7	33.0	33.1
80°	58.9	58.6	58.0	57.2	59.2	61.0	62.4	63.6	64.5	65.1	65.3
77.5°	104.5	105.3	105.5	105.2	107.9	110.1	111.8	112.9	113.5	113.5	113.0
75°	166.6	167.8	168.1	167.6	170.2	171.9	172.9	173.1	172.4	171.0	168.8
72.5°	240.1	241.4	241.7	240.9	242.7	243.6	243.4	242.3	240.2	237.2	233.4
70°	316.0	317.8	318.3	317.7	319.3	319.7	318.9	316.9	313.7	309.4	303.9
67.5°	390.1	393.3	395.0	395.4	396.3	395.9	394.1	391.2	387.0	381.6	374.9
65°	463.9	467.6	469.9	470.6	471.3	470.5	468.3	464.5	459.3	452.6	444.6
62.5°	533.4	536.4	537.8	537.5	539.2	539.4	538.0	535.0	530.1	523.5	515.0
60°	604.3	608.2	610.5	611.0	612.0	611.2	608.6	604.5	598.7	591.5	582.6
57.5°	670.0	675.1	678.7	680.6	680.2	678.2	674.6	669.3	662.0	653.4	643.9
55°	726.6	731.8	735.6	737.9	737.1	734.7	730.8	725.4	718.5	709.6	699.2
52.5°	774.2	779.1	782.4	784.2	783.6	781.5	777.5	772.1	765.3	757.2	747.1
50°	822.3	827.3	830.7	832.3	832.2	830.3	826.5	820.7	812.9	803.9	792.9
47.5°	867.8	872.6	875.7	877.1	876.9	874.9	871.1	865.5	858.3	849.8	840.0
45°	911.7	917.8	922.0	924.3	923.0	919.7	914.8	908.4	900.5	891.2	879.9
42.5°	952.1	957.7	961.5	963.5	962.3	959.2	954.3	948.2	940.4	929.5	917.3
40°	985.9	990.7	994.0	995.6	995.1	993.0	989.3	983.8	976.0	965.6	953.1
37.5°	1020.9	1026.7	1030.6	1032.8	1032.2	1030.2	1026.3	1018.8	1009.0	998.3	987.4
35°	1049.7	1054.1	1056.6	1057.6	1057.9	1056.8	1054.0	1048.6	1039.5	1032.3	1019.1
32.5°	1076.2	1081.5	1085.3	1087.6	1086.5	1083.7	1079.6	1074.2	1066.7	1058.2	1045.6
30°	1100.4	1106.2	1110.4	1112.8	1111.5	1108.6	1104.4	1097.8	1089.0	1079.9	1068.9
27.5°	1122.6	1128.8	1133.0	1135.5	1134.0	1130.7	1126.1	1119.6	1110.5	1102.8	1087.1
25°	1143.8	1148.2	1151.0	1152.5	1152.0	1149.7	1145.5	1139.3	1131.2	1120.0	1105.9
22.5°	1159.4	1165.8	1168.1	1169.7	1169.2	1167.1	1162.8	1156.6	1148.3	1135.9	1122.5
20°	1173.5	1180.3	1184.9	1187.7	1186.1	1181.5	1175.5	1171.8	1163.3	1151.1	1137.2
17.5°	1185.0	1192.0	1196.2	1198.3	1196.7	1193.9	1190.5	1185.2	1173.5	1164.6	1149.4
15°	1197.6	1202.5	1204.8	1205.8	1205.8	1204.0	1198.2	1191.8	1184.4	1174.1	1161.7
12.5°	1206.0	1211.1	1213.5	1213.4	1213.2	1211.0	1208.7	1201.0	1190.7	1180.1	1171.1
10°	1212.3	1218.5	1221.9	1222.6	1223.1	1219.9	1212.8	1206.6	1198.7	1186.1	1174.8
7.5°	1215.1	1221.7	1222.5	1223.2	1223.5	1223.4	1219.2	1208.6	1200.8	1191.9	1176.6
5°	1217.0	1219.6	1224.3	1228.7	1225.2	1223.7	1220.4	1213.2	1204.4	1194.3	1180.2
2.5°	1217.2	1221.7	1225.1	1225.4	1223.9	1223.2	1219.6	1214.2	1205.2	1194.9	1181.1
0°	1216.4	1218.5	1220.6	1224.6	1224.2	1222.4	1218.7	1210.9	1205.1	1194.7	1180.0
-2.5°	1213.1	1218.2	1221.3	1223.1	1222.7	1223.2	1218.4	1209.7	1202.1	1189.9	1176.1
-5°	1207.5	1211.8	1214.5	1217.7	1218.1	1218.2	1211.5	1205.6	1196.3	1182.2	1170.5
-7.5°	1198.9	1205.3	1207.4	1207.9	1210.3	1208.8	1204.9	1199.2	1186.7	1174.2	1161.8
-10°	1190.0	1198.0	1200.2	1200.5	1201.3	1199.7	1195.3	1186.1	1175.0	1165.5	1152.7
-12.5°	1176.5	1183.4	1187.9	1188.8	1189.4	1186.3	1179.9	1173.3	1163.5	1152.7	1139.2
-15°	1162.1	1167.8	1173.0	1174.9	1174.2	1171.5	1165.9	1156.2	1149.2	1137.9	1127.7
-17.5°	1145.9	1151.5	1156.1	1158.2	1156.9	1152.9	1148.4	1141.1	1132.9	1124.0	1111.8
-20°	1130.3	1135.3	1138.6	1139.4	1138.7	1135.7	1130.6	1123.6	1117.1	1106.1	1093.7



REPORT NUMBER: P670546 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ARFL30DBZ-30W-3000K

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	1110.3	1116.0	1118.6	1118.9	1118.6	1116.4	1113.2	1105.9	1094.3	1085.6	1073.3
-25°	1087.1	1092.1	1095.1	1096.0	1095.8	1093.2	1088.1	1082.1	1072.8	1064.0	1053.0
-27.5°	1063.0	1067.0	1070.1	1071.0	1070.8	1068.5	1064.6	1059.2	1050.9	1040.4	1027.2
-30°	1036.4	1041.6	1044.9	1046.2	1046.0	1043.6	1039.2	1032.1	1023.2	1012.7	999.7
-32.5°	1005.1	1010.3	1012.7	1013.2	1013.5	1011.7	1007.6	1000.9	992.9	982.2	969.2
-35°	970.7	975.9	979.3	980.6	980.7	978.4	973.8	967.5	959.6	950.2	938.0
-37.5°	935.3	939.9	942.5	943.0	943.5	942.0	938.3	932.0	923.9	914.7	899.7
-40°	894.8	898.3	900.0	899.8	901.1	900.1	896.7	890.5	883.3	873.8	861.5
-42.5°	852.4	856.7	858.9	859.0	859.7	858.4	855.0	849.6	842.3	832.0	819.9
-45°	805.6	810.5	813.4	814.0	814.3	812.3	808.2	802.3	795.1	786.6	776.0
-47.5°	752.5	755.7	757.0	756.3	758.3	758.3	756.3	751.9	745.5	737.2	726.5
-50°	698.6	702.6	704.5	704.3	706.0	705.5	702.8	697.9	691.0	682.3	671.6
-52.5°	638.7	642.5	644.3	644.0	645.7	645.4	643.1	638.9	632.9	625.4	615.2
-55°	571.9	574.6	575.3	573.7	576.6	577.3	575.9	572.6	567.6	560.7	552.2
-57.5°	496.8	498.3	497.7	494.9	499.1	501.1	501.0	498.9	494.4	488.0	479.7
-60°	406.0	407.5	406.5	402.8	408.3	411.1	411.6	410.0	406.8	402.2	396.7
-62.5°	299.5	297.3	292.7	285.7	295.1	302.1	307.0	310.0	311.2	310.7	308.8
-65°	194.5	190.2	184.1	175.9	187.5	197.2	204.9	210.9	215.1	217.7	219.7
-67.5°	107.5	102.0	95.1	86.8	99.0	109.9	119.3	127.2	134.1	140.5	145.5
-70°	49.6	42.9	35.5	27.6	39.0	49.8	59.9	69.1	77.2	84.0	89.3
-72.5°	28.7	24.0	19.0	13.8	20.8	27.7	34.1	39.9	45.0	49.4	53.0
-75°	17.3	14.5	11.5	8.4	12.2	15.9	19.3	22.5	25.2	27.5	29.2
-77.5°	9.4	8.0	6.6	5.2	6.8	8.4	9.8	11.1	12.2	13.0	13.7
-80°	3.7	3.4	3.0	2.6	3.2	3.7	4.2	4.7	5.1	5.5	5.8
-82.5°	2.2	1.9	1.6	1.3	1.6	2.0	2.3	2.6	2.9	3.2	3.5
-85°	1.6	1.4	1.2	1.0	1.2	1.4	1.6	1.8	2.1	2.2	2.4
-87.5°	1.5	1.3	1.1	1.0	1.1	1.2	1.4	1.5	1.7	1.8	1.9
-90°	1.8	1.8	1.7	1.7	1.7	1.8	1.8	1.9	1.9	2.0	2.0



REPORT NUMBER: P670546 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ARFL30DBZ-30W-3000K

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	2.0	2.1	2.2	2.3	2.4	2.3	2.2	2.0	1.9	1.8	1.6
87.5°	4.7	4.7	4.7	4.7	4.7	4.5	4.3	4.1	4.0	3.8	3.6
85°	12.9	12.9	12.8	12.6	12.3	11.6	10.8	10.0	9.4	8.7	8.0
82.5°	33.0	32.8	32.4	31.8	30.8	28.9	26.8	24.8	23.1	21.3	19.5
80°	65.2	64.7	63.9	62.6	60.5	56.7	52.7	48.8	45.4	41.7	37.7
77.5°	111.9	110.2	107.8	104.8	100.6	93.9	87.0	80.6	75.2	69.5	63.6
75°	165.8	162.8	159.5	155.8	149.9	140.9	131.6	122.0	112.1	102.3	92.8
72.5°	228.7	223.2	217.7	212.0	203.8	191.6	178.6	165.7	152.7	139.6	127.4
70°	297.3	289.7	281.2	272.2	260.6	246.7	231.2	215.7	200.6	184.1	166.9
67.5°	366.9	358.0	348.0	336.8	321.6	305.0	288.3	271.0	252.6	231.5	210.6
65°	435.0	424.1	413.1	401.4	384.4	365.8	346.0	325.0	303.3	282.8	260.8
62.5°	504.5	491.9	477.7	462.5	444.2	424.8	405.6	382.8	357.7	331.7	305.5
60°	572.2	560.3	546.5	528.6	506.7	483.5	461.2	437.4	413.0	385.9	355.3
57.5°	634.0	622.3	608.2	589.6	567.8	544.2	518.4	490.8	463.9	435.9	406.7
55°	687.4	674.3	659.2	641.6	621.9	597.8	572.2	544.3	514.6	482.9	452.5
52.5°	735.2	721.8	706.4	687.9	667.2	644.1	620.7	592.0	562.3	530.0	495.9
50°	779.2	765.6	749.6	730.3	709.9	687.3	662.3	635.1	605.5	572.9	538.3
47.5°	825.7	809.7	791.9	770.5	749.9	726.5	701.7	674.5	644.3	612.7	576.7
45°	867.1	853.0	835.0	811.8	789.8	763.7	738.1	710.7	680.9	648.0	613.5
42.5°	904.9	890.1	870.9	850.9	827.9	802.2	773.3	744.5	714.1	681.7	645.8
40°	939.9	921.9	904.4	885.4	861.7	837.3	808.3	778.3	745.3	712.1	676.7
37.5°	972.3	954.6	935.4	914.6	893.3	867.7	840.6	809.3	776.9	740.6	704.7
35°	1002.1	984.8	964.6	943.5	920.6	895.7	869.0	838.8	805.4	768.8	730.3
32.5°	1031.3	1012.1	991.8	969.6	947.3	921.3	894.0	864.5	831.5	796.8	753.5
30°	1054.7	1036.1	1017.3	994.3	969.6	945.8	917.9	888.6	855.1	817.5	778.0
27.5°	1073.7	1058.3	1038.5	1016.3	992.1	965.0	938.3	909.1	877.4	837.5	796.2
25°	1090.5	1075.8	1057.1	1036.0	1010.7	985.0	956.3	923.9	890.9	854.6	813.3
22.5°	1106.8	1089.8	1073.8	1052.5	1029.7	1001.8	971.7	943.0	908.8	871.8	828.9
20°	1120.5	1103.9	1083.9	1066.0	1043.1	1015.7	987.1	954.5	918.8	882.9	841.7
17.5°	1134.3	1115.0	1097.0	1075.0	1053.3	1028.7	998.1	966.0	933.5	895.4	853.4
15°	1144.0	1125.3	1106.9	1086.0	1065.4	1037.9	1007.6	976.8	942.3	904.2	863.6
12.5°	1153.7	1136.1	1113.3	1094.0	1069.5	1045.0	1017.2	984.6	949.8	910.4	870.8
10°	1160.4	1141.1	1120.8	1098.9	1075.2	1050.8	1022.3	990.0	955.9	917.7	876.9
7.5°	1166.1	1145.9	1127.5	1102.7	1080.6	1056.5	1026.1	993.4	960.1	922.7	881.1
5°	1167.4	1147.9	1129.1	1105.7	1083.4	1058.5	1028.2	995.7	962.3	924.9	883.2
2.5°	1166.7	1147.8	1129.4	1106.7	1084.5	1057.9	1028.5	996.2	962.5	925.2	883.4
0°	1165.2	1145.8	1128.2	1105.9	1083.6	1056.2	1026.8	994.7	960.9	923.7	881.6
-2.5°	1161.3	1142.4	1124.6	1102.4	1080.0	1052.7	1023.2	991.2	957.6	920.4	878.4
-5°	1154.9	1137.1	1119.4	1097.1	1074.2	1048.1	1017.7	985.7	952.5	915.1	873.3
-7.5°	1146.3	1130.0	1112.8	1088.6	1066.4	1041.0	1010.4	978.5	945.7	907.9	866.5
-10°	1137.7	1120.5	1102.3	1078.2	1055.4	1031.1	1001.1	969.3	937.1	898.6	858.0
-12.5°	1125.9	1110.6	1090.8	1070.6	1043.2	1018.8	989.6	958.2	925.8	887.5	846.4
-15°	1112.4	1096.3	1074.6	1056.0	1033.0	1004.9	976.1	945.9	912.5	874.5	832.3
-17.5°	1097.8	1080.3	1062.8	1036.6	1016.3	989.6	960.4	931.4	897.4	859.6	817.2
-20°	1079.4	1063.7	1042.2	1023.4	997.8	971.6	943.7	914.1	880.7	843.1	800.9



REPORT NUMBER: P670546 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ARFL30DBZ-30W-3000K

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	1060.5	1042.8	1025.3	1001.9	978.2	951.2	925.3	894.9	860.1	822.5	782.7
-25°	1037.2	1022.0	1001.7	980.3	956.5	931.8	903.8	874.3	839.8	801.3	761.3
-27.5°	1013.4	996.1	977.1	956.4	933.5	907.7	880.5	848.6	814.7	778.6	739.7
-30°	985.4	968.7	950.7	930.4	906.4	881.6	853.0	822.9	789.1	752.7	712.1
-32.5°	956.0	939.7	922.0	899.9	877.5	852.0	825.1	794.0	760.3	725.0	684.5
-35°	924.3	905.7	888.3	868.2	844.9	821.2	793.3	762.9	730.8	692.1	655.2
-37.5°	886.0	870.4	853.7	832.6	811.7	786.8	759.1	729.6	694.5	661.3	624.9
-40°	848.2	831.4	815.9	796.7	774.4	748.9	721.7	690.4	660.5	626.4	591.4
-42.5°	807.3	793.2	775.7	755.8	732.3	707.3	679.7	652.9	622.2	590.2	554.5
-45°	763.3	748.2	729.5	708.9	686.9	663.7	638.8	612.0	582.2	549.4	513.4
-47.5°	712.3	696.2	679.5	661.0	641.7	618.8	594.8	567.2	537.3	504.3	469.9
-50°	659.0	645.4	630.2	612.3	592.9	570.4	545.0	517.6	487.9	457.1	425.4
-52.5°	603.8	591.1	576.3	558.2	537.6	514.9	490.4	464.3	437.0	407.9	375.5
-55°	541.4	528.9	513.8	496.3	477.0	455.9	433.6	409.1	382.5	352.5	319.5
-57.5°	469.7	458.4	446.6	432.0	414.1	394.1	372.2	347.3	320.3	293.7	266.2
-60°	390.4	382.7	374.2	362.3	344.5	324.6	303.4	282.6	260.6	236.6	210.9
-62.5°	305.1	299.8	293.6	285.4	271.2	256.1	239.2	221.0	201.5	181.3	159.5
-65°	220.6	220.1	218.3	215.0	204.7	192.1	178.1	163.0	146.6	130.6	115.6
-67.5°	149.1	151.5	152.1	151.1	143.6	133.3	122.5	111.9	101.2	91.6	81.9
-70°	93.5	96.0	96.5	96.3	92.3	86.2	80.0	73.8	67.3	61.5	56.3
-72.5°	55.6	56.9	57.5	57.3	55.3	52.4	49.3	46.1	42.7	38.9	35.1
-75°	30.3	30.9	31.1	30.6	29.5	28.5	27.0	25.4	23.8	21.8	19.7
-77.5°	14.3	14.6	14.7	14.4	14.0	13.6	12.9	12.2	12.0	11.5	10.7
-80°	6.0	6.2	6.3	6.5	6.7	6.8	6.8	6.5	6.2	5.8	5.2
-82.5°	3.7	4.0	4.2	4.4	4.5	4.4	4.1	3.9	3.7	3.4	3.2
-85°	2.6	2.8	2.9	3.1	3.2	3.0	2.9	2.7	2.5	2.4	2.2
-87.5°	2.1	2.2	2.4	2.5	2.6	2.5	2.3	2.1	2.0	1.8	1.7
-90°	2.0	2.1	2.1	2.2	2.2	2.2	2.1	2.1	2.0	2.0	2.0





REPORT NUMBER: P670546 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ARFL30DBZ-30W-3000K

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	1.5	1.4	1.3	1.1	1.0	0.9	0.9	0.9	0.9	0.9	0.9
87.5°	3.5	3.3	3.2	3.0	2.9	2.7	2.5	2.3	2.1	2.0	1.8
85°	7.3	6.5	5.7	5.1	4.7	4.3	3.7	3.2	2.8	2.5	2.2
82.5°	17.5	15.8	13.9	12.0	10.0	8.6	6.8	5.2	4.0	3.4	2.8
80°	33.9	30.2	26.2	23.1	20.2	17.0	13.1	9.6	7.0	5.1	3.6
77.5°	57.2	50.8	45.0	39.0	33.4	27.5	21.3	16.3	11.9	8.2	5.5
75°	83.5	75.6	67.9	59.7	51.3	42.5	32.4	24.2	17.6	12.4	8.3
72.5°	115.2	103.3	91.9	81.0	71.4	59.8	46.6	34.9	25.1	17.2	11.6
70°	149.6	133.1	118.5	105.0	91.9	76.9	61.8	47.4	34.5	23.6	15.4
67.5°	191.1	170.8	149.7	129.8	113.5	95.3	76.8	60.2	45.0	31.4	20.3
65°	235.9	209.5	186.3	163.0	137.6	114.0	93.1	73.3	55.5	39.8	26.0
62.5°	281.8	255.9	225.1	196.4	168.7	136.3	109.7	87.3	66.4	48.2	32.6
60°	324.3	295.1	267.9	235.5	197.9	162.9	129.1	101.5	78.1	57.0	39.1
57.5°	373.0	337.0	302.8	273.6	232.9	188.8	151.9	116.8	90.1	66.3	45.8
55°	419.9	383.8	343.2	304.3	265.2	218.9	174.0	136.2	102.2	75.9	52.5
52.5°	461.8	426.5	387.1	339.3	291.5	248.5	198.6	153.9	116.4	85.5	59.9
50°	501.6	464.5	426.2	377.3	321.7	273.2	224.8	173.8	131.3	95.2	67.1
47.5°	539.7	500.4	459.5	411.0	355.9	297.8	249.2	194.9	145.3	105.9	74.6
45°	574.4	534.6	489.7	440.3	387.9	326.5	269.7	216.2	161.8	117.2	81.8
42.5°	607.7	565.7	519.4	468.4	414.2	356.5	290.2	237.0	178.0	127.8	88.6
40°	637.6	593.8	547.3	496.4	439.3	381.8	315.2	254.1	193.5	138.7	96.1
37.5°	665.1	620.9	572.1	521.8	464.6	403.2	340.1	270.2	211.1	151.0	103.5
35°	689.3	645.3	597.3	545.4	488.9	423.9	362.2	287.4	226.4	162.3	110.5
32.5°	711.2	667.2	619.6	565.8	510.3	445.7	378.8	307.2	239.4	172.2	116.9
30°	731.2	686.7	639.3	586.6	529.6	466.2	394.5	325.9	250.7	183.0	123.2
27.5°	750.4	704.3	656.8	605.1	546.6	484.4	409.9	343.0	260.5	194.7	130.8
25°	769.8	720.1	672.1	621.1	562.1	500.2	426.3	354.1	272.4	205.1	137.6
22.5°	784.4	734.7	685.6	634.7	576.9	513.8	441.3	363.7	284.8	212.8	143.2
20°	797.0	748.4	697.5	646.2	589.7	525.8	454.6	372.7	295.7	219.7	147.2
17.5°	808.4	760.6	707.6	656.1	600.8	535.6	465.9	380.3	305.2	225.3	150.3
15°	817.9	769.6	716.1	664.0	609.4	543.9	474.4	387.3	313.1	228.9	152.4
12.5°	825.1	776.6	723.6	670.4	615.8	551.0	481.4	394.5	319.5	231.4	154.7
10°	830.0	781.9	729.3	675.2	620.6	556.5	486.7	400.1	322.6	232.9	157.3
7.5°	833.4	785.6	733.2	678.4	623.7	560.3	489.9	404.0	323.8	233.4	158.8
5°	835.3	787.4	735.0	679.9	625.2	562.5	491.6	406.1	323.8	232.8	159.0
2.5°	835.2	787.4	734.9	679.8	625.2	562.8	491.7	406.2	322.5	231.2	158.1
0°	833.2	785.5	733.0	678.1	623.6	561.4	490.1	404.3	320.0	228.7	156.0
-2.5°	830.3	782.6	730.2	675.3	620.8	558.6	487.6	402.2	318.4	227.6	154.8
-5°	825.4	777.9	725.5	670.9	616.6	554.0	483.4	398.0	315.6	225.5	152.4
-7.5°	818.7	771.4	719.1	664.9	610.7	547.6	477.7	391.9	311.6	222.4	148.8
-10°	810.5	763.3	710.7	657.2	603.2	539.5	470.3	383.7	306.3	218.2	144.1
-12.5°	800.6	753.2	700.6	648.1	594.1	529.6	460.9	373.7	299.1	213.0	138.3
-15°	788.4	740.3	688.9	637.2	583.4	518.2	449.7	361.8	288.6	206.8	133.2
-17.5°	773.5	725.5	675.1	624.6	570.3	505.3	436.9	350.2	276.6	199.5	128.5
-20°	757.8	709.0	659.5	610.0	554.2	490.8	421.1	338.1	262.9	190.0	123.3



REPORT NUMBER: P670546 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ARFL30DBZ-30W-3000K

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	739.3	691.4	643.3	593.5	536.4	474.5	403.2	324.6	248.2	179.3	117.4
-25°	717.3	671.7	625.0	575.4	516.9	456.7	382.9	310.4	232.4	167.6	110.0
-27.5°	694.3	649.6	604.4	554.0	496.2	436.1	360.2	294.7	216.8	154.0	101.2
-30°	670.9	627.6	581.5	529.6	474.0	412.7	339.2	273.0	202.7	139.5	91.8
-32.5°	643.5	602.3	556.8	503.6	450.3	386.5	318.3	250.0	187.0	127.2	84.6
-35°	616.8	574.4	527.3	476.7	423.5	356.6	296.5	227.1	169.5	117.3	78.0
-37.5°	586.0	544.1	496.3	448.6	392.9	329.4	269.4	205.7	150.7	105.7	71.2
-40°	553.2	509.5	464.7	417.3	358.3	302.1	240.1	184.7	131.0	92.4	64.3
-42.5°	515.2	474.0	431.6	381.9	325.3	271.0	212.1	162.2	117.4	82.0	57.2
-45°	475.5	437.9	394.4	341.7	292.4	236.5	186.1	139.0	102.7	73.0	50.1
-47.5°	435.1	397.0	352.0	304.9	254.1	204.5	159.5	119.4	86.3	63.9	43.0
-50°	390.3	350.1	309.5	264.2	216.9	173.4	133.1	102.5	75.7	54.8	35.7
-52.5°	338.9	302.8	264.2	221.9	180.7	143.4	112.4	84.0	64.7	45.8	29.5
-55°	288.3	253.8	217.5	181.5	146.9	117.3	91.9	71.9	53.6	37.1	23.6
-57.5°	235.4	205.1	173.3	143.9	117.8	95.4	75.7	58.9	43.0	29.2	18.9
-60°	185.5	158.8	134.3	113.2	94.0	76.3	61.3	46.5	33.0	22.4	14.6
-62.5°	138.7	119.5	103.2	87.0	74.0	60.6	47.1	35.0	24.7	17.1	10.5
-65°	101.8	89.1	75.8	67.4	56.5	44.9	34.3	25.2	18.4	12.2	7.4
-67.5°	71.6	64.7	56.7	48.2	39.8	31.1	23.6	18.1	12.7	8.1	5.0
-70°	50.3	44.1	37.7	31.9	26.1	20.6	16.5	11.7	7.9	5.2	3.5
-72.5°	31.2	27.2	23.3	19.4	16.9	13.4	9.3	6.8	4.8	3.4	2.6
-75°	17.2	15.7	14.1	11.7	8.7	6.9	5.2	4.0	3.1	2.4	2.0
-77.5°	9.6	7.9	6.9	5.7	4.6	3.6	3.0	2.6	2.2	1.9	1.6
-80°	4.7	4.2	3.5	3.1	2.8	2.5	2.2	1.9	1.7	1.5	1.3
-82.5°	3.0	2.7	2.5	2.2	1.9	1.6	1.5	1.3	1.2	1.1	1.0
-85°	2.0	1.8	1.6	1.4	1.2	1.0	1.0	0.9	0.9	0.9	0.9
-87.5°	1.5	1.4	1.2	1.1	0.9	0.8	0.8	0.9	0.9	0.9	0.9
-90°	1.9	1.9	1.8	1.8	1.7	1.7	1.6	1.6	1.5	1.5	1.4

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Scaled Data Report



REPORT NUMBER: P670546 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: ARFL30DBZ-30W-3000K

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	1.0	1.0	1.0	1.0	1.0	1.0	1.0
87.5°	1.6	1.5	1.4	1.3	1.2	1.1	1.0
85°	1.9	1.7	1.5	1.4	1.2	1.1	1.0
82.5°	2.3	1.9	1.7	1.4	1.3	1.1	1.0
80°	2.9	2.2	1.8	1.5	1.3	1.1	1.0
77.5°	3.8	2.7	2.0	1.6	1.3	1.1	1.0
75°	5.2	3.3	2.3	1.7	1.4	1.2	1.0
72.5°	7.3	4.3	2.6	1.9	1.4	1.2	1.0
70°	9.7	5.6	3.2	2.0	1.5	1.2	1.0
67.5°	12.6	7.2	3.8	2.2	1.5	1.2	1.0
65°	15.8	9.0	4.6	2.5	1.6	1.2	1.0
62.5°	19.4	11.0	5.6	2.8	1.7	1.2	1.0
60°	24.1	13.2	6.5	3.1	1.7	1.2	1.0
57.5°	29.0	15.6	7.8	3.4	1.8	1.3	1.0
55°	33.7	18.3	9.0	3.9	1.9	1.3	1.0
52.5°	38.2	21.8	10.3	4.3	1.9	1.3	1.0
50°	43.3	25.0	11.7	4.7	2.0	1.3	1.0
47.5°	48.2	28.0	13.0	5.1	2.1	1.3	1.0
45°	53.3	30.8	14.3	5.8	2.2	1.3	1.0
42.5°	58.1	33.7	16.4	6.4	2.3	1.3	1.0
40°	63.3	36.8	18.2	6.9	2.4	1.3	1.0
37.5°	68.2	39.7	19.9	7.4	2.4	1.3	1.0
35°	72.7	42.6	21.3	7.9	2.5	1.3	1.0
32.5°	76.8	45.3	22.5	8.3	2.6	1.3	1.0
30°	80.4	47.7	23.6	8.7	2.6	1.3	1.0
27.5°	84.3	50.0	24.5	9.0	2.7	1.3	1.0
25°	87.6	52.3	25.3	9.2	2.7	1.3	1.0
22.5°	90.4	54.3	26.4	9.4	2.7	1.3	1.0
20°	92.6	56.0	27.2	9.6	2.7	1.3	1.0
17.5°	94.7	57.2	27.8	10.0	2.7	1.3	1.0
15°	96.1	58.2	28.3	10.2	2.6	1.3	1.0
12.5°	96.9	58.8	28.5	10.4	2.6	1.3	1.0
10°	97.2	59.0	28.5	10.4	2.5	1.3	1.0
7.5°	96.9	58.9	28.3	10.3	2.4	1.3	1.0
5°	96.1	58.4	28.0	10.2	2.3	1.3	1.0
2.5°	94.7	57.7	27.4	9.9	2.2	1.3	1.0
0°	92.9	56.6	26.7	9.6	2.1	1.3	1.0
-2.5°	92.4	56.2	26.5	9.5	2.1	1.3	1.0
-5°	91.4	55.6	26.2	9.4	2.1	1.3	1.0
-7.5°	90.0	54.7	25.7	9.1	2.1	1.3	1.0
-10°	88.2	53.4	25.0	8.8	2.1	1.3	1.0
-12.5°	85.9	51.9	24.2	8.4	2.1	1.3	1.0
-15°	83.1	50.0	23.3	8.0	2.0	1.3	1.0
-17.5°	80.0	47.9	22.1	7.4	2.0	1.3	1.0
-20°	76.5	45.5	20.9	6.8	2.0	1.3	1.0

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Scaled Data Report



REPORT NUMBER: P670546 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: ARFL30DBZ-30W-3000K

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	72.8	42.8	19.5	6.4	1.9	1.3	1.0
-25°	69.0	39.8	18.0	6.1	1.9	1.2	1.0
-27.5°	64.8	36.6	16.7	5.7	1.8	1.2	1.0
-30°	60.3	33.6	15.5	5.3	1.8	1.2	1.0
-32.5°	55.7	30.6	14.2	4.9	1.7	1.2	1.0
-35°	50.7	27.5	12.8	4.5	1.7	1.2	1.0
-37.5°	45.6	24.4	11.3	4.0	1.6	1.2	1.0
-40°	40.3	21.6	9.8	3.6	1.6	1.2	1.0
-42.5°	34.7	18.7	8.3	3.2	1.5	1.2	1.0
-45°	30.1	16.0	6.6	2.7	1.5	1.2	1.0
-47.5°	25.3	13.7	5.7	2.3	1.5	1.1	1.0
-50°	21.4	11.3	5.0	2.1	1.4	1.1	1.0
-52.5°	17.5	9.1	4.1	1.9	1.4	1.1	1.0
-55°	14.2	6.9	3.5	1.8	1.3	1.1	1.0
-57.5°	10.9	5.5	2.8	1.7	1.3	1.1	1.0
-60°	8.2	4.4	2.2	1.6	1.3	1.1	1.0
-62.5°	5.8	3.4	2.0	1.5	1.2	1.1	1.0
-65°	4.4	2.6	1.8	1.4	1.2	1.1	1.0
-67.5°	3.3	2.1	1.6	1.3	1.1	1.1	1.0
-70°	2.4	1.8	1.5	1.2	1.1	1.1	1.0
-72.5°	2.0	1.6	1.3	1.2	1.1	1.1	1.0
-75°	1.6	1.4	1.2	1.1	1.1	1.0	1.0
-77.5°	1.4	1.2	1.1	1.1	1.1	1.0	1.0
-80°	1.2	1.1	1.1	1.0	1.0	1.0	1.0
-82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0
-85°	1.0	1.0	1.0	1.0	1.0	1.0	1.0
-87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0
-90°	1.4	1.3	1.2	1.2	1.1	1.1	1.0

(END OF REPORT)