

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: P670548 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: ARFL30DBZ-30W-4000K

Issue Date: 3/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P670548 (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-4000K  
Description: SLIM WALL OR FLOODLIGHT  
Light Source:  
Ballast/Driver: -

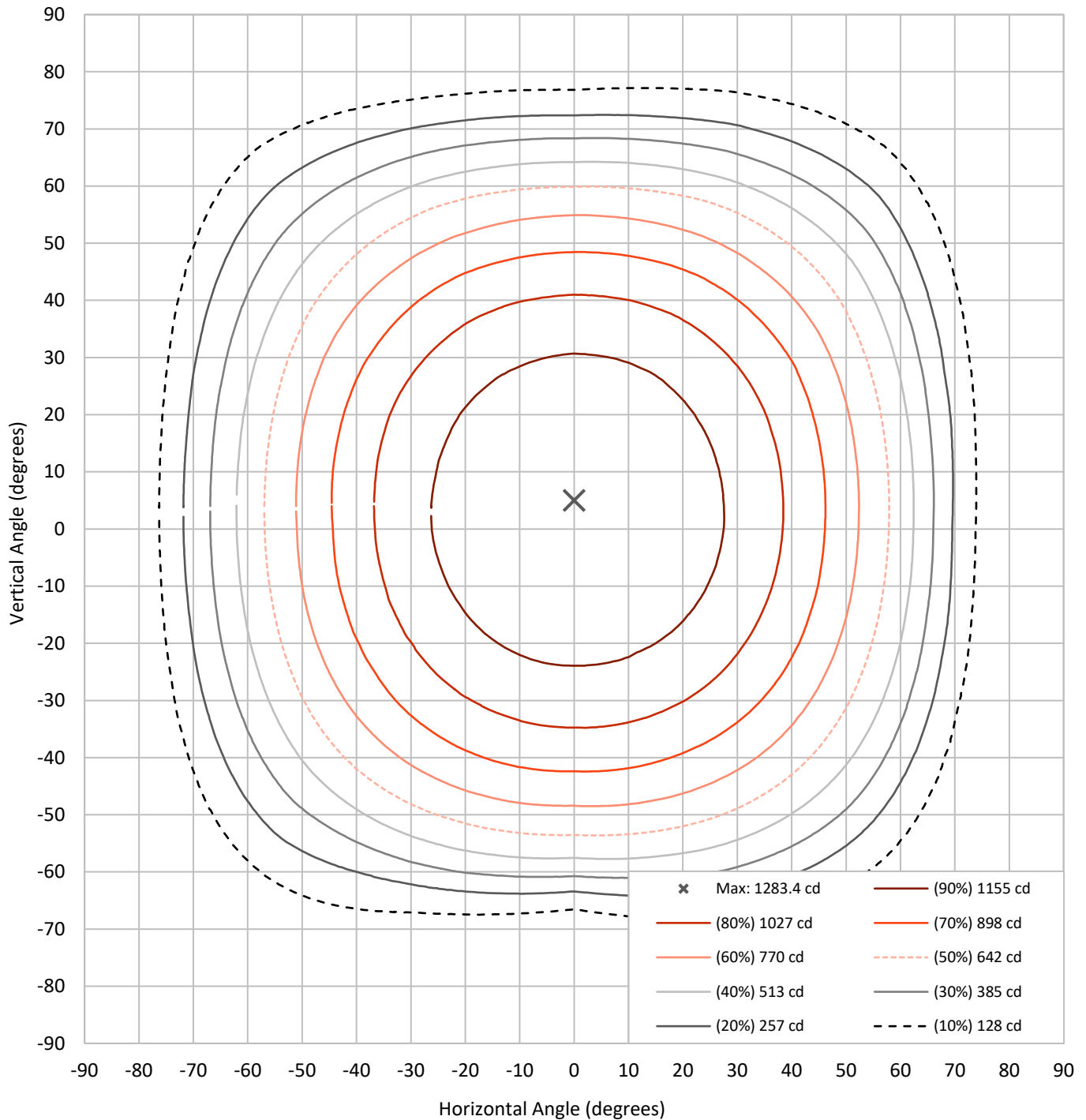
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	3563.1 lumens	Max Intensity:	1283.4 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 5°V
Efficacy:	126.8 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:	2854.6 lumens	Field Lumens:	3509.8 lumens
Beam Efficiency:	80.1%	Field Efficiency:	98.5%
Input Watts (W):	28.1		
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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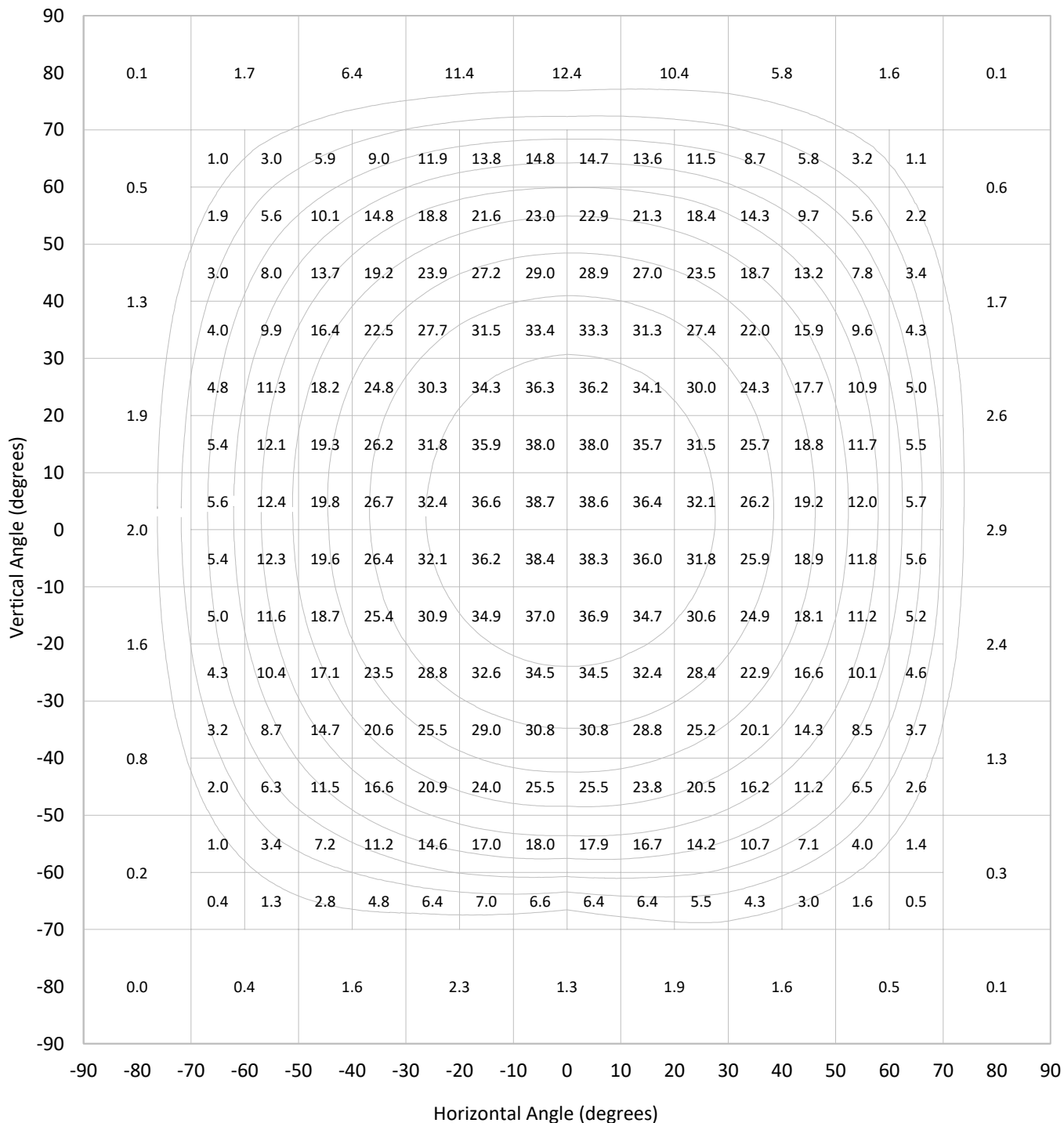
### Iso-Candela Plot





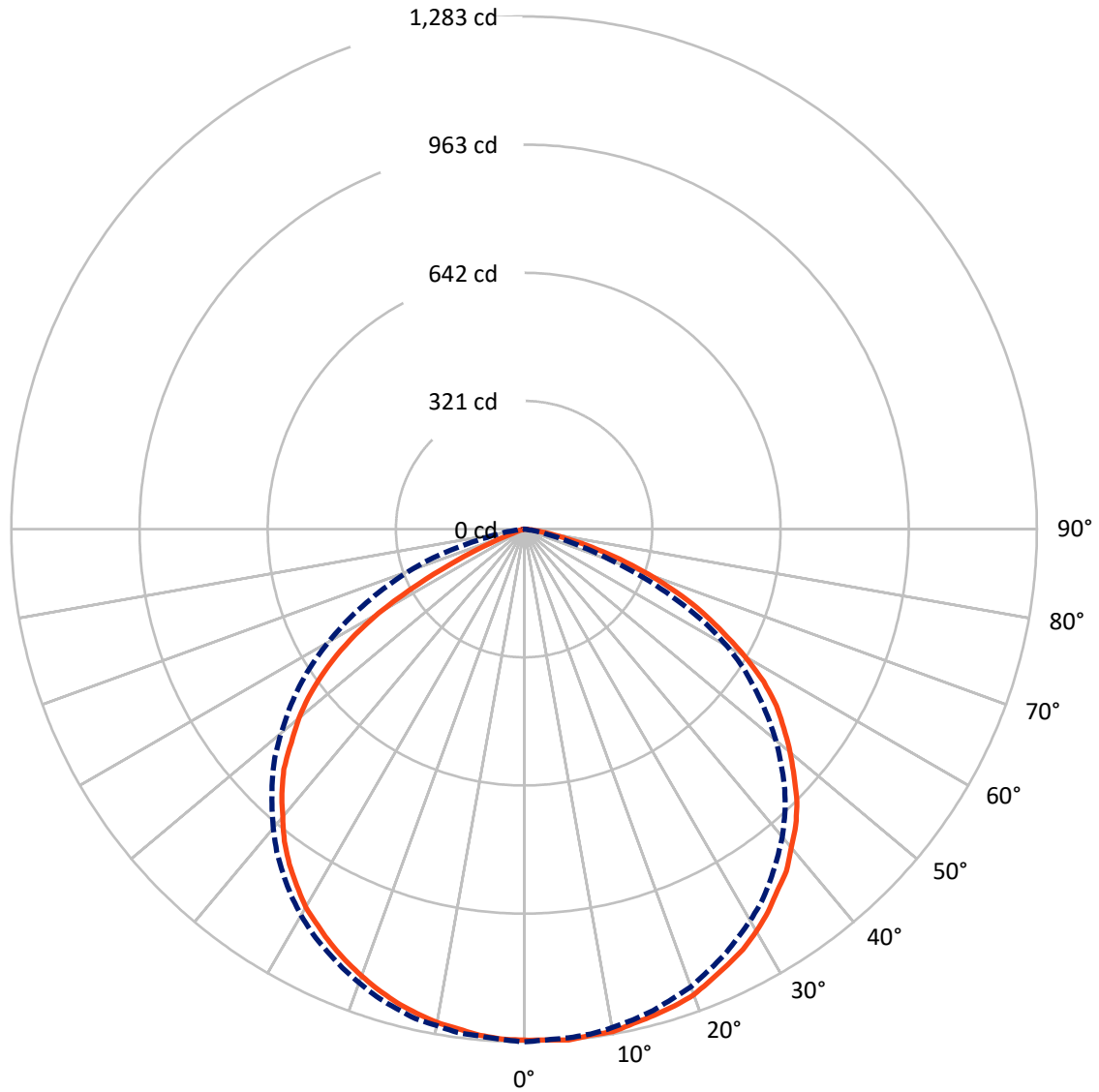
REPORT NUMBER: P670548 (CONVERTED FROM TYPE C PHOTOMETRY)  
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### Lumen Table



REPORT NUMBER: P670548 (CONVERTED FROM TYPE C PHOTOMETRY)  
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### Luminous Intensity Polar Plot

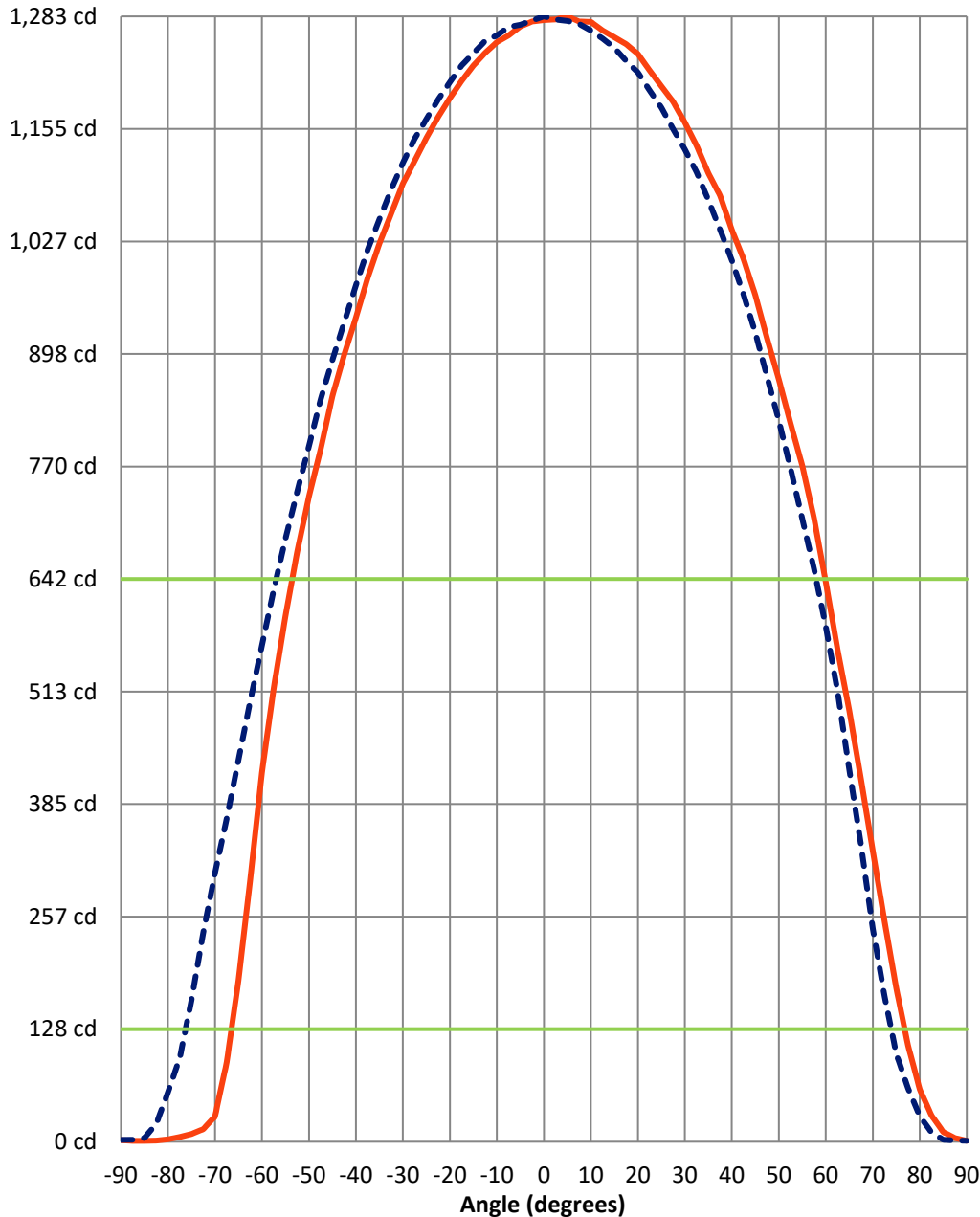


— Vertical Distribution Through 0-Deg      - - - Horizontal Distribution Through 5-Deg



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 114.9°  
 V Angle: 113.4°  
 Lumens: 2854.6  
 Efficiency: 80.1%

**Field:**  
 H Angle: 150.2°  
 V Angle: 143.3°  
 Lumens: 3509.8  
 Efficiency: 98.5%

**Spill:**  
 Lumens: 53.3  
 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°	2.1	2.1	2.1	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9
87.5°	2.1	2.1	2.2	2.2	2.3	2.4	2.5	2.7	2.8	3.0	3.2
85°	2.1	2.1	2.2	2.3	2.5	2.6	2.9	3.1	3.4	3.8	4.2
82.5°	2.1	2.1	2.2	2.4	2.6	2.9	3.3	3.7	4.3	5.0	5.9
80°	2.1	2.2	2.3	2.5	2.8	3.2	3.8	4.5	5.8	7.4	9.8
77.5°	2.1	2.2	2.3	2.6	3.0	3.6	4.6	6.1	8.6	12.3	16.3
75°	2.1	2.2	2.4	2.7	3.3	4.2	5.8	9.0	13.0	17.6	23.8
72.5°	2.1	2.2	2.4	2.8	3.5	5.1	8.1	12.4	17.3	25.6	35.8
70°	2.1	2.2	2.5	3.0	4.1	6.5	10.7	15.9	24.9	36.8	49.3
67.5°	2.1	2.2	2.5	3.1	4.7	8.3	13.4	22.0	34.7	48.4	62.5
65°	2.1	2.2	2.6	3.4	5.6	10.2	17.3	29.7	44.8	60.2	79.1
62.5°	2.1	2.2	2.6	3.7	6.8	12.2	22.4	38.8	54.2	74.8	98.7
60°	2.1	2.2	2.7	4.0	8.0	15.0	29.3	46.3	66.7	91.0	120.2
57.5°	2.1	2.2	2.7	4.3	9.3	18.8	36.7	55.2	80.0	108.5	143.5
55°	2.1	2.3	2.8	5.0	10.6	23.1	42.5	65.9	93.8	127.4	169.0
52.5°	2.1	2.3	2.8	5.7	12.1	28.8	48.6	76.7	107.7	147.9	191.5
50°	2.1	2.3	3.0	6.3	14.6	34.3	57.4	87.2	122.8	168.7	214.4
47.5°	2.1	2.3	3.1	6.9	17.1	38.5	65.9	97.9	139.1	188.1	237.3
45°	2.1	2.3	3.2	7.6	19.6	42.5	73.8	108.7	156.2	207.0	259.1
42.5°	2.1	2.3	3.3	8.3	23.5	47.6	81.2	119.5	172.3	226.0	279.0
40°	2.1	2.3	3.4	8.9	27.1	54.0	88.6	131.7	187.6	245.0	296.3
37.5°	2.1	2.3	3.5	9.4	30.5	60.0	95.5	144.2	201.7	261.8	314.5
35°	2.1	2.3	3.7	10.5	33.2	65.3	102.5	156.2	216.1	276.7	331.4
32.5°	2.1	2.3	3.9	11.6	35.4	70.0	109.2	167.6	230.8	289.6	346.2
30°	2.1	2.3	4.0	12.7	37.4	74.2	115.2	178.1	243.9	302.7	359.3
27.5°	2.1	2.3	4.2	13.7	39.3	78.1	122.7	187.1	255.3	315.2	371.1
25°	2.1	2.3	4.3	14.5	41.4	81.6	129.7	195.2	265.6	326.0	383.9
22.5°	2.1	2.3	4.4	15.2	44.5	84.8	136.0	203.3	273.6	335.3	395.5
20°	2.1	2.3	4.5	16.1	47.2	87.4	141.7	211.7	280.7	343.4	405.3
17.5°	2.1	2.3	4.5	17.3	49.6	89.6	147.0	219.1	286.9	349.8	413.8
15°	2.1	2.3	4.6	18.3	51.7	91.6	151.5	225.6	292.9	355.2	420.8
12.5°	2.1	2.3	4.6	19.1	53.4	93.2	155.3	230.6	297.9	359.5	426.4
10°	2.1	2.3	4.5	19.7	54.8	94.4	158.1	234.1	301.7	363.5	430.6
7.5°	2.1	2.3	4.5	20.1	55.8	95.1	160.1	236.6	304.4	366.6	433.6
5°	2.1	2.3	4.5	20.3	56.4	95.4	161.3	238.1	306.1	368.4	435.3
2.5°	2.1	2.3	4.4	20.4	56.6	95.2	161.5	238.6	306.6	369.0	435.6
0°	2.1	2.3	4.3	20.2	56.5	94.6	160.9	238.1	306.0	368.3	434.7
-2.5°	2.1	2.3	4.3	20.0	55.9	93.7	159.4	236.1	303.8	366.1	432.5
-5°	2.1	2.3	4.3	19.6	54.9	92.4	156.9	233.2	300.6	362.6	428.9
-7.5°	2.1	2.3	4.2	19.0	53.5	90.7	153.6	229.2	296.2	357.9	424.0
-10°	2.1	2.3	4.2	18.2	51.8	88.7	149.4	224.2	290.7	351.8	417.8
-12.5°	2.1	2.3	4.1	17.3	49.7	86.2	144.4	218.2	284.2	344.9	410.4
-15°	2.1	2.2	4.1	16.2	47.4	83.4	138.5	210.6	276.5	337.7	401.6
-17.5°	2.1	2.2	4.0	15.0	44.7	80.4	131.8	201.7	267.8	329.4	391.4
-20°	2.1	2.2	3.9	13.6	41.7	77.3	124.3	191.7	259.0	320.0	380.0

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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°	2.1	2.2	3.8	12.5	38.4	73.8	117.0	180.7	249.4	308.8	367.2
-25°	2.1	2.2	3.6	11.7	34.8	70.2	109.4	170.2	239.0	296.4	352.5
-27.5°	2.1	2.2	3.5	10.7	32.2	66.2	101.3	159.9	225.8	282.5	336.6
-30°	2.1	2.2	3.3	9.8	30.1	61.9	93.0	148.9	211.4	267.0	321.5
-32.5°	2.1	2.2	3.2	8.7	27.8	57.3	86.6	136.1	195.3	251.2	305.2
-35°	2.1	2.2	3.0	7.6	25.3	52.4	79.9	122.3	177.4	235.9	286.6
-37.5°	2.1	2.2	2.9	6.6	22.6	47.0	73.3	109.0	160.5	218.0	266.4
-40°	2.1	2.2	2.8	6.1	19.4	40.7	67.1	96.7	144.6	197.6	245.2
-42.5°	2.1	2.2	2.7	5.6	16.1	34.2	60.7	85.4	127.0	175.0	225.8
-45°	2.1	2.2	2.6	5.0	12.7	29.1	53.7	76.0	108.3	153.2	202.0
-47.5°	2.1	2.2	2.6	4.5	10.6	25.4	46.5	67.3	93.0	132.9	175.8
-50°	2.1	2.2	2.5	4.1	8.8	21.6	38.3	59.2	79.3	110.6	149.6
-52.5°	2.1	2.2	2.4	3.7	7.0	17.2	29.9	50.4	67.8	91.3	125.4
-55°	2.1	2.1	2.3	3.4	6.0	12.7	24.7	41.2	58.1	75.2	99.6
-57.5°	2.1	2.1	2.3	3.0	5.1	9.8	20.0	31.4	47.9	62.2	79.6
-60°	2.1	2.1	2.3	2.8	4.3	7.5	14.8	23.9	37.2	51.3	63.8
-62.5°	2.1	2.1	2.3	2.7	3.8	5.9	10.2	18.3	26.3	39.1	51.1
-65°	2.1	2.1	2.2	2.5	3.3	4.9	7.6	12.7	19.5	27.4	37.9
-67.5°	2.1	2.1	2.2	2.4	2.9	4.1	5.7	8.6	13.4	18.8	25.3
-70°	2.1	2.1	2.2	2.3	2.7	3.4	4.5	6.0	8.6	12.4	16.4
-72.5°	2.1	2.1	2.2	2.3	2.5	3.0	3.7	4.7	5.9	7.8	10.2
-75°	2.1	2.1	2.1	2.2	2.4	2.6	3.1	3.8	4.6	5.4	6.5
-77.5°	2.1	2.1	2.1	2.2	2.3	2.4	2.7	3.1	3.6	4.2	4.8
-80°	2.1	2.1	2.1	2.1	2.2	2.3	2.4	2.6	2.9	3.3	3.7
-82.5°	2.1	2.1	2.1	2.1	2.1	2.2	2.3	2.4	2.5	2.6	2.8
-85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.3	2.4
-87.5°	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
-90°	2.1	2.1	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.4





REPORT NUMBER: P670548 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ARFL30DBZ-30W-4000K

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	1.8	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7
87.5°	3.4	3.6	3.6	3.7	3.8	3.8	3.9	3.9	3.9	4.0	4.0
85°	4.7	5.2	5.5	5.7	6.0	6.5	7.0	7.4	7.8	8.2	8.5
82.5°	7.3	8.7	9.7	11.6	13.3	14.9	16.4	17.8	19.3	20.7	22.1
80°	13.2	16.9	19.4	21.7	24.3	28.1	31.7	35.1	38.8	42.3	45.4
77.5°	20.6	26.2	32.0	37.4	43.2	48.6	53.6	58.4	63.0	67.5	71.7
75°	32.1	41.6	49.9	56.8	63.4	70.2	77.1	85.7	93.6	101.7	108.8
72.5°	47.2	58.0	67.8	76.6	88.4	100.1	112.1	123.8	135.0	146.3	157.4
70°	61.5	75.1	91.0	106.6	122.4	138.9	155.1	171.0	186.0	201.0	215.5
67.5°	79.0	99.1	121.9	142.8	163.6	183.2	201.2	220.3	239.3	258.5	276.1
65°	101.6	128.0	158.3	183.1	203.6	226.4	248.6	270.5	291.5	311.9	332.9
62.5°	127.1	160.0	193.1	218.8	244.5	269.1	293.4	317.0	342.1	364.7	386.2
60°	155.0	190.8	224.9	255.4	282.6	308.9	337.0	363.6	388.8	414.1	439.1
57.5°	182.9	220.0	256.4	289.5	318.3	349.6	378.4	407.0	436.1	464.2	492.1
55°	208.7	249.0	286.6	321.4	355.3	387.0	419.0	451.6	482.6	515.0	546.9
52.5°	235.1	276.7	314.4	353.9	389.3	424.4	460.1	494.7	530.0	566.6	599.2
50°	260.5	301.8	344.0	383.6	423.3	461.9	499.6	537.5	576.9	611.2	642.9
47.5°	284.0	327.8	370.6	413.2	457.0	497.6	538.2	579.6	617.1	651.0	682.6
45°	305.1	352.1	396.4	443.3	487.7	531.5	575.9	616.7	653.2	687.6	722.4
42.5°	327.7	374.2	422.7	469.9	517.7	566.0	609.7	649.3	687.0	724.6	758.7
40°	347.6	396.3	447.5	497.8	548.0	595.2	638.8	680.6	721.2	758.6	793.9
37.5°	365.7	418.3	470.4	522.2	574.0	621.9	668.1	712.0	752.3	790.9	825.2
35°	383.1	438.8	493.5	548.1	599.2	647.8	694.4	739.7	782.0	819.3	853.2
32.5°	401.0	456.9	512.9	568.8	620.5	670.5	719.0	765.3	808.1	843.7	879.2
30°	417.4	475.6	533.6	588.9	642.1	692.4	741.4	788.2	828.4	867.7	903.9
27.5°	432.2	492.0	551.0	606.5	660.3	712.0	761.4	806.9	849.4	888.5	926.5
25°	445.0	505.7	566.0	622.8	677.0	729.5	779.1	822.7	866.2	907.6	944.0
22.5°	457.4	519.8	579.8	637.9	692.0	744.7	793.6	839.8	883.1	923.6	960.9
20°	469.2	532.4	591.7	650.0	705.3	757.5	805.7	853.1	897.2	936.3	974.3
17.5°	478.9	541.8	602.2	660.5	716.4	768.7	816.6	864.9	908.3	948.8	987.9
15°	486.1	549.8	611.1	669.1	725.5	777.2	827.6	875.4	917.1	956.7	997.6
12.5°	491.8	556.2	618.3	676.0	732.1	783.8	835.5	882.8	924.3	964.8	1005.3
10°	496.3	561.1	623.8	681.6	736.8	788.6	840.8	888.0	930.2	972.7	1011.2
7.5°	500.0	564.3	627.3	685.4	739.8	791.7	844.5	890.7	934.1	975.8	1015.2
5°	502.1	565.9	629.1	687.4	741.2	793.1	846.6	891.5	934.3	976.6	1017.2
2.5°	502.6	566.0	629.2	687.6	740.7	792.8	846.8	890.5	932.7	975.5	1017.2
0°	501.5	564.5	627.8	685.9	738.5	790.5	844.8	887.7	929.6	972.4	1014.9
-2.5°	499.0	562.2	625.2	683.5	736.1	788.1	841.9	885.4	927.7	970.1	1012.0
-5°	495.0	558.4	620.9	679.1	732.0	783.9	836.9	881.3	924.3	965.9	1006.9
-7.5°	489.3	553.0	614.9	672.9	726.0	777.8	829.7	875.4	919.0	959.9	999.5
-10°	482.2	545.9	607.3	664.7	718.4	769.7	821.0	867.4	909.5	951.9	989.5
-12.5°	474.1	537.3	597.9	654.7	709.0	759.9	810.6	857.3	897.7	938.7	977.3
-15°	464.9	527.0	587.0	643.6	697.7	748.2	797.8	845.2	885.3	925.3	963.7
-17.5°	454.3	515.0	574.3	630.9	685.0	734.6	782.7	829.3	871.2	912.0	949.7
-20°	441.3	501.6	559.9	615.8	670.5	718.9	766.4	811.7	854.3	891.8	930.8

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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°	426.5	485.5	543.8	598.6	651.8	701.1	748.3	793.1	835.9	874.1	911.8
-25°	410.9	468.1	525.9	580.3	632.3	682.1	728.2	772.2	812.6	851.5	886.1
-27.5°	394.5	450.8	506.4	560.3	611.0	661.5	705.7	749.3	789.6	828.2	864.0
-30°	376.6	431.2	484.9	538.4	587.3	635.9	681.0	724.3	764.6	800.7	837.4
-32.5°	357.2	409.6	461.2	513.5	563.0	609.6	656.4	696.4	736.6	773.5	807.4
-35°	336.0	387.7	437.9	487.8	537.1	580.8	625.5	668.1	706.0	742.5	776.8
-37.5°	315.2	364.2	412.2	458.9	506.8	552.2	593.3	635.3	672.4	708.4	742.3
-40°	293.3	338.9	385.6	430.7	475.7	520.3	560.4	599.5	638.4	671.4	704.5
-42.5°	269.2	313.2	357.5	400.6	442.4	485.1	526.0	561.4	598.8	634.3	664.8
-45°	243.2	286.8	327.8	369.6	409.3	447.0	485.2	523.1	556.1	591.0	623.3
-47.5°	220.0	258.0	297.9	336.6	374.9	408.1	442.1	478.1	512.6	543.6	575.6
-50°	192.0	228.8	266.1	302.8	337.3	367.2	397.5	429.6	463.6	494.5	523.5
-52.5°	161.7	200.8	232.3	267.6	297.5	323.7	351.4	379.4	408.9	440.6	468.6
-55°	133.2	167.3	202.5	230.3	256.6	280.3	303.2	327.7	352.7	379.1	406.6
-57.5°	104.8	134.7	165.7	196.0	214.6	236.2	256.3	275.7	295.5	317.4	339.4
-60°	80.6	103.5	130.0	155.4	177.9	193.6	209.7	225.8	241.3	256.5	272.6
-62.5°	62.3	76.9	96.0	117.6	136.7	154.4	168.8	178.0	189.9	201.0	211.9
-65°	48.2	57.3	68.9	82.1	99.5	114.0	127.1	138.3	146.8	151.3	157.6
-67.5°	33.6	42.6	49.5	58.2	67.6	78.0	89.5	98.3	105.7	111.6	115.8
-70°	20.9	26.9	34.1	40.6	45.7	51.9	58.1	63.7	70.7	75.5	78.2
-72.5°	12.6	15.8	19.7	24.0	29.4	33.8	37.1	40.4	43.4	46.2	48.4
-75°	7.7	9.1	10.5	13.2	15.5	18.2	20.3	23.2	25.2	26.7	27.6
-77.5°	5.3	5.9	6.6	7.3	8.4	9.1	10.5	11.4	12.1	12.7	12.6
-80°	4.1	4.5	4.8	5.0	5.3	5.6	5.9	6.2	6.6	6.7	6.8
-82.5°	3.1	3.4	3.6	3.8	4.0	4.1	4.2	4.3	4.4	4.4	4.4
-85°	2.5	2.6	2.7	2.8	2.9	3.1	3.2	3.3	3.4	3.4	3.4
-87.5°	2.1	2.1	2.2	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1
-90°	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.2	2.2	2.2



REPORT NUMBER: P670548 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ARFL30DBZ-30W-4000K

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	2.8	2.9	3.0	2.8	2.7	2.5	2.4	2.2	2.1	1.9	1.7
87.5°	4.1	4.1	4.1	4.2	4.2	4.2	4.3	4.3	4.3	4.3	4.3
85°	9.0	9.6	10.1	10.6	10.9	11.2	11.5	11.6	11.7	11.7	11.7
82.5°	23.8	25.6	27.2	28.4	29.3	30.0	30.6	31.1	31.5	31.7	31.7
80°	48.3	51.1	53.5	55.4	56.9	58.3	59.4	60.3	61.0	61.4	61.5
77.5°	76.4	81.0	85.1	88.7	92.4	95.7	98.7	101.4	103.9	106.2	107.9
75°	115.5	121.7	126.8	133.9	141.2	147.7	153.8	159.8	164.8	168.8	171.9
72.5°	168.3	179.3	189.9	199.6	208.9	217.8	226.5	233.9	240.0	244.8	248.3
70°	230.2	245.6	259.7	272.0	283.2	293.3	302.5	310.5	317.3	322.8	327.1
67.5°	293.1	309.5	325.7	340.9	353.2	364.1	374.0	382.7	390.4	397.1	402.9
65°	352.7	370.6	387.4	403.2	418.0	431.8	443.5	454.1	463.6	472.1	479.1
62.5°	407.2	428.4	447.7	466.1	483.6	499.4	513.4	525.6	536.4	545.3	552.2
60°	462.9	486.6	510.2	533.3	554.0	571.6	586.8	599.1	609.8	618.5	625.5
57.5°	520.4	548.4	576.3	601.1	621.5	636.1	650.3	663.6	674.7	684.4	692.9
55°	579.6	607.6	631.9	655.0	675.2	690.2	704.7	718.8	732.4	743.8	752.1
52.5°	628.4	655.7	679.4	700.7	722.6	741.5	755.8	770.3	782.9	793.2	801.9
50°	672.0	697.8	725.1	747.0	768.9	788.4	804.5	818.7	831.6	843.0	851.9
47.5°	713.3	740.9	767.6	792.0	813.7	834.1	851.2	865.8	878.7	889.8	899.2
45°	752.4	782.2	808.8	833.9	856.1	877.5	895.7	910.7	923.2	934.5	944.2
42.5°	791.0	820.2	846.8	872.6	896.9	917.6	935.4	950.7	964.6	976.7	986.7
40°	825.7	854.3	883.1	908.7	932.0	953.1	972.6	990.0	1003.5	1014.6	1023.2
37.5°	856.7	887.3	915.4	941.3	964.9	988.4	1007.8	1023.3	1035.3	1048.2	1058.4
35°	886.0	917.0	945.4	972.1	996.6	1018.2	1037.0	1054.2	1067.8	1079.9	1089.4
32.5°	913.2	944.2	973.5	1000.0	1023.7	1045.8	1064.9	1082.5	1096.4	1107.3	1116.8
30°	938.0	969.2	998.3	1024.9	1048.9	1070.8	1090.2	1106.9	1120.9	1130.5	1140.8
27.5°	959.5	991.5	1021.2	1047.4	1071.6	1092.7	1110.9	1126.4	1142.9	1154.3	1163.6
25°	979.4	1012.4	1041.2	1067.6	1090.1	1110.8	1129.7	1147.3	1161.2	1176.4	1185.6
22.5°	997.2	1029.9	1058.8	1083.4	1106.3	1128.4	1147.4	1165.4	1179.7	1195.4	1203.1
20°	1011.8	1044.7	1073.2	1097.3	1122.5	1143.5	1163.4	1179.6	1195.2	1209.5	1217.5
17.5°	1023.7	1056.6	1083.5	1112.1	1135.6	1156.1	1174.0	1191.8	1209.1	1220.1	1232.4
15°	1034.1	1065.4	1093.7	1122.0	1144.5	1164.7	1184.5	1203.4	1218.1	1231.2	1241.9
12.5°	1042.4	1072.4	1103.9	1130.7	1153.5	1172.6	1193.4	1211.4	1227.7	1240.9	1251.4
10°	1046.7	1077.8	1110.3	1136.1	1157.6	1181.1	1200.8	1219.1	1234.3	1247.6	1258.1
7.5°	1049.8	1082.9	1114.1	1141.2	1162.1	1186.5	1205.4	1224.8	1241.0	1250.7	1261.9
5°	1052.0	1085.9	1116.4	1143.9	1166.3	1188.6	1208.4	1227.4	1241.4	1255.3	1261.8
2.5°	1052.3	1086.4	1116.5	1142.7	1168.4	1188.7	1209.0	1227.7	1241.7	1254.0	1264.4
0°	1050.3	1084.6	1114.5	1140.3	1167.9	1186.8	1207.1	1225.3	1240.9	1252.6	1264.8
-2.5°	1047.0	1080.8	1110.3	1137.6	1163.9	1183.6	1202.8	1220.9	1235.5	1247.2	1257.9
-5°	1041.0	1074.9	1104.5	1133.2	1157.0	1178.8	1197.2	1214.3	1227.1	1241.3	1249.4
-7.5°	1032.7	1066.9	1097.7	1125.2	1147.7	1170.9	1189.6	1206.5	1218.2	1231.1	1243.0
-10°	1023.6	1057.8	1087.7	1114.4	1138.4	1161.0	1178.5	1192.6	1207.3	1219.7	1232.7
-12.5°	1014.9	1046.1	1074.3	1097.5	1126.1	1148.1	1166.8	1184.4	1197.5	1208.7	1218.5
-15°	1001.6	1030.7	1060.3	1088.6	1111.5	1134.7	1153.8	1171.2	1185.6	1196.2	1203.8
-17.5°	984.2	1015.2	1046.2	1068.7	1091.0	1117.0	1137.3	1154.0	1170.0	1181.9	1191.5
-20°	965.0	999.5	1025.0	1053.6	1076.8	1096.2	1117.7	1135.6	1149.8	1162.7	1174.5



REPORT NUMBER: P670548 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ARFL30DBZ-30W-4000K

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	946.1	976.9	1006.8	1032.0	1056.7	1078.9	1096.1	1114.4	1128.6	1140.5	1150.8
-25°	923.4	954.6	985.4	1009.7	1033.2	1056.0	1074.8	1090.2	1108.5	1116.6	1127.1
-27.5°	897.6	930.8	958.4	986.9	1008.2	1028.3	1049.1	1065.8	1080.8	1092.1	1104.6
-30°	870.6	902.7	932.4	957.0	982.1	1001.1	1019.4	1034.8	1052.6	1064.1	1074.2
-32.5°	841.4	871.2	900.8	927.9	950.3	971.8	989.5	1004.9	1018.6	1030.1	1040.7
-35°	808.5	839.8	866.6	892.1	917.0	939.5	955.8	972.6	985.8	996.4	1006.7
-37.5°	774.1	803.4	831.8	856.4	877.1	899.9	919.7	936.9	947.8	959.9	969.5
-40°	735.6	764.9	792.3	817.1	841.5	858.7	875.7	893.3	907.8	919.8	929.2
-42.5°	694.1	722.3	748.7	774.6	796.5	816.2	836.0	849.8	862.4	873.5	883.1
-45°	652.2	677.2	702.0	725.8	747.4	769.2	786.6	801.1	813.7	825.6	834.7
-47.5°	605.4	632.4	654.7	675.3	695.3	714.5	732.5	748.2	761.8	772.1	780.1
-50°	552.4	580.1	604.4	625.9	643.9	660.3	676.0	691.0	704.1	714.9	723.4
-52.5°	495.4	519.6	545.3	568.2	587.9	604.8	619.6	632.5	644.1	653.4	661.2
-55°	435.1	457.8	479.5	499.5	519.4	539.0	554.0	566.9	577.3	586.0	592.6
-57.5°	362.6	386.4	410.4	430.2	446.3	461.2	475.4	488.1	499.3	508.4	515.1
-60°	290.5	308.2	326.7	345.3	362.6	377.7	390.8	399.9	408.0	414.9	420.5
-62.5°	222.6	232.5	245.2	257.7	269.9	281.1	291.2	299.5	306.1	310.5	312.8
-65°	163.5	168.7	174.5	179.8	186.3	191.5	197.8	202.1	204.8	206.1	205.6
-67.5°	117.4	116.9	117.3	118.0	120.6	122.3	123.0	123.5	122.4	119.9	116.6
-70°	79.7	80.1	79.0	78.0	77.8	76.6	74.2	71.0	67.9	63.5	58.1
-72.5°	50.2	50.9	50.1	49.3	48.9	48.1	46.8	44.7	41.8	38.3	34.4
-75°	28.4	28.6	28.2	28.5	28.9	28.6	27.9	26.8	25.2	23.2	20.8
-77.5°	12.8	12.9	12.4	12.8	13.5	13.8	13.8	13.4	12.8	12.0	11.0
-80°	6.8	6.6	6.2	6.0	5.8	5.6	5.4	5.2	4.9	4.6	4.3
-82.5°	4.5	4.5	4.5	4.3	4.1	3.9	3.6	3.4	3.1	2.8	2.6
-85°	3.5	3.5	3.5	3.3	3.1	2.9	2.7	2.5	2.3	2.1	1.9
-87.5°	3.2	3.2	3.3	3.1	2.9	2.7	2.5	2.3	2.2	2.0	1.8
-90°	2.2	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	1.9	1.9



REPORT NUMBER: P670548 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ARFL30DBZ-30W-4000K

**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	1.3	1.1	1.2	1.3	1.5	1.6	1.7	1.8	1.9
87.5°	4.3	4.3	4.2	4.2	4.3	4.4	4.5	4.6	4.7	4.7	4.8
85°	11.6	11.5	11.3	11.1	11.6	12.1	12.5	12.8	13.1	13.3	13.4
82.5°	31.5	31.1	30.6	30.0	31.1	32.2	33.0	33.7	34.2	34.5	34.6
80°	61.5	61.1	60.5	59.7	61.8	63.6	65.2	66.4	67.4	68.0	68.2
77.5°	109.2	110.0	110.2	109.9	112.8	115.0	116.8	117.9	118.5	118.6	118.1
75°	174.1	175.3	175.6	175.1	177.8	179.6	180.6	180.8	180.1	178.6	176.3
72.5°	250.7	252.1	252.4	251.6	253.5	254.4	254.3	253.1	250.9	247.8	243.8
70°	330.1	331.9	332.5	331.8	333.4	333.9	333.0	331.0	327.7	323.2	317.5
67.5°	407.5	410.8	412.7	413.0	414.0	413.6	411.7	408.6	404.3	398.6	391.6
65°	484.5	488.5	490.8	491.6	492.3	491.5	489.1	485.2	479.8	472.8	464.4
62.5°	557.2	560.3	561.7	561.4	563.2	563.4	561.9	558.8	553.7	546.8	537.9
60°	631.2	635.3	637.7	638.2	639.3	638.4	635.8	631.4	625.4	617.8	608.5
57.5°	699.8	705.2	708.9	710.9	710.5	708.4	704.6	699.1	691.5	682.5	672.5
55°	758.9	764.4	768.4	770.8	769.9	767.4	763.3	757.7	750.5	741.1	730.4
52.5°	808.7	813.9	817.3	819.1	818.6	816.3	812.2	806.4	799.4	790.9	780.4
50°	858.9	864.2	867.7	869.4	869.3	867.3	863.3	857.2	849.1	839.7	828.2
47.5°	906.5	911.5	914.7	916.2	915.9	913.8	909.9	904.0	896.5	887.6	877.5
45°	952.3	958.7	963.1	965.5	964.1	960.7	955.6	948.9	940.7	931.0	919.2
42.5°	994.6	1000.4	1004.4	1006.5	1005.2	1002.0	996.9	990.5	982.4	971.0	958.2
40°	1029.9	1034.9	1038.3	1040.0	1039.5	1037.3	1033.3	1027.7	1019.5	1008.7	995.5
37.5°	1066.4	1072.5	1076.6	1078.8	1078.2	1076.1	1072.0	1064.2	1053.9	1042.7	1031.4
35°	1096.5	1101.0	1103.6	1104.7	1105.0	1103.9	1101.0	1095.3	1085.8	1078.3	1064.5
32.5°	1124.1	1129.6	1133.6	1136.0	1134.9	1132.0	1127.7	1122.1	1114.2	1105.3	1092.2
30°	1149.4	1155.5	1159.9	1162.4	1161.0	1157.9	1153.7	1146.8	1137.6	1128.1	1116.6
27.5°	1172.7	1179.1	1183.5	1186.1	1184.5	1181.1	1176.3	1169.6	1159.9	1152.0	1135.6
25°	1194.7	1199.3	1202.3	1203.8	1203.2	1200.9	1196.5	1190.0	1181.6	1170.0	1155.1
22.5°	1211.1	1217.7	1220.1	1221.8	1221.2	1219.1	1214.6	1208.1	1199.4	1186.5	1172.5
20°	1225.8	1232.9	1237.7	1240.6	1238.9	1234.2	1227.9	1224.0	1215.1	1202.4	1187.9
17.5°	1237.8	1245.1	1249.5	1251.8	1250.1	1247.1	1243.5	1238.0	1225.8	1216.5	1200.6
15°	1250.9	1256.1	1258.5	1259.6	1259.6	1257.7	1251.6	1244.9	1237.1	1226.5	1213.5
12.5°	1259.8	1265.1	1267.5	1267.4	1267.2	1264.9	1262.5	1254.6	1243.8	1232.6	1223.3
10°	1266.3	1272.8	1276.4	1277.1	1277.5	1274.3	1266.8	1260.4	1252.1	1238.9	1227.1
7.5°	1269.2	1276.1	1276.9	1277.7	1278.0	1277.9	1273.6	1262.4	1254.3	1245.0	1229.0
5°	1271.2	1273.9	1278.8	1283.4	1279.8	1278.2	1274.8	1267.3	1258.0	1247.5	1232.7
2.5°	1271.4	1276.1	1279.7	1280.0	1278.4	1277.6	1273.9	1268.4	1258.9	1248.1	1233.7
0°	1270.7	1272.8	1275.0	1279.2	1278.8	1276.9	1273.0	1264.9	1258.8	1247.9	1232.6
-2.5°	1267.2	1272.5	1275.7	1277.6	1277.2	1277.7	1272.6	1263.6	1255.7	1242.9	1228.5
-5°	1261.3	1265.8	1268.7	1271.9	1272.4	1272.5	1265.5	1259.3	1249.6	1234.9	1222.6
-7.5°	1252.3	1258.9	1261.2	1261.7	1264.2	1262.7	1258.6	1252.6	1239.6	1226.5	1213.6
-10°	1243.0	1251.4	1253.7	1254.0	1254.8	1253.1	1248.5	1239.0	1227.3	1217.3	1204.1
-12.5°	1228.9	1236.2	1240.8	1241.8	1242.5	1239.2	1232.5	1225.6	1215.3	1204.1	1190.0
-15°	1213.9	1219.8	1225.3	1227.3	1226.6	1223.7	1217.9	1207.7	1200.4	1188.7	1177.9
-17.5°	1197.0	1202.8	1207.7	1209.8	1208.5	1204.3	1199.5	1191.9	1183.4	1174.1	1161.3
-20°	1180.7	1185.9	1189.4	1190.2	1189.5	1186.3	1181.0	1173.7	1166.9	1155.4	1142.5

Classified

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

Scaled Data Report



REPORT NUMBER: P670548 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: ARFL30DBZ-30W-4000K

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	1159.8	1165.7	1168.5	1168.8	1168.5	1166.2	1162.8	1155.1	1143.0	1133.9	1121.2
-25°	1135.6	1140.8	1143.9	1144.8	1144.6	1141.8	1136.5	1130.3	1120.6	1111.5	1099.8
-27.5°	1110.3	1114.5	1117.7	1118.7	1118.5	1116.0	1112.1	1106.5	1097.7	1086.8	1072.9
-30°	1082.5	1088.0	1091.5	1092.8	1092.6	1090.1	1085.5	1078.1	1068.8	1057.8	1044.2
-32.5°	1049.9	1055.3	1057.9	1058.4	1058.7	1056.8	1052.5	1045.5	1037.1	1026.0	1012.4
-35°	1014.0	1019.4	1023.0	1024.3	1024.4	1022.0	1017.2	1010.6	1002.4	992.5	979.8
-37.5°	977.0	981.8	984.5	985.1	985.6	984.0	980.1	973.5	965.1	955.4	939.8
-40°	934.6	938.3	940.1	939.9	941.3	940.3	936.6	930.2	922.7	912.8	899.9
-42.5°	890.4	894.9	897.2	897.3	898.1	896.7	893.1	887.4	879.8	869.1	856.4
-45°	841.5	846.6	849.7	850.3	850.7	848.5	844.2	838.0	830.5	821.6	810.6
-47.5°	786.0	789.4	790.7	789.9	792.0	792.0	789.9	785.3	778.6	770.0	758.8
-50°	729.7	733.9	735.9	735.6	737.4	736.9	734.1	729.0	721.8	712.7	701.5
-52.5°	667.2	671.2	673.0	672.7	674.5	674.2	671.8	667.3	661.1	653.2	642.6
-55°	597.4	600.2	600.9	599.2	602.2	602.9	601.5	598.1	592.9	585.7	576.7
-57.5°	519.0	520.5	519.9	516.9	521.3	523.4	523.3	521.1	516.4	509.7	501.0
-60°	424.1	425.6	424.6	420.8	426.6	429.5	430.0	428.3	424.9	420.2	414.4
-62.5°	312.9	310.5	305.7	298.4	308.2	315.6	320.7	323.8	325.0	324.5	322.6
-65°	203.2	198.8	192.3	183.8	195.9	206.0	214.1	220.3	224.7	227.4	229.5
-67.5°	112.3	106.6	99.3	90.7	103.5	114.8	124.6	132.9	140.1	146.8	152.0
-70°	51.8	44.7	37.0	28.8	40.7	52.0	62.6	72.2	80.7	87.8	93.3
-72.5°	29.9	25.0	19.8	14.4	21.8	28.9	35.6	41.7	47.0	51.6	55.4
-75°	18.1	15.1	12.0	8.8	12.8	16.6	20.2	23.5	26.4	28.7	30.5
-77.5°	9.8	8.4	6.9	5.4	7.1	8.8	10.3	11.6	12.8	13.6	14.3
-80°	3.9	3.5	3.1	2.7	3.3	3.9	4.4	4.9	5.3	5.7	6.0
-82.5°	2.2	1.9	1.6	1.3	1.7	2.0	2.4	2.7	3.0	3.3	3.6
-85°	1.6	1.4	1.2	1.0	1.2	1.4	1.7	1.9	2.1	2.3	2.5
-87.5°	1.6	1.4	1.2	1.0	1.1	1.3	1.4	1.6	1.7	1.9	2.0
-90°	1.9	1.9	1.8	1.8	1.8	1.9	1.9	2.0	2.0	2.1	2.1



REPORT NUMBER: P670548 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ARFL30DBZ-30W-4000K

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	2.0	2.2	2.3	2.4	2.5	2.4	2.2	2.1	2.0	1.8	1.7
87.5°	4.8	4.9	4.9	4.9	4.9	4.7	4.5	4.3	4.2	4.0	3.8
85°	13.5	13.5	13.3	13.1	12.8	12.1	11.2	10.3	9.7	9.1	8.3
82.5°	34.4	34.2	33.8	33.2	32.2	30.2	28.0	25.9	24.1	22.3	20.3
80°	68.1	67.6	66.8	65.4	63.2	59.2	55.1	51.0	47.4	43.5	39.4
77.5°	116.9	115.1	112.7	109.5	105.1	98.1	90.9	84.2	78.5	72.7	66.4
75°	173.2	170.0	166.7	162.7	156.7	147.2	137.5	127.4	117.1	106.9	97.0
72.5°	238.9	233.2	227.4	221.4	212.9	200.2	186.6	173.1	159.5	145.8	133.0
70°	310.5	302.6	293.7	284.3	272.3	257.7	241.6	225.3	209.5	192.3	174.3
67.5°	383.3	374.0	363.5	351.8	336.0	318.6	301.1	283.1	263.9	241.9	220.0
65°	454.4	443.0	431.5	419.3	401.6	382.1	361.5	339.5	316.8	295.4	272.4
62.5°	527.0	513.7	499.0	483.1	463.9	443.7	423.7	399.9	373.7	346.5	319.1
60°	597.7	585.3	570.9	552.2	529.3	505.0	481.8	456.9	431.4	403.1	371.1
57.5°	662.2	650.1	635.3	615.9	593.1	568.4	541.5	512.6	484.5	455.3	424.8
55°	718.0	704.4	688.5	670.1	649.6	624.5	597.8	568.6	537.5	504.4	472.7
52.5°	768.0	753.9	737.9	718.6	696.9	672.8	648.4	618.4	587.4	553.6	518.0
50°	813.9	799.7	783.0	762.9	741.5	718.0	691.8	663.4	632.5	598.5	562.3
47.5°	862.5	845.8	827.2	804.8	783.4	758.9	732.9	704.5	673.0	640.0	602.4
45°	905.7	891.0	872.1	848.0	825.0	797.7	771.0	742.3	711.3	676.9	640.8
42.5°	945.3	929.8	909.6	888.8	864.8	837.9	807.7	777.6	745.9	712.1	674.6
40°	981.9	963.0	944.8	924.9	900.1	874.6	844.3	813.0	778.5	743.8	706.8
37.5°	1015.6	997.1	977.1	955.4	933.1	906.4	878.0	845.3	811.5	773.6	736.1
35°	1046.7	1028.7	1007.6	985.6	961.6	935.7	907.7	876.1	841.2	803.0	762.9
32.5°	1077.3	1057.1	1036.0	1012.8	989.5	962.4	933.8	903.1	868.6	832.3	787.0
30°	1101.7	1082.3	1062.6	1038.6	1012.8	987.9	958.8	928.2	893.3	853.9	812.7
27.5°	1121.5	1105.4	1084.8	1061.6	1036.3	1007.9	980.1	949.7	916.5	874.8	831.7
25°	1139.2	1123.8	1104.2	1082.2	1055.7	1028.9	998.9	965.1	930.7	892.7	849.5
22.5°	1156.1	1138.4	1121.6	1099.5	1075.5	1046.4	1014.9	985.1	949.4	910.7	865.8
20°	1170.4	1153.0	1132.2	1113.5	1089.6	1060.9	1031.1	997.0	959.7	922.2	879.3
17.5°	1184.8	1164.7	1145.9	1122.9	1100.2	1074.5	1042.5	1009.1	975.1	935.3	891.5
15°	1194.9	1175.4	1156.2	1134.3	1112.9	1084.1	1052.4	1020.3	984.3	944.5	902.1
12.5°	1205.1	1186.7	1162.9	1142.8	1117.2	1091.6	1062.5	1028.5	992.1	950.9	909.6
10°	1212.1	1191.9	1170.7	1147.9	1123.1	1097.6	1067.8	1034.1	998.6	958.5	916.0
7.5°	1218.1	1197.0	1177.7	1151.9	1128.7	1103.6	1071.8	1037.6	1002.9	963.9	920.3
5°	1219.5	1199.0	1179.4	1155.0	1131.7	1105.7	1074.0	1040.1	1005.2	966.1	922.6
2.5°	1218.8	1198.9	1179.8	1156.1	1132.9	1105.0	1074.3	1040.6	1005.4	966.4	922.8
0°	1217.2	1196.8	1178.5	1155.2	1131.9	1103.2	1072.5	1039.0	1003.7	964.9	920.9
-2.5°	1213.1	1193.2	1174.7	1151.6	1128.1	1099.6	1068.7	1035.3	1000.2	961.4	917.5
-5°	1206.4	1187.8	1169.3	1146.0	1122.1	1094.8	1063.0	1029.7	995.0	955.9	912.3
-7.5°	1197.3	1180.3	1162.4	1137.1	1113.9	1087.4	1055.4	1022.1	987.9	948.4	905.1
-10°	1188.4	1170.4	1151.4	1126.3	1102.4	1077.0	1045.7	1012.5	978.9	938.6	896.2
-12.5°	1176.1	1160.1	1139.4	1118.3	1089.6	1064.2	1033.6	1000.9	967.0	927.1	884.1
-15°	1162.0	1145.2	1122.5	1103.1	1079.1	1049.7	1019.6	988.0	953.2	913.4	869.4
-17.5°	1146.8	1128.5	1110.2	1082.8	1061.6	1033.7	1003.2	973.0	937.5	897.9	853.7
-20°	1127.5	1111.0	1088.6	1069.0	1042.2	1014.9	985.8	954.9	919.9	880.7	836.6



REPORT NUMBER: P670548 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ARFL30DBZ-30W-4000K

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	1107.8	1089.3	1071.0	1046.6	1021.8	993.6	966.6	934.8	898.5	859.1	817.5
-25°	1083.4	1067.6	1046.3	1024.0	999.2	973.3	944.0	913.3	877.2	837.0	795.3
-27.5°	1058.5	1040.5	1020.6	999.0	975.1	948.2	919.8	886.5	851.0	813.3	772.7
-30°	1029.3	1011.9	993.1	971.9	946.8	920.9	891.0	859.5	824.3	786.3	743.8
-32.5°	998.6	981.6	963.0	940.0	916.6	890.0	861.8	829.4	794.3	757.3	715.0
-35°	965.5	946.0	927.9	906.9	882.6	857.8	828.6	796.9	763.3	722.9	684.4
-37.5°	925.5	909.1	891.7	869.7	847.8	821.8	792.9	762.1	725.4	690.8	652.7
-40°	885.9	868.5	852.2	832.1	808.9	782.2	753.9	721.1	690.0	654.3	617.7
-42.5°	843.2	828.5	810.2	789.5	765.0	738.8	710.0	682.0	649.9	616.4	579.2
-45°	797.3	781.5	762.0	740.5	717.5	693.3	667.2	639.3	608.1	573.8	536.3
-47.5°	744.0	727.3	709.7	690.5	670.3	646.3	621.3	592.4	561.3	526.8	490.8
-50°	688.3	674.2	658.2	639.5	619.3	595.7	569.3	540.7	509.7	477.5	444.4
-52.5°	630.6	617.4	602.0	583.1	561.5	537.8	512.2	485.0	456.5	426.1	392.2
-55°	565.5	552.4	536.7	518.3	498.2	476.3	452.9	427.3	399.5	368.2	333.7
-57.5°	490.6	478.9	466.5	451.3	432.5	411.6	388.8	362.7	334.6	306.8	278.1
-60°	407.7	399.7	390.8	378.4	359.9	339.0	317.0	295.2	272.2	247.1	220.3
-62.5°	318.7	313.1	306.6	298.1	283.3	267.5	249.8	230.9	210.4	189.4	166.6
-65°	230.4	229.9	228.0	224.6	213.8	200.6	186.0	170.2	153.2	136.4	120.8
-67.5°	155.8	158.2	158.8	157.8	150.0	139.3	128.0	116.9	105.7	95.7	85.5
-70°	97.7	100.3	100.8	100.6	96.4	90.1	83.6	77.1	70.3	64.3	58.8
-72.5°	58.1	59.4	60.0	59.9	57.8	54.8	51.5	48.2	44.6	40.7	36.6
-75°	31.6	32.3	32.5	32.0	30.8	29.8	28.2	26.5	24.9	22.7	20.5
-77.5°	14.9	15.2	15.3	15.0	14.6	14.2	13.5	12.8	12.5	12.0	11.2
-80°	6.3	6.5	6.6	6.7	7.0	7.2	7.1	6.8	6.5	6.1	5.4
-82.5°	3.9	4.1	4.4	4.6	4.7	4.6	4.3	4.1	3.8	3.6	3.3
-85°	2.7	2.9	3.0	3.2	3.3	3.1	3.0	2.8	2.6	2.4	2.3
-87.5°	2.2	2.3	2.4	2.6	2.7	2.6	2.4	2.2	2.1	1.9	1.8
-90°	2.1	2.2	2.2	2.3	2.3	2.3	2.2	2.2	2.1	2.1	2.1





REPORT NUMBER: P670548 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ARFL30DBZ-30W-4000K

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	1.6	1.4	1.3	1.2	1.0	0.9	0.9	0.9	1.0	1.0	1.0
87.5°	3.7	3.5	3.3	3.2	3.0	2.8	2.6	2.4	2.2	2.0	1.9
85°	7.6	6.8	5.9	5.4	5.0	4.5	3.9	3.4	2.9	2.6	2.3
82.5°	18.3	16.5	14.6	12.5	10.4	8.9	7.1	5.4	4.3	3.5	2.9
80°	35.5	31.5	27.4	24.2	21.1	17.7	13.7	10.1	7.3	5.4	3.7
77.5°	59.8	53.0	47.1	40.7	34.9	28.8	22.3	17.0	12.4	8.5	5.8
75°	87.2	79.0	70.9	62.3	53.6	44.4	33.9	25.3	18.5	12.9	8.6
72.5°	120.3	107.9	96.0	84.5	74.6	62.4	48.7	36.4	26.2	18.1	12.1
70°	156.2	139.0	123.8	109.6	96.0	80.2	64.5	49.5	36.0	24.6	16.2
67.5°	199.7	178.3	156.3	135.5	118.5	99.5	80.2	62.9	47.0	32.8	21.2
65°	246.4	218.9	194.6	170.2	143.6	119.0	97.2	76.5	58.0	41.6	27.2
62.5°	294.3	267.3	235.2	205.2	176.2	142.3	114.5	91.1	69.3	50.4	34.1
60°	338.8	308.2	279.9	246.0	206.7	170.1	134.8	106.0	81.6	59.5	40.9
57.5°	389.5	352.1	316.2	285.9	243.3	197.2	158.6	122.0	94.0	69.3	47.8
55°	438.6	400.9	358.5	317.9	277.1	228.7	181.7	142.2	106.7	79.3	54.8
52.5°	482.4	445.5	404.3	354.4	304.4	259.6	207.5	160.8	121.5	89.3	62.5
50°	524.0	485.2	445.3	394.1	336.0	285.3	234.8	181.6	137.1	99.4	70.1
47.5°	563.7	522.7	479.9	429.3	371.7	311.1	260.3	203.6	151.8	110.6	77.9
45°	600.0	558.4	511.5	459.9	405.2	341.0	281.7	225.9	169.0	122.3	85.4
42.5°	634.8	590.9	542.5	489.3	432.7	372.3	303.1	247.5	186.0	133.5	92.6
40°	666.1	620.3	571.8	518.5	458.9	398.9	329.1	265.4	202.1	144.9	100.4
37.5°	694.7	648.6	597.6	545.1	485.4	421.2	355.2	282.2	220.5	157.8	108.1
35°	720.0	674.0	623.9	569.7	510.8	442.8	378.3	300.2	236.5	169.6	115.4
32.5°	742.9	697.0	647.3	591.0	533.1	465.6	395.7	320.8	250.0	179.9	122.0
30°	763.8	717.3	667.8	612.8	553.3	487.0	412.1	340.3	261.8	191.2	128.7
27.5°	783.8	735.7	686.1	632.1	571.0	506.0	428.2	358.3	272.0	203.4	136.6
25°	804.1	752.2	702.1	648.9	587.1	522.5	445.4	369.9	284.5	214.2	143.8
22.5°	819.4	767.5	716.2	663.0	602.6	536.7	461.0	379.9	297.4	222.3	149.6
20°	832.5	781.7	728.6	675.1	616.0	549.3	474.9	389.3	308.8	229.4	153.8
17.5°	844.4	794.5	739.1	685.3	627.6	559.4	486.7	397.2	318.8	235.3	157.0
15°	854.3	803.9	748.0	693.6	636.6	568.1	495.6	404.5	327.1	239.1	159.3
12.5°	861.8	811.2	755.8	700.3	643.2	575.5	502.9	412.1	333.7	241.7	161.6
10°	867.0	816.8	761.8	705.3	648.2	581.3	508.4	418.0	337.0	243.2	164.3
7.5°	870.5	820.6	765.8	708.6	651.5	585.3	511.8	422.1	338.3	243.7	165.9
5°	872.5	822.5	767.7	710.2	653.1	587.5	513.5	424.2	338.2	243.1	166.1
2.5°	872.5	822.5	767.6	710.1	653.0	587.9	513.6	424.4	336.8	241.4	165.2
0°	870.4	820.5	765.7	708.3	651.4	586.4	511.9	422.4	334.2	238.8	163.0
-2.5°	867.3	817.5	762.7	705.4	648.5	583.5	509.3	420.2	332.6	237.6	161.7
-5°	862.2	812.6	757.9	700.8	644.1	578.6	505.0	415.8	329.7	235.4	159.2
-7.5°	855.2	805.8	751.1	694.5	637.9	572.0	499.0	409.4	325.5	232.2	155.4
-10°	846.6	797.3	742.4	686.5	630.1	563.5	491.3	400.9	320.0	227.9	150.5
-12.5°	836.3	786.7	731.8	677.0	620.6	553.2	481.4	390.4	312.4	222.5	144.5
-15°	823.5	773.3	719.6	665.6	609.4	541.2	469.7	377.9	301.5	216.0	139.1
-17.5°	808.0	757.8	705.1	652.4	595.7	527.8	456.4	365.9	288.9	208.3	134.3
-20°	791.6	740.6	688.9	637.1	578.9	512.7	440.0	353.2	274.6	198.4	128.8

Classified

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

Scaled Data Report



REPORT NUMBER: P670548 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: ARFL30DBZ-30W-4000K

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	772.2	722.2	672.0	619.9	560.3	495.7	421.2	339.1	259.3	187.2	122.7
-25°	749.3	701.6	652.8	601.1	539.9	477.1	400.0	324.2	242.7	175.0	114.9
-27.5°	725.2	678.5	631.3	578.7	518.3	455.6	376.2	307.9	226.4	160.9	105.7
-30°	700.8	655.5	607.4	553.2	495.1	431.1	354.3	285.2	211.7	145.8	95.9
-32.5°	672.1	629.1	581.6	526.0	470.4	403.7	332.5	261.1	195.4	132.9	88.4
-35°	644.3	600.0	550.8	498.0	442.4	372.5	309.7	237.1	177.0	122.6	81.4
-37.5°	612.1	568.3	518.4	468.7	410.4	344.0	281.3	214.9	157.4	110.5	74.3
-40°	577.9	532.2	485.4	435.9	374.3	315.5	250.8	192.9	136.8	96.5	67.1
-42.5°	538.1	495.1	450.9	398.9	339.8	283.1	221.5	169.4	122.7	85.6	59.8
-45°	496.7	457.4	412.0	356.9	305.5	247.0	194.4	145.2	107.4	76.3	52.3
-47.5°	454.5	414.7	367.6	318.5	265.4	213.5	166.6	124.7	90.1	66.8	44.8
-50°	407.6	365.7	323.3	276.0	226.5	181.1	139.1	107.1	79.1	57.2	37.3
-52.5°	354.0	316.3	275.9	231.8	188.7	149.8	117.4	87.8	67.6	47.8	30.7
-55°	301.2	265.0	227.2	189.6	153.4	122.5	96.1	75.1	56.0	38.7	24.5
-57.5°	245.8	214.2	181.0	150.3	123.1	99.7	79.1	61.5	44.9	30.5	19.7
-60°	193.7	165.8	140.3	118.2	98.2	79.7	64.1	48.5	34.4	23.4	15.3
-62.5°	144.9	124.9	107.8	90.9	77.3	63.3	49.2	36.5	25.7	17.9	11.0
-65°	106.4	93.1	79.3	70.4	59.1	46.8	35.8	26.3	19.2	12.8	7.7
-67.5°	74.8	67.6	59.3	50.3	41.5	32.4	24.6	18.9	13.2	8.5	5.3
-70°	52.6	46.1	39.4	33.3	27.3	21.5	17.2	12.2	8.3	5.4	3.7
-72.5°	32.5	28.4	24.3	20.2	17.7	14.0	9.7	7.1	5.0	3.6	2.7
-75°	17.9	16.4	14.7	12.2	9.1	7.2	5.4	4.2	3.3	2.5	2.1
-77.5°	10.0	8.3	7.2	5.9	4.8	3.8	3.2	2.8	2.3	2.0	1.7
-80°	4.9	4.4	3.7	3.3	2.9	2.6	2.3	2.0	1.7	1.5	1.3
-82.5°	3.1	2.8	2.6	2.3	2.0	1.7	1.5	1.3	1.2	1.2	1.1
-85°	2.1	1.8	1.6	1.4	1.2	1.1	1.0	1.0	1.0	1.0	1.0
-87.5°	1.6	1.5	1.3	1.2	1.0	0.9	0.9	0.9	1.0	1.0	1.0
-90°	2.0	2.0	1.9	1.9	1.8	1.8	1.7	1.7	1.6	1.6	1.5

Classified

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
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Scaled Data Report



REPORT NUMBER: P670548 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: ARFL30DBZ-30W-4000K

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	1.0	1.0	1.0	1.1	1.1	1.1	1.1
87.5°	1.7	1.6	1.4	1.3	1.2	1.2	1.1
85°	2.0	1.8	1.6	1.4	1.3	1.2	1.1
82.5°	2.4	2.0	1.7	1.5	1.3	1.2	1.1
80°	3.0	2.4	1.9	1.6	1.3	1.2	1.1
77.5°	3.9	2.8	2.2	1.7	1.4	1.2	1.1
75°	5.4	3.5	2.4	1.8	1.4	1.2	1.1
72.5°	7.6	4.5	2.7	2.0	1.5	1.2	1.1
70°	10.1	5.9	3.4	2.1	1.6	1.2	1.1
67.5°	13.1	7.5	4.0	2.3	1.6	1.2	1.1
65°	16.5	9.3	4.8	2.5	1.7	1.2	1.1
62.5°	20.3	11.5	5.8	2.9	1.8	1.3	1.1
60°	25.2	13.8	6.7	3.2	1.8	1.3	1.1
57.5°	30.3	16.4	8.1	3.5	1.9	1.3	1.1
55°	35.2	19.1	9.4	4.0	1.9	1.3	1.1
52.5°	39.9	22.8	10.7	4.4	2.0	1.3	1.1
50°	45.2	26.2	12.2	4.8	2.1	1.3	1.1
47.5°	50.2	29.3	13.6	5.3	2.2	1.4	1.1
45°	55.7	32.2	15.0	6.0	2.3	1.4	1.1
42.5°	60.7	35.2	17.1	6.6	2.4	1.4	1.1
40°	66.2	38.4	19.0	7.2	2.5	1.4	1.1
37.5°	71.2	41.4	20.8	7.7	2.5	1.4	1.1
35°	75.9	44.4	22.3	8.2	2.6	1.4	1.1
32.5°	80.2	47.3	23.6	8.7	2.7	1.4	1.1
30°	84.0	49.9	24.7	9.1	2.7	1.4	1.1
27.5°	88.0	52.2	25.6	9.4	2.8	1.4	1.1
25°	91.5	54.7	26.5	9.7	2.8	1.4	1.1
22.5°	94.4	56.7	27.5	9.8	2.8	1.4	1.1
20°	96.8	58.4	28.4	10.1	2.8	1.4	1.1
17.5°	98.8	59.8	29.0	10.4	2.7	1.4	1.1
15°	100.3	60.7	29.5	10.7	2.7	1.4	1.1
12.5°	101.2	61.4	29.7	10.8	2.6	1.4	1.1
10°	101.5	61.6	29.7	10.9	2.5	1.4	1.1
7.5°	101.2	61.5	29.5	10.8	2.4	1.4	1.1
5°	100.3	61.0	29.1	10.7	2.3	1.4	1.1
2.5°	98.9	60.2	28.6	10.4	2.2	1.4	1.1
0°	97.0	59.1	27.8	10.1	2.1	1.4	1.1
-2.5°	96.5	58.7	27.6	10.0	2.1	1.3	1.1
-5°	95.5	58.1	27.3	9.8	2.1	1.3	1.1
-7.5°	94.0	57.1	26.8	9.6	2.1	1.3	1.1
-10°	92.1	55.8	26.1	9.2	2.1	1.3	1.1
-12.5°	89.7	54.2	25.2	8.8	2.1	1.3	1.1
-15°	86.8	52.2	24.2	8.3	2.1	1.3	1.1
-17.5°	83.5	50.0	23.1	7.8	2.0	1.3	1.1
-20°	79.9	47.5	21.8	7.1	2.0	1.3	1.1

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Scaled Data Report



REPORT NUMBER: P670548 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: ARFL30DBZ-30W-4000K

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	76.1	44.7	20.3	6.7	2.0	1.3	1.1
-25°	72.1	41.6	18.8	6.3	1.9	1.3	1.1
-27.5°	67.7	38.2	17.5	6.0	1.9	1.3	1.1
-30°	63.0	35.1	16.2	5.6	1.9	1.3	1.1
-32.5°	58.1	32.0	14.9	5.1	1.8	1.3	1.1
-35°	53.0	28.7	13.4	4.7	1.8	1.3	1.1
-37.5°	47.6	25.4	11.9	4.2	1.7	1.3	1.1
-40°	42.1	22.5	10.3	3.8	1.7	1.3	1.1
-42.5°	36.3	19.5	8.6	3.3	1.6	1.2	1.1
-45°	31.4	16.8	6.9	2.8	1.6	1.2	1.1
-47.5°	26.4	14.4	6.0	2.3	1.5	1.2	1.1
-50°	22.3	11.9	5.2	2.1	1.4	1.2	1.1
-52.5°	18.2	9.5	4.3	2.0	1.4	1.2	1.1
-55°	14.8	7.2	3.6	1.9	1.4	1.2	1.1
-57.5°	11.5	5.7	2.9	1.8	1.3	1.1	1.1
-60°	8.6	4.6	2.2	1.6	1.3	1.1	1.1
-62.5°	6.0	3.6	2.1	1.5	1.3	1.1	1.1
-65°	4.6	2.7	1.9	1.4	1.3	1.1	1.1
-67.5°	3.4	2.2	1.7	1.3	1.2	1.1	1.1
-70°	2.5	1.9	1.5	1.3	1.2	1.1	1.1
-72.5°	2.0	1.7	1.3	1.2	1.2	1.1	1.1
-75°	1.7	1.4	1.3	1.2	1.1	1.1	1.1
-77.5°	1.4	1.3	1.2	1.1	1.1	1.1	1.1
-80°	1.2	1.2	1.1	1.1	1.1	1.1	1.1
-82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1
-85°	1.0	1.0	1.0	1.1	1.1	1.1	1.1
-87.5°	1.0	1.0	1.0	1.1	1.1	1.1	1.1
-90°	1.5	1.4	1.3	1.3	1.2	1.2	1.1

(END OF REPORT)