

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: P670547 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: ARFL30DBZ-30W-3500K

Issue Date: 3/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P670547 (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-3500K  
Description: SLIM WALL OR FLOODLIGHT  
Light Source:  
Ballast/Driver: -

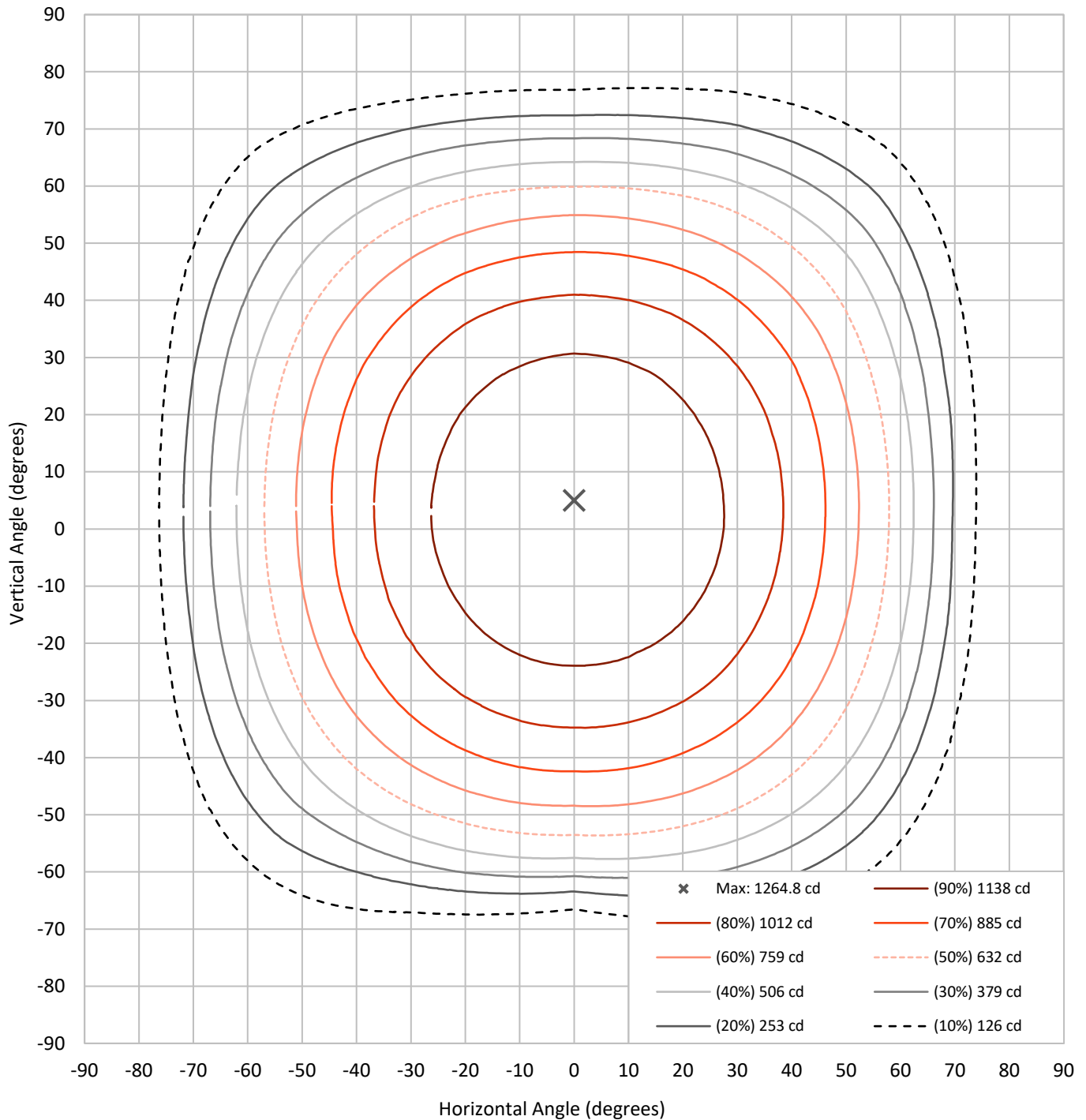
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	3511.4 lumens	Max Intensity:	1264.8 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:	2813.2 lumens	Field Lumens:	3458.9 lumens
Beam Efficiency:	80.1%	Field Efficiency:	98.5%
Input Watts (W):	27.7		
Input Voltage (V):	120		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		



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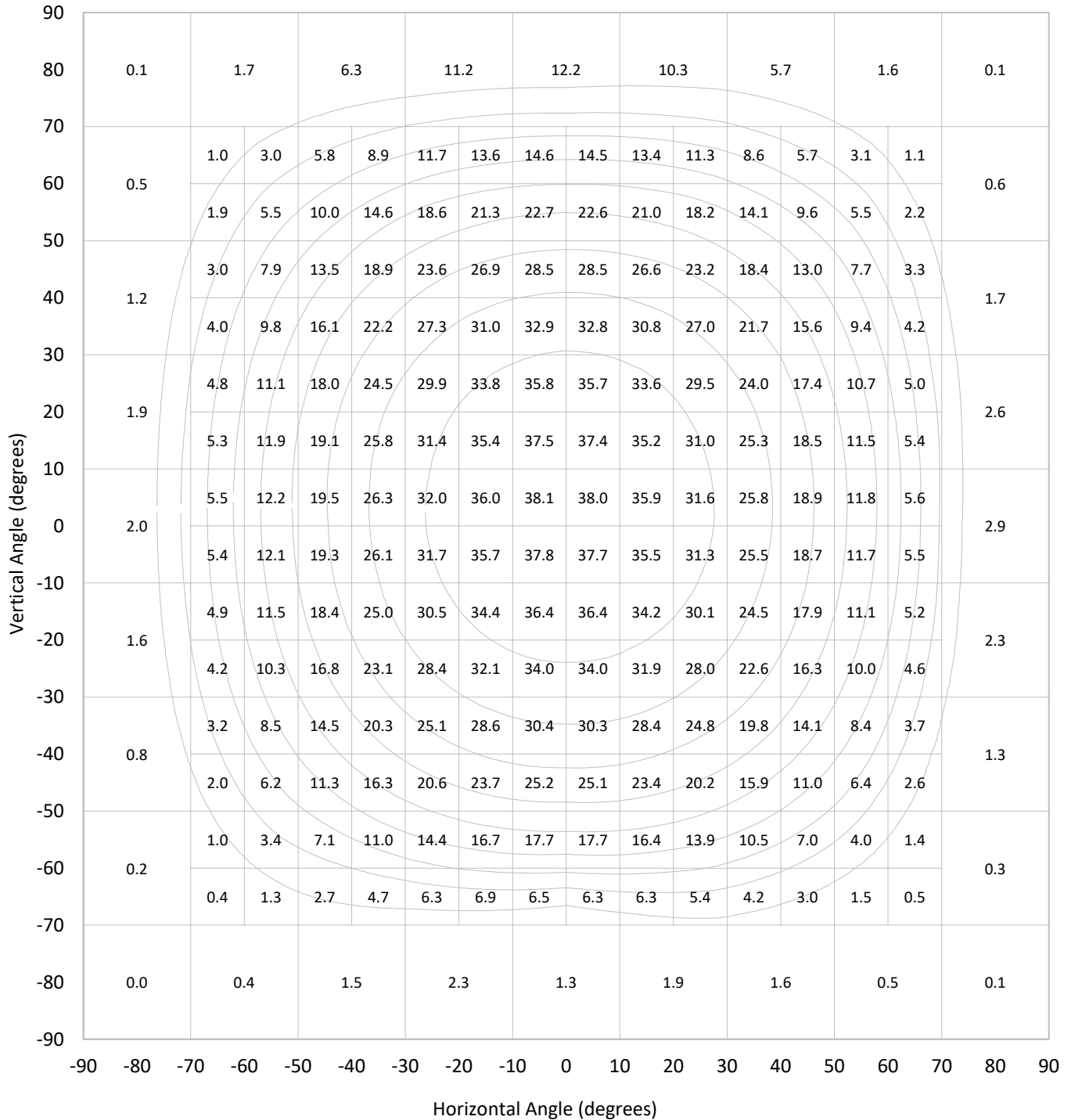
### Iso-Candela Plot





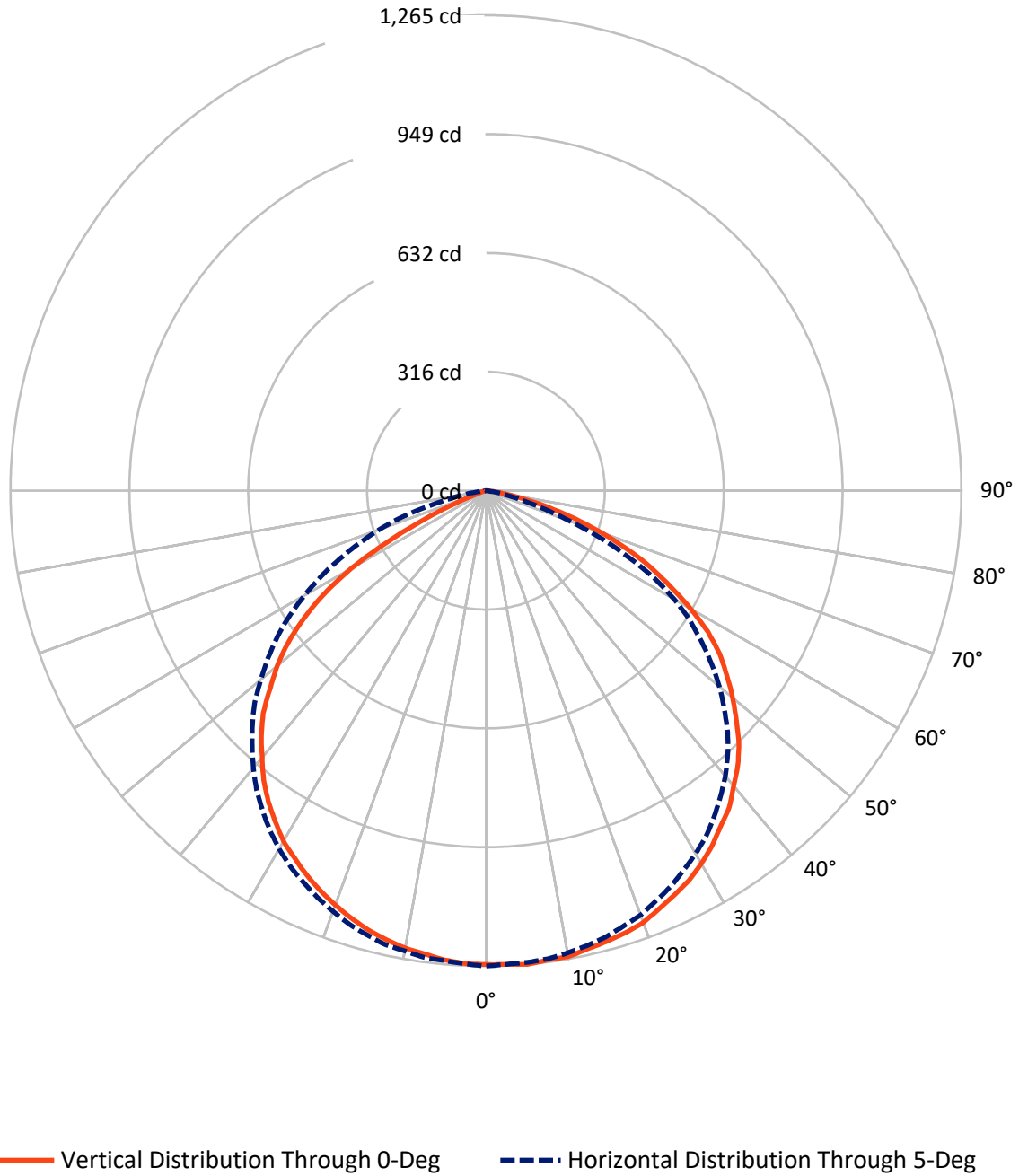
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### Lumen Table



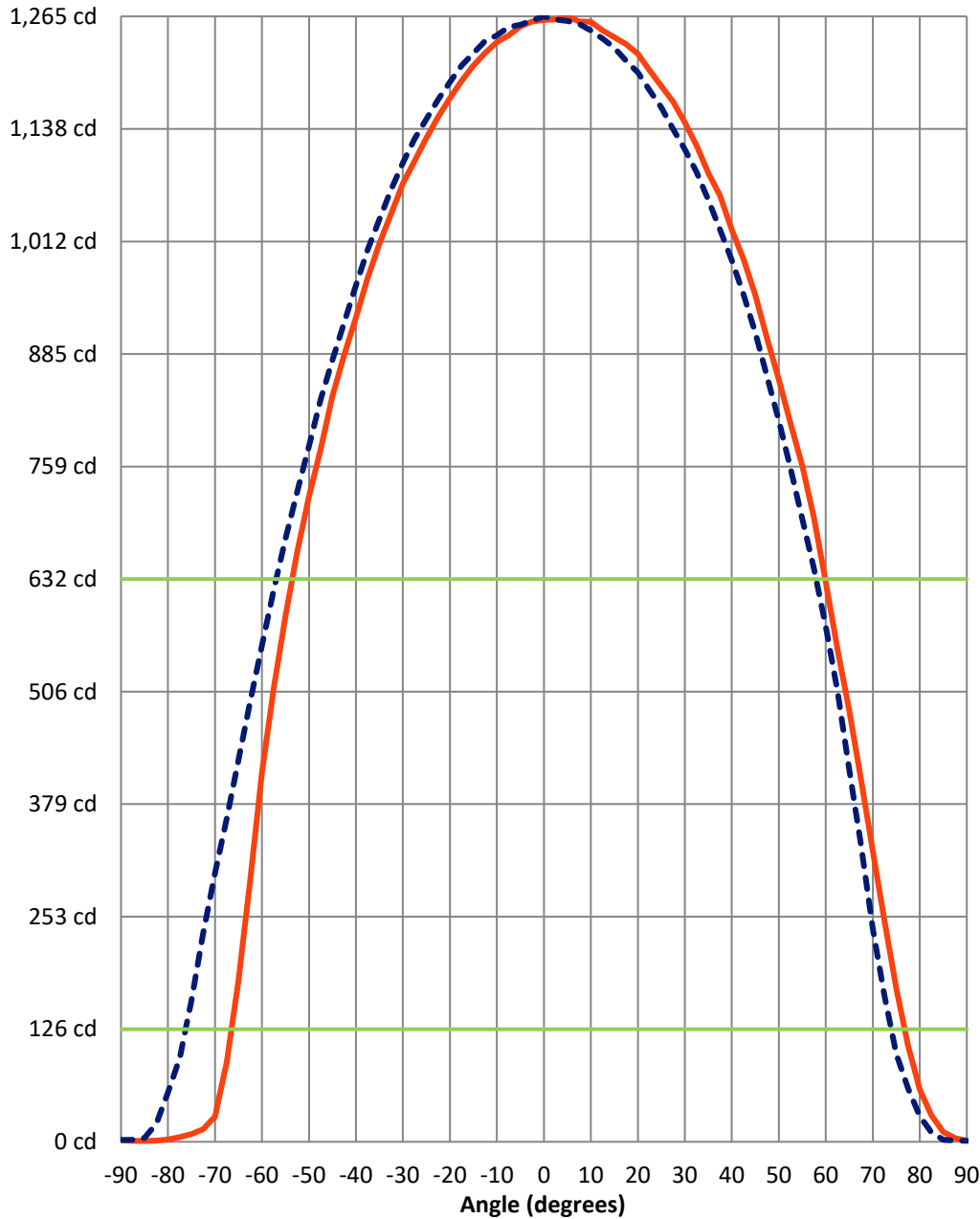
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CATALOG NUMBER: ARFL30DBZ-30W-3500K

### Luminous Intensity Polar Plot



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### Luminous Intensity Plot



**Beam:**  
 H Angle: 114.9°  
 V Angle: 113.4°  
 Lumens: 2813.2  
 Efficiency: 80.1%

**Field:**  
 H Angle: 150.2°  
 V Angle: 143.3°  
 Lumens: 3458.9  
 Efficiency: 98.5%

**Spill:**  
 Lumens: 52.5  
 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	2.0	2.0	2.0	1.9	1.9	1.9	1.8	1.8	1.8
87.5°	2.1	2.1	2.2	2.2	2.3	2.4	2.5	2.6	2.8	2.9	3.1
85°	2.1	2.1	2.2	2.3	2.4	2.6	2.8	3.1	3.4	3.7	4.1
82.5°	2.1	2.1	2.2	2.4	2.6	2.9	3.2	3.7	4.2	4.9	5.8
80°	2.1	2.2	2.3	2.5	2.8	3.2	3.7	4.4	5.7	7.2	9.7
77.5°	2.1	2.2	2.3	2.6	3.0	3.6	4.5	6.0	8.5	12.2	16.1
75°	2.1	2.2	2.4	2.7	3.2	4.2	5.7	8.8	12.9	17.3	23.5
72.5°	2.1	2.2	2.4	2.8	3.5	5.0	8.0	12.3	17.1	25.3	35.3
70°	2.1	2.2	2.5	3.0	4.0	6.4	10.6	15.7	24.6	36.3	48.6
67.5°	2.1	2.2	2.5	3.1	4.6	8.3	13.3	21.7	34.3	47.7	61.6
65°	2.1	2.2	2.6	3.3	5.5	10.1	17.0	29.3	44.2	59.3	77.9
62.5°	2.1	2.2	2.6	3.7	6.7	12.0	22.1	38.3	53.4	73.6	97.2
60°	2.1	2.2	2.7	4.0	7.9	14.8	28.9	45.6	65.7	89.6	118.4
57.5°	2.1	2.2	2.7	4.3	9.2	18.5	36.2	54.4	78.8	106.9	141.5
55°	2.1	2.2	2.8	5.0	10.4	22.8	41.9	64.9	92.4	125.6	166.6
52.5°	2.1	2.3	2.8	5.6	11.9	28.4	47.8	75.5	106.1	145.8	188.7
50°	2.1	2.3	3.0	6.2	14.4	33.9	56.5	85.9	121.1	166.3	211.2
47.5°	2.1	2.3	3.1	6.8	16.8	38.0	64.9	96.4	137.1	185.4	233.8
45°	2.1	2.3	3.2	7.5	19.4	41.8	72.6	107.1	153.9	203.9	255.4
42.5°	2.1	2.3	3.3	8.2	23.2	46.9	80.0	117.9	169.8	222.7	275.0
40°	2.1	2.3	3.4	8.8	26.8	53.1	87.3	129.8	184.8	241.5	292.0
37.5°	2.1	2.3	3.5	9.3	30.1	59.1	94.1	142.1	198.7	258.0	309.9
35°	2.1	2.3	3.6	10.3	32.7	64.3	101.0	153.9	212.9	272.7	326.5
32.5°	2.1	2.3	3.8	11.5	34.9	68.9	107.6	165.2	227.5	285.4	341.2
30°	2.1	2.3	4.0	12.5	36.9	73.1	113.6	175.5	240.4	298.3	354.1
27.5°	2.1	2.3	4.2	13.5	38.7	76.9	121.0	184.4	251.6	310.6	365.7
25°	2.1	2.3	4.3	14.3	40.8	80.4	127.9	192.4	261.7	321.2	378.3
22.5°	2.1	2.3	4.4	15.0	43.8	83.5	134.1	200.4	269.6	330.4	389.7
20°	2.1	2.3	4.5	15.9	46.5	86.1	139.6	208.7	276.6	338.4	399.4
17.5°	2.1	2.3	4.5	17.1	48.8	88.3	144.9	216.0	282.8	344.7	407.8
15°	2.1	2.3	4.5	18.0	50.9	90.2	149.4	222.3	288.7	350.1	414.7
12.5°	2.1	2.3	4.6	18.8	52.6	91.9	153.0	227.2	293.5	354.3	420.2
10°	2.1	2.3	4.5	19.4	53.9	93.1	155.8	230.7	297.3	358.3	424.4
7.5°	2.1	2.3	4.5	19.8	54.9	93.8	157.8	233.2	300.0	361.3	427.3
5°	2.1	2.3	4.5	20.1	55.5	94.0	159.0	234.6	301.6	363.1	429.0
2.5°	2.1	2.3	4.4	20.1	55.7	93.8	159.2	235.1	302.1	363.6	429.3
0°	2.1	2.3	4.3	20.0	55.6	93.2	158.6	234.6	301.5	362.9	428.4
-2.5°	2.1	2.3	4.3	19.7	55.0	92.3	157.1	232.7	299.4	360.8	426.2
-5°	2.1	2.3	4.3	19.3	54.0	91.1	154.7	229.8	296.2	357.3	422.7
-7.5°	2.1	2.3	4.2	18.8	52.7	89.4	151.4	225.9	291.9	352.7	417.9
-10°	2.1	2.3	4.2	18.0	51.0	87.4	147.3	220.9	286.5	346.8	411.8
-12.5°	2.1	2.2	4.1	17.1	48.9	84.9	142.3	215.0	280.0	339.9	404.4
-15°	2.1	2.2	4.1	16.0	46.6	82.1	136.5	207.6	272.5	332.8	395.8
-17.5°	2.1	2.2	4.0	14.8	43.9	79.2	129.9	198.7	263.9	324.6	385.8
-20°	2.1	2.2	3.9	13.4	41.0	76.1	122.5	188.9	255.2	315.3	374.4

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**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	2.1	2.2	3.7	12.4	37.7	72.7	115.3	178.1	245.7	304.3	361.8
-25°	2.1	2.2	3.6	11.5	34.2	69.1	107.8	167.7	235.5	292.0	347.4
-27.5°	2.1	2.2	3.5	10.6	31.7	65.2	99.9	157.6	222.6	278.4	331.7
-30°	2.1	2.2	3.3	9.6	29.6	61.0	91.8	146.8	208.3	263.1	316.9
-32.5°	2.1	2.2	3.2	8.6	27.4	56.4	85.4	134.2	192.4	247.5	300.7
-35°	2.1	2.2	3.0	7.5	25.0	51.6	78.8	120.5	174.9	232.5	282.4
-37.5°	2.1	2.2	2.9	6.5	22.3	46.2	72.2	107.4	158.2	214.8	262.5
-40°	2.1	2.2	2.8	6.0	19.2	40.0	66.1	95.3	142.5	194.8	241.6
-42.5°	2.1	2.2	2.7	5.5	15.9	33.6	59.8	84.2	125.2	172.5	222.5
-45°	2.1	2.2	2.6	5.0	12.5	28.6	52.9	75.0	106.7	151.0	199.1
-47.5°	2.1	2.2	2.6	4.5	10.5	25.1	45.8	66.3	91.7	131.0	173.3
-50°	2.1	2.2	2.5	4.1	8.7	21.4	37.7	58.3	78.2	108.9	147.4
-52.5°	2.1	2.2	2.4	3.7	6.9	17.0	29.4	49.6	66.8	90.0	123.6
-55°	2.1	2.1	2.3	3.3	5.9	12.6	24.3	40.6	57.3	74.2	98.1
-57.5°	2.1	2.1	2.3	3.0	5.1	9.7	19.7	30.9	47.2	61.3	78.5
-60°	2.1	2.1	2.3	2.8	4.3	7.4	14.6	23.5	36.6	50.5	62.9
-62.5°	2.1	2.1	2.3	2.7	3.8	5.8	10.0	18.1	25.9	38.5	50.4
-65°	2.1	2.1	2.2	2.5	3.3	4.8	7.4	12.5	19.2	26.9	37.3
-67.5°	2.1	2.1	2.2	2.4	2.9	4.0	5.6	8.5	13.3	18.5	24.9
-70°	2.1	2.1	2.2	2.3	2.7	3.4	4.5	5.9	8.5	12.2	16.2
-72.5°	2.1	2.1	2.2	2.3	2.5	2.9	3.7	4.7	5.8	7.7	10.1
-75°	2.1	2.1	2.1	2.2	2.4	2.6	3.0	3.7	4.5	5.4	6.4
-77.5°	2.1	2.1	2.1	2.2	2.3	2.4	2.7	3.0	3.5	4.1	4.7
-80°	2.1	2.1	2.1	2.1	2.2	2.3	2.4	2.6	2.9	3.2	3.6
-82.5°	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.3	2.5	2.6	2.8
-85°	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.2	2.2	2.3	2.3
-87.5°	2.1	2.1	2.0	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: P670547 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ARFL30DBZ-30W-3500K

**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°	3.3	3.5	3.5	3.6	3.7	3.7	3.8	3.8	3.8	3.9	3.9
85°	4.6	5.1	5.4	5.6	5.9	6.4	6.9	7.3	7.7	8.0	8.3
82.5°	7.1	8.6	9.6	11.4	13.1	14.7	16.2	17.6	19.0	20.4	21.8
80°	13.0	16.7	19.2	21.4	24.0	27.7	31.3	34.6	38.3	41.7	44.8
77.5°	20.3	25.9	31.6	36.9	42.6	48.0	52.9	57.5	62.1	66.5	70.6
75°	31.6	41.1	49.2	56.0	62.5	69.2	75.9	84.5	92.3	100.2	107.2
72.5°	46.6	57.2	66.9	75.4	87.0	98.7	110.5	122.0	133.1	144.2	155.1
70°	60.6	73.9	89.6	105.0	120.6	137.0	152.9	168.6	183.3	198.1	212.3
67.5°	77.8	97.6	120.1	140.8	161.3	180.6	198.3	217.1	235.8	254.7	272.0
65°	100.1	126.2	156.0	180.5	200.6	223.1	245.0	266.5	287.3	307.4	328.1
62.5°	125.2	157.8	190.3	215.6	240.9	265.2	289.1	312.3	337.1	359.4	380.6
60°	152.8	188.1	221.6	251.7	278.5	304.4	332.1	358.3	383.2	408.1	432.7
57.5°	180.3	216.8	252.7	285.3	313.6	344.5	372.9	401.2	429.8	457.5	485.0
55°	205.7	245.4	282.4	316.7	350.2	381.4	413.0	445.1	475.6	507.5	539.0
52.5°	231.6	272.6	309.8	348.7	383.7	418.3	453.4	487.5	522.3	558.3	590.5
50°	256.7	297.4	339.0	378.0	417.2	455.2	492.4	529.8	568.5	602.4	633.6
47.5°	279.9	323.1	365.2	407.2	450.4	490.4	530.4	571.2	608.2	641.5	672.7
45°	300.6	346.9	390.6	436.9	480.6	523.9	567.5	607.7	643.7	677.6	712.0
42.5°	322.9	368.8	416.5	463.1	510.2	557.7	600.8	639.9	677.0	714.1	747.7
40°	342.6	390.6	441.0	490.6	540.0	586.5	629.6	670.7	710.8	747.7	782.3
37.5°	360.4	412.3	463.5	514.6	565.6	612.8	658.4	701.7	741.4	779.4	813.2
35°	377.5	432.5	486.3	540.1	590.4	638.4	684.4	729.0	770.6	807.3	840.9
32.5°	395.2	450.3	505.5	560.5	611.5	660.8	708.5	754.2	796.4	831.5	866.4
30°	411.4	468.7	525.8	580.4	632.8	682.4	730.6	776.8	816.4	855.2	890.8
27.5°	425.9	484.8	542.9	597.7	650.7	701.7	750.3	795.2	837.1	875.6	913.1
25°	438.6	498.3	557.8	613.8	667.1	718.9	767.8	810.8	853.6	894.5	930.4
22.5°	450.8	512.2	571.4	628.7	682.0	733.9	782.1	827.7	870.3	910.2	947.0
20°	462.4	524.6	583.1	640.6	695.1	746.5	794.0	840.7	884.2	922.7	960.2
17.5°	471.9	533.9	593.4	650.9	706.0	757.5	804.7	852.3	895.2	935.0	973.5
15°	479.0	541.8	602.2	659.4	715.0	765.9	815.6	862.7	903.8	942.8	983.1
12.5°	484.6	548.2	609.4	666.2	721.5	772.4	823.4	870.0	910.9	950.8	990.7
10°	489.1	552.9	614.8	671.7	726.1	777.2	828.6	875.1	916.7	958.6	996.5
7.5°	492.7	556.1	618.2	675.5	729.0	780.2	832.2	877.7	920.5	961.6	1000.5
5°	494.8	557.7	620.0	677.5	730.4	781.6	834.3	878.5	920.8	962.5	1002.5
2.5°	495.3	557.8	620.1	677.6	729.9	781.2	834.5	877.5	919.2	961.3	1002.5
0°	494.2	556.3	618.7	676.0	727.7	779.0	832.6	874.8	916.1	958.3	1000.2
-2.5°	491.8	554.1	616.1	673.6	725.4	776.7	829.7	872.5	914.2	956.0	997.3
-5°	487.8	550.3	611.9	669.3	721.3	772.5	824.7	868.5	910.9	951.9	992.3
-7.5°	482.2	544.9	606.0	663.1	715.4	766.4	817.7	862.7	905.7	946.0	985.0
-10°	475.1	538.0	598.5	655.1	707.9	758.6	809.1	854.8	896.4	938.1	975.2
-12.5°	467.2	529.5	589.3	645.2	698.7	748.9	798.9	844.8	884.7	925.1	963.1
-15°	458.1	519.4	578.5	634.3	687.7	737.4	786.2	833.0	872.5	911.9	949.7
-17.5°	447.7	507.6	566.0	621.8	675.2	723.9	771.3	817.2	858.5	898.8	936.0
-20°	434.9	494.3	551.8	606.9	660.8	708.4	755.3	799.9	841.9	878.9	917.3

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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°	420.3	478.5	535.9	589.9	642.4	690.9	737.5	781.6	823.8	861.5	898.7
-25°	404.9	461.3	518.2	571.9	623.2	672.2	717.6	760.9	800.7	839.2	873.3
-27.5°	388.8	444.2	499.0	552.2	602.1	651.9	695.5	738.5	778.2	816.2	851.5
-30°	371.1	424.9	477.9	530.5	578.8	626.7	671.2	713.8	753.5	789.1	825.3
-32.5°	352.0	403.7	454.5	506.1	554.9	600.8	646.8	686.4	726.0	762.3	795.6
-35°	331.2	382.1	431.6	480.7	529.3	572.4	616.5	658.4	695.8	731.8	765.5
-37.5°	310.6	358.9	406.2	452.3	499.4	544.2	584.7	626.1	662.7	698.1	731.6
-40°	289.0	334.0	380.0	424.5	468.8	512.8	552.3	590.9	629.1	661.7	694.3
-42.5°	265.2	308.6	352.3	394.8	435.9	478.1	518.3	553.3	590.2	625.1	655.2
-45°	239.6	282.6	323.1	364.2	403.4	440.5	478.2	515.5	548.1	582.4	614.2
-47.5°	216.8	254.2	293.6	331.7	369.5	402.2	435.7	471.1	505.2	535.7	567.3
-50°	189.2	225.5	262.3	298.4	332.4	361.9	391.8	423.4	456.9	487.3	515.9
-52.5°	159.4	197.9	228.9	263.7	293.2	319.0	346.3	373.9	403.0	434.2	461.8
-55°	131.3	164.9	199.6	226.9	252.9	276.3	298.8	323.0	347.6	373.5	400.7
-57.5°	103.3	132.8	163.2	193.2	211.5	232.8	252.6	271.7	291.3	312.8	334.5
-60°	79.5	102.0	128.2	153.1	175.3	190.8	206.6	222.5	237.8	252.8	268.7
-62.5°	61.4	75.8	94.5	116.0	134.8	152.1	166.3	175.4	187.1	198.1	208.9
-65°	47.5	56.5	68.0	80.9	98.1	112.4	125.2	136.3	144.6	149.0	155.3
-67.5°	33.1	42.0	48.8	57.4	66.7	76.9	88.2	96.9	104.2	109.9	114.1
-70°	20.5	26.5	33.6	40.0	45.0	51.2	57.2	62.7	69.6	74.4	77.0
-72.5°	12.4	15.5	19.4	23.7	29.0	33.3	36.6	39.8	42.8	45.6	47.7
-75°	7.6	9.0	10.3	13.0	15.2	17.9	20.0	22.9	24.8	26.3	27.2
-77.5°	5.2	5.8	6.5	7.2	8.2	9.0	10.3	11.2	12.0	12.5	12.4
-80°	4.0	4.4	4.7	4.9	5.2	5.6	5.8	6.1	6.4	6.6	6.7
-82.5°	3.1	3.3	3.5	3.7	3.9	4.0	4.1	4.2	4.3	4.4	4.4
-85°	2.4	2.5	2.7	2.8	2.9	3.1	3.2	3.2	3.3	3.3	3.3
-87.5°	2.1	2.1	2.2	2.3	2.4	2.5	2.6	2.8	2.9	3.0	3.0
-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: P670547 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ARFL30DBZ-30W-3500K

**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°	4.0	4.0	4.0	4.1	4.1	4.2	4.2	4.2	4.2	4.2	4.2
85°	8.9	9.5	10.0	10.4	10.8	11.1	11.3	11.5	11.6	11.6	11.6
82.5°	23.5	25.3	26.9	28.0	28.9	29.6	30.2	30.7	31.1	31.3	31.3
80°	47.7	50.3	52.7	54.5	56.0	57.4	58.5	59.4	60.0	60.5	60.6
77.5°	75.2	79.8	83.9	87.5	91.1	94.4	97.4	100.0	102.4	104.6	106.4
75°	113.9	119.9	124.9	132.0	139.1	145.6	151.6	157.5	162.4	166.4	169.4
72.5°	165.8	176.8	187.1	196.7	205.8	214.7	223.2	230.5	236.5	241.2	244.7
70°	226.9	242.0	255.9	268.1	279.1	289.1	298.1	306.0	312.6	318.1	322.3
67.5°	288.8	305.0	321.0	336.0	348.1	358.8	368.6	377.2	384.8	391.3	397.0
65°	347.6	365.2	381.8	397.3	411.9	425.5	437.1	447.5	456.8	465.2	472.1
62.5°	401.4	422.2	441.2	459.4	476.6	492.1	505.9	518.0	528.7	537.4	544.3
60°	456.2	479.5	502.8	525.6	546.1	563.4	578.3	590.4	601.0	609.5	616.5
57.5°	512.8	540.5	568.0	592.5	612.6	626.9	640.9	654.0	665.0	674.4	682.9
55°	571.2	598.8	622.7	645.5	665.4	680.2	694.5	708.4	721.8	733.1	741.2
52.5°	619.3	646.2	669.5	690.6	712.1	730.7	744.8	759.2	771.6	781.8	790.3
50°	662.2	687.7	714.6	736.2	757.9	777.0	792.9	806.8	819.6	830.8	839.6
47.5°	702.9	730.1	756.6	780.5	801.8	822.0	838.9	853.2	865.9	876.9	886.1
45°	741.6	770.9	797.1	821.8	843.7	864.8	882.7	897.5	909.8	920.9	930.5
42.5°	779.5	808.3	834.5	860.0	883.9	904.3	921.8	936.9	950.6	962.5	972.4
40°	813.7	842.0	870.3	895.5	918.5	939.3	958.5	975.7	988.9	999.9	1008.3
37.5°	844.3	874.5	902.2	927.7	950.9	974.1	993.2	1008.4	1020.3	1033.0	1043.1
35°	873.1	903.7	931.7	958.0	982.2	1003.5	1022.0	1039.0	1052.3	1064.3	1073.6
32.5°	900.0	930.5	959.4	985.4	1008.9	1030.6	1049.5	1066.8	1080.5	1091.3	1100.6
30°	924.4	955.2	983.8	1010.1	1033.7	1055.3	1074.4	1090.9	1104.6	1114.1	1124.2
27.5°	945.6	977.1	1006.4	1032.3	1056.0	1076.8	1094.8	1110.1	1126.3	1137.6	1146.7
25°	965.3	997.8	1026.1	1052.2	1074.2	1094.8	1113.3	1130.7	1144.3	1159.3	1168.4
22.5°	982.7	1014.9	1043.5	1067.6	1090.3	1112.0	1130.7	1148.5	1162.6	1178.1	1185.7
20°	997.2	1029.5	1057.6	1081.4	1106.2	1126.9	1146.5	1162.5	1177.9	1192.0	1199.8
17.5°	1008.9	1041.3	1067.7	1095.9	1119.2	1139.3	1157.0	1174.5	1191.6	1202.4	1214.6
15°	1019.1	1049.9	1077.9	1105.7	1127.9	1147.8	1167.3	1186.0	1200.5	1213.4	1223.9
12.5°	1027.4	1056.9	1087.9	1114.4	1136.7	1155.6	1176.1	1193.8	1209.9	1222.9	1233.3
10°	1031.5	1062.2	1094.2	1119.7	1140.7	1163.9	1183.4	1201.6	1216.4	1229.6	1239.8
7.5°	1034.6	1067.2	1098.0	1124.6	1145.2	1169.3	1188.0	1207.0	1223.0	1232.5	1243.7
5°	1036.7	1070.2	1100.2	1127.3	1149.3	1171.3	1190.9	1209.5	1223.4	1237.1	1243.5
2.5°	1037.1	1070.7	1100.3	1126.1	1151.4	1171.5	1191.5	1209.9	1223.7	1235.8	1246.1
0°	1035.1	1068.9	1098.3	1123.8	1150.9	1169.6	1189.6	1207.5	1222.9	1234.5	1246.5
-2.5°	1031.8	1065.2	1094.1	1121.1	1146.9	1166.4	1185.3	1203.2	1217.5	1229.1	1239.6
-5°	1026.0	1059.3	1088.4	1116.7	1140.2	1161.6	1179.8	1196.7	1209.3	1223.3	1231.3
-7.5°	1017.7	1051.4	1081.8	1108.8	1131.1	1154.0	1172.3	1189.0	1200.5	1213.3	1224.9
-10°	1008.8	1042.5	1071.9	1098.3	1121.9	1144.1	1161.5	1175.3	1189.8	1202.0	1214.8
-12.5°	1000.2	1030.9	1058.7	1081.6	1109.8	1131.5	1149.9	1167.2	1180.2	1191.1	1200.8
-15°	987.1	1015.7	1045.0	1072.8	1095.4	1118.3	1137.1	1154.2	1168.3	1178.8	1186.3
-17.5°	969.9	1000.5	1031.1	1053.3	1075.2	1100.8	1120.8	1137.3	1153.0	1164.7	1174.2
-20°	951.0	985.0	1010.1	1038.4	1061.2	1080.4	1101.5	1119.1	1133.1	1145.8	1157.5

Classified

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

Scaled Data Report



REPORT NUMBER: P670547 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: ARFL30DBZ-30W-3500K

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	932.4	962.7	992.2	1017.0	1041.4	1063.2	1080.3	1098.3	1112.2	1124.0	1134.1
-25°	910.1	940.7	971.1	995.1	1018.2	1040.8	1059.2	1074.5	1092.5	1100.4	1110.8
-27.5°	884.7	917.3	944.6	972.6	993.5	1013.4	1033.9	1050.4	1065.2	1076.3	1088.6
-30°	858.0	889.6	918.9	943.2	967.9	986.5	1004.6	1019.8	1037.4	1048.7	1058.6
-32.5°	829.2	858.6	887.7	914.5	936.5	957.7	975.1	990.3	1003.8	1015.2	1025.6
-35°	796.8	827.6	854.0	879.2	903.7	925.9	942.0	958.5	971.4	981.9	992.1
-37.5°	762.9	791.7	819.8	844.0	864.5	886.9	906.3	923.3	934.1	946.0	955.4
-40°	725.0	753.8	780.8	805.3	829.3	846.3	863.1	880.4	894.6	906.5	915.7
-42.5°	684.0	711.8	737.9	763.4	785.0	804.4	823.9	837.5	850.0	860.9	870.4
-45°	642.7	667.4	691.8	715.3	736.6	758.1	775.2	789.5	801.9	813.6	822.6
-47.5°	596.6	623.2	645.2	665.5	685.2	704.2	721.9	737.4	750.8	760.9	768.8
-50°	544.3	571.7	595.6	616.8	634.6	650.7	666.1	681.0	693.9	704.6	713.0
-52.5°	488.2	512.1	537.4	560.0	579.4	595.9	610.6	623.3	634.8	644.0	651.6
-55°	428.8	451.2	472.5	492.2	511.9	531.2	545.9	558.6	568.9	577.4	584.0
-57.5°	357.4	380.8	404.4	424.0	439.9	454.5	468.5	481.0	492.1	501.0	507.7
-60°	286.3	303.7	322.0	340.3	357.3	372.2	385.2	394.1	402.1	408.9	414.4
-62.5°	219.4	229.1	241.6	254.0	266.0	277.0	287.0	295.1	301.6	306.0	308.3
-65°	161.1	166.3	172.0	177.2	183.6	188.7	194.9	199.2	201.8	203.1	202.6
-67.5°	115.6	115.2	115.6	116.3	118.9	120.6	121.3	121.7	120.7	118.1	114.9
-70°	78.5	79.0	77.9	76.8	76.6	75.5	73.1	69.9	66.9	62.6	57.3
-72.5°	49.4	50.2	49.4	48.6	48.2	47.4	46.2	44.1	41.2	37.8	33.9
-75°	28.0	28.2	27.8	28.1	28.4	28.2	27.5	26.4	24.8	22.8	20.5
-77.5°	12.6	12.7	12.2	12.6	13.3	13.6	13.5	13.2	12.6	11.8	10.8
-80°	6.7	6.5	6.1	5.9	5.7	5.5	5.3	5.1	4.8	4.5	4.2
-82.5°	4.4	4.4	4.4	4.2	4.0	3.8	3.6	3.3	3.1	2.8	2.5
-85°	3.4	3.4	3.4	3.2	3.0	2.9	2.7	2.5	2.3	2.1	1.9
-87.5°	3.1	3.2	3.3	3.1	2.9	2.7	2.5	2.3	2.1	1.9	1.7
-90°	2.2	2.1	2.1	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.8



REPORT NUMBER: P670547 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ARFL30DBZ-30W-3500K

**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°	4.2	4.2	4.2	4.2	4.3	4.4	4.4	4.5	4.6	4.7	4.7
85°	11.5	11.4	11.2	11.0	11.5	11.9	12.3	12.7	12.9	13.1	13.3
82.5°	31.1	30.7	30.2	29.6	30.7	31.7	32.6	33.2	33.7	34.0	34.1
80°	60.5	60.2	59.6	58.8	60.9	62.7	64.2	65.4	66.4	67.0	67.2
77.5°	107.6	108.4	108.6	108.3	111.1	113.4	115.1	116.2	116.8	116.9	116.4
75°	171.5	172.7	173.0	172.5	175.2	177.0	178.0	178.1	177.5	176.0	173.8
72.5°	247.1	248.5	248.8	248.0	249.9	250.8	250.6	249.4	247.2	244.2	240.3
70°	325.3	327.1	327.7	327.0	328.6	329.0	328.2	326.2	322.9	318.5	312.8
67.5°	401.6	404.8	406.7	407.0	408.0	407.6	405.7	402.7	398.4	392.8	386.0
65°	477.5	481.3	483.6	484.4	485.1	484.3	482.0	478.2	472.8	466.0	457.7
62.5°	549.1	552.2	553.6	553.3	555.1	555.2	553.8	550.7	545.7	538.8	530.1
60°	622.0	626.0	628.4	628.9	629.9	629.1	626.5	622.2	616.3	608.9	599.7
57.5°	689.7	695.0	698.6	700.6	700.2	698.1	694.4	689.0	681.5	672.6	662.8
55°	748.0	753.4	757.3	759.7	758.8	756.3	752.3	746.7	739.6	730.4	719.8
52.5°	797.0	802.1	805.4	807.2	806.7	804.4	800.4	794.8	787.8	779.5	769.1
50°	846.5	851.6	855.1	856.8	856.7	854.8	850.8	844.8	836.8	827.5	816.2
47.5°	893.3	898.3	901.5	902.9	902.7	900.6	896.7	890.9	883.5	874.8	864.7
45°	938.5	944.8	949.2	951.5	950.1	946.8	941.7	935.1	927.0	917.5	905.9
42.5°	980.1	985.9	989.8	991.9	990.6	987.4	982.4	976.1	968.1	956.8	944.3
40°	1014.9	1019.9	1023.2	1024.9	1024.4	1022.3	1018.4	1012.8	1004.7	994.0	981.1
37.5°	1050.9	1056.9	1060.9	1063.1	1062.5	1060.4	1056.4	1048.8	1038.7	1027.6	1016.4
35°	1080.6	1085.0	1087.6	1088.7	1089.0	1087.9	1085.1	1079.4	1070.1	1062.7	1049.1
32.5°	1107.9	1113.3	1117.3	1119.6	1118.5	1115.6	1111.4	1105.9	1098.1	1089.3	1076.4
30°	1132.7	1138.7	1143.1	1145.6	1144.2	1141.2	1136.9	1130.1	1121.0	1111.7	1100.4
27.5°	1155.7	1162.0	1166.4	1169.0	1167.4	1163.9	1159.3	1152.6	1143.1	1135.2	1119.1
25°	1177.4	1181.9	1184.9	1186.4	1185.8	1183.5	1179.2	1172.7	1164.5	1153.0	1138.4
22.5°	1193.5	1200.0	1202.4	1204.1	1203.5	1201.4	1197.0	1190.6	1182.0	1169.3	1155.5
20°	1208.0	1215.0	1219.8	1222.7	1221.0	1216.3	1210.1	1206.3	1197.5	1184.9	1170.6
17.5°	1219.9	1227.1	1231.4	1233.6	1231.9	1229.0	1225.5	1220.1	1208.0	1198.8	1183.2
15°	1232.8	1237.9	1240.3	1241.3	1241.3	1239.5	1233.5	1226.8	1219.2	1208.7	1195.9
12.5°	1241.5	1246.7	1249.1	1249.0	1248.9	1246.6	1244.3	1236.4	1225.7	1214.8	1205.5
10°	1247.9	1254.3	1257.9	1258.6	1259.0	1255.8	1248.5	1242.1	1234.0	1220.9	1209.3
7.5°	1250.8	1257.6	1258.4	1259.2	1259.5	1259.4	1255.1	1244.1	1236.1	1227.0	1211.2
5°	1252.7	1255.4	1260.3	1264.8	1261.2	1259.6	1256.3	1248.9	1239.8	1229.4	1214.8
2.5°	1253.0	1257.7	1261.1	1261.4	1259.9	1259.1	1255.5	1250.0	1240.6	1230.0	1215.8
0°	1252.3	1254.4	1256.5	1260.7	1260.2	1258.4	1254.5	1246.5	1240.6	1229.8	1214.7
-2.5°	1248.8	1254.0	1257.2	1259.0	1258.7	1259.1	1254.2	1245.3	1237.5	1224.9	1210.7
-5°	1243.0	1247.4	1250.3	1253.5	1253.9	1254.0	1247.1	1241.0	1231.5	1217.0	1204.9
-7.5°	1234.1	1240.7	1242.9	1243.4	1245.9	1244.4	1240.3	1234.4	1221.6	1208.7	1196.1
-10°	1225.0	1233.2	1235.5	1235.8	1236.6	1234.9	1230.4	1221.0	1209.6	1199.7	1186.6
-12.5°	1211.1	1218.2	1222.8	1223.8	1224.4	1221.2	1214.6	1207.9	1197.7	1186.7	1172.7
-15°	1196.3	1202.2	1207.5	1209.5	1208.8	1205.9	1200.3	1190.2	1183.0	1171.4	1160.9
-17.5°	1179.6	1185.3	1190.2	1192.3	1191.0	1186.8	1182.2	1174.6	1166.3	1157.0	1144.5
-20°	1163.6	1168.7	1172.1	1172.9	1172.2	1169.1	1163.9	1156.7	1149.9	1138.7	1125.9



REPORT NUMBER: P670547 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ARFL30DBZ-30W-3500K

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	1142.9	1148.8	1151.5	1151.8	1151.5	1149.2	1145.9	1138.4	1126.5	1117.5	1104.9
-25°	1119.1	1124.3	1127.3	1128.2	1128.0	1125.3	1120.0	1113.9	1104.4	1095.4	1083.9
-27.5°	1094.3	1098.4	1101.5	1102.5	1102.3	1099.9	1095.9	1090.4	1081.8	1071.0	1057.4
-30°	1066.8	1072.2	1075.7	1077.0	1076.8	1074.3	1069.7	1062.5	1053.3	1042.5	1029.1
-32.5°	1034.6	1040.0	1042.5	1043.0	1043.3	1041.5	1037.2	1030.3	1022.1	1011.1	997.7
-35°	999.3	1004.6	1008.1	1009.4	1009.5	1007.1	1002.4	995.9	987.9	978.1	965.6
-37.5°	962.8	967.6	970.2	970.8	971.3	969.8	965.9	959.4	951.1	941.6	926.1
-40°	921.1	924.7	926.5	926.3	927.6	926.6	923.0	916.7	909.3	899.5	886.8
-42.5°	877.4	881.9	884.2	884.3	885.0	883.6	880.1	874.5	867.1	856.5	844.0
-45°	829.3	834.3	837.4	838.0	838.3	836.2	832.0	825.9	818.5	809.7	798.8
-47.5°	774.6	777.9	779.2	778.5	780.5	780.5	778.5	773.9	767.3	758.8	747.8
-50°	719.2	723.3	725.3	725.0	726.7	726.2	723.5	718.4	711.3	702.4	691.4
-52.5°	657.5	661.4	663.2	662.9	664.7	664.4	662.0	657.6	651.5	643.7	633.3
-55°	588.7	591.5	592.2	590.5	593.5	594.2	592.8	589.4	584.3	577.2	568.4
-57.5°	511.5	513.0	512.3	509.4	513.7	515.8	515.8	513.6	508.9	502.3	493.7
-60°	418.0	419.5	418.5	414.7	420.4	423.3	423.7	422.1	418.7	414.0	408.4
-62.5°	308.3	306.0	301.3	294.1	303.7	311.0	316.0	319.1	320.3	319.8	317.9
-65°	200.2	195.9	189.5	181.1	193.1	203.0	211.0	217.1	221.4	224.1	226.1
-67.5°	110.7	105.0	97.9	89.3	101.9	113.1	122.8	131.0	138.1	144.7	149.8
-70°	51.1	44.1	36.5	28.4	40.1	51.3	61.7	71.2	79.5	86.5	92.0
-72.5°	29.5	24.7	19.5	14.2	21.5	28.5	35.1	41.1	46.3	50.9	54.6
-75°	17.8	14.9	11.9	8.7	12.6	16.4	19.9	23.2	26.0	28.3	30.1
-77.5°	9.6	8.3	6.8	5.3	7.0	8.6	10.1	11.5	12.6	13.4	14.1
-80°	3.8	3.4	3.0	2.6	3.2	3.7	4.3	4.8	5.2	5.6	5.9
-82.5°	2.2	1.9	1.6	1.3	1.7	2.0	2.3	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°	1.5	1.3	1.1	1.0	1.1	1.2	1.4	1.5	1.7	1.8	2.0
-90°	1.8	1.8	1.7	1.7	1.8	1.8	1.9	1.9	2.0	2.0	2.1



REPORT NUMBER: P670547 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ARFL30DBZ-30W-3500K

**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	4.8	4.8	4.8	4.8	4.6	4.4	4.2	4.1	3.9	3.7
85°	13.3	13.3	13.2	13.0	12.7	11.9	11.1	10.2	9.6	9.0	8.2
82.5°	34.0	33.8	33.4	32.7	31.7	29.7	27.6	25.5	23.8	22.0	20.0
80°	67.1	66.7	65.8	64.5	62.3	58.4	54.3	50.3	46.7	42.9	38.8
77.5°	115.2	113.4	111.0	107.9	103.6	96.6	89.5	82.9	77.4	71.6	65.5
75°	170.7	167.6	164.3	160.4	154.4	145.1	135.5	125.6	115.4	105.3	95.6
72.5°	235.5	229.8	224.1	218.2	209.7	197.3	183.9	170.6	157.2	143.7	131.1
70°	306.0	298.2	289.4	280.2	268.3	254.0	238.0	222.0	206.4	189.5	171.8
67.5°	377.8	368.5	358.2	346.7	331.1	314.0	296.8	278.9	260.1	238.4	216.8
65°	447.9	436.6	425.2	413.2	395.8	376.6	356.2	334.5	312.2	291.1	268.5
62.5°	519.3	506.3	491.8	476.1	457.3	437.3	417.6	394.1	368.3	341.5	314.5
60°	589.1	576.7	562.5	544.1	521.6	497.7	474.8	450.3	425.1	397.3	365.7
57.5°	652.6	640.7	626.1	606.9	584.5	560.1	533.6	505.2	477.5	448.7	418.7
55°	707.6	694.2	678.5	660.4	640.2	615.4	589.1	560.3	529.7	497.1	465.9
52.5°	756.8	742.9	727.1	708.1	686.8	663.0	639.0	609.4	578.9	545.5	510.5
50°	802.1	788.1	771.7	751.8	730.8	707.6	681.7	653.7	623.3	589.8	554.1
47.5°	850.0	833.5	815.2	793.2	772.0	747.8	722.3	694.3	663.2	630.7	593.7
45°	892.6	878.1	859.5	835.7	813.0	786.2	759.8	731.5	700.9	667.1	631.5
42.5°	931.6	916.3	896.5	875.9	852.2	825.7	796.0	766.3	735.1	701.7	664.8
40°	967.6	949.0	931.0	911.5	887.1	861.9	832.0	801.2	767.2	733.0	696.6
37.5°	1000.8	982.7	962.9	941.5	919.6	893.3	865.3	833.1	799.7	762.4	725.4
35°	1031.6	1013.8	993.0	971.3	947.6	922.1	894.5	863.4	829.0	791.3	751.8
32.5°	1061.7	1041.8	1021.0	998.1	975.2	948.4	920.3	890.0	856.0	820.2	775.6
30°	1085.7	1066.7	1047.2	1023.6	998.1	973.6	944.9	914.8	880.3	841.6	800.8
27.5°	1105.3	1089.4	1069.1	1046.2	1021.3	993.3	965.9	935.9	903.1	862.1	819.6
25°	1122.6	1107.5	1088.2	1066.5	1040.4	1014.0	984.4	951.1	917.2	879.7	837.2
22.5°	1139.3	1121.8	1105.4	1083.5	1060.0	1031.3	1000.2	970.8	935.6	897.4	853.2
20°	1153.4	1136.3	1115.7	1097.4	1073.8	1045.6	1016.1	982.5	945.8	908.9	866.5
17.5°	1167.6	1147.8	1129.3	1106.6	1084.3	1058.9	1027.4	994.4	961.0	921.8	878.5
15°	1177.6	1158.4	1139.4	1117.9	1096.8	1068.4	1037.2	1005.5	970.0	930.7	889.0
12.5°	1187.7	1169.5	1146.0	1126.2	1101.0	1075.8	1047.1	1013.6	977.7	937.1	896.4
10°	1194.6	1174.6	1153.7	1131.2	1106.9	1081.7	1052.3	1019.1	984.1	944.7	902.7
7.5°	1200.5	1179.6	1160.6	1135.2	1112.3	1087.6	1056.3	1022.6	988.4	949.9	907.0
5°	1201.8	1181.7	1162.3	1138.2	1115.3	1089.7	1058.5	1025.0	990.6	952.1	909.2
2.5°	1201.1	1181.6	1162.7	1139.3	1116.4	1089.0	1058.7	1025.5	990.8	952.4	909.3
0°	1199.5	1179.5	1161.4	1138.4	1115.5	1087.3	1057.0	1023.9	989.1	950.9	907.5
-2.5°	1195.5	1176.0	1157.7	1134.8	1111.8	1083.7	1053.3	1020.3	985.7	947.5	904.2
-5°	1188.9	1170.6	1152.3	1129.3	1105.8	1079.0	1047.6	1014.7	980.5	942.0	899.0
-7.5°	1180.0	1163.3	1145.5	1120.6	1097.8	1071.6	1040.1	1007.2	973.5	934.7	892.0
-10°	1171.2	1153.4	1134.7	1109.9	1086.4	1061.4	1030.6	997.8	964.7	925.0	883.2
-12.5°	1159.1	1143.2	1122.9	1102.0	1073.8	1048.8	1018.7	986.4	953.0	913.6	871.3
-15°	1145.1	1128.6	1106.2	1087.2	1063.5	1034.5	1004.8	973.7	939.4	900.2	856.8
-17.5°	1130.1	1112.1	1094.0	1067.1	1046.3	1018.7	988.6	958.8	923.9	884.9	841.3
-20°	1111.1	1094.9	1072.8	1053.5	1027.2	1000.2	971.5	941.0	906.5	867.9	824.4



REPORT NUMBER: P670547 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ARFL30DBZ-30W-3500K

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	1091.7	1073.5	1055.5	1031.4	1007.0	979.2	952.6	921.2	885.4	846.7	805.7
-25°	1067.8	1052.1	1031.2	1009.1	984.7	959.1	930.4	900.0	864.5	824.8	783.7
-27.5°	1043.2	1025.5	1005.8	984.5	960.9	934.4	906.4	873.6	838.7	801.5	761.5
-30°	1014.4	997.2	978.7	957.8	933.0	907.5	878.1	847.1	812.4	774.9	733.1
-32.5°	984.2	967.4	949.1	926.3	903.3	877.1	849.3	817.4	782.7	746.3	704.6
-35°	951.5	932.3	914.4	893.7	869.8	845.4	816.6	785.3	752.3	712.5	674.5
-37.5°	912.1	895.9	878.8	857.1	835.6	809.9	781.4	751.1	715.0	680.8	643.3
-40°	873.1	855.9	839.9	820.1	797.2	770.9	743.0	710.7	679.9	644.8	608.7
-42.5°	831.1	816.5	798.4	778.0	753.9	728.2	699.7	672.1	640.5	607.5	570.8
-45°	785.7	770.2	750.9	729.8	707.1	683.2	657.5	630.0	599.3	565.5	528.5
-47.5°	733.2	716.7	699.5	680.5	660.6	637.0	612.3	583.9	553.1	519.1	483.7
-50°	678.3	664.4	648.7	630.3	610.3	587.1	561.0	532.8	502.2	470.6	437.9
-52.5°	621.5	608.4	593.3	574.6	553.4	530.0	504.8	477.9	449.9	419.9	386.6
-55°	557.3	544.4	528.9	510.8	491.0	469.3	446.3	421.1	393.7	362.9	328.8
-57.5°	483.5	471.9	459.7	444.7	426.3	405.7	383.2	357.5	329.7	302.3	274.0
-60°	401.8	393.9	385.2	373.0	354.7	334.1	312.3	290.9	268.3	243.5	217.1
-62.5°	314.1	308.6	302.2	293.8	279.2	263.6	246.2	227.5	207.4	186.6	164.1
-65°	227.0	226.5	224.7	221.4	210.8	197.7	183.3	167.7	151.0	134.4	119.0
-67.5°	153.5	155.9	156.5	155.5	147.8	137.3	126.1	115.2	104.1	94.3	84.3
-70°	96.3	98.8	99.3	99.1	95.0	88.8	82.4	76.0	69.3	63.4	58.0
-72.5°	57.2	58.6	59.2	59.0	57.0	54.0	50.8	47.5	44.0	40.1	36.1
-75°	31.2	31.9	32.1	31.5	30.4	29.4	27.8	26.1	24.5	22.4	20.3
-77.5°	14.7	15.0	15.1	14.8	14.4	14.0	13.2	12.6	12.3	11.8	11.1
-80°	6.2	6.4	6.5	6.7	6.9	7.1	7.0	6.7	6.4	6.0	5.4
-82.5°	3.9	4.1	4.3	4.5	4.7	4.5	4.3	4.0	3.8	3.5	3.3
-85°	2.7	2.9	3.0	3.2	3.3	3.1	3.0	2.8	2.6	2.4	2.2
-87.5°	2.1	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: P670547 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ARFL30DBZ-30W-3500K

**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°	3.6	3.4	3.2	3.1	2.9	2.7	2.5	2.3	2.1	2.0	1.8
85°	7.5	6.7	5.8	5.3	4.9	4.4	3.8	3.3	2.9	2.5	2.2
82.5°	18.1	16.2	14.4	12.4	10.3	8.8	7.0	5.3	4.2	3.5	2.8
80°	35.0	31.1	27.0	23.8	20.8	17.5	13.5	9.9	7.2	5.3	3.7
77.5°	58.9	52.3	46.4	40.1	34.4	28.4	22.0	16.7	12.2	8.4	5.7
75°	85.9	77.9	69.9	61.4	52.8	43.7	33.3	24.9	18.2	12.7	8.5
72.5°	118.6	106.4	94.6	83.3	73.6	61.5	47.9	35.9	25.8	17.8	11.9
70°	154.0	137.0	122.0	108.1	94.6	79.1	63.6	48.8	35.5	24.3	15.9
67.5°	196.7	175.8	154.0	133.6	116.9	98.1	79.0	62.0	46.3	32.3	20.9
65°	242.9	215.7	191.8	167.7	141.6	117.4	95.8	75.4	57.2	41.0	26.8
62.5°	290.0	263.4	231.7	202.1	173.6	140.3	112.9	89.8	68.4	49.6	33.6
60°	333.9	303.8	275.8	242.5	203.6	167.7	132.9	104.5	80.4	58.6	40.3
57.5°	383.9	346.9	311.7	281.7	239.8	194.3	156.3	120.3	92.7	68.3	47.1
55°	432.2	395.2	353.3	313.3	273.0	225.4	179.0	140.1	105.2	78.1	54.0
52.5°	475.5	439.0	398.5	349.3	300.0	255.8	204.5	158.4	119.8	88.1	61.6
50°	516.3	478.2	438.8	388.5	331.1	281.2	231.4	178.9	135.2	98.0	69.1
47.5°	555.5	515.1	473.0	423.1	366.3	306.6	256.5	200.6	149.5	109.1	76.8
45°	591.2	550.3	504.1	453.3	399.4	336.1	277.6	222.6	166.5	120.6	84.2
42.5°	625.5	582.3	534.6	482.2	426.4	367.0	298.7	243.9	183.2	131.5	91.3
40°	656.4	611.2	563.5	511.0	452.3	393.1	324.4	261.6	199.2	142.8	99.0
37.5°	684.6	639.2	588.9	537.1	478.3	415.1	350.1	278.1	217.3	155.5	106.6
35°	709.6	664.2	614.8	561.4	503.3	436.4	372.9	295.9	233.1	167.1	113.7
32.5°	732.1	686.8	637.9	582.4	525.3	458.8	390.0	316.2	246.4	177.3	120.3
30°	752.7	706.9	658.1	603.8	545.2	479.9	406.1	335.4	258.0	188.4	126.8
27.5°	772.4	725.0	676.1	622.9	562.7	498.7	422.0	353.1	268.1	200.4	134.6
25°	792.5	741.2	691.9	639.5	578.6	514.9	438.9	364.5	280.4	211.1	141.7
22.5°	807.5	756.3	705.8	653.4	593.9	528.9	454.3	374.4	293.1	219.1	147.4
20°	820.4	770.4	718.0	665.3	607.1	541.3	468.0	383.7	304.4	226.1	151.5
17.5°	832.1	783.0	728.4	675.4	618.5	551.3	479.6	391.5	314.2	231.9	154.7
15°	841.9	792.3	737.1	683.5	627.4	559.9	488.4	398.7	322.3	235.6	156.9
12.5°	849.3	799.4	744.8	690.1	633.9	567.2	495.6	406.1	328.9	238.2	159.2
10°	854.5	804.9	750.8	695.0	638.9	572.9	501.0	411.9	332.1	239.7	161.9
7.5°	857.9	808.7	754.8	698.3	642.1	576.8	504.4	415.9	333.3	240.2	163.5
5°	859.9	810.5	756.6	699.9	643.6	579.0	506.1	418.0	333.3	239.6	163.7
2.5°	859.8	810.5	756.5	699.8	643.6	579.4	506.1	418.1	331.9	238.0	162.8
0°	857.7	808.6	754.6	698.0	642.0	577.9	504.5	416.2	329.4	235.4	160.6
-2.5°	854.7	805.6	751.7	695.2	639.2	575.0	501.9	414.0	327.8	234.2	159.4
-5°	849.7	800.8	746.9	690.6	634.8	570.3	497.6	409.8	324.9	232.1	156.9
-7.5°	842.8	794.1	740.3	684.4	628.7	563.7	491.7	403.4	320.8	228.9	153.2
-10°	834.3	785.8	731.7	676.6	621.0	555.3	484.2	395.0	315.3	224.6	148.3
-12.5°	824.2	775.3	721.2	667.1	611.6	545.2	474.4	384.7	307.9	219.3	142.4
-15°	811.5	762.1	709.1	655.9	600.6	533.4	462.9	372.4	297.1	212.9	137.1
-17.5°	796.2	746.9	694.9	643.0	587.1	520.1	449.8	360.5	284.7	205.3	132.3
-20°	780.1	729.9	678.9	627.9	570.5	505.2	433.6	348.1	270.7	195.5	126.9



REPORT NUMBER: P670547 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ARFL30DBZ-30W-3500K

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	761.1	711.7	662.3	611.0	552.2	488.5	415.0	334.2	255.5	184.5	120.9
-25°	738.4	691.4	643.4	592.4	532.1	470.1	394.1	319.5	239.2	172.5	113.2
-27.5°	714.7	668.7	622.1	570.3	510.7	448.9	370.8	303.4	223.1	158.6	104.2
-30°	690.6	646.0	598.6	545.1	488.0	424.9	349.2	281.0	208.7	143.6	94.5
-32.5°	662.4	620.0	573.2	518.4	463.6	397.8	327.7	257.3	192.5	131.0	87.1
-35°	635.0	591.3	542.8	490.8	436.0	367.0	305.2	233.7	174.5	120.8	80.3
-37.5°	603.2	560.1	510.9	461.8	404.4	339.0	277.3	211.8	155.1	108.8	73.3
-40°	569.5	524.4	478.4	429.6	368.8	311.0	247.2	190.1	134.8	95.1	66.2
-42.5°	530.3	487.9	444.3	393.1	334.9	279.0	218.4	167.0	120.9	84.4	58.9
-45°	489.5	450.8	406.0	351.7	301.0	243.4	191.5	143.1	105.8	75.2	51.6
-47.5°	447.9	408.6	362.3	313.8	261.6	210.5	164.2	122.9	88.8	65.8	44.2
-50°	401.7	360.3	318.6	272.0	223.3	178.4	137.0	105.5	77.9	56.4	36.8
-52.5°	348.8	311.7	271.9	228.5	186.0	147.7	115.7	86.5	66.6	47.1	30.3
-55°	296.8	261.2	223.9	186.8	151.2	120.7	94.6	74.1	55.2	38.2	24.2
-57.5°	242.3	211.1	178.3	148.1	121.2	98.2	77.9	60.6	44.3	30.1	19.5
-60°	190.9	163.4	138.3	116.5	96.8	78.5	63.2	47.8	33.9	23.1	15.0
-62.5°	142.8	123.0	106.2	89.5	76.2	62.4	48.5	36.0	25.4	17.7	10.9
-65°	104.8	91.7	78.1	69.4	58.2	46.2	35.3	25.9	18.9	12.6	7.6
-67.5°	73.7	66.6	58.4	49.6	40.9	32.0	24.3	18.6	13.1	8.4	5.2
-70°	51.8	45.4	38.8	32.9	26.9	21.2	17.0	12.1	8.1	5.3	3.6
-72.5°	32.1	28.0	24.0	19.9	17.4	13.8	9.6	7.0	4.9	3.5	2.6
-75°	17.7	16.2	14.6	12.1	9.0	7.1	5.3	4.1	3.2	2.5	2.1
-77.5°	9.9	8.2	7.1	5.8	4.7	3.7	3.1	2.7	2.3	2.0	1.6
-80°	4.8	4.3	3.6	3.2	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°	2.0	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  
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Scaled Data Report



REPORT NUMBER: P670547 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: ARFL30DBZ-30W-3500K

**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	1.5	1.4	1.3	1.2	1.2	1.1
85°	2.0	1.7	1.5	1.4	1.3	1.2	1.1
82.5°	2.3	2.0	1.7	1.4	1.3	1.2	1.1
80°	2.9	2.3	1.8	1.5	1.3	1.2	1.1
77.5°	3.9	2.7	2.1	1.6	1.3	1.2	1.1
75°	5.3	3.4	2.4	1.7	1.4	1.2	1.1
72.5°	7.5	4.4	2.7	1.9	1.4	1.2	1.1
70°	9.9	5.7	3.3	2.1	1.5	1.2	1.1
67.5°	12.9	7.3	3.9	2.2	1.5	1.2	1.1
65°	16.3	9.2	4.7	2.5	1.6	1.2	1.1
62.5°	20.0	11.3	5.7	2.8	1.7	1.2	1.1
60°	24.8	13.6	6.6	3.1	1.8	1.2	1.1
57.5°	29.9	16.1	8.0	3.4	1.8	1.3	1.1
55°	34.7	18.9	9.3	3.9	1.9	1.3	1.1
52.5°	39.3	22.4	10.6	4.4	2.0	1.3	1.1
50°	44.5	25.8	12.0	4.8	2.1	1.3	1.1
47.5°	49.5	28.9	13.4	5.2	2.2	1.3	1.1
45°	54.9	31.7	14.8	5.9	2.3	1.3	1.1
42.5°	59.8	34.7	16.8	6.5	2.3	1.3	1.1
40°	65.2	37.9	18.7	7.1	2.4	1.3	1.1
37.5°	70.2	40.8	20.5	7.6	2.4	1.3	1.1
35°	74.8	43.8	21.9	8.1	2.5	1.3	1.1
32.5°	79.1	46.6	23.2	8.6	2.6	1.3	1.1
30°	82.8	49.1	24.3	9.0	2.7	1.3	1.1
27.5°	86.8	51.4	25.2	9.3	2.7	1.3	1.1
25°	90.2	53.9	26.0	9.5	2.7	1.4	1.1
22.5°	93.0	55.9	27.1	9.7	2.7	1.4	1.1
20°	95.4	57.6	28.0	9.9	2.7	1.4	1.1
17.5°	97.4	58.9	28.6	10.3	2.7	1.4	1.1
15°	98.9	59.9	29.0	10.5	2.6	1.3	1.1
12.5°	99.7	60.5	29.3	10.7	2.6	1.3	1.1
10°	100.0	60.8	29.3	10.7	2.5	1.3	1.1
7.5°	99.7	60.7	29.1	10.7	2.4	1.3	1.1
5°	98.9	60.2	28.7	10.5	2.3	1.3	1.1
2.5°	97.5	59.4	28.1	10.2	2.2	1.3	1.1
0°	95.6	58.3	27.4	9.9	2.1	1.3	1.1
-2.5°	95.1	57.9	27.2	9.8	2.1	1.3	1.1
-5°	94.1	57.3	26.9	9.7	2.1	1.3	1.1
-7.5°	92.7	56.3	26.4	9.4	2.1	1.3	1.1
-10°	90.7	55.0	25.7	9.1	2.1	1.3	1.1
-12.5°	88.4	53.4	24.9	8.7	2.1	1.3	1.1
-15°	85.6	51.5	23.9	8.2	2.0	1.3	1.1
-17.5°	82.4	49.3	22.7	7.7	2.0	1.3	1.1
-20°	78.7	46.8	21.5	7.0	2.0	1.3	1.1

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Scaled Data Report



REPORT NUMBER: P670547 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: ARFL30DBZ-30W-3500K

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	75.0	44.0	20.0	6.6	1.9	1.3	1.1
-25°	71.1	41.0	18.5	6.2	1.9	1.2	1.1
-27.5°	66.7	37.7	17.2	5.9	1.8	1.2	1.1
-30°	62.1	34.6	16.0	5.5	1.8	1.2	1.1
-32.5°	57.3	31.5	14.6	5.0	1.7	1.2	1.1
-35°	52.2	28.3	13.2	4.6	1.7	1.2	1.1
-37.5°	46.9	25.0	11.7	4.1	1.6	1.2	1.1
-40°	41.5	22.2	10.1	3.7	1.6	1.2	1.1
-42.5°	35.7	19.2	8.5	3.2	1.6	1.2	1.1
-45°	31.0	16.5	6.8	2.8	1.5	1.2	1.1
-47.5°	26.0	14.2	5.9	2.3	1.5	1.2	1.1
-50°	22.0	11.7	5.1	2.1	1.4	1.1	1.1
-52.5°	18.0	9.4	4.2	2.0	1.4	1.1	1.1
-55°	14.6	7.1	3.6	1.8	1.3	1.1	1.1
-57.5°	11.3	5.6	2.9	1.7	1.3	1.1	1.1
-60°	8.4	4.5	2.2	1.6	1.3	1.1	1.1
-62.5°	5.9	3.5	2.0	1.5	1.2	1.1	1.1
-65°	4.5	2.7	1.8	1.4	1.2	1.1	1.1
-67.5°	3.4	2.1	1.6	1.3	1.1	1.1	1.1
-70°	2.5	1.9	1.5	1.3	1.1	1.1	1.1
-72.5°	2.0	1.6	1.3	1.2	1.1	1.1	1.1
-75°	1.7	1.4	1.2	1.1	1.1	1.1	1.1
-77.5°	1.4	1.2	1.1	1.1	1.1	1.1	1.1
-80°	1.2	1.1	1.1	1.1	1.1	1.1	1.1
-82.5°	1.0	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)