

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: P670545 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: ARFL30DBZ-30W-2700K

Issue Date: 3/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P670545 (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-2700K
Description: SLIM WALL OR FLOODLIGHT
Light Source:
Ballast/Driver: -

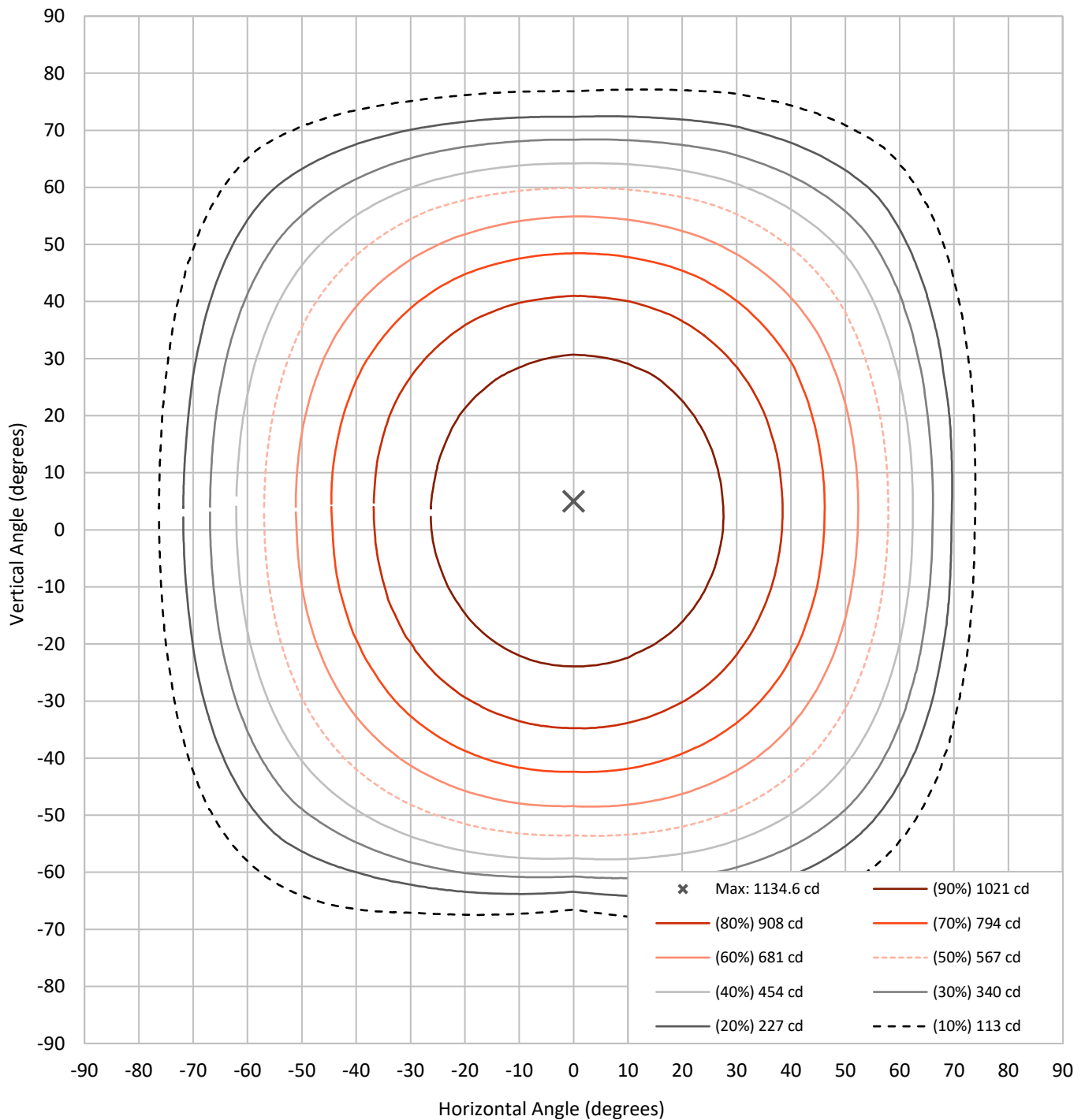
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	3149.9 lumens	Max Intensity:	1134.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 5°V
Efficacy:	110.1 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:	2523.5 lumens	Field Lumens:	3102.7 lumens
Beam Efficiency:	80.1%	Field Efficiency:	98.5%
Input Watts (W):	28.6		
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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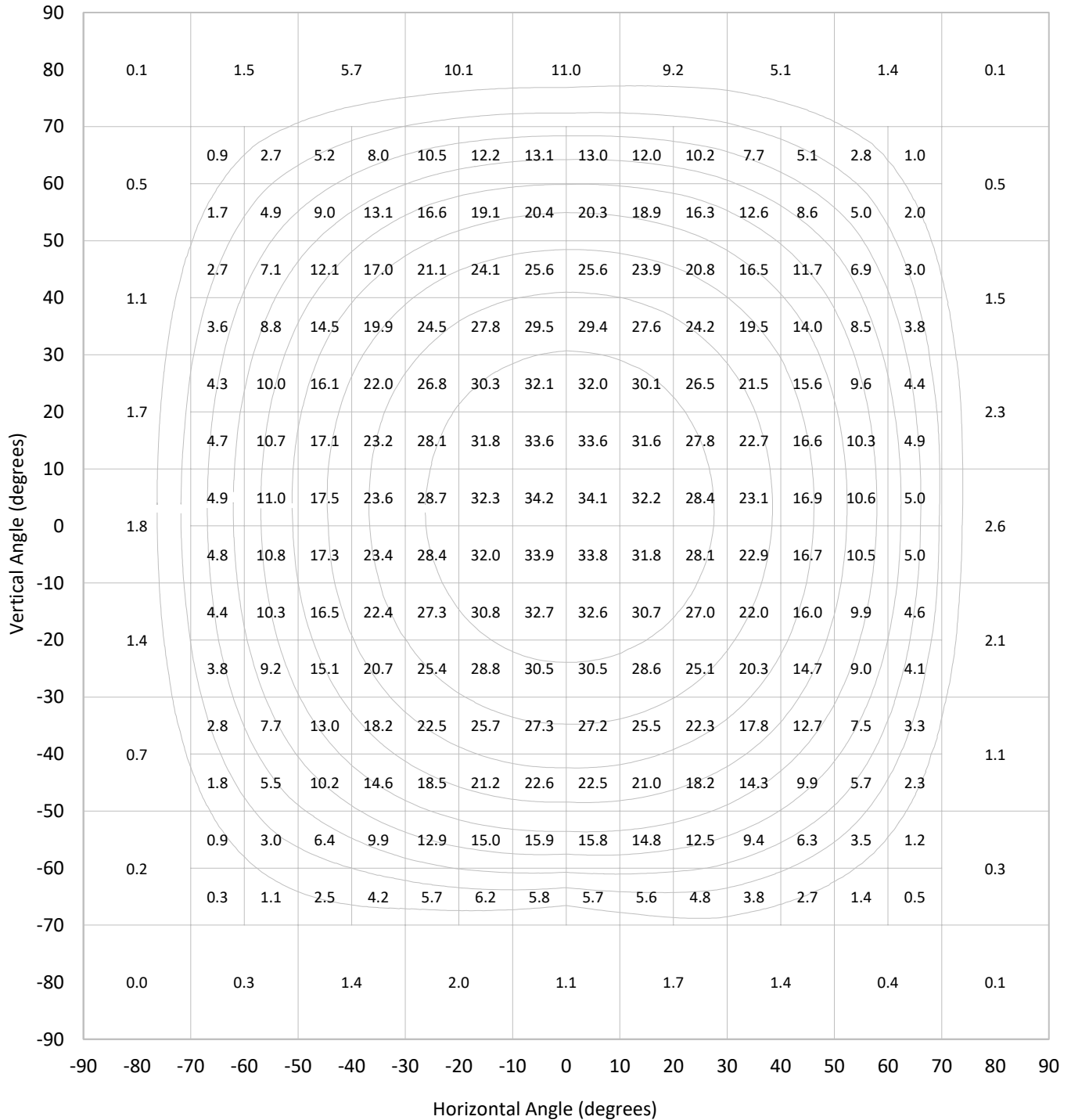
Iso-Candela Plot





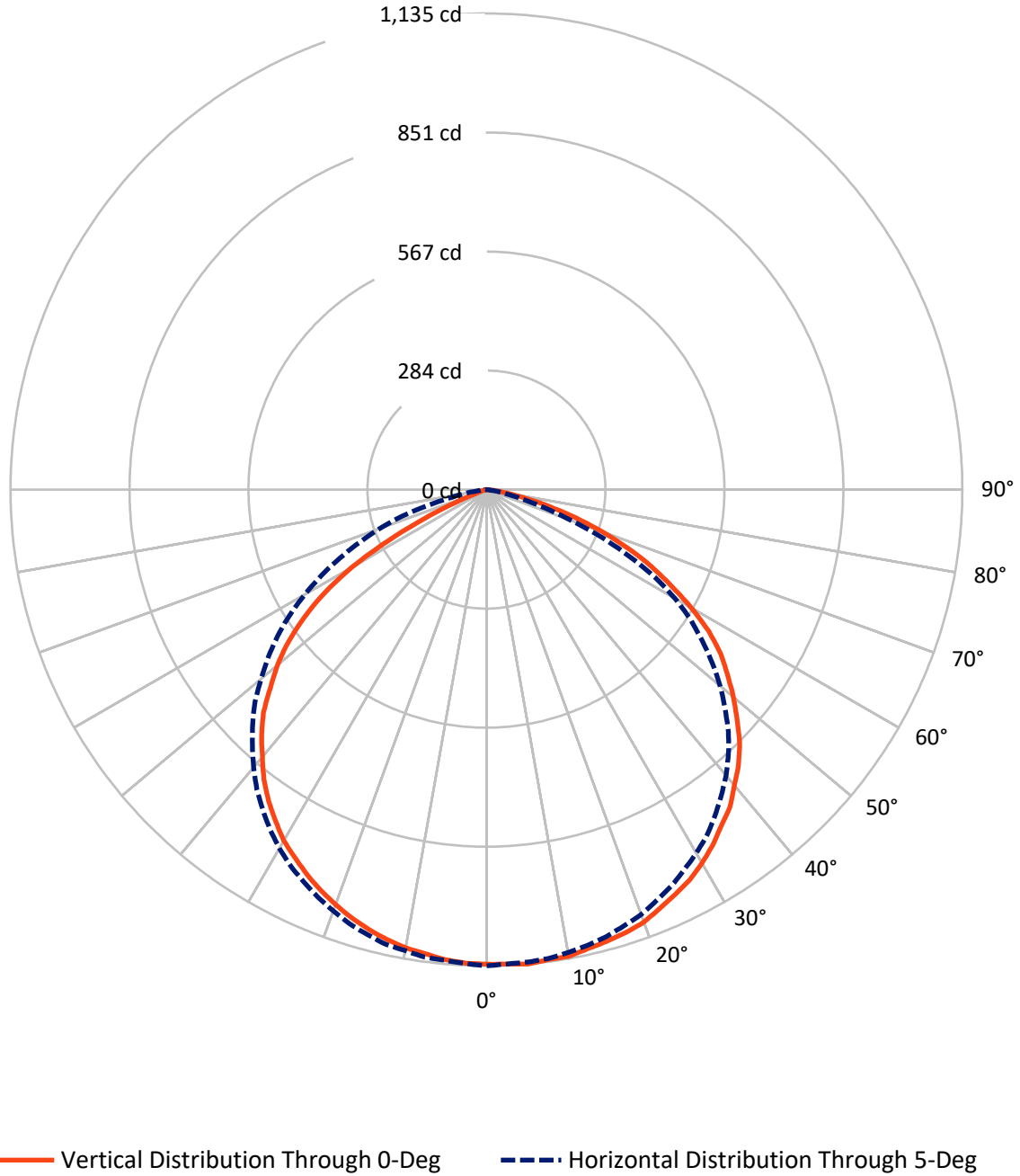
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Lumen Table



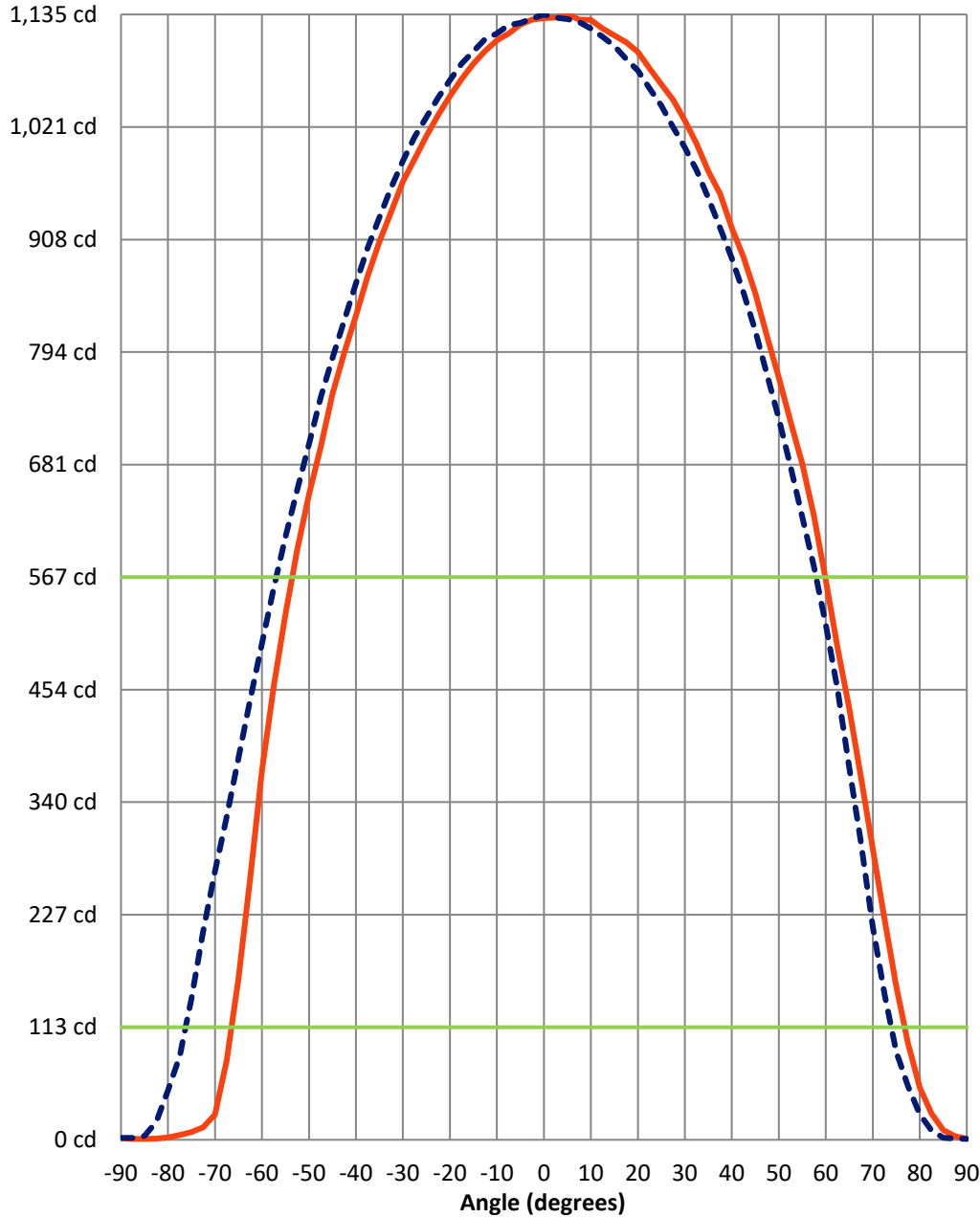
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 114.9°
 V Angle: 113.4°
 Lumens: 2523.5
 Efficiency: 80.1%

Field:
 H Angle: 150.2°
 V Angle: 143.3°
 Lumens: 3102.7
 Efficiency: 98.5%

Spill:
 Lumens: 47.2
 Efficiency: 1.5%

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

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FIELD
BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	1.9	1.9	1.8	1.8	1.8	1.7	1.7	1.7	1.6	1.6	1.6
87.5°	1.9	1.9	2.0	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.8
85°	1.9	1.9	2.0	2.1	2.2	2.3	2.5	2.7	3.0	3.3	3.6
82.5°	1.9	1.9	2.0	2.1	2.3	2.5	2.8	3.2	3.8	4.4	5.2
80°	1.9	1.9	2.0	2.2	2.4	2.8	3.3	3.9	5.1	6.5	8.6
77.5°	1.9	2.0	2.1	2.3	2.6	3.2	4.0	5.4	7.6	10.9	14.4
75°	1.9	2.0	2.1	2.3	2.8	3.7	5.1	7.9	11.5	15.5	21.1
72.5°	1.9	2.0	2.1	2.5	3.1	4.5	7.2	11.0	15.3	22.6	31.6
70°	1.9	2.0	2.2	2.6	3.6	5.7	9.5	14.0	22.0	32.5	43.6
67.5°	1.9	2.0	2.2	2.7	4.1	7.4	11.9	19.5	30.7	42.8	55.3
65°	1.9	2.0	2.2	2.9	4.9	9.1	15.3	26.2	39.6	53.2	69.9
62.5°	1.9	2.0	2.3	3.2	6.0	10.8	19.8	34.3	47.9	66.1	87.2
60°	1.9	2.0	2.3	3.5	7.0	13.2	25.9	40.9	59.0	80.4	106.2
57.5°	1.9	2.0	2.4	3.8	8.2	16.6	32.5	48.8	70.7	95.9	126.9
55°	1.9	2.0	2.4	4.4	9.3	20.4	37.6	58.3	82.8	112.6	149.4
52.5°	1.9	2.0	2.5	5.0	10.7	25.5	42.9	67.7	95.2	130.8	169.3
50°	1.9	2.0	2.6	5.6	12.9	30.3	50.7	77.0	108.6	149.2	189.5
47.5°	1.9	2.0	2.7	6.1	15.1	34.0	58.2	86.5	123.0	166.2	209.7
45°	1.9	2.0	2.8	6.7	17.3	37.5	65.2	96.1	138.1	182.9	229.1
42.5°	1.9	2.0	2.9	7.3	20.7	42.1	71.7	105.7	152.3	199.8	246.6
40°	1.9	2.0	3.0	7.8	24.0	47.7	78.3	116.4	165.8	216.6	261.9
37.5°	1.9	2.0	3.1	8.3	27.0	53.0	84.4	127.5	178.3	231.4	278.0
35°	1.9	2.0	3.2	9.3	29.3	57.7	90.6	138.1	191.0	244.6	292.9
32.5°	1.9	2.0	3.4	10.3	31.3	61.8	96.5	148.1	204.0	256.0	306.1
30°	1.9	2.0	3.6	11.2	33.1	65.6	101.9	157.4	215.6	267.6	317.6
27.5°	1.9	2.0	3.7	12.1	34.7	69.0	108.5	165.4	225.7	278.7	328.1
25°	1.9	2.0	3.8	12.8	36.6	72.1	114.7	172.6	234.7	288.2	339.4
22.5°	1.9	2.0	3.9	13.5	39.3	74.9	120.3	179.8	241.8	296.4	349.6
20°	1.9	2.0	4.0	14.2	41.7	77.3	125.3	187.2	248.1	303.6	358.3
17.5°	1.9	2.0	4.0	15.3	43.8	79.2	130.0	193.7	253.7	309.3	365.8
15°	1.9	2.0	4.0	16.2	45.6	80.9	134.0	199.4	259.0	314.0	372.0
12.5°	1.9	2.0	4.0	16.9	47.2	82.4	137.2	203.8	263.3	317.8	376.9
10°	1.9	2.0	4.0	17.4	48.4	83.5	139.8	206.9	266.7	321.4	380.7
7.5°	1.9	2.0	4.0	17.8	49.2	84.1	141.5	209.1	269.1	324.1	383.3
5°	1.9	2.0	3.9	18.0	49.8	84.3	142.5	210.4	270.6	325.7	384.8
2.5°	1.9	2.0	3.9	18.0	50.0	84.2	142.8	210.9	271.0	326.2	385.1
0°	1.9	2.0	3.8	17.9	49.9	83.6	142.2	210.4	270.5	325.6	384.3
-2.5°	1.9	2.0	3.8	17.7	49.3	82.8	140.8	208.7	268.6	323.6	382.3
-5°	1.9	2.0	3.8	17.3	48.5	81.7	138.7	206.1	265.7	320.6	379.2
-7.5°	1.9	2.0	3.7	16.8	47.3	80.2	135.8	202.6	261.8	316.4	374.9
-10°	1.9	2.0	3.7	16.1	45.7	78.4	132.1	198.1	257.0	311.1	369.4
-12.5°	1.9	2.0	3.7	15.3	43.9	76.2	127.6	192.8	251.2	304.9	362.8
-15°	1.9	1.9	3.6	14.3	41.8	73.7	122.5	186.2	244.5	298.5	355.0
-17.5°	1.9	1.9	3.5	13.2	39.4	71.0	116.6	178.2	236.8	291.2	346.0
-20°	1.9	1.9	3.4	12.0	36.8	68.3	110.0	169.4	228.9	282.9	335.9

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CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	1.9	1.9	3.3	11.1	33.9	65.3	103.4	159.7	220.4	273.0	324.6
-25°	1.9	1.9	3.2	10.3	30.7	62.0	96.7	150.4	211.2	262.0	311.6
-27.5°	1.9	1.9	3.1	9.5	28.5	58.5	89.6	141.4	199.6	249.7	297.6
-30°	1.9	1.9	3.0	8.6	26.5	54.7	82.3	131.6	186.9	236.1	284.3
-32.5°	1.9	1.9	2.8	7.7	24.5	50.6	76.6	120.3	172.6	222.0	269.8
-35°	1.9	1.9	2.7	6.7	22.4	46.3	70.6	108.2	156.9	208.5	253.4
-37.5°	1.9	1.9	2.5	5.9	20.0	41.5	64.8	96.4	141.9	192.7	235.5
-40°	1.9	1.9	2.5	5.4	17.1	35.9	59.3	85.5	127.8	174.7	216.8
-42.5°	1.9	1.9	2.4	4.9	14.2	30.2	53.6	75.5	112.3	154.7	199.5
-45°	1.9	1.9	2.3	4.5	11.2	25.7	47.5	67.2	95.8	135.4	178.6
-47.5°	1.9	1.9	2.3	3.9	9.4	22.4	41.1	59.5	82.2	117.5	155.4
-50°	1.9	1.9	2.2	3.6	7.8	19.1	33.8	52.3	70.1	97.8	132.2
-52.5°	1.9	1.9	2.1	3.3	6.2	15.2	26.4	44.5	59.9	80.7	110.9
-55°	1.9	1.9	2.0	3.0	5.3	11.2	21.8	36.4	51.4	66.5	88.1
-57.5°	1.9	1.9	2.0	2.7	4.5	8.6	17.6	27.8	42.3	54.9	70.4
-60°	1.9	1.9	2.0	2.5	3.8	6.6	13.0	21.1	32.8	45.3	56.4
-62.5°	1.9	1.9	2.0	2.3	3.4	5.2	9.0	16.2	23.2	34.5	45.2
-65°	1.9	1.9	1.9	2.2	2.9	4.3	6.7	11.2	17.2	24.2	33.5
-67.5°	1.9	1.9	1.9	2.1	2.6	3.6	5.0	7.6	11.8	16.6	22.4
-70°	1.9	1.9	1.9	2.0	2.4	3.0	4.0	5.3	7.6	10.9	14.5
-72.5°	1.9	1.9	1.9	2.0	2.2	2.6	3.3	4.2	5.2	6.9	9.0
-75°	1.9	1.9	1.9	1.9	2.1	2.3	2.7	3.3	4.0	4.8	5.8
-77.5°	1.9	1.9	1.9	1.9	2.0	2.1	2.4	2.7	3.1	3.6	4.2
-80°	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.3	2.6	2.8	3.2
-82.5°	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.2	2.3	2.5
-85°	1.9	1.9	1.9	1.8	1.9	1.9	1.9	1.9	2.0	2.0	2.1
-87.5°	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
-90°	1.9	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1



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 CATALOG NUMBER: ARFL30DBZ-30W-2700K

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	1.5	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.1	2.2	2.3
87.5°	2.9	3.1	3.2	3.2	3.3	3.3	3.4	3.4	3.4	3.5	3.5
85°	4.1	4.6	4.8	5.1	5.4	5.8	6.2	6.6	6.9	7.2	7.5
82.5°	6.4	7.7	8.6	10.2	11.7	13.2	14.5	15.8	17.1	18.3	19.5
80°	11.6	14.9	17.2	19.2	21.5	24.8	28.0	31.0	34.3	37.4	40.2
77.5°	18.2	23.2	28.3	33.1	38.2	43.0	47.4	51.6	55.7	59.7	63.3
75°	28.3	36.8	44.2	50.2	56.1	62.1	68.1	75.8	82.7	89.9	96.2
72.5°	41.8	51.3	60.0	67.7	78.1	88.5	99.1	109.5	119.4	129.3	139.1
70°	54.4	66.4	80.4	94.2	108.2	122.8	137.1	151.2	164.4	177.6	190.5
67.5°	69.8	87.5	107.7	126.3	144.7	162.0	177.9	194.8	211.5	228.5	244.0
65°	89.8	113.2	140.0	161.9	179.9	200.2	219.8	239.1	257.7	275.7	294.3
62.5°	112.3	141.5	170.7	193.4	216.2	237.9	259.3	280.2	302.4	322.4	341.4
60°	137.1	168.7	198.8	225.8	249.8	273.1	297.9	321.4	343.7	366.1	388.2
57.5°	161.7	194.4	226.7	255.9	281.4	309.0	334.5	359.9	385.6	410.4	435.0
55°	184.5	220.1	253.3	284.1	314.1	342.1	370.5	399.3	426.6	455.2	483.5
52.5°	207.8	244.5	277.9	312.8	344.2	375.2	406.7	437.3	468.5	500.9	529.7
50°	230.3	266.8	304.1	339.1	374.2	408.3	441.7	475.2	510.0	540.4	568.4
47.5°	251.0	289.8	327.6	365.3	404.0	439.9	475.8	512.4	545.6	575.5	603.4
45°	269.7	311.2	350.4	391.9	431.2	469.9	509.1	545.2	577.4	607.8	638.6
42.5°	289.7	330.8	373.7	415.4	457.7	500.3	539.0	574.0	607.3	640.6	670.7
40°	307.3	350.4	395.6	440.1	484.5	526.2	564.7	601.7	637.6	670.6	701.8
37.5°	323.3	369.9	415.8	461.6	507.4	549.8	590.6	629.4	665.0	699.2	729.5
35°	338.7	387.9	436.3	484.6	529.7	572.7	613.8	653.9	691.3	724.2	754.3
32.5°	354.5	403.9	453.5	502.8	548.6	592.7	635.6	676.6	714.4	745.9	777.2
30°	369.0	420.5	471.7	520.6	567.6	612.1	655.4	696.8	732.3	767.1	799.1
27.5°	382.1	434.9	487.1	536.2	583.7	629.4	673.1	713.3	750.9	785.4	819.1
25°	393.4	447.0	500.4	550.6	598.4	644.9	688.8	727.4	765.8	802.4	834.6
22.5°	404.4	459.5	512.6	563.9	611.8	658.3	701.6	742.5	780.7	816.5	849.5
20°	414.8	470.6	523.2	574.6	623.6	669.7	712.3	754.2	793.1	827.7	861.3
17.5°	423.4	479.0	532.4	583.9	633.3	679.5	721.9	764.5	803.0	838.7	873.3
15°	429.7	486.0	540.3	591.5	641.3	687.1	731.6	773.9	810.8	845.7	881.9
12.5°	434.7	491.7	546.6	597.6	647.1	692.9	738.7	780.4	817.1	852.9	888.7
10°	438.7	496.0	551.5	602.5	651.3	697.1	743.3	785.0	822.3	859.9	893.9
7.5°	442.0	498.9	554.5	605.9	654.0	699.9	746.5	787.4	825.7	862.6	897.5
5°	443.8	500.3	556.1	607.7	655.2	701.2	748.4	788.0	825.9	863.3	899.3
2.5°	444.3	500.4	556.3	607.9	654.8	700.8	748.5	787.1	824.5	862.3	899.2
0°	443.3	499.1	555.0	606.4	652.8	698.8	746.8	784.7	821.8	859.6	897.2
-2.5°	441.1	497.1	552.7	604.2	650.7	696.7	744.2	782.7	820.1	857.5	894.6
-5°	437.5	493.7	548.9	600.4	647.1	693.0	739.8	779.1	817.1	853.9	890.1
-7.5°	432.6	488.9	543.6	594.8	641.8	687.5	733.5	773.8	812.4	848.6	883.6
-10°	426.2	482.6	536.9	587.6	635.1	680.5	725.8	766.8	804.1	841.5	874.7
-12.5°	419.1	475.0	528.6	578.7	626.8	671.8	716.6	757.8	793.6	829.8	864.0
-15°	411.0	465.9	518.9	569.0	616.8	661.4	705.3	747.2	782.7	818.0	851.9
-17.5°	401.6	455.3	507.8	557.8	605.6	649.4	691.9	733.1	770.1	806.2	839.6
-20°	390.1	443.4	495.0	544.4	592.8	635.5	677.5	717.6	755.2	788.4	822.8



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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°	377.0	429.2	480.8	529.2	576.3	619.8	661.5	701.1	739.0	772.8	806.1
-25°	363.2	413.8	464.9	513.0	559.0	603.0	643.7	682.6	718.3	752.7	783.3
-27.5°	348.7	398.5	447.7	495.3	540.1	584.7	623.9	662.5	698.0	732.1	763.8
-30°	332.9	381.2	428.7	475.9	519.2	562.2	602.1	640.3	675.9	707.9	740.3
-32.5°	315.8	362.1	407.7	454.0	497.8	539.0	580.2	615.7	651.2	683.8	713.7
-35°	297.1	342.8	387.2	431.2	474.8	513.4	553.0	590.6	624.1	656.5	686.6
-37.5°	278.6	321.9	364.4	405.7	448.0	488.1	524.5	561.7	594.4	626.2	656.3
-40°	259.3	299.6	340.9	380.8	420.5	460.0	495.4	530.0	564.3	593.6	622.8
-42.5°	237.9	276.9	316.1	354.2	391.1	428.9	464.9	496.3	529.4	560.8	587.7
-45°	215.0	253.6	289.8	326.7	361.8	395.2	429.0	462.4	491.7	522.4	551.0
-47.5°	194.5	228.1	263.4	297.5	331.4	360.8	390.9	422.6	453.1	480.6	508.9
-50°	169.8	202.3	235.3	267.7	298.2	324.6	351.4	379.8	409.8	437.1	462.7
-52.5°	142.9	177.5	205.4	236.6	263.0	286.2	310.6	335.3	361.5	389.5	414.3
-55°	117.7	147.9	179.0	203.6	226.8	247.8	268.0	289.7	311.8	335.1	359.5
-57.5°	92.7	119.1	146.5	173.3	189.7	208.8	226.6	243.7	261.3	280.6	300.0
-60°	71.3	91.5	114.9	137.4	157.3	171.1	185.4	199.6	213.4	226.8	241.0
-62.5°	55.1	68.0	84.8	104.0	120.9	136.5	149.2	157.3	167.8	177.7	187.4
-65°	42.6	50.6	61.0	72.6	88.0	100.8	112.4	122.3	129.8	133.7	139.3
-67.5°	29.7	37.7	43.7	51.5	59.8	69.0	79.1	86.9	93.5	98.7	102.3
-70°	18.4	23.8	30.1	35.9	40.3	45.9	51.3	56.3	62.5	66.7	69.1
-72.5°	11.1	13.9	17.4	21.2	25.9	29.9	32.8	35.7	38.4	40.9	42.8
-75°	6.7	8.0	9.2	11.7	13.7	16.1	17.9	20.5	22.3	23.6	24.4
-77.5°	4.7	5.3	5.8	6.4	7.4	8.1	9.3	10.1	10.8	11.2	11.1
-80°	3.6	3.9	4.2	4.4	4.7	5.0	5.2	5.4	5.8	6.0	6.0
-82.5°	2.7	2.9	3.1	3.3	3.4	3.6	3.7	3.8	3.8	3.9	3.9
-85°	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	2.9	3.0	3.0
-87.5°	1.9	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.5	2.6	2.7
-90°	2.1	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0



REPORT NUMBER: P670545 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL30DBZ-30W-2700K

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	2.4	2.5	2.6	2.5	2.3	2.2	2.1	1.9	1.8	1.7	1.5
87.5°	3.5	3.6	3.6	3.7	3.7	3.7	3.7	3.8	3.8	3.8	3.8
85°	8.0	8.6	9.0	9.4	9.7	10.0	10.2	10.3	10.4	10.4	10.4
82.5°	21.0	22.6	24.0	25.1	25.9	26.5	27.0	27.5	27.9	28.0	28.0
80°	42.8	45.1	47.3	48.9	50.3	51.5	52.5	53.3	53.9	54.3	54.4
77.5°	67.5	71.6	75.2	78.5	81.7	84.6	87.3	89.7	91.9	93.8	95.4
75°	102.2	107.5	112.0	118.4	124.8	130.6	136.0	141.3	145.7	149.3	152.0
72.5°	148.8	158.5	167.8	176.5	184.7	192.6	200.3	206.8	212.2	216.5	219.6
70°	203.5	217.1	229.6	240.5	250.4	259.3	267.4	274.5	280.5	285.3	289.1
67.5°	259.1	273.6	287.9	301.4	312.2	321.8	330.6	338.3	345.2	351.0	356.2
65°	311.7	327.6	342.4	356.4	369.5	381.7	392.1	401.4	409.8	417.3	423.5
62.5°	360.0	378.7	395.8	412.1	427.5	441.5	453.8	464.7	474.2	482.1	488.2
60°	409.3	430.1	451.0	471.5	489.8	505.3	518.8	529.6	539.1	546.7	553.0
57.5°	460.0	484.8	509.5	531.5	549.5	562.3	574.9	586.7	596.5	605.0	612.5
55°	512.5	537.1	558.6	579.0	596.9	610.2	623.0	635.5	647.4	657.6	664.8
52.5°	555.5	579.7	600.6	619.5	638.8	655.4	668.1	681.0	692.1	701.2	708.9
50°	594.0	616.8	641.0	660.3	679.8	697.0	711.2	723.7	735.2	745.2	753.1
47.5°	630.5	654.9	678.6	700.1	719.3	737.4	752.5	765.4	776.8	786.6	794.9
45°	665.2	691.5	715.0	737.2	756.9	775.8	791.8	805.1	816.1	826.1	834.7
42.5°	699.2	725.1	748.6	771.4	792.9	811.2	826.9	840.4	852.7	863.4	872.3
40°	729.9	755.3	780.7	803.3	823.9	842.5	859.8	875.2	887.1	896.9	904.5
37.5°	757.4	784.4	809.3	832.2	853.0	873.8	890.9	904.6	915.2	926.7	935.7
35°	783.2	810.7	835.8	859.3	881.0	900.2	916.7	932.0	944.0	954.7	963.1
32.5°	807.3	834.7	860.6	884.0	905.0	924.5	941.4	957.0	969.3	978.9	987.3
30°	829.2	856.8	882.6	906.0	927.2	946.7	963.8	978.5	990.9	999.4	1008.4
27.5°	848.2	876.5	902.8	926.0	947.3	965.9	982.0	995.8	1010.2	1020.5	1028.6
25°	865.9	895.0	920.4	943.8	963.6	982.0	998.7	1014.3	1026.5	1040.0	1048.1
22.5°	881.6	910.4	936.0	957.7	978.0	997.5	1014.3	1030.3	1042.9	1056.8	1063.6
20°	894.5	923.6	948.7	970.0	992.3	1010.9	1028.5	1042.8	1056.6	1069.2	1076.2
17.5°	905.0	934.1	957.8	983.1	1004.0	1022.1	1037.8	1053.5	1068.9	1078.5	1089.5
15°	914.2	941.8	966.9	991.9	1011.7	1029.6	1047.1	1063.8	1076.9	1088.4	1097.8
12.5°	921.6	948.0	975.9	999.6	1019.7	1036.6	1054.9	1070.9	1085.3	1096.9	1106.3
10°	925.3	952.8	981.5	1004.3	1023.3	1044.0	1061.5	1077.8	1091.2	1103.0	1112.1
7.5°	928.0	957.3	984.9	1008.8	1027.3	1048.8	1065.6	1082.8	1097.1	1105.6	1115.6
5°	930.0	960.0	986.9	1011.2	1031.0	1050.7	1068.3	1085.0	1097.5	1109.7	1115.4
2.5°	930.3	960.5	987.0	1010.2	1032.9	1050.8	1068.8	1085.3	1097.7	1108.6	1117.8
0°	928.5	958.8	985.2	1008.1	1032.4	1049.1	1067.1	1083.2	1097.0	1107.4	1118.1
-2.5°	925.5	955.5	981.5	1005.7	1028.8	1046.3	1063.3	1079.3	1092.2	1102.6	1112.0
-5°	920.3	950.2	976.4	1001.7	1022.8	1042.0	1058.4	1073.5	1084.8	1097.3	1104.5
-7.5°	912.9	943.2	970.4	994.6	1014.6	1035.1	1051.6	1066.6	1076.9	1088.4	1098.8
-10°	904.9	935.1	961.5	985.2	1006.4	1026.3	1041.9	1054.3	1067.3	1078.2	1089.8
-12.5°	897.2	924.7	949.7	970.3	995.5	1015.0	1031.5	1047.0	1058.7	1068.5	1077.2
-15°	885.4	911.1	937.4	962.4	982.6	1003.1	1020.0	1035.4	1048.1	1057.5	1064.2
-17.5°	870.0	897.5	924.9	944.8	964.5	987.4	1005.4	1020.2	1034.3	1044.8	1053.3
-20°	853.1	883.5	906.1	931.5	951.9	969.2	988.1	1003.9	1016.4	1027.9	1038.3



REPORT NUMBER: P670545 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL30DBZ-30W-2700K

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	836.4	863.6	890.0	912.3	934.2	953.8	969.0	985.1	997.7	1008.3	1017.3
-25°	816.3	843.8	871.1	892.6	913.4	933.6	950.1	963.8	980.0	987.1	996.4
-27.5°	793.6	822.8	847.3	872.4	891.3	909.0	927.5	942.2	955.5	965.5	976.5
-30°	769.6	798.0	824.3	846.0	868.2	884.9	901.2	914.8	930.6	940.7	949.6
-32.5°	743.8	770.1	796.3	820.3	840.1	859.1	874.7	888.3	900.5	910.7	920.0
-35°	714.8	742.4	766.1	788.6	810.7	830.6	845.0	859.8	871.4	880.8	889.9
-37.5°	684.3	710.2	735.3	757.1	775.4	795.5	813.1	828.2	837.9	848.6	857.0
-40°	650.4	676.1	700.4	722.3	743.9	759.1	774.2	789.7	802.6	813.2	821.5
-42.5°	613.6	638.5	661.9	684.8	704.1	721.5	739.0	751.3	762.4	772.2	780.7
-45°	576.5	598.7	620.6	641.7	660.7	680.0	695.4	708.2	719.3	729.8	737.9
-47.5°	535.2	559.0	578.8	597.0	614.7	631.7	647.6	661.5	673.4	682.6	689.6
-50°	488.3	512.8	534.3	553.3	569.2	583.7	597.6	610.9	622.4	632.1	639.6
-52.5°	437.9	459.4	482.1	502.3	519.7	534.6	547.8	559.2	569.4	577.7	584.5
-55°	384.7	404.7	423.8	441.5	459.2	476.6	489.7	501.1	510.3	518.0	523.9
-57.5°	320.5	341.6	362.8	380.3	394.6	407.7	420.2	431.5	441.4	449.4	455.4
-60°	256.9	272.4	288.8	305.2	320.5	333.9	345.5	353.5	360.7	366.8	371.7
-62.5°	196.8	205.6	216.8	227.9	238.6	248.5	257.4	264.7	270.6	274.5	276.5
-65°	144.5	149.2	154.3	159.0	164.7	169.3	174.8	178.7	181.0	182.2	181.8
-67.5°	103.7	103.3	103.7	104.4	106.7	108.2	108.7	109.2	108.3	106.0	103.1
-70°	70.4	70.8	69.9	68.9	68.8	67.7	65.6	62.8	60.0	56.2	51.4
-72.5°	44.3	45.0	44.3	43.6	43.2	42.5	41.4	39.6	37.0	33.9	30.4
-75°	25.1	25.3	25.0	25.3	25.5	25.3	24.6	23.7	22.3	20.5	18.4
-77.5°	11.3	11.4	11.0	11.3	11.9	12.2	12.2	11.9	11.4	10.7	9.7
-80°	6.0	5.9	5.5	5.3	5.1	5.0	4.8	4.6	4.3	4.1	3.8
-82.5°	3.9	3.9	3.9	3.8	3.6	3.4	3.2	3.0	2.8	2.5	2.3
-85°	3.0	3.1	3.1	2.9	2.7	2.6	2.4	2.2	2.0	1.8	1.7
-87.5°	2.8	2.8	2.9	2.7	2.6	2.4	2.2	2.1	1.9	1.7	1.6
-90°	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.7	1.7



REPORT NUMBER: P670545 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL30DBZ-30W-2700K

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	1.4	1.3	1.1	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7
87.5°	3.8	3.7	3.7	3.7	3.8	3.9	4.0	4.1	4.1	4.2	4.3
85°	10.3	10.2	10.0	9.8	10.2	10.7	11.0	11.3	11.6	11.8	11.9
82.5°	27.9	27.6	27.1	26.5	27.5	28.4	29.2	29.8	30.2	30.5	30.6
80°	54.3	54.1	53.5	52.8	54.7	56.3	57.7	58.8	59.6	60.1	60.3
77.5°	96.5	97.2	97.4	97.2	99.7	101.7	103.2	104.2	104.8	104.8	104.4
75°	153.9	155.0	155.3	154.8	157.2	158.8	159.7	159.8	159.3	157.9	155.9
72.5°	221.7	222.9	223.2	222.5	224.2	225.0	224.8	223.8	221.8	219.1	215.5
70°	291.8	293.5	294.0	293.4	294.8	295.2	294.5	292.6	289.7	285.7	280.6
67.5°	360.3	363.2	364.8	365.1	366.0	365.6	364.0	361.2	357.4	352.4	346.2
65°	428.4	431.8	433.9	434.6	435.3	434.5	432.4	429.0	424.1	418.0	410.6
62.5°	492.6	495.3	496.5	496.3	497.9	498.1	496.8	494.0	489.5	483.3	475.5
60°	558.0	561.6	563.7	564.2	565.1	564.4	562.0	558.2	552.9	546.1	537.9
57.5°	618.7	623.4	626.7	628.5	628.1	626.2	622.9	618.0	611.3	603.3	594.5
55°	670.9	675.8	679.3	681.4	680.6	678.4	674.8	669.8	663.5	655.2	645.7
52.5°	714.9	719.5	722.5	724.1	723.6	721.6	718.0	712.9	706.7	699.2	689.9
50°	759.3	763.9	767.0	768.5	768.5	766.7	763.2	757.8	750.6	742.3	732.2
47.5°	801.4	805.8	808.7	810.0	809.7	807.9	804.4	799.2	792.5	784.7	775.7
45°	841.9	847.5	851.4	853.5	852.3	849.3	844.8	838.9	831.6	823.0	812.6
42.5°	879.2	884.4	887.9	889.7	888.6	885.8	881.3	875.6	868.4	858.3	847.0
40°	910.4	914.9	917.9	919.4	919.0	917.0	913.5	908.4	901.3	891.7	880.1
37.5°	942.8	948.1	951.7	953.7	953.1	951.3	947.7	940.8	931.7	921.9	911.7
35°	969.3	973.3	975.6	976.6	976.9	975.9	973.3	968.3	959.9	953.3	941.1
32.5°	993.8	998.6	1002.2	1004.3	1003.3	1000.7	996.9	992.0	985.0	977.1	965.6
30°	1016.1	1021.5	1025.4	1027.6	1026.3	1023.6	1019.8	1013.8	1005.6	997.2	987.1
27.5°	1036.7	1042.4	1046.2	1048.6	1047.2	1044.1	1039.9	1033.9	1025.3	1018.4	1003.9
25°	1056.2	1060.2	1062.8	1064.2	1063.7	1061.7	1057.8	1052.0	1044.6	1034.3	1021.1
22.5°	1070.6	1076.5	1078.6	1080.2	1079.6	1077.8	1073.7	1068.0	1060.3	1048.9	1036.5
20°	1083.6	1089.9	1094.2	1096.8	1095.3	1091.1	1085.5	1082.1	1074.1	1062.9	1050.1
17.5°	1094.2	1100.7	1104.6	1106.6	1105.1	1102.5	1099.3	1094.5	1083.7	1075.4	1061.4
15°	1105.9	1110.4	1112.6	1113.5	1113.5	1111.8	1106.5	1100.5	1093.6	1084.2	1072.7
12.5°	1113.6	1118.3	1120.5	1120.4	1120.3	1118.2	1116.2	1109.1	1099.5	1089.7	1081.4
10°	1119.5	1125.2	1128.4	1129.0	1129.4	1126.5	1119.9	1114.2	1106.9	1095.2	1084.8
7.5°	1122.0	1128.1	1128.9	1129.5	1129.7	1129.6	1125.9	1116.0	1108.8	1100.7	1086.5
5°	1123.8	1126.1	1130.5	1134.6	1131.3	1129.9	1126.9	1120.3	1112.1	1102.9	1089.8
2.5°	1124.0	1128.2	1131.3	1131.5	1130.2	1129.5	1126.2	1121.3	1112.9	1103.4	1090.7
0°	1123.3	1125.2	1127.1	1130.9	1130.5	1128.8	1125.4	1118.2	1112.8	1103.2	1089.7
-2.5°	1120.2	1124.9	1127.7	1129.4	1129.0	1129.5	1125.1	1117.1	1110.0	1098.8	1086.0
-5°	1115.0	1119.0	1121.6	1124.4	1124.8	1124.9	1118.7	1113.3	1104.7	1091.7	1080.8
-7.5°	1107.1	1112.9	1114.9	1115.4	1117.6	1116.3	1112.6	1107.3	1095.9	1084.3	1072.9
-10°	1098.9	1106.2	1108.3	1108.5	1109.3	1107.8	1103.7	1095.3	1085.0	1076.2	1064.4
-12.5°	1086.4	1092.8	1096.9	1097.8	1098.4	1095.5	1089.6	1083.5	1074.4	1064.4	1052.0
-15°	1073.1	1078.4	1083.2	1084.9	1084.3	1081.8	1076.7	1067.6	1061.2	1050.8	1041.3
-17.5°	1058.2	1063.3	1067.6	1069.5	1068.3	1064.6	1060.4	1053.7	1046.2	1037.9	1026.7
-20°	1043.8	1048.4	1051.4	1052.2	1051.5	1048.7	1044.0	1037.6	1031.5	1021.4	1009.9



REPORT NUMBER: P670545 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL30DBZ-30W-2700K

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	1025.2	1030.5	1033.0	1033.2	1033.0	1030.9	1027.9	1021.1	1010.5	1002.4	991.1
-25°	1003.9	1008.5	1011.2	1012.0	1011.8	1009.4	1004.7	999.2	990.6	982.6	972.3
-27.5°	981.6	985.3	988.1	988.9	988.8	986.6	983.1	978.2	970.4	960.8	948.5
-30°	957.0	961.8	964.9	966.1	965.9	963.7	959.6	953.1	944.9	935.2	923.1
-32.5°	928.1	932.9	935.2	935.6	935.9	934.3	930.4	924.2	916.8	907.0	895.0
-35°	896.4	901.2	904.4	905.5	905.6	903.4	899.2	893.4	886.1	877.4	866.2
-37.5°	863.7	868.0	870.3	870.8	871.3	869.9	866.5	860.6	853.2	844.6	830.8
-40°	826.3	829.5	831.1	830.9	832.1	831.2	828.0	822.4	815.7	806.9	795.5
-42.5°	787.1	791.2	793.2	793.3	793.9	792.7	789.5	784.5	777.8	768.3	757.1
-45°	743.9	748.4	751.1	751.7	752.0	750.1	746.3	740.9	734.2	726.3	716.6
-47.5°	694.8	697.9	699.0	698.4	700.2	700.2	698.4	694.3	688.3	680.7	670.8
-50°	645.1	648.8	650.5	650.3	651.9	651.4	649.0	644.5	638.1	630.0	620.2
-52.5°	589.8	593.3	595.0	594.7	596.3	596.0	593.9	590.0	584.4	577.5	568.1
-55°	528.1	530.6	531.2	529.7	532.4	533.0	531.8	528.8	524.2	517.8	509.8
-57.5°	458.8	460.2	459.6	457.0	460.8	462.7	462.7	460.7	456.5	450.6	442.9
-60°	374.9	376.3	375.4	372.0	377.1	379.7	380.1	378.6	375.6	371.4	366.3
-62.5°	276.6	274.5	270.3	263.8	272.4	279.0	283.5	286.2	287.3	286.9	285.2
-65°	179.6	175.7	170.0	162.5	173.2	182.1	189.3	194.8	198.7	201.0	202.8
-67.5°	99.3	94.2	87.8	80.1	91.4	101.5	110.2	117.5	123.9	129.8	134.4
-70°	45.8	39.6	32.7	25.5	36.0	46.0	55.4	63.9	71.3	77.6	82.5
-72.5°	26.5	22.1	17.5	12.7	19.2	25.5	31.4	36.8	41.5	45.6	49.0
-75°	16.0	13.4	10.6	7.8	11.3	14.7	17.9	20.8	23.3	25.4	27.0
-77.5°	8.7	7.5	6.2	4.8	6.3	7.8	9.1	10.3	11.3	12.0	12.7
-80°	3.5	3.1	2.8	2.4	2.9	3.4	3.9	4.3	4.7	5.0	5.3
-82.5°	2.0	1.8	1.5	1.2	1.5	1.8	2.1	2.4	2.7	2.9	3.2
-85°	1.5	1.3	1.1	0.9	1.1	1.3	1.5	1.7	1.9	2.1	2.2
-87.5°	1.4	1.2	1.1	0.9	1.0	1.2	1.3	1.4	1.5	1.7	1.8
-90°	1.7	1.7	1.6	1.6	1.6	1.7	1.7	1.7	1.8	1.8	1.8



REPORT NUMBER: P670545 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL30DBZ-30W-2700K

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	1.8	1.9	2.0	2.1	2.2	2.1	2.0	1.9	1.7	1.6	1.5
87.5°	4.3	4.3	4.4	4.4	4.4	4.2	4.0	3.8	3.7	3.5	3.4
85°	11.9	11.9	11.8	11.6	11.4	10.7	9.9	9.2	8.6	8.0	7.4
82.5°	30.5	30.3	29.9	29.3	28.5	26.7	24.7	22.9	21.3	19.7	18.0
80°	60.2	59.8	59.0	57.8	55.8	52.3	48.6	45.1	41.9	38.5	34.8
77.5°	103.3	101.7	99.5	96.7	92.9	86.7	80.3	74.4	69.4	64.2	58.7
75°	153.1	150.3	147.3	143.8	138.5	130.1	121.5	112.6	103.5	94.4	85.7
72.5°	211.2	206.2	201.0	195.8	188.2	177.0	165.0	153.0	141.0	128.9	117.6
70°	274.5	267.5	259.7	251.4	240.7	227.8	213.5	199.2	185.2	169.9	154.1
67.5°	338.9	330.6	321.3	311.0	297.0	281.6	266.2	250.2	233.3	213.8	194.5
65°	401.7	391.6	381.5	370.7	355.0	337.7	319.5	300.1	280.0	261.2	240.8
62.5°	465.9	454.2	441.1	427.1	410.2	392.3	374.6	353.5	330.3	306.3	282.1
60°	528.5	517.4	504.7	488.1	467.9	446.4	425.9	403.9	381.4	356.4	328.0
57.5°	585.4	574.7	561.6	544.5	524.4	502.5	478.7	453.2	428.3	402.5	375.6
55°	634.7	622.7	608.6	592.4	574.3	552.0	528.5	502.7	475.1	445.9	417.9
52.5°	678.9	666.5	652.3	635.2	616.1	594.7	573.2	546.6	519.3	489.4	457.9
50°	719.5	707.0	692.2	674.4	655.5	634.8	611.5	586.4	559.1	529.1	497.1
47.5°	762.4	747.7	731.3	711.5	692.5	670.9	648.0	622.8	594.9	565.8	532.6
45°	800.7	787.7	771.0	749.6	729.3	705.2	681.6	656.2	628.8	598.4	566.5
42.5°	835.6	821.9	804.2	785.8	764.5	740.7	714.0	687.5	659.4	629.5	596.4
40°	868.0	851.3	835.1	817.6	795.8	773.2	746.3	718.7	688.2	657.6	624.9
37.5°	897.8	881.5	863.8	844.6	824.9	801.3	776.2	747.3	717.4	683.9	650.7
35°	925.4	909.4	890.7	871.3	850.1	827.1	802.5	774.5	743.6	709.8	674.4
32.5°	952.4	934.6	915.9	895.3	874.8	850.7	825.5	798.4	767.9	735.8	695.7
30°	973.9	956.8	939.4	918.2	895.3	873.4	847.6	820.6	789.7	754.9	718.4
27.5°	991.5	977.3	959.0	938.5	916.1	891.0	866.5	839.5	810.2	773.4	735.2
25°	1007.0	993.5	976.1	956.7	933.3	909.6	883.0	853.2	822.7	789.2	751.0
22.5°	1022.0	1006.3	991.6	972.0	950.8	925.1	897.2	870.9	839.3	805.1	765.4
20°	1034.7	1019.3	1000.8	984.4	963.2	937.9	911.5	881.3	848.4	815.3	777.3
17.5°	1047.4	1029.6	1012.9	992.6	972.7	949.9	921.6	892.0	862.0	826.8	788.1
15°	1056.3	1039.1	1022.1	1002.8	983.9	958.4	930.4	902.0	870.1	834.9	797.5
12.5°	1065.4	1049.1	1028.0	1010.2	987.6	965.0	939.3	909.2	877.0	840.6	804.1
10°	1071.5	1053.7	1034.9	1014.7	992.9	970.3	944.0	914.1	882.8	847.4	809.7
7.5°	1076.8	1058.2	1041.1	1018.3	997.8	975.6	947.5	917.3	886.6	852.1	813.6
5°	1078.0	1060.0	1042.6	1021.0	1000.4	977.5	949.5	919.5	888.6	854.0	815.6
2.5°	1077.4	1059.9	1042.9	1022.0	1001.4	976.8	949.8	919.9	888.8	854.3	815.7
0°	1076.0	1058.0	1041.8	1021.2	1000.6	975.3	948.2	918.5	887.3	853.0	814.1
-2.5°	1072.4	1054.9	1038.5	1018.0	997.3	972.1	944.9	915.2	884.2	849.9	811.1
-5°	1066.4	1050.0	1033.6	1013.0	992.0	967.8	939.8	910.2	879.6	845.0	806.5
-7.5°	1058.5	1043.5	1027.6	1005.2	984.7	961.3	933.0	903.5	873.3	838.4	800.2
-10°	1050.6	1034.6	1017.8	995.6	974.6	952.2	924.5	895.0	865.4	829.7	792.3
-12.5°	1039.7	1025.5	1007.3	988.6	963.3	940.8	913.8	884.8	854.9	819.5	781.6
-15°	1027.2	1012.3	992.3	975.2	954.0	928.0	901.4	873.4	842.6	807.5	768.6
-17.5°	1013.8	997.6	981.4	957.3	938.6	913.8	886.8	860.1	828.7	793.8	754.6
-20°	996.7	982.2	962.4	945.0	921.4	897.2	871.5	844.1	813.2	778.6	739.5



REPORT NUMBER: P670545 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL30DBZ-30W-2700K

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	979.3	963.0	946.8	925.2	903.3	878.4	854.5	826.4	794.2	759.5	722.7
-25°	957.8	943.8	925.0	905.2	883.3	860.4	834.6	807.3	775.5	739.9	703.0
-27.5°	935.8	919.9	902.2	883.2	862.0	838.2	813.1	783.7	752.3	718.9	683.1
-30°	909.9	894.5	878.0	859.2	836.9	814.1	787.7	759.9	728.7	695.1	657.6
-32.5°	882.8	867.8	851.4	830.9	810.3	786.8	761.9	733.2	702.1	669.5	632.1
-35°	853.6	836.3	820.2	801.7	780.2	758.3	732.5	704.4	674.8	639.1	605.0
-37.5°	818.2	803.7	788.3	768.8	749.5	726.5	700.9	673.7	641.3	610.7	577.0
-40°	783.2	767.8	753.4	735.6	715.1	691.5	666.4	637.5	610.0	578.4	546.0
-42.5°	745.5	732.4	716.2	697.9	676.2	653.1	627.7	603.0	574.5	544.9	512.0
-45°	704.8	690.9	673.6	654.6	634.3	612.9	589.8	565.1	537.5	507.3	474.1
-47.5°	657.7	642.9	627.4	610.4	592.6	571.4	549.2	523.7	496.2	465.7	433.9
-50°	608.5	596.0	581.9	565.4	547.5	526.6	503.2	478.0	450.6	422.1	392.9
-52.5°	557.5	545.8	532.2	515.4	496.4	475.4	452.8	428.8	403.5	376.7	346.8
-55°	499.9	488.4	474.5	458.2	440.4	421.0	400.4	377.8	353.2	325.5	295.0
-57.5°	433.7	423.3	412.4	399.0	382.4	363.9	343.7	320.7	295.7	271.2	245.8
-60°	360.5	353.4	345.6	334.6	318.2	299.7	280.1	261.0	240.7	218.5	194.7
-62.5°	281.8	276.9	271.1	263.5	250.4	236.5	220.9	204.1	186.0	167.4	147.3
-65°	203.7	203.3	201.6	198.6	189.1	177.4	164.5	150.5	135.4	120.5	106.7
-67.5°	137.7	139.9	140.4	139.6	132.6	123.1	113.1	103.3	93.4	84.6	75.6
-70°	86.4	88.6	89.0	88.9	85.2	79.7	73.9	68.1	62.1	56.8	52.0
-72.5°	51.3	52.5	53.0	52.9	51.1	48.4	45.5	42.6	39.4	36.0	32.4
-75°	27.9	28.6	28.8	28.3	27.3	26.3	24.9	23.4	22.0	20.1	18.2
-77.5°	13.2	13.5	13.6	13.4	13.0	12.6	11.9	11.2	11.1	10.6	9.9
-80°	5.6	5.7	5.8	6.0	6.2	6.3	6.3	6.0	5.8	5.4	4.8
-82.5°	3.4	3.6	3.8	4.0	4.2	4.0	3.8	3.6	3.4	3.2	3.0
-85°	2.4	2.6	2.7	2.8	3.0	2.8	2.7	2.5	2.4	2.2	2.0
-87.5°	1.9	2.0	2.2	2.3	2.4	2.3	2.1	2.0	1.9	1.7	1.6
-90°	1.9	1.9	1.9	2.0	2.0	2.0	1.9	1.9	1.9	1.8	1.8



REPORT NUMBER: P670545 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL30DBZ-30W-2700K

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	1.4	1.3	1.1	1.0	0.9	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	3.2	3.1	2.9	2.8	2.6	2.5	2.3	2.1	2.0	1.8	1.6
85°	6.7	6.0	5.2	4.7	4.3	3.9	3.4	2.9	2.5	2.3	2.0
82.5°	16.2	14.6	12.9	11.1	9.2	7.9	6.2	4.8	3.7	3.1	2.5
80°	31.4	27.9	24.2	21.4	18.6	15.7	12.1	8.9	6.4	4.7	3.3
77.5°	52.8	46.8	41.6	36.0	30.9	25.5	19.7	15.0	10.9	7.5	5.1
75°	77.1	69.8	62.7	55.1	47.3	39.2	30.0	22.4	16.3	11.4	7.6
72.5°	106.3	95.4	84.8	74.7	66.0	55.2	43.0	32.2	23.2	16.0	10.7
70°	138.1	122.9	109.4	96.9	84.8	71.0	57.1	43.7	31.8	21.8	14.3
67.5°	176.5	157.6	138.2	119.8	104.8	87.9	70.9	55.6	41.5	28.9	18.8
65°	217.8	193.5	172.0	150.4	127.0	105.3	85.9	67.6	51.3	36.7	24.0
62.5°	260.2	236.3	207.9	181.3	155.8	125.8	101.3	80.5	61.3	44.5	30.1
60°	299.5	272.5	247.5	217.5	182.7	150.4	119.2	93.7	72.1	52.6	36.1
57.5°	344.4	311.2	279.5	252.7	215.0	174.3	140.2	107.9	83.1	61.2	42.2
55°	387.8	354.5	316.9	281.0	245.0	202.2	160.6	125.7	94.4	70.1	48.5
52.5°	426.5	393.9	357.5	313.3	269.1	229.5	183.4	142.1	107.5	79.0	55.2
50°	463.2	429.0	393.7	348.5	297.0	252.2	207.6	160.5	121.2	87.9	61.9
47.5°	498.4	462.1	424.3	379.6	328.6	274.9	230.2	180.0	134.2	97.8	68.9
45°	530.4	493.7	452.2	406.6	358.3	301.5	249.0	199.7	149.4	108.1	75.5
42.5°	561.1	522.4	479.6	432.6	382.6	329.2	267.9	218.8	164.4	118.0	81.9
40°	588.8	548.3	505.5	458.4	405.7	352.6	291.0	234.6	178.7	128.1	88.8
37.5°	614.2	573.4	528.2	481.8	429.1	372.4	314.1	249.5	194.9	139.5	95.6
35°	636.6	595.9	551.5	503.6	451.5	391.5	334.5	265.3	209.1	149.9	102.0
32.5°	656.8	616.2	572.2	522.5	471.2	411.6	349.9	283.6	221.0	159.1	107.9
30°	675.2	634.2	590.4	541.7	489.1	430.5	364.3	300.9	231.4	169.0	113.8
27.5°	692.9	650.4	606.5	558.8	504.8	447.3	378.5	316.8	240.5	179.8	120.8
25°	710.9	664.9	620.7	573.6	519.0	461.9	393.7	327.0	251.5	189.4	127.1
22.5°	724.3	678.5	633.2	586.1	532.7	474.5	407.5	335.9	262.9	196.6	132.2
20°	736.0	691.1	644.1	596.8	544.6	485.6	419.8	344.2	273.0	202.8	135.9
17.5°	746.5	702.4	653.4	605.8	554.8	494.6	430.2	351.2	281.8	208.0	138.8
15°	755.2	710.7	661.2	613.2	562.7	502.2	438.1	357.6	289.2	211.3	140.8
12.5°	761.9	717.1	668.1	619.1	568.6	508.8	444.5	364.3	295.0	213.6	142.9
10°	766.5	722.1	673.5	623.5	573.1	513.9	449.4	369.5	297.9	215.0	145.3
7.5°	769.5	725.4	677.0	626.4	575.9	517.4	452.4	373.1	299.0	215.4	146.7
5°	771.3	727.1	678.7	627.8	577.3	519.4	454.0	375.0	299.0	214.9	146.9
2.5°	771.2	727.1	678.6	627.7	577.3	519.7	454.0	375.1	297.8	213.4	146.1
0°	769.4	725.4	676.9	626.1	575.8	518.4	452.5	373.4	295.5	211.1	144.1
-2.5°	766.7	722.7	674.3	623.5	573.3	515.8	450.2	371.5	294.0	210.1	143.0
-5°	762.2	718.4	670.0	619.5	569.3	511.5	446.4	367.6	291.5	208.1	140.8
-7.5°	756.0	712.4	664.1	613.9	563.9	505.7	441.1	361.9	287.7	205.3	137.5
-10°	748.4	704.8	656.3	606.9	557.0	498.2	434.3	354.4	282.9	201.5	133.1
-12.5°	739.3	695.5	646.9	598.5	548.6	489.1	425.6	345.1	276.2	196.7	127.7
-15°	728.0	683.6	636.1	588.4	538.7	478.5	415.2	334.1	266.5	190.9	123.0
-17.5°	714.3	670.0	623.4	576.7	526.7	466.6	403.4	323.4	255.4	184.2	118.7
-20°	699.8	654.7	609.0	563.2	511.8	453.2	388.9	312.2	242.8	175.4	113.8



REPORT NUMBER: P670545 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL30DBZ-30W-2700K

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	682.7	638.5	594.1	548.0	495.3	438.2	372.3	299.8	229.2	165.6	108.4
-25°	662.4	620.2	577.1	531.4	477.3	421.7	353.6	286.6	214.6	154.7	101.6
-27.5°	641.1	599.8	558.1	511.6	458.2	402.7	332.6	272.2	200.1	142.3	93.5
-30°	619.5	579.5	537.0	489.1	437.7	381.1	313.2	252.1	187.2	128.9	84.8
-32.5°	594.2	556.1	514.2	465.1	415.8	356.9	294.0	230.8	172.7	117.5	78.2
-35°	569.5	530.4	486.9	440.2	391.1	329.2	273.8	209.6	156.5	108.4	72.0
-37.5°	541.1	502.5	458.3	414.3	362.8	304.1	248.7	190.0	139.2	97.6	65.7
-40°	510.8	470.5	429.1	385.4	330.8	279.0	221.7	170.6	121.0	85.3	59.3
-42.5°	475.8	437.7	398.6	352.6	300.4	250.3	195.9	149.8	108.4	75.7	52.8
-45°	439.1	404.4	364.2	315.5	270.0	218.4	171.9	128.4	94.9	67.4	46.3
-47.5°	401.8	366.6	325.0	281.5	234.7	188.8	147.3	110.3	79.7	59.0	39.7
-50°	360.4	323.2	285.8	244.0	200.3	160.1	122.9	94.6	69.9	50.6	33.0
-52.5°	312.9	279.6	244.0	204.9	166.9	132.4	103.8	77.6	59.7	42.3	27.2
-55°	266.2	234.3	200.9	167.6	135.6	108.3	84.9	66.4	49.5	34.3	21.7
-57.5°	217.3	189.4	160.1	132.9	108.7	88.1	69.9	54.3	39.7	27.0	17.4
-60°	171.3	146.6	124.0	104.5	86.8	70.5	56.6	42.9	30.5	20.7	13.5
-62.5°	128.0	110.3	95.3	80.3	68.4	55.9	43.5	32.3	22.7	15.8	9.7
-65°	94.0	82.2	70.1	62.2	52.2	41.4	31.7	23.2	16.9	11.3	6.8
-67.5°	66.1	59.8	52.4	44.5	36.7	28.7	21.8	16.7	11.7	7.5	4.7
-70°	46.5	40.7	34.8	29.5	24.1	19.0	15.2	10.8	7.3	4.8	3.3
-72.5°	28.8	25.2	21.5	17.8	15.6	12.4	8.5	6.3	4.5	3.2	2.4
-75°	15.8	14.5	13.0	10.8	8.0	6.4	4.8	3.7	2.9	2.2	1.9
-77.5°	8.8	7.3	6.4	5.2	4.3	3.3	2.8	2.4	2.1	1.8	1.5
-80°	4.4	3.9	3.2	2.9	2.6	2.3	2.0	1.8	1.6	1.4	1.2
-82.5°	2.7	2.5	2.3	2.0	1.8	1.5	1.4	1.2	1.1	1.1	1.0
-85°	1.9	1.7	1.5	1.3	1.1	1.0	0.9	0.9	0.9	0.9	0.9
-87.5°	1.5	1.3	1.2	1.1	0.9	0.8	0.8	0.8	0.8	0.9	0.9
-90°	1.8	1.7	1.7	1.7	1.6	1.6	1.5	1.5	1.4	1.4	1.3



REPORT NUMBER: P670545 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL30DBZ-30W-2700K

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.9	0.9	0.9	0.9	0.9	0.9	0.9
87.5°	1.5	1.4	1.3	1.2	1.1	1.0	0.9
85°	1.8	1.6	1.4	1.2	1.1	1.0	0.9
82.5°	2.1	1.8	1.5	1.3	1.1	1.0	0.9
80°	2.6	2.0	1.7	1.4	1.2	1.0	0.9
77.5°	3.5	2.5	1.9	1.5	1.2	1.0	0.9
75°	4.8	3.1	2.1	1.6	1.3	1.1	0.9
72.5°	6.7	4.0	2.4	1.7	1.3	1.1	0.9
70°	8.9	5.2	3.0	1.9	1.4	1.1	0.9
67.5°	11.6	6.6	3.5	2.0	1.4	1.1	0.9
65°	14.6	8.3	4.3	2.3	1.4	1.1	0.9
62.5°	17.9	10.2	5.1	2.6	1.5	1.1	0.9
60°	22.3	12.2	5.9	2.9	1.6	1.1	0.9
57.5°	26.7	14.5	7.2	3.1	1.7	1.1	0.9
55°	31.1	16.9	8.3	3.6	1.7	1.2	0.9
52.5°	35.3	20.1	9.5	3.9	1.8	1.2	0.9
50°	39.9	23.0	10.8	4.3	1.9	1.2	0.9
47.5°	44.4	25.8	12.0	4.7	2.0	1.2	0.9
45°	49.2	28.4	13.3	5.3	2.1	1.2	0.9
42.5°	53.7	31.1	15.1	5.9	2.1	1.2	0.9
40°	58.5	34.0	16.8	6.4	2.2	1.2	0.9
37.5°	63.0	36.6	18.3	6.8	2.2	1.2	0.9
35°	67.1	39.3	19.6	7.3	2.3	1.2	0.9
32.5°	70.9	41.8	20.8	7.7	2.4	1.2	0.9
30°	74.3	44.1	21.8	8.1	2.4	1.2	0.9
27.5°	77.8	46.2	22.6	8.3	2.5	1.2	0.9
25°	80.9	48.3	23.4	8.6	2.5	1.2	0.9
22.5°	83.4	50.2	24.3	8.7	2.5	1.2	0.9
20°	85.5	51.7	25.1	8.9	2.5	1.2	0.9
17.5°	87.4	52.9	25.7	9.2	2.4	1.2	0.9
15°	88.7	53.8	26.1	9.4	2.4	1.2	0.9
12.5°	89.5	54.3	26.3	9.6	2.3	1.2	0.9
10°	89.7	54.5	26.3	9.6	2.3	1.2	0.9
7.5°	89.5	54.4	26.1	9.5	2.2	1.2	0.9
5°	88.7	54.0	25.8	9.4	2.1	1.2	0.9
2.5°	87.5	53.3	25.3	9.2	2.0	1.2	0.9
0°	85.8	52.3	24.6	8.9	1.9	1.2	0.9
-2.5°	85.3	52.0	24.4	8.8	1.9	1.2	0.9
-5°	84.5	51.4	24.1	8.6	1.9	1.2	0.9
-7.5°	83.1	50.5	23.7	8.4	1.9	1.2	0.9
-10°	81.4	49.4	23.1	8.2	1.9	1.2	0.9
-12.5°	79.3	47.9	22.3	7.8	1.9	1.2	0.9
-15°	76.8	46.2	21.4	7.4	1.8	1.2	0.9
-17.5°	73.8	44.3	20.4	6.9	1.8	1.2	0.9
-20°	70.6	42.0	19.2	6.3	1.8	1.2	0.9

Classified

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

Scaled Data Report



REPORT NUMBER: P670545 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: ARFL30DBZ-30W-2700K

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	67.2	39.5	18.0	5.9	1.8	1.2	0.9
-25°	63.7	36.8	16.6	5.6	1.7	1.1	0.9
-27.5°	59.8	33.8	15.4	5.3	1.7	1.1	0.9
-30°	55.7	31.1	14.3	4.9	1.7	1.1	0.9
-32.5°	51.4	28.3	13.1	4.5	1.6	1.1	0.9
-35°	46.9	25.4	11.8	4.1	1.6	1.1	0.9
-37.5°	42.1	22.5	10.4	3.7	1.5	1.1	0.9
-40°	37.2	19.9	9.1	3.3	1.5	1.1	0.9
-42.5°	32.1	17.2	7.6	2.9	1.4	1.1	0.9
-45°	27.8	14.8	6.1	2.5	1.4	1.1	0.9
-47.5°	23.3	12.7	5.3	2.1	1.4	1.1	0.9
-50°	19.7	10.4	4.6	1.9	1.3	1.0	0.9
-52.5°	16.1	8.4	3.9	1.8	1.3	1.0	0.9
-55°	13.1	6.4	3.2	1.7	1.2	1.0	0.9
-57.5°	10.1	5.1	2.6	1.6	1.2	1.0	0.9
-60°	7.6	4.1	2.0	1.5	1.2	1.0	0.9
-62.5°	5.3	3.2	1.8	1.4	1.1	1.0	0.9
-65°	4.1	2.4	1.7	1.3	1.1	1.0	0.9
-67.5°	3.0	1.9	1.5	1.2	1.0	1.0	0.9
-70°	2.2	1.7	1.4	1.2	1.0	1.0	0.9
-72.5°	1.8	1.5	1.2	1.1	1.0	1.0	0.9
-75°	1.5	1.3	1.1	1.0	1.0	1.0	0.9
-77.5°	1.3	1.1	1.0	1.0	1.0	0.9	0.9
-80°	1.1	1.0	1.0	1.0	1.0	0.9	0.9
-82.5°	0.9	1.0	1.0	0.9	0.9	0.9	0.9
-85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9
-87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9
-90°	1.3	1.2	1.1	1.1	1.0	1.0	0.9

(END OF REPORT)