

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: P670549 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: ARFL30DBZ-30W-5000K

Issue Date: 3/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P670549 (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-5000K
Description: SLIM WALL OR FLOODLIGHT
Light Source:
Ballast/Driver: -

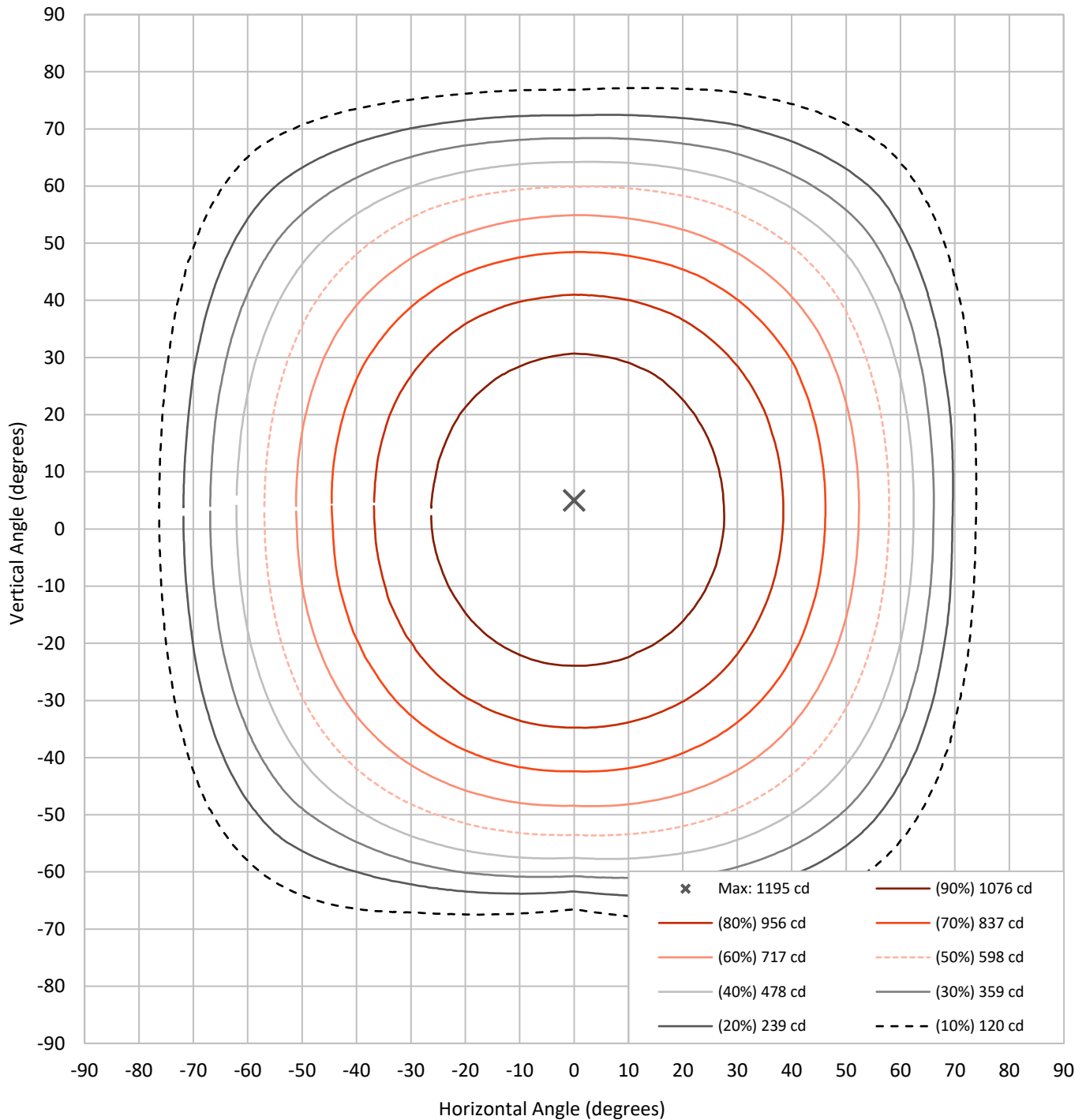
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	3317.7 lumens	Max Intensity:	1195 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 5°V
Efficacy:	118.9 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:	2658 lumens	Field Lumens:	3268.1 lumens
Beam Efficiency:	80.1%	Field Efficiency:	98.5%
Input Watts (W):	27.9		
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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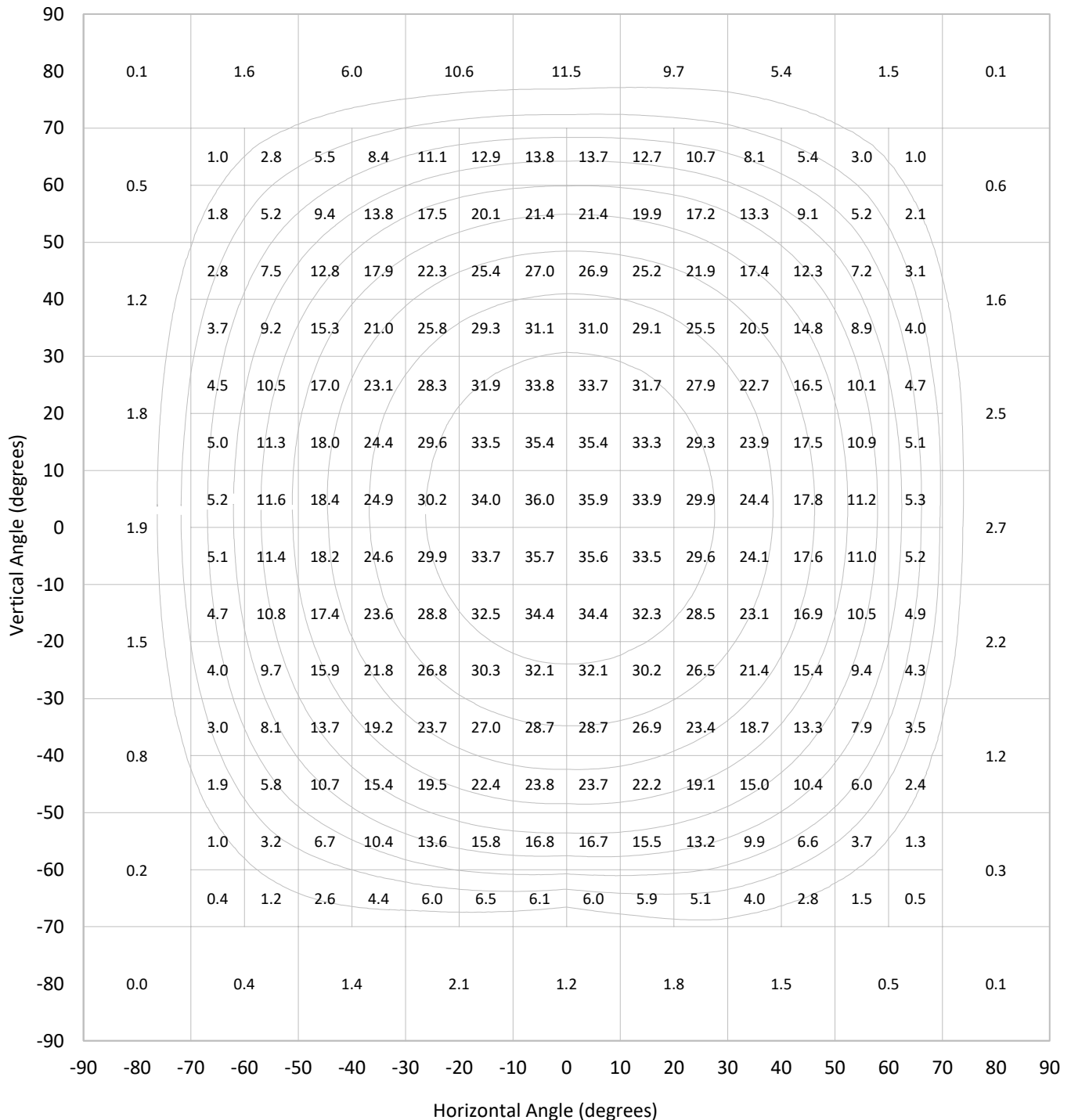
Iso-Candela Plot





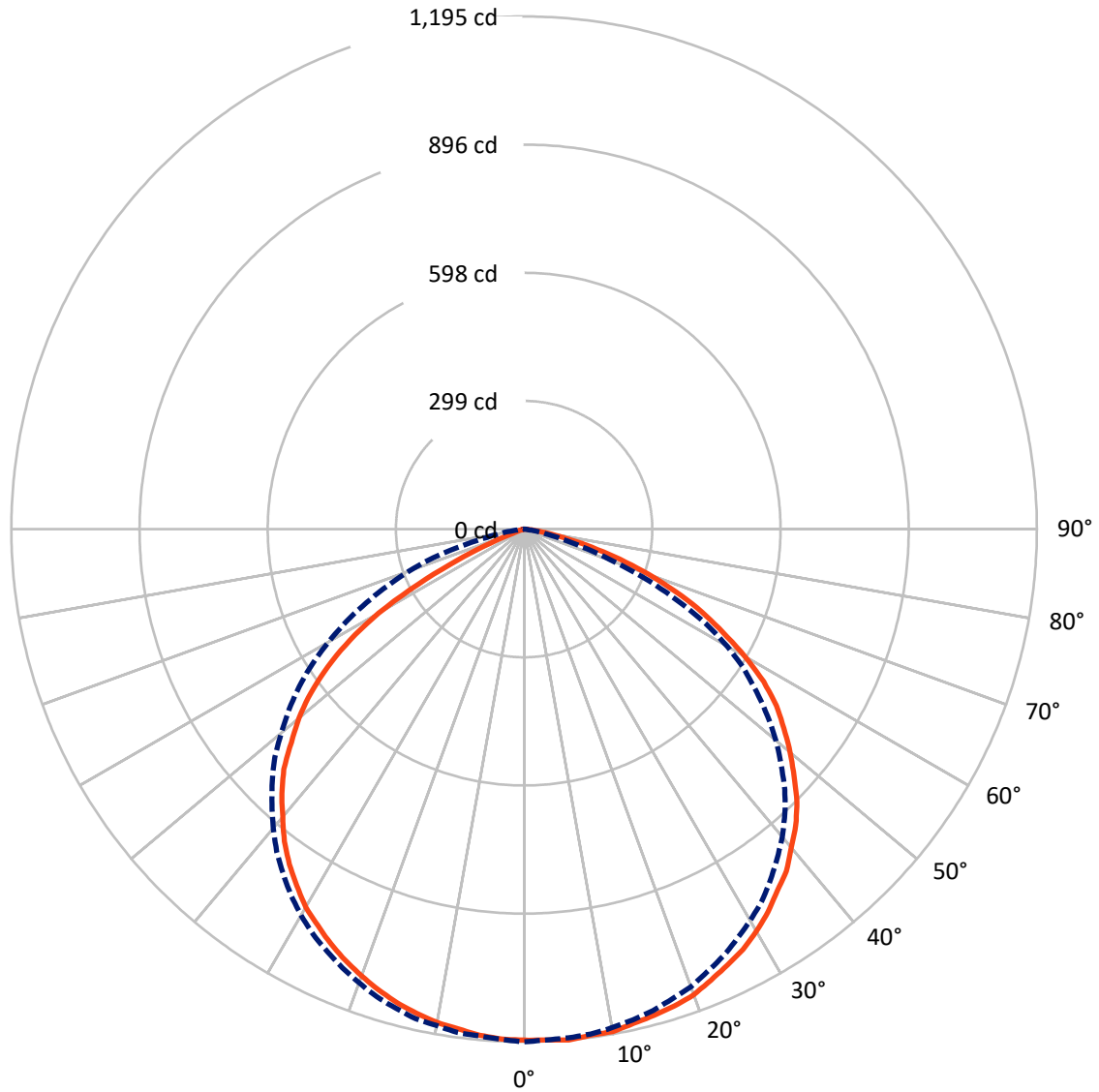
REPORT NUMBER: P670549 (CONVERTED FROM TYPE C PHOTOMETRY)
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Lumen Table



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Luminous Intensity Polar Plot

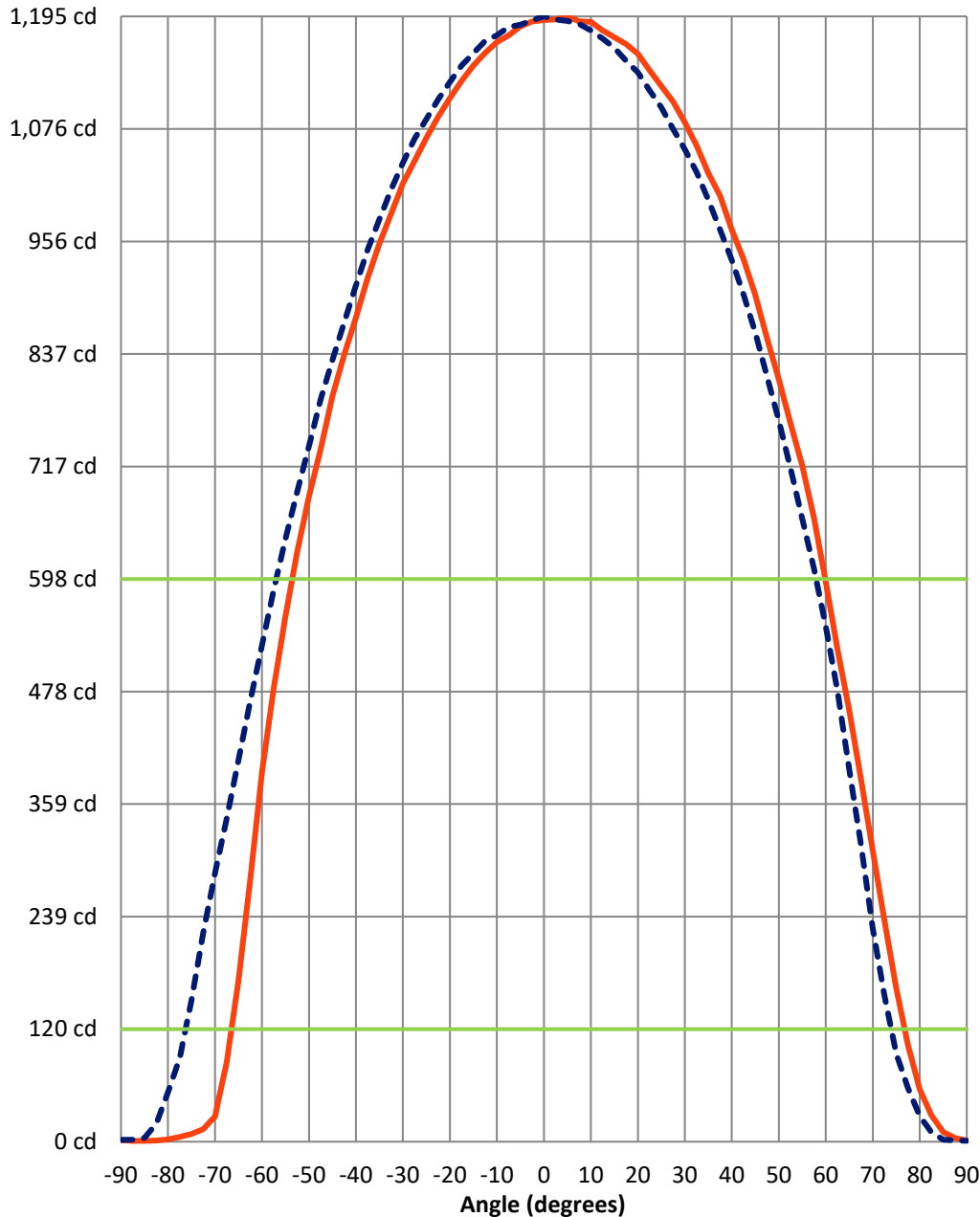


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 5-Deg



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Luminous Intensity Plot



Beam:
 H Angle: 114.9°
 V Angle: 113.4°
 Lumens: 2658
 Efficiency: 80.1%

Field:
 H Angle: 150.2°
 V Angle: 143.3°
 Lumens: 3268.1
 Efficiency: 98.5%

Spill:
 Lumens: 49.6
 Efficiency: 1.5%

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



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	2.0	2.0	1.9	1.9	1.9	1.8	1.8	1.8	1.7	1.7	1.7
87.5°	2.0	2.0	2.1	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.9
85°	2.0	2.0	2.1	2.2	2.3	2.5	2.7	2.9	3.2	3.5	3.9
82.5°	2.0	2.0	2.1	2.2	2.5	2.7	3.1	3.5	4.0	4.6	5.5
80°	2.0	2.0	2.1	2.3	2.6	3.0	3.5	4.2	5.4	6.8	9.1
77.5°	2.0	2.1	2.2	2.5	2.8	3.4	4.3	5.7	8.0	11.4	15.2
75°	2.0	2.1	2.2	2.6	3.0	3.9	5.4	8.3	12.1	16.4	22.2
72.5°	2.0	2.1	2.3	2.7	3.2	4.7	7.5	11.6	16.2	23.9	33.3
70°	2.0	2.1	2.3	2.8	3.8	6.0	10.0	14.8	23.2	34.3	45.9
67.5°	2.0	2.1	2.4	2.9	4.3	7.7	12.5	20.5	32.4	45.1	58.3
65°	2.0	2.1	2.4	3.1	5.2	9.5	16.1	27.7	41.8	56.1	73.6
62.5°	2.0	2.1	2.5	3.4	6.3	11.4	20.9	36.2	50.5	69.6	91.9
60°	2.0	2.1	2.5	3.7	7.4	14.0	27.3	43.1	62.1	84.7	111.9
57.5°	2.0	2.1	2.5	4.0	8.7	17.5	34.2	51.4	74.5	101.1	133.7
55°	2.0	2.1	2.6	4.7	9.8	21.5	39.6	61.4	87.3	118.6	157.4
52.5°	2.0	2.2	2.6	5.3	11.2	26.9	45.2	71.4	100.3	137.8	178.3
50°	2.0	2.2	2.7	5.8	13.6	32.0	53.4	81.2	114.4	157.1	199.6
47.5°	2.0	2.2	2.9	6.4	15.9	35.9	61.4	91.1	129.6	175.1	220.9
45°	2.0	2.2	3.0	7.1	18.3	39.5	68.7	101.2	145.5	192.7	241.2
42.5°	2.0	2.2	3.1	7.7	21.9	44.3	75.5	111.3	160.4	210.4	259.8
40°	2.0	2.2	3.1	8.2	25.3	50.2	82.5	122.6	174.6	228.1	275.9
37.5°	2.0	2.2	3.2	8.8	28.5	55.9	89.0	134.3	187.7	243.7	292.8
35°	2.0	2.2	3.4	9.7	30.9	60.8	95.4	145.4	201.2	257.6	308.5
32.5°	2.0	2.2	3.6	10.8	33.0	65.1	101.7	156.0	214.9	269.6	322.4
30°	2.0	2.2	3.7	11.8	34.8	69.0	107.3	165.8	227.1	281.8	334.6
27.5°	2.0	2.2	3.9	12.7	36.5	72.6	114.3	174.2	237.7	293.5	345.6
25°	2.0	2.2	4.0	13.5	38.5	76.0	120.8	181.8	247.3	303.5	357.5
22.5°	2.0	2.2	4.1	14.2	41.4	78.9	126.7	189.3	254.7	312.2	368.3
20°	2.0	2.2	4.2	15.1	43.9	81.4	132.0	197.1	261.3	319.7	377.4
17.5°	2.0	2.2	4.2	16.1	46.2	83.5	136.9	204.0	267.1	325.7	385.3
15°	2.0	2.2	4.2	17.1	48.1	85.3	141.1	210.0	272.7	330.8	391.9
12.5°	2.0	2.1	4.2	17.8	49.7	86.8	144.6	214.6	277.3	334.8	397.0
10°	2.0	2.1	4.2	18.4	51.0	87.9	147.2	217.9	280.9	338.5	401.0
7.5°	2.0	2.1	4.2	18.8	51.9	88.6	149.1	220.3	283.4	341.4	403.7
5°	2.0	2.1	4.1	19.0	52.5	88.8	150.2	221.7	285.0	343.1	405.3
2.5°	2.0	2.1	4.1	19.0	52.7	88.6	150.4	222.1	285.4	343.6	405.6
0°	2.0	2.1	4.0	18.9	52.6	88.1	149.8	221.7	284.9	342.9	404.7
-2.5°	2.0	2.1	4.0	18.6	52.0	87.2	148.4	219.9	282.9	340.9	402.6
-5°	2.0	2.1	4.0	18.3	51.1	86.1	146.1	217.1	279.8	337.7	399.3
-7.5°	2.0	2.1	3.9	17.7	49.8	84.5	143.0	213.4	275.8	333.3	394.8
-10°	2.0	2.1	3.9	17.0	48.2	82.6	139.1	208.7	270.7	327.7	389.0
-12.5°	2.0	2.1	3.8	16.2	46.3	80.3	134.4	203.1	264.5	321.2	382.1
-15°	2.0	2.1	3.8	15.2	44.1	77.6	129.0	196.1	257.4	314.5	374.0
-17.5°	2.0	2.1	3.7	14.0	41.5	74.9	122.8	187.7	249.3	306.7	364.5
-20°	2.0	2.1	3.6	12.7	38.7	71.9	115.8	178.4	241.1	298.0	353.8

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CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	2.0	2.1	3.5	11.7	35.7	68.7	108.9	168.2	232.2	287.6	341.9
-25°	2.0	2.1	3.4	10.9	32.3	65.3	101.9	158.5	222.5	275.9	328.2
-27.5°	2.0	2.1	3.2	10.0	30.0	61.6	94.3	148.9	210.3	263.0	313.5
-30°	2.0	2.1	3.1	9.1	28.0	57.6	86.6	138.6	196.8	248.6	299.4
-32.5°	2.0	2.1	3.0	8.1	25.8	53.3	80.7	126.8	181.8	233.8	284.2
-35°	2.0	2.1	2.8	7.1	23.6	48.8	74.4	113.9	165.2	219.7	266.9
-37.5°	2.0	2.1	2.7	6.2	21.1	43.7	68.3	101.5	149.4	203.0	248.0
-40°	2.0	2.1	2.6	5.7	18.1	37.8	62.5	90.0	134.7	184.0	228.3
-42.5°	2.0	2.1	2.5	5.2	15.0	31.8	56.5	79.5	118.3	162.9	210.2
-45°	2.0	2.1	2.4	4.7	11.8	27.1	50.0	70.8	100.8	142.7	188.1
-47.5°	2.0	2.1	2.4	4.2	9.9	23.7	43.3	62.7	86.6	123.8	163.7
-50°	2.0	2.1	2.3	3.8	8.2	20.2	35.7	55.0	73.9	103.0	139.3
-52.5°	2.0	2.1	2.2	3.5	6.5	16.0	27.8	46.9	63.1	85.0	116.8
-55°	2.0	2.0	2.2	3.1	5.5	11.9	23.0	38.4	54.1	70.0	92.7
-57.5°	2.0	2.0	2.2	2.8	4.8	9.1	18.6	29.2	44.6	57.9	74.1
-60°	2.0	2.0	2.1	2.6	4.0	7.0	13.8	22.2	34.6	47.7	59.5
-62.5°	2.0	2.0	2.1	2.5	3.6	5.5	9.5	17.0	24.5	36.4	47.6
-65°	2.0	2.0	2.1	2.3	3.1	4.5	7.0	11.8	18.1	25.4	35.3
-67.5°	2.0	2.0	2.1	2.2	2.7	3.8	5.3	8.0	12.5	17.5	23.6
-70°	2.0	2.0	2.1	2.2	2.5	3.2	4.2	5.6	8.0	11.6	15.3
-72.5°	2.0	2.0	2.1	2.1	2.3	2.7	3.5	4.4	5.5	7.3	9.5
-75°	2.0	2.0	2.0	2.1	2.2	2.4	2.8	3.5	4.2	5.1	6.1
-77.5°	2.0	2.0	2.0	2.1	2.2	2.3	2.5	2.8	3.3	3.9	4.5
-80°	2.0	2.0	2.0	2.0	2.1	2.2	2.3	2.4	2.7	3.0	3.4
-82.5°	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.3	2.4	2.6
-85°	2.0	2.0	2.0	1.9	2.0	2.0	2.0	2.1	2.1	2.2	2.2
-87.5°	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
-90°	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2



REPORT NUMBER: P670549 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL30DBZ-30W-5000K

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	1.6	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5
87.5°	3.1	3.3	3.3	3.4	3.5	3.5	3.6	3.6	3.7	3.7	3.7
85°	4.4	4.9	5.1	5.4	5.6	6.1	6.5	6.9	7.3	7.6	7.9
82.5°	6.8	8.1	9.0	10.8	12.4	13.8	15.2	16.6	18.0	19.3	20.6
80°	12.3	15.7	18.1	20.2	22.7	26.2	29.5	32.7	36.2	39.4	42.3
77.5°	19.2	24.4	29.8	34.8	40.2	45.3	50.0	54.4	58.7	62.9	66.7
75°	29.8	38.8	46.6	52.9	59.1	65.4	71.8	79.8	87.2	94.7	101.3
72.5°	44.0	54.1	63.2	71.3	82.3	93.2	104.4	115.3	125.7	136.2	146.5
70°	57.3	69.9	84.7	99.3	114.0	129.4	144.5	159.3	173.2	187.1	200.7
67.5°	73.6	92.3	113.5	133.0	152.4	170.6	187.4	205.2	222.8	240.7	257.0
65°	94.6	119.3	147.4	170.5	189.5	210.8	231.5	251.8	271.4	290.5	310.0
62.5°	118.3	149.0	179.8	203.7	227.6	250.6	273.1	295.2	318.5	339.5	359.6
60°	144.4	177.7	209.4	237.8	263.0	287.7	313.8	338.5	362.0	385.6	408.9
57.5°	170.3	204.8	238.7	269.5	296.4	325.5	352.3	379.0	406.1	432.3	458.3
55°	194.3	231.8	266.8	299.3	330.8	360.3	390.2	420.5	449.4	479.5	509.2
52.5°	218.8	257.6	292.7	329.5	362.5	395.2	428.4	460.7	493.5	527.5	557.9
50°	242.5	281.0	320.3	357.2	394.2	430.1	465.2	500.5	537.2	569.2	598.6
47.5°	264.4	305.3	345.1	384.8	425.5	463.3	501.1	539.7	574.7	606.1	635.6
45°	284.1	327.8	369.1	412.8	454.2	494.9	536.2	574.2	608.2	640.2	672.7
42.5°	305.1	348.4	393.6	437.6	482.0	526.9	567.7	604.6	639.6	674.7	706.5
40°	323.7	369.1	416.7	463.5	510.2	554.2	594.8	633.7	671.6	706.4	739.2
37.5°	340.5	389.6	438.0	486.2	534.5	579.0	622.1	663.0	700.5	736.4	768.4
35°	356.7	408.6	459.5	510.3	557.9	603.2	646.6	688.8	728.2	762.8	794.5
32.5°	373.4	425.4	477.6	529.6	577.8	624.3	669.5	712.6	752.4	785.6	818.6
30°	388.7	442.9	496.8	548.4	597.8	644.8	690.3	733.9	771.3	808.0	841.7
27.5°	402.4	458.1	513.0	564.7	614.8	663.0	709.0	751.3	791.0	827.4	862.7
25°	414.4	470.8	527.0	579.9	630.4	679.3	725.4	766.0	806.6	845.1	879.1
22.5°	425.9	484.0	539.9	594.0	644.4	693.4	738.9	782.0	822.3	860.0	894.8
20°	436.9	495.7	551.0	605.2	656.8	705.4	750.2	794.4	835.4	871.8	907.2
17.5°	445.9	504.5	560.7	615.0	667.1	715.7	760.3	805.3	845.8	883.4	919.8
15°	452.6	511.9	569.0	623.1	675.6	723.7	770.6	815.1	854.0	890.8	928.9
12.5°	457.9	517.9	575.7	629.5	681.7	729.8	778.1	822.0	860.6	898.3	936.0
10°	462.1	522.5	580.8	634.7	686.1	734.3	782.9	826.8	866.1	905.7	941.6
7.5°	465.5	525.5	584.1	638.2	688.9	737.2	786.3	829.3	869.7	908.6	945.3
5°	467.5	527.0	585.7	640.1	690.1	738.5	788.4	830.0	869.9	909.4	947.2
2.5°	468.0	527.1	585.9	640.3	689.7	738.1	788.5	829.1	868.4	908.3	947.2
0°	467.0	525.7	584.5	638.7	687.6	736.0	786.7	826.5	865.6	905.5	945.0
-2.5°	464.6	523.6	582.1	636.4	685.4	733.8	783.9	824.4	863.8	903.3	942.3
-5°	460.9	520.0	578.1	632.4	681.6	729.9	779.3	820.6	860.6	899.4	937.5
-7.5°	455.6	514.9	572.6	626.5	676.0	724.2	772.6	815.1	855.6	893.8	930.7
-10°	449.0	508.4	565.5	619.0	668.9	716.7	764.5	807.7	846.9	886.3	921.3
-12.5°	441.5	500.3	556.8	609.6	660.2	707.6	754.8	798.2	835.8	874.0	910.0
-15°	432.9	490.7	546.6	599.3	649.7	696.7	742.9	787.1	824.4	861.6	897.4
-17.5°	423.0	479.6	534.8	587.5	637.9	684.0	728.8	772.2	811.2	849.1	884.3
-20°	410.9	467.0	521.4	573.4	624.3	669.4	713.6	755.9	795.5	830.4	866.7

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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°	397.1	452.1	506.4	557.4	607.0	652.8	696.7	738.5	778.4	813.9	849.0
-25°	382.6	435.9	489.7	540.4	588.8	635.1	678.0	718.9	756.6	792.9	825.0
-27.5°	367.3	419.7	471.5	521.7	568.9	615.9	657.1	697.7	735.3	771.2	804.5
-30°	350.7	401.5	451.5	501.3	546.8	592.1	634.2	674.4	711.9	745.6	779.8
-32.5°	332.7	381.4	429.4	478.2	524.3	567.6	611.1	648.5	685.9	720.3	751.7
-35°	312.9	361.0	407.8	454.2	500.1	540.8	582.5	622.1	657.4	691.4	723.3
-37.5°	293.5	339.1	383.8	427.4	471.9	514.2	552.5	591.6	626.1	659.6	691.2
-40°	273.1	315.7	359.0	401.1	442.9	484.5	521.8	558.2	594.4	625.2	656.0
-42.5°	250.6	291.6	332.9	373.1	411.9	451.8	489.8	522.8	557.6	590.6	619.0
-45°	226.4	267.1	305.3	344.1	381.1	416.3	451.8	487.1	517.9	550.3	580.4
-47.5°	204.9	240.2	277.5	313.5	349.0	380.1	411.7	445.2	477.4	506.2	536.0
-50°	178.8	213.0	247.8	282.0	314.2	341.9	370.2	400.0	431.7	460.4	487.4
-52.5°	150.6	186.9	216.3	249.2	277.1	301.5	327.1	353.3	380.8	410.3	436.3
-55°	124.0	155.8	188.5	214.4	238.9	261.1	282.4	305.1	328.4	353.0	378.6
-57.5°	97.6	125.4	154.2	182.5	199.8	219.9	238.7	256.7	275.2	295.5	316.1
-60°	75.1	96.4	121.1	144.7	165.6	180.2	195.2	210.3	224.7	238.9	253.9
-62.5°	58.0	71.6	89.4	109.6	127.3	143.7	157.1	165.7	176.8	187.1	197.3
-65°	44.8	53.4	64.2	76.4	92.7	106.2	118.3	128.8	136.7	140.8	146.7
-67.5°	31.3	39.7	46.1	54.2	63.0	72.7	83.3	91.6	98.5	103.9	107.8
-70°	19.4	25.1	31.7	37.8	42.5	48.3	54.0	59.3	65.8	70.3	72.8
-72.5°	11.7	14.7	18.3	22.3	27.3	31.5	34.6	37.6	40.4	43.1	45.1
-75°	7.2	8.5	9.7	12.3	14.4	16.9	18.9	21.6	23.5	24.8	25.7
-77.5°	5.0	5.5	6.1	6.8	7.8	8.5	9.7	10.6	11.3	11.8	11.7
-80°	3.8	4.2	4.4	4.7	4.9	5.2	5.5	5.7	6.1	6.2	6.3
-82.5°	2.9	3.1	3.3	3.5	3.7	3.8	3.9	4.0	4.1	4.1	4.1
-85°	2.3	2.4	2.5	2.6	2.7	2.9	3.0	3.0	3.1	3.1	3.1
-87.5°	2.0	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9
-90°	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1



REPORT NUMBER: P670549 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL30DBZ-30W-5000K

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	2.6	2.7	2.8	2.7	2.5	2.4	2.2	2.1	2.0	1.8	1.7
87.5°	3.7	3.8	3.8	3.9	3.9	3.9	4.0	4.0	4.0	4.0	4.0
85°	8.4	8.9	9.4	9.8	10.2	10.4	10.6	10.8	10.9	10.9	10.9
82.5°	22.2	23.9	25.4	26.4	27.3	27.9	28.5	29.0	29.4	29.5	29.5
80°	45.0	47.6	49.9	51.6	53.0	54.3	55.3	56.2	56.8	57.2	57.3
77.5°	71.1	75.5	79.3	82.7	86.1	89.2	92.0	94.5	96.8	98.9	100.5
75°	107.6	113.3	118.0	124.7	131.5	137.5	143.2	148.8	153.5	157.2	160.1
72.5°	156.7	167.0	176.8	185.9	194.5	202.9	211.0	217.8	223.5	228.0	231.2
70°	214.4	228.7	241.8	253.3	263.7	273.2	281.7	289.2	295.4	300.6	304.5
67.5°	272.9	288.3	303.3	317.4	328.8	339.0	348.2	356.4	363.5	369.7	375.1
65°	328.4	345.1	360.7	375.4	389.2	402.1	413.0	422.8	431.7	439.6	446.1
62.5°	379.2	398.9	416.9	434.1	450.3	465.0	478.0	489.5	499.5	507.8	514.2
60°	431.1	453.1	475.1	496.6	515.9	532.2	546.4	557.8	567.8	575.9	582.5
57.5°	484.6	510.6	536.6	559.7	578.7	592.3	605.6	617.9	628.3	637.3	645.2
55°	539.7	565.7	588.4	609.9	628.8	642.7	656.2	669.3	681.9	692.6	700.3
52.5°	585.2	610.6	632.7	652.5	672.8	690.4	703.7	717.3	729.0	738.6	746.6
50°	625.7	649.7	675.1	695.5	716.0	734.1	749.1	762.3	774.4	784.9	793.3
47.5°	664.1	689.8	714.8	737.5	757.6	776.7	792.6	806.2	818.1	828.5	837.2
45°	700.6	728.4	753.1	776.5	797.2	817.1	834.0	848.0	859.6	870.1	879.2
42.5°	736.5	763.7	788.5	812.5	835.1	854.4	871.0	885.2	898.2	909.4	918.8
40°	768.8	795.5	822.2	846.1	867.8	887.4	905.7	921.8	934.4	944.7	952.7
37.5°	797.7	826.2	852.4	876.5	898.5	920.4	938.4	952.8	964.0	976.0	985.5
35°	825.0	853.9	880.3	905.1	928.0	948.1	965.6	981.6	994.3	1005.6	1014.4
32.5°	850.3	879.2	906.5	931.1	953.2	973.7	991.6	1008.0	1020.9	1031.1	1039.9
30°	873.4	902.5	929.6	954.3	976.6	997.1	1015.1	1030.7	1043.7	1052.7	1062.2
27.5°	893.4	923.2	950.9	975.3	997.8	1017.4	1034.4	1048.8	1064.1	1074.8	1083.4
25°	912.0	942.7	969.5	994.1	1015.0	1034.4	1051.9	1068.3	1081.2	1095.4	1104.0
22.5°	928.5	958.9	985.9	1008.7	1030.2	1050.7	1068.3	1085.2	1098.5	1113.1	1120.2
20°	942.2	972.7	999.2	1021.7	1045.2	1064.7	1083.3	1098.4	1112.9	1126.2	1133.6
17.5°	953.2	983.9	1008.9	1035.5	1057.4	1076.5	1093.2	1109.7	1125.9	1136.0	1147.6
15°	962.9	992.0	1018.4	1044.7	1065.6	1084.5	1102.9	1120.6	1134.3	1146.5	1156.4
12.5°	970.7	998.6	1027.9	1052.9	1074.1	1091.9	1111.2	1128.0	1143.2	1155.4	1165.2
10°	974.6	1003.6	1033.8	1057.9	1077.8	1099.7	1118.1	1135.2	1149.3	1161.8	1171.4
7.5°	977.5	1008.3	1037.4	1062.6	1082.0	1104.7	1122.4	1140.5	1155.6	1164.5	1175.1
5°	979.6	1011.1	1039.5	1065.1	1086.0	1106.7	1125.2	1142.9	1156.0	1168.8	1174.9
2.5°	979.9	1011.6	1039.6	1064.0	1087.9	1106.9	1125.8	1143.2	1156.2	1167.7	1177.4
0°	978.0	1009.9	1037.7	1061.8	1087.4	1105.1	1124.0	1141.0	1155.5	1166.4	1177.7
-2.5°	974.9	1006.4	1033.8	1059.3	1083.7	1102.1	1120.0	1136.9	1150.4	1161.4	1171.2
-5°	969.4	1000.8	1028.4	1055.2	1077.3	1097.6	1114.8	1130.7	1142.6	1155.8	1163.4
-7.5°	961.6	993.4	1022.1	1047.7	1068.7	1090.3	1107.7	1123.5	1134.3	1146.4	1157.4
-10°	953.2	985.0	1012.8	1037.7	1060.0	1081.0	1097.4	1110.5	1124.1	1135.7	1147.8
-12.5°	945.0	974.0	1000.3	1021.9	1048.6	1069.1	1086.5	1102.8	1115.1	1125.4	1134.6
-15°	932.7	959.7	987.3	1013.6	1035.0	1056.6	1074.4	1090.6	1103.9	1113.8	1120.8
-17.5°	916.3	945.3	974.2	995.1	1015.9	1040.1	1059.0	1074.6	1089.4	1100.5	1109.5
-20°	898.5	930.6	954.4	981.1	1002.6	1020.8	1040.7	1057.4	1070.6	1082.7	1093.6

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Scaled Data Report



REPORT NUMBER: P670549 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: ARFL30DBZ-30W-5000K

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	880.9	909.6	937.5	960.9	984.0	1004.6	1020.6	1037.7	1050.9	1062.0	1071.5
-25°	859.8	888.8	917.5	940.2	962.0	983.3	1000.7	1015.2	1032.3	1039.7	1049.5
-27.5°	835.8	866.7	892.4	918.9	938.8	957.4	976.9	992.4	1006.4	1016.9	1028.6
-30°	810.7	840.5	868.2	891.1	914.5	932.1	949.2	963.5	980.1	990.8	1000.2
-32.5°	783.5	811.2	838.7	864.0	884.9	904.9	921.3	935.7	948.5	959.2	969.0
-35°	752.8	781.9	806.9	830.6	853.9	874.8	890.0	905.6	917.8	927.8	937.4
-37.5°	720.8	748.0	774.5	797.5	816.8	837.9	856.4	872.4	882.6	893.8	902.7
-40°	685.0	712.2	737.8	760.8	783.5	799.6	815.4	831.8	845.3	856.5	865.3
-42.5°	646.3	672.5	697.2	721.3	741.7	760.0	778.4	791.3	803.1	813.4	822.3
-45°	607.3	630.6	653.6	675.8	696.0	716.3	732.5	746.0	757.7	768.7	777.2
-47.5°	563.7	588.8	609.6	628.8	647.4	665.3	682.1	696.8	709.4	719.0	726.4
-50°	514.3	540.1	562.7	582.8	599.6	614.8	629.4	643.4	655.6	665.7	673.6
-52.5°	461.3	483.8	507.8	529.1	547.4	563.1	577.0	589.0	599.8	608.4	615.6
-55°	405.2	426.3	446.5	465.1	483.6	502.0	515.8	527.8	537.5	545.6	551.8
-57.5°	337.7	359.8	382.2	400.6	415.6	429.5	442.6	454.5	464.9	473.4	479.7
-60°	270.5	287.0	304.2	321.5	337.6	351.7	364.0	372.4	379.9	386.3	391.5
-62.5°	207.3	216.5	228.3	240.0	251.3	261.8	271.1	278.8	285.0	289.1	291.3
-65°	152.2	157.1	162.5	167.4	173.5	178.3	184.1	188.2	190.6	191.9	191.4
-67.5°	109.2	108.8	109.2	109.9	112.3	113.9	114.5	115.0	114.0	111.6	108.6
-70°	74.2	74.6	73.6	72.6	72.4	71.3	69.1	66.1	63.2	59.2	54.1
-72.5°	46.7	47.4	46.7	45.9	45.5	44.8	43.6	41.7	39.0	35.7	32.0
-75°	26.4	26.6	26.2	26.6	26.9	26.7	26.0	25.0	23.5	21.6	19.3
-77.5°	11.9	12.0	11.5	11.9	12.5	12.8	12.8	12.5	11.9	11.2	10.2
-80°	6.3	6.2	5.8	5.6	5.4	5.2	5.0	4.8	4.5	4.3	3.9
-82.5°	4.1	4.1	4.1	3.9	3.8	3.6	3.3	3.1	2.9	2.6	2.4
-85°	3.2	3.2	3.2	3.0	2.9	2.7	2.5	2.3	2.1	1.9	1.7
-87.5°	3.0	3.0	3.1	2.9	2.7	2.6	2.4	2.2	2.0	1.8	1.6
-90°	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.8	1.8	1.8	1.7



REPORT NUMBER: P670549 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL30DBZ-30W-5000K

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	1.5	1.4	1.2	1.1	1.2	1.3	1.4	1.5	1.6	1.8	1.9
87.5°	4.0	4.0	4.0	4.0	4.1	4.1	4.2	4.3	4.4	4.4	4.5
85°	10.8	10.7	10.5	10.3	10.8	11.2	11.6	11.9	12.2	12.4	12.5
82.5°	29.3	29.0	28.5	27.9	29.0	30.0	30.8	31.4	31.8	32.1	32.2
80°	57.2	56.9	56.4	55.6	57.6	59.3	60.7	61.9	62.7	63.3	63.5
77.5°	101.7	102.4	102.6	102.4	105.0	107.1	108.7	109.8	110.4	110.5	110.0
75°	162.0	163.2	163.5	163.0	165.5	167.2	168.2	168.4	167.7	166.4	164.2
72.5°	233.5	234.8	235.0	234.3	236.1	236.9	236.8	235.6	233.6	230.7	227.0
70°	307.4	309.1	309.6	309.0	310.5	310.9	310.1	308.2	305.2	301.0	295.6
67.5°	379.5	382.5	384.2	384.6	385.5	385.1	383.4	380.5	376.5	371.2	364.7
65°	451.2	454.8	457.0	457.7	458.4	457.6	455.4	451.8	446.7	440.3	432.4
62.5°	518.8	521.7	523.0	522.8	524.4	524.6	523.2	520.3	515.6	509.1	500.9
60°	587.7	591.6	593.8	594.3	595.3	594.5	592.0	587.9	582.3	575.3	566.6
57.5°	651.7	656.6	660.1	662.0	661.6	659.6	656.1	650.9	643.9	635.5	626.2
55°	706.7	711.8	715.5	717.7	716.9	714.6	710.8	705.5	698.8	690.1	680.0
52.5°	753.0	757.8	761.0	762.7	762.2	760.1	756.2	750.9	744.4	736.5	726.7
50°	799.8	804.7	807.9	809.5	809.4	807.6	803.9	798.2	790.6	781.8	771.2
47.5°	844.0	848.7	851.7	853.1	852.9	850.9	847.2	841.8	834.8	826.5	817.0
45°	886.7	892.6	896.8	899.0	897.7	894.6	889.8	883.6	875.9	866.9	855.9
42.5°	926.1	931.5	935.2	937.2	936.0	933.0	928.3	922.2	914.7	904.1	892.2
40°	958.9	963.6	966.8	968.4	968.0	965.9	962.2	956.9	949.3	939.2	927.0
37.5°	993.0	998.6	1002.4	1004.5	1003.9	1002.0	998.2	990.9	981.4	971.0	960.3
35°	1021.0	1025.2	1027.6	1028.6	1028.9	1027.8	1025.2	1019.9	1011.0	1004.1	991.2
32.5°	1046.8	1051.9	1055.6	1057.8	1056.8	1054.1	1050.0	1044.8	1037.5	1029.2	1017.0
30°	1070.2	1075.9	1080.0	1082.4	1081.1	1078.2	1074.2	1067.8	1059.2	1050.3	1039.7
27.5°	1091.9	1097.9	1102.0	1104.5	1103.0	1099.7	1095.3	1089.0	1080.1	1072.6	1057.4
25°	1112.5	1116.7	1119.5	1121.0	1120.4	1118.3	1114.1	1108.1	1100.3	1089.4	1075.6
22.5°	1127.6	1133.9	1136.1	1137.7	1137.2	1135.2	1131.0	1124.9	1116.8	1104.8	1091.8
20°	1141.4	1148.0	1152.5	1155.2	1153.6	1149.2	1143.3	1139.7	1131.4	1119.5	1106.1
17.5°	1152.6	1159.4	1163.5	1165.6	1164.0	1161.2	1157.9	1152.8	1141.4	1132.7	1117.9
15°	1164.8	1169.6	1171.8	1172.8	1172.8	1171.1	1165.4	1159.2	1151.9	1142.0	1129.9
12.5°	1173.0	1178.0	1180.2	1180.1	1180.0	1177.8	1175.6	1168.2	1158.1	1147.8	1139.0
10°	1179.1	1185.1	1188.5	1189.1	1189.6	1186.5	1179.6	1173.6	1165.9	1153.6	1142.6
7.5°	1181.8	1188.2	1189.0	1189.8	1190.0	1189.9	1185.9	1175.5	1167.9	1159.3	1144.3
5°	1183.7	1186.2	1190.7	1195.0	1191.7	1190.1	1187.0	1180.0	1171.4	1161.6	1147.8
2.5°	1183.9	1188.3	1191.6	1191.8	1190.4	1189.7	1186.2	1181.0	1172.2	1162.2	1148.8
0°	1183.2	1185.2	1187.2	1191.1	1190.7	1189.0	1185.3	1177.8	1172.1	1162.0	1147.7
-2.5°	1179.9	1184.8	1187.8	1189.6	1189.2	1189.7	1185.0	1176.6	1169.2	1157.3	1143.9
-5°	1174.4	1178.7	1181.3	1184.3	1184.8	1184.8	1178.3	1172.6	1163.6	1149.8	1138.4
-7.5°	1166.0	1172.3	1174.3	1174.8	1177.1	1175.8	1171.9	1166.3	1154.3	1142.0	1130.0
-10°	1157.4	1165.2	1167.4	1167.6	1168.4	1166.8	1162.5	1153.7	1142.8	1133.5	1121.2
-12.5°	1144.3	1151.0	1155.4	1156.3	1156.9	1153.8	1147.6	1141.2	1131.6	1121.2	1108.0
-15°	1130.4	1135.8	1140.9	1142.8	1142.1	1139.4	1134.0	1124.5	1117.8	1106.8	1096.8
-17.5°	1114.6	1119.9	1124.5	1126.5	1125.3	1121.4	1117.0	1109.9	1101.9	1093.2	1081.4
-20°	1099.4	1104.2	1107.4	1108.2	1107.5	1104.6	1099.7	1092.9	1086.5	1075.8	1063.8

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Scaled Data Report



REPORT NUMBER: P670549 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: ARFL30DBZ-30W-5000K

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	1079.9	1085.5	1088.0	1088.3	1088.0	1085.9	1082.7	1075.6	1064.4	1055.8	1043.9
-25°	1057.4	1062.2	1065.1	1066.0	1065.8	1063.3	1058.3	1052.4	1043.4	1034.9	1024.1
-27.5°	1033.9	1037.8	1040.8	1041.7	1041.5	1039.2	1035.5	1030.2	1022.2	1011.9	999.1
-30°	1008.0	1013.1	1016.4	1017.6	1017.4	1015.0	1010.7	1003.9	995.2	985.0	972.3
-32.5°	977.6	982.6	985.0	985.5	985.8	984.1	980.0	973.5	965.7	955.3	942.7
-35°	944.2	949.2	952.5	953.7	953.8	951.6	947.1	941.0	933.4	924.2	912.3
-37.5°	909.7	914.2	916.7	917.2	917.7	916.3	912.6	906.5	898.7	889.7	875.1
-40°	870.3	873.7	875.4	875.2	876.5	875.5	872.1	866.2	859.1	849.9	838.0
-42.5°	829.0	833.3	835.4	835.5	836.2	834.9	831.6	826.3	819.3	809.3	797.5
-45°	783.5	788.3	791.1	791.7	792.0	790.1	786.0	780.3	773.4	765.1	754.8
-47.5°	731.9	735.0	736.3	735.6	737.5	737.5	735.6	731.3	725.1	717.0	706.6
-50°	679.5	683.4	685.2	685.0	686.6	686.2	683.6	678.8	672.1	663.6	653.2
-52.5°	621.2	624.9	626.6	626.3	628.0	627.7	625.5	621.4	615.6	608.2	598.4
-55°	556.3	558.9	559.6	558.0	560.8	561.5	560.1	557.0	552.1	545.4	537.0
-57.5°	483.2	484.7	484.1	481.3	485.4	487.4	487.3	485.2	480.8	474.6	466.5
-60°	394.9	396.3	395.4	391.8	397.2	399.9	400.3	398.8	395.6	391.2	385.8
-62.5°	291.4	289.2	284.7	277.9	287.0	293.9	298.6	301.5	302.6	302.2	300.3
-65°	189.2	185.1	179.0	171.1	182.4	191.8	199.3	205.1	209.2	211.7	213.6
-67.5°	104.6	99.2	92.5	84.4	96.3	106.9	116.0	123.8	130.5	136.7	141.6
-70°	48.2	41.6	34.4	26.8	37.9	48.4	58.3	67.2	75.1	81.7	86.9
-72.5°	27.9	23.3	18.4	13.4	20.3	26.9	33.1	38.8	43.7	48.1	51.6
-75°	16.8	14.1	11.2	8.2	11.9	15.5	18.8	21.9	24.5	26.7	28.4
-77.5°	9.1	7.8	6.5	5.1	6.7	8.2	9.6	10.8	11.9	12.7	13.3
-80°	3.6	3.3	2.9	2.5	3.0	3.6	4.1	4.5	4.9	5.3	5.6
-82.5°	2.1	1.8	1.5	1.2	1.5	1.9	2.2	2.5	2.8	3.1	3.4
-85°	1.5	1.3	1.1	0.9	1.1	1.3	1.5	1.8	2.0	2.2	2.3
-87.5°	1.5	1.3	1.1	0.9	1.0	1.2	1.3	1.4	1.6	1.7	1.9
-90°	1.7	1.7	1.6	1.6	1.6	1.7	1.7	1.8	1.8	1.9	1.9



REPORT NUMBER: P670549 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL30DBZ-30W-5000K

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	2.0	2.1	2.2	2.3	2.4	2.3	2.1	2.0	1.9	1.7	1.6
87.5°	4.5	4.6	4.6	4.6	4.6	4.4	4.2	4.0	3.9	3.7	3.5
85°	12.6	12.5	12.4	12.3	12.0	11.2	10.4	9.7	9.1	8.5	7.8
82.5°	32.1	31.9	31.5	30.9	30.0	28.1	26.1	24.1	22.5	20.7	18.9
80°	63.4	63.0	62.2	60.9	58.9	55.2	51.3	47.5	44.2	40.5	36.7
77.5°	108.9	107.2	104.9	101.9	97.9	91.3	84.6	78.3	73.1	67.7	61.8
75°	161.3	158.4	155.2	151.5	145.9	137.1	128.0	118.7	109.0	99.5	90.3
72.5°	222.5	217.1	211.7	206.2	198.2	186.4	173.8	161.2	148.5	135.8	123.9
70°	289.2	281.8	273.5	264.8	253.5	240.0	224.9	209.8	195.1	179.0	162.3
67.5°	356.9	348.2	338.5	327.6	312.9	296.6	280.4	263.6	245.8	225.2	204.9
65°	423.1	412.5	401.8	390.5	374.0	355.8	336.6	316.1	295.0	275.1	253.7
62.5°	490.7	478.3	464.6	449.8	432.0	413.2	394.6	372.4	348.0	322.6	297.1
60°	556.6	544.9	531.5	514.1	492.8	470.2	448.6	425.4	401.7	375.4	345.6
57.5°	616.6	605.3	591.5	573.5	552.3	529.2	504.2	477.3	451.2	424.0	395.6
55°	668.5	655.8	641.1	624.0	604.9	581.4	556.6	529.4	500.4	469.7	440.2
52.5°	715.1	702.0	687.0	669.0	648.9	626.4	603.7	575.8	546.9	515.4	482.3
50°	757.8	744.6	729.1	710.4	690.5	668.5	644.1	617.7	588.9	557.2	523.5
47.5°	803.1	787.5	770.2	749.4	729.4	706.6	682.5	656.0	626.6	595.9	560.9
45°	843.4	829.7	812.1	789.6	768.2	742.8	717.9	691.2	662.2	630.3	596.7
42.5°	880.2	865.7	847.0	827.6	805.2	780.2	752.1	724.1	694.5	663.0	628.1
40°	914.2	896.7	879.7	861.2	838.2	814.3	786.1	757.0	724.9	692.6	658.1
37.5°	945.7	928.4	909.8	889.6	868.8	844.0	817.6	787.1	755.6	720.3	685.4
35°	974.7	957.9	938.2	917.7	895.4	871.2	845.2	815.8	783.3	747.7	710.3
32.5°	1003.1	984.3	964.6	943.1	921.3	896.1	869.5	840.9	808.7	775.0	732.8
30°	1025.8	1007.8	989.4	967.1	943.0	919.9	892.8	864.3	831.7	795.1	756.7
27.5°	1044.3	1029.3	1010.0	988.5	965.0	938.5	912.6	884.3	853.3	814.5	774.4
25°	1060.7	1046.4	1028.1	1007.6	983.0	958.1	930.1	898.7	866.6	831.2	791.0
22.5°	1076.5	1060.0	1044.4	1023.8	1001.4	974.4	945.0	917.2	884.0	847.9	806.1
20°	1089.8	1073.6	1054.2	1036.9	1014.5	987.9	960.1	928.3	893.6	858.8	818.7
17.5°	1103.2	1084.5	1066.9	1045.5	1024.5	1000.5	970.7	939.5	907.9	870.9	830.0
15°	1112.6	1094.4	1076.6	1056.2	1036.3	1009.4	980.0	950.0	916.5	879.4	840.0
12.5°	1122.2	1104.9	1082.8	1064.0	1040.2	1016.4	989.3	957.7	923.8	885.4	847.0
10°	1128.7	1109.9	1090.0	1068.8	1045.8	1022.0	994.3	962.8	929.8	892.6	852.9
7.5°	1134.2	1114.6	1096.6	1072.5	1050.9	1027.6	998.0	966.2	933.9	897.5	857.0
5°	1135.5	1116.4	1098.2	1075.4	1053.7	1029.6	1000.1	968.5	936.0	899.6	859.1
2.5°	1134.8	1116.3	1098.6	1076.5	1054.8	1028.9	1000.3	968.9	936.2	899.9	859.2
0°	1133.3	1114.4	1097.4	1075.6	1053.9	1027.3	998.7	967.4	934.6	898.5	857.5
-2.5°	1129.6	1111.1	1093.9	1072.2	1050.4	1023.9	995.2	964.0	931.4	895.2	854.4
-5°	1123.3	1106.0	1088.7	1067.0	1044.8	1019.4	989.8	958.7	926.5	890.1	849.5
-7.5°	1114.9	1099.1	1082.3	1058.8	1037.2	1012.5	982.7	951.7	919.9	883.1	842.8
-10°	1106.6	1089.8	1072.1	1048.7	1026.5	1002.9	973.7	942.7	911.5	874.0	834.5
-12.5°	1095.1	1080.2	1060.9	1041.3	1014.6	990.9	962.5	932.0	900.4	863.2	823.2
-15°	1081.9	1066.3	1045.1	1027.2	1004.8	977.4	949.4	919.9	887.6	850.5	809.5
-17.5°	1067.8	1050.7	1033.7	1008.3	988.5	962.5	934.1	906.0	872.9	836.1	794.8
-20°	1049.8	1034.5	1013.7	995.4	970.5	945.0	917.9	889.1	856.6	820.0	778.9

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

Scaled Data Report



REPORT NUMBER: P670549 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: ARFL30DBZ-30W-5000K

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	1031.5	1014.3	997.3	974.5	951.5	925.2	900.0	870.4	836.6	799.9	761.2
-25°	1008.9	994.1	974.3	953.4	930.3	906.2	879.1	850.4	816.9	779.3	740.5
-27.5°	985.7	968.9	950.3	930.2	907.9	882.9	856.4	825.5	792.4	757.3	719.5
-30°	958.4	942.2	924.7	904.9	881.6	857.5	829.7	800.4	767.5	732.2	692.6
-32.5°	929.9	914.0	896.7	875.2	853.5	828.8	802.5	772.2	739.6	705.1	665.8
-35°	899.1	880.9	864.0	844.5	821.8	798.7	771.5	742.0	710.8	673.2	637.2
-37.5°	861.8	846.6	830.3	809.8	789.5	765.2	738.3	709.7	675.5	643.3	607.8
-40°	824.9	808.7	793.5	774.9	753.2	728.4	702.0	671.5	642.5	609.2	575.1
-42.5°	785.2	771.5	754.4	735.1	712.3	687.9	661.2	635.1	605.1	573.9	539.3
-45°	742.4	727.7	709.5	689.5	668.1	645.6	621.3	595.3	566.2	534.3	499.3
-47.5°	692.8	677.2	660.9	643.0	624.2	601.8	578.5	551.7	522.6	490.5	457.0
-50°	641.0	627.7	612.9	595.5	576.7	554.7	530.1	503.4	474.5	444.6	413.8
-52.5°	587.2	574.9	560.5	542.9	522.9	500.7	477.0	451.6	425.0	396.7	365.2
-55°	526.6	514.5	499.7	482.6	463.9	443.5	421.7	397.9	372.0	342.8	310.8
-57.5°	456.8	445.9	434.4	420.2	402.7	383.3	362.0	337.7	311.5	285.7	258.9
-60°	379.7	372.2	363.9	352.4	335.1	315.7	295.1	274.9	253.5	230.1	205.1
-62.5°	296.8	291.6	285.5	277.6	263.8	249.0	232.6	215.0	195.9	176.4	155.1
-65°	214.5	214.1	212.3	209.2	199.1	186.8	173.2	158.5	142.6	127.0	112.5
-67.5°	145.1	147.3	147.9	147.0	139.7	129.6	119.2	108.8	98.4	89.1	79.6
-70°	91.0	93.4	93.9	93.7	89.8	83.9	77.9	71.8	65.5	59.8	54.7
-72.5°	54.1	55.4	55.9	55.8	53.9	51.0	47.9	44.8	41.5	37.9	34.1
-75°	29.4	30.1	30.3	29.8	28.7	27.7	26.2	24.6	23.2	21.2	19.2
-77.5°	13.9	14.2	14.3	14.0	13.6	13.2	12.5	11.9	11.7	11.2	10.5
-80°	5.9	6.0	6.1	6.3	6.5	6.6	6.5	6.3	6.0	5.6	5.1
-82.5°	3.6	3.9	4.1	4.3	4.4	4.3	4.1	3.8	3.6	3.4	3.1
-85°	2.5	2.7	2.8	3.0	3.1	2.9	2.8	2.6	2.5	2.3	2.1
-87.5°	2.0	2.1	2.3	2.4	2.5	2.4	2.2	2.1	1.9	1.8	1.6
-90°	1.9	2.0	2.0	2.1	2.1	2.1	2.0	2.0	2.0	1.9	1.9



REPORT NUMBER: P670549 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL30DBZ-30W-5000K

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	1.5	1.3	1.2	1.1	0.9	0.8	0.8	0.8	0.9	0.9	0.9
87.5°	3.4	3.2	3.1	2.9	2.8	2.6	2.4	2.2	2.0	1.9	1.7
85°	7.1	6.3	5.5	5.0	4.6	4.2	3.6	3.1	2.7	2.4	2.1
82.5°	17.0	15.3	13.5	11.7	9.7	8.3	6.6	5.0	3.9	3.3	2.7
80°	33.0	29.4	25.6	22.5	19.6	16.5	12.7	9.4	6.8	5.0	3.5
77.5°	55.7	49.4	43.8	37.9	32.5	26.9	20.8	15.8	11.5	8.0	5.4
75°	81.1	73.5	66.0	58.0	49.9	41.3	31.5	23.6	17.2	12.0	8.1
72.5°	112.0	100.5	89.4	78.7	69.5	58.2	45.3	33.9	24.4	16.8	11.3
70°	145.5	129.4	115.3	102.1	89.4	74.7	60.1	46.1	33.6	22.9	15.1
67.5°	185.9	166.0	145.5	126.2	110.4	92.7	74.6	58.5	43.7	30.5	19.8
65°	229.5	203.8	181.2	158.4	133.8	110.9	90.5	71.2	54.0	38.7	25.3
62.5°	274.1	248.9	219.0	191.0	164.1	132.5	106.7	84.9	64.6	46.9	31.8
60°	315.5	287.0	260.6	229.1	192.5	158.4	125.5	98.7	75.9	55.4	38.1
57.5°	362.8	327.8	294.5	266.2	226.5	183.6	147.7	113.6	87.6	64.5	44.5
55°	408.4	373.3	333.8	296.0	258.0	213.0	169.2	132.4	99.4	73.8	51.0
52.5°	449.2	414.8	376.5	330.0	283.5	241.7	193.2	149.7	113.2	83.2	58.2
50°	487.9	451.8	414.6	367.0	312.9	265.7	218.7	169.1	127.7	92.6	65.2
47.5°	524.9	486.7	446.9	399.8	346.1	289.6	242.4	189.6	141.3	103.0	72.5
45°	558.6	519.9	476.3	428.3	377.4	317.6	262.3	210.3	157.4	113.9	79.5
42.5°	591.0	550.2	505.1	455.6	402.9	346.7	282.2	230.5	173.2	124.3	86.2
40°	620.2	577.5	532.4	482.8	427.3	371.4	306.5	247.1	188.2	134.9	93.5
37.5°	646.8	603.9	556.4	507.5	451.9	392.2	330.8	262.8	205.3	146.9	100.7
35°	670.5	627.6	580.9	530.5	475.5	412.4	352.3	279.5	220.2	157.9	107.4
32.5°	691.7	649.0	602.7	550.3	496.3	433.6	368.5	298.7	232.8	167.5	113.7
30°	711.1	667.9	621.8	570.5	515.2	453.5	383.7	316.9	243.8	178.0	119.9
27.5°	729.9	685.0	638.8	588.5	531.7	471.2	398.7	333.7	253.3	189.4	127.3
25°	748.8	700.3	653.8	604.2	546.7	486.5	414.7	344.4	265.0	199.4	133.9
22.5°	762.9	714.6	666.9	617.3	561.1	499.8	429.2	353.8	277.0	207.0	139.3
20°	775.2	727.9	678.4	628.6	573.6	511.5	442.2	362.5	287.6	213.6	143.2
17.5°	786.2	739.8	688.2	638.1	584.4	520.9	453.1	369.9	296.8	219.1	146.2
15°	795.4	748.5	696.4	645.9	592.7	529.0	461.4	376.7	304.6	222.6	148.2
12.5°	802.4	755.3	703.7	652.1	598.9	535.9	468.2	383.8	310.7	225.1	150.4
10°	807.3	760.5	709.3	656.7	603.6	541.2	473.4	389.2	313.8	226.5	153.0
7.5°	810.5	764.0	713.1	659.8	606.7	545.0	476.5	393.0	315.0	226.9	154.4
5°	812.4	765.8	714.9	661.3	608.1	547.0	478.2	395.0	314.9	226.4	154.7
2.5°	812.3	765.8	714.8	661.2	608.1	547.4	478.2	395.1	313.6	224.9	153.8
0°	810.4	764.0	713.0	659.5	606.6	546.0	476.7	393.3	311.2	222.4	151.7
-2.5°	807.5	761.2	710.2	656.8	603.9	543.3	474.2	391.3	309.7	221.3	150.5
-5°	802.8	756.6	705.7	652.5	599.7	538.8	470.2	387.2	307.0	219.3	148.2
-7.5°	796.2	750.3	699.4	646.7	594.0	532.6	464.6	381.2	303.1	216.3	144.7
-10°	788.3	742.4	691.3	639.3	586.8	524.7	457.4	373.3	297.9	212.2	140.1
-12.5°	778.7	732.5	681.4	630.4	577.9	515.1	448.3	363.5	290.9	207.2	134.5
-15°	766.8	720.0	670.0	619.7	567.4	504.0	437.4	351.9	280.7	201.1	129.5
-17.5°	752.3	705.7	656.6	607.5	554.7	491.4	424.9	340.7	269.0	194.0	125.0
-20°	737.0	689.6	641.4	593.3	539.0	477.4	409.6	328.9	255.7	184.8	119.9

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Scaled Data Report



REPORT NUMBER: P670549 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: ARFL30DBZ-30W-5000K

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	719.1	672.5	625.7	577.3	521.7	461.5	392.2	315.7	241.4	174.3	114.2
-25°	697.7	653.3	607.9	559.7	502.7	444.2	372.4	301.9	226.0	162.9	107.0
-27.5°	675.3	631.8	587.8	538.8	482.6	424.2	350.4	286.6	210.8	149.8	98.5
-30°	652.5	610.4	565.6	515.1	461.0	401.4	330.0	265.5	197.2	135.7	89.4
-32.5°	625.8	585.8	541.6	489.8	438.0	375.9	309.6	243.1	181.9	123.8	82.3
-35°	599.9	558.7	512.8	463.6	411.9	346.8	288.4	220.8	164.8	114.1	75.8
-37.5°	570.0	529.2	482.7	436.4	382.1	320.4	262.0	200.1	146.6	102.9	69.2
-40°	538.0	495.5	452.0	405.9	348.5	293.8	233.5	179.6	127.4	89.9	62.5
-42.5°	501.1	461.0	419.8	371.4	316.4	263.6	206.3	157.7	114.2	79.8	55.6
-45°	462.4	425.9	383.6	332.4	284.4	230.0	181.0	135.2	100.0	71.0	48.7
-47.5°	423.2	386.1	342.3	296.5	247.1	198.8	155.1	116.1	83.9	62.2	41.8
-50°	379.6	340.5	301.0	256.9	211.0	168.6	129.5	99.7	73.6	53.3	34.8
-52.5°	329.6	294.5	256.9	215.8	175.7	139.5	109.3	81.7	62.9	44.5	28.6
-55°	280.4	246.8	211.5	176.5	142.9	114.1	89.4	70.0	52.2	36.1	22.9
-57.5°	228.9	199.4	168.5	140.0	114.6	92.8	73.6	57.2	41.8	28.4	18.4
-60°	180.4	154.4	130.6	110.1	91.4	74.2	59.7	45.2	32.1	21.8	14.2
-62.5°	134.9	116.3	100.4	84.6	72.0	58.9	45.8	34.0	24.0	16.7	10.3
-65°	99.1	86.6	73.8	65.5	55.0	43.6	33.4	24.5	17.9	11.9	7.1
-67.5°	69.6	62.9	55.2	46.8	38.6	30.3	23.0	17.6	12.3	7.9	4.9
-70°	48.9	42.9	36.6	31.0	25.4	20.0	16.1	11.4	7.7	5.0	3.5
-72.5°	30.3	26.5	22.7	18.8	16.5	13.1	9.0	6.6	4.7	3.4	2.5
-75°	16.7	15.3	13.7	11.4	8.5	6.7	5.0	3.9	3.1	2.4	2.0
-77.5°	9.3	7.7	6.7	5.5	4.5	3.5	3.0	2.6	2.2	1.9	1.6
-80°	4.6	4.1	3.5	3.1	2.7	2.4	2.1	1.9	1.6	1.4	1.2
-82.5°	2.9	2.6	2.4	2.2	1.9	1.6	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	1.4	1.2	1.1	0.9	0.8	0.8	0.8	0.9	0.9	0.9
-90°	1.9	1.8	1.8	1.8	1.7	1.7	1.6	1.6	1.5	1.5	1.4

Classified

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

Scaled Data Report



REPORT NUMBER: P670549 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: ARFL30DBZ-30W-5000K

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.9	0.9	0.9	1.0	1.0	1.0	1.0
87.5°	1.6	1.4	1.3	1.2	1.1	1.1	1.0
85°	1.9	1.6	1.4	1.3	1.2	1.1	1.0
82.5°	2.2	1.9	1.6	1.3	1.2	1.1	1.0
80°	2.8	2.2	1.8	1.5	1.2	1.1	1.0
77.5°	3.6	2.6	2.0	1.6	1.3	1.1	1.0
75°	5.1	3.2	2.2	1.7	1.3	1.1	1.0
72.5°	7.1	4.2	2.5	1.8	1.4	1.1	1.0
70°	9.4	5.5	3.1	2.0	1.4	1.1	1.0
67.5°	12.2	6.9	3.7	2.1	1.5	1.1	1.0
65°	15.4	8.7	4.5	2.4	1.6	1.1	1.0
62.5°	18.9	10.7	5.4	2.7	1.6	1.1	1.0
60°	23.5	12.9	6.2	3.0	1.7	1.2	1.0
57.5°	28.2	15.2	7.5	3.3	1.7	1.2	1.0
55°	32.8	17.8	8.8	3.8	1.8	1.2	1.0
52.5°	37.2	21.2	10.0	4.2	1.8	1.2	1.0
50°	42.1	24.4	11.4	4.5	2.0	1.2	1.0
47.5°	46.8	27.3	12.6	4.9	2.1	1.3	1.0
45°	51.8	29.9	13.9	5.6	2.2	1.3	1.0
42.5°	56.5	32.8	15.9	6.2	2.3	1.3	1.0
40°	61.6	35.8	17.7	6.7	2.3	1.3	1.0
37.5°	66.3	38.5	19.3	7.2	2.4	1.3	1.0
35°	70.7	41.3	20.7	7.7	2.5	1.3	1.0
32.5°	74.7	44.0	21.9	8.1	2.5	1.3	1.0
30°	78.2	46.4	23.0	8.5	2.6	1.3	1.0
27.5°	82.0	48.6	23.8	8.8	2.6	1.3	1.0
25°	85.2	50.9	24.6	9.0	2.6	1.3	1.0
22.5°	87.9	52.8	25.6	9.1	2.6	1.3	1.0
20°	90.1	54.4	26.4	9.3	2.6	1.3	1.0
17.5°	92.1	55.6	27.0	9.7	2.6	1.3	1.0
15°	93.4	56.6	27.4	9.9	2.5	1.3	1.0
12.5°	94.3	57.1	27.7	10.1	2.5	1.3	1.0
10°	94.5	57.4	27.7	10.1	2.4	1.3	1.0
7.5°	94.3	57.3	27.5	10.1	2.3	1.3	1.0
5°	93.5	56.8	27.1	9.9	2.2	1.3	1.0
2.5°	92.2	56.1	26.6	9.7	2.1	1.3	1.0
0°	90.4	55.0	25.9	9.4	2.0	1.3	1.0
-2.5°	89.9	54.7	25.7	9.3	2.0	1.2	1.0
-5°	89.0	54.1	25.4	9.1	2.0	1.2	1.0
-7.5°	87.6	53.2	24.9	8.9	2.0	1.2	1.0
-10°	85.8	52.0	24.3	8.6	2.0	1.2	1.0
-12.5°	83.5	50.5	23.5	8.2	2.0	1.2	1.0
-15°	80.9	48.6	22.6	7.8	1.9	1.2	1.0
-17.5°	77.8	46.6	21.5	7.2	1.9	1.2	1.0
-20°	74.4	44.2	20.3	6.6	1.9	1.2	1.0

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Scaled Data Report



REPORT NUMBER: P670549 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: ARFL30DBZ-30W-5000K

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	70.8	41.6	18.9	6.2	1.9	1.2	1.0
-25°	67.1	38.7	17.5	5.9	1.8	1.2	1.0
-27.5°	63.0	35.6	16.2	5.5	1.8	1.2	1.0
-30°	58.6	32.7	15.1	5.2	1.8	1.2	1.0
-32.5°	54.1	29.8	13.8	4.8	1.7	1.2	1.0
-35°	49.3	26.7	12.5	4.4	1.7	1.2	1.0
-37.5°	44.3	23.7	11.1	3.9	1.6	1.2	1.0
-40°	39.2	21.0	9.6	3.5	1.6	1.2	1.0
-42.5°	33.8	18.1	8.0	3.1	1.5	1.1	1.0
-45°	29.3	15.6	6.4	2.6	1.5	1.1	1.0
-47.5°	24.6	13.4	5.6	2.2	1.4	1.1	1.0
-50°	20.7	11.1	4.8	2.0	1.3	1.1	1.0
-52.5°	17.0	8.9	4.1	1.9	1.3	1.1	1.0
-55°	13.8	6.7	3.4	1.8	1.3	1.1	1.0
-57.5°	10.7	5.3	2.7	1.7	1.2	1.0	1.0
-60°	8.0	4.3	2.1	1.5	1.2	1.0	1.0
-62.5°	5.6	3.4	1.9	1.4	1.2	1.0	1.0
-65°	4.3	2.6	1.8	1.3	1.2	1.0	1.0
-67.5°	3.2	2.0	1.6	1.2	1.1	1.0	1.0
-70°	2.3	1.8	1.4	1.2	1.1	1.0	1.0
-72.5°	1.9	1.6	1.2	1.1	1.1	1.0	1.0
-75°	1.6	1.3	1.2	1.1	1.0	1.0	1.0
-77.5°	1.3	1.2	1.1	1.0	1.0	1.0	1.0
-80°	1.1	1.1	1.0	1.0	1.0	1.0	1.0
-82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0
-85°	0.9	0.9	0.9	1.0	1.0	1.0	1.0
-87.5°	0.9	0.9	0.9	1.0	1.0	1.0	1.0
-90°	1.4	1.3	1.2	1.2	1.1	1.1	1.0

(END OF REPORT)