

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: P670550 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: ARFL50DBZ-45W-2700K

Issue Date: 3/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P670550 (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: ARFL50DBZ-45W-2700K
Description: SLIM WALL OR FLOODLIGHT
Light Source:
Ballast/Driver: -

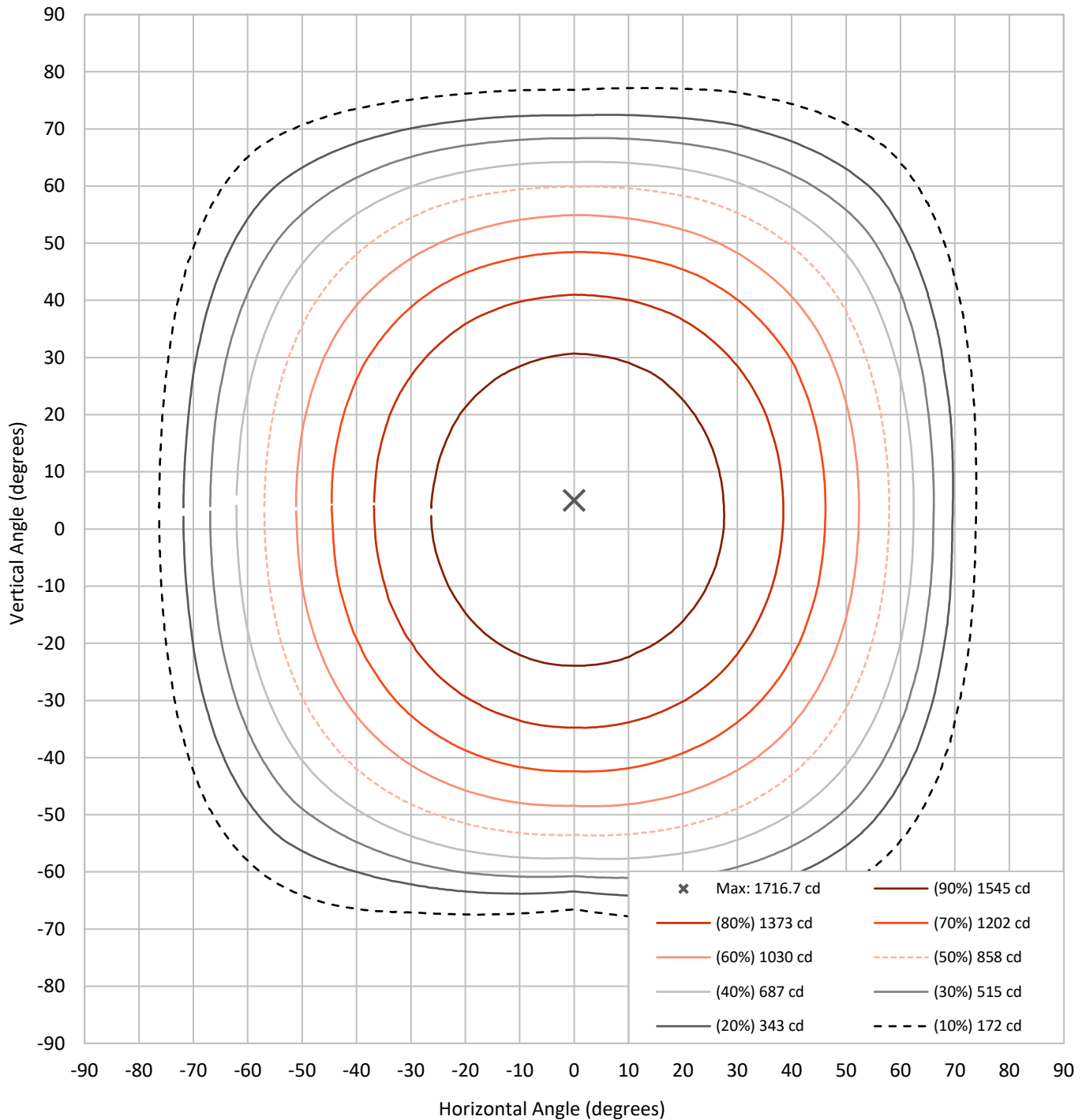
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	4766 lumens	Max Intensity:	1716.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 5°V
Efficacy:	110.6 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:	3818.3 lumens	Field Lumens:	4694.7 lumens
Beam Efficiency:	80.1%	Field Efficiency:	98.5%
Input Watts (W):	43.1		
Input Voltage (V):	120		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		



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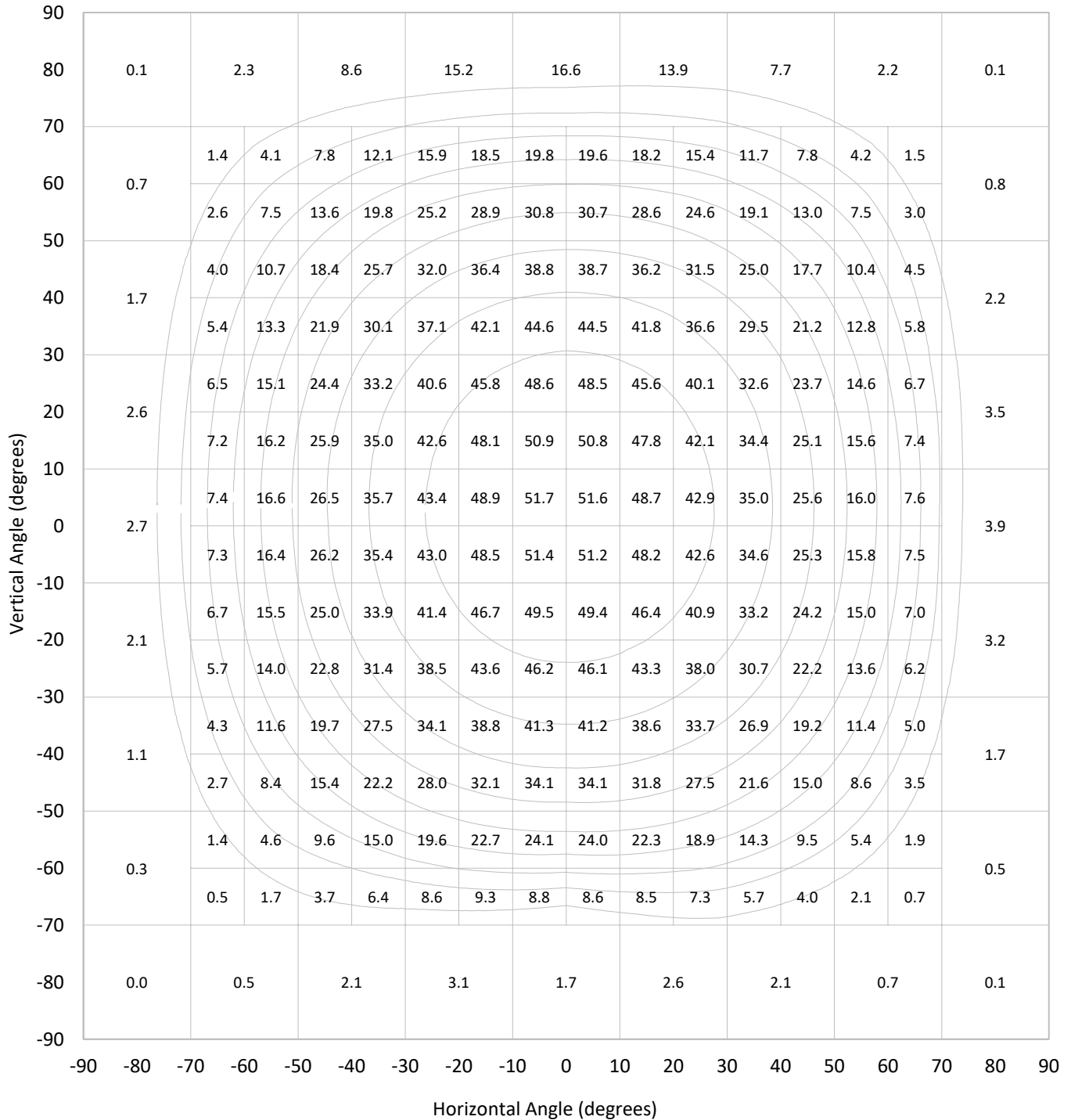
Iso-Candela Plot





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 CATALOG NUMBER: ARFL50DBZ-45W-2700K

Lumen Table



Classified

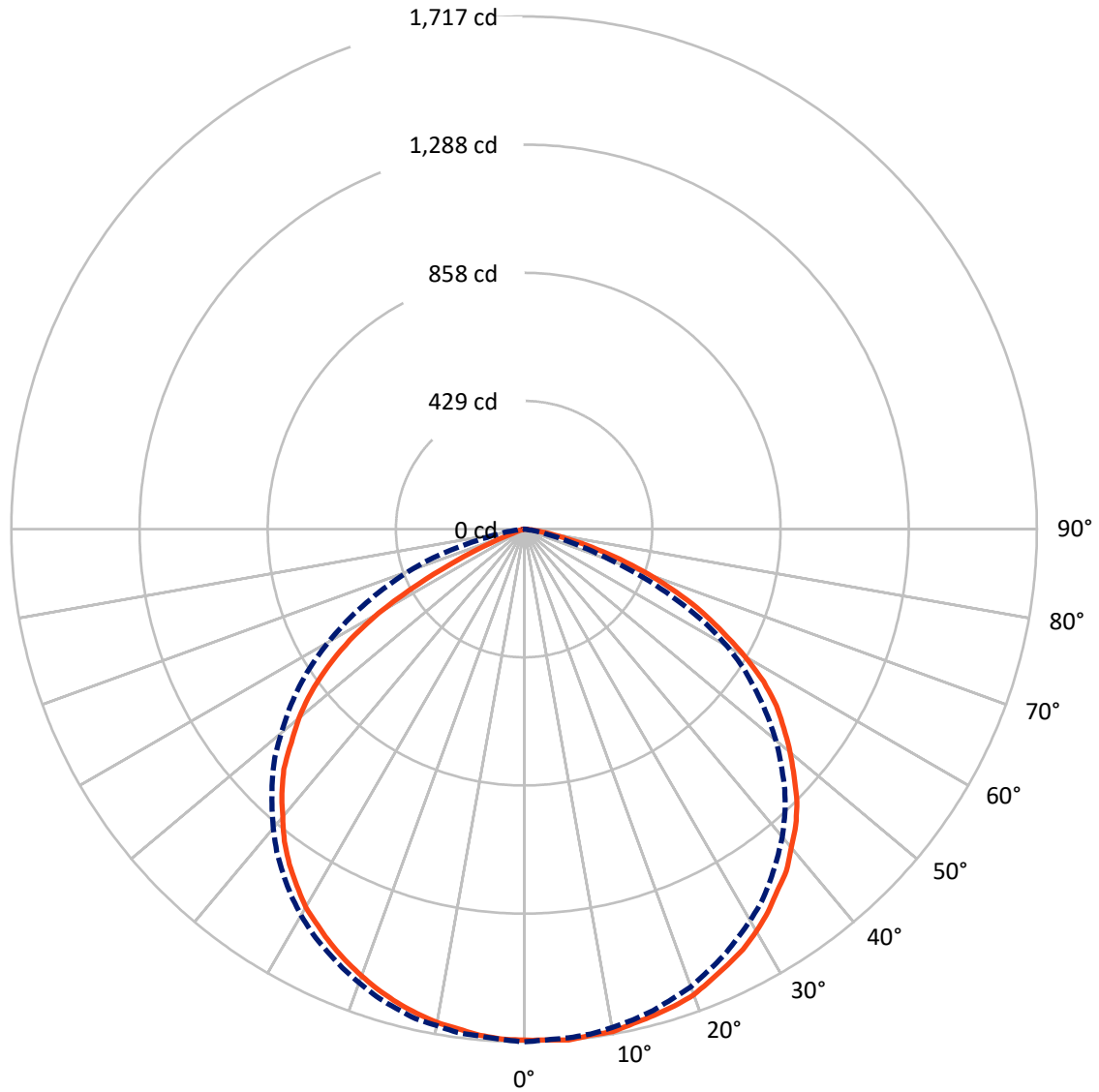
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
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Scaled Data Report



REPORT NUMBER: P670550 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: ARFL50DBZ-45W-2700K

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: 3818.3
 Efficiency: 80.1%

Field:
 H Angle: 150.2°
 V Angle: 143.3°
 Lumens: 4694.7
 Efficiency: 98.5%

Spill:
 Lumens: 71.3
 Efficiency: 1.5%

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



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	2.8	2.8	2.7	2.7	2.6	2.6	2.6	2.5	2.5	2.4	2.4
87.5°	2.8	2.9	2.9	3.0	3.1	3.3	3.4	3.6	3.8	4.0	4.2
85°	2.8	2.9	3.0	3.1	3.3	3.6	3.9	4.2	4.6	5.0	5.5
82.5°	2.8	2.9	3.0	3.3	3.5	3.9	4.3	4.9	5.7	6.6	8.0
80°	2.8	2.9	3.1	3.4	3.7	4.3	5.1	6.0	7.8	9.8	13.1
77.5°	2.8	2.9	3.2	3.5	4.0	4.8	6.2	8.2	11.5	16.4	21.8
75°	2.8	3.0	3.2	3.6	4.4	5.6	7.8	12.0	17.5	23.5	31.9
72.5°	2.8	3.0	3.3	3.8	4.7	6.8	10.9	16.6	23.2	34.3	47.9
70°	2.8	3.0	3.3	4.0	5.5	8.6	14.4	21.2	33.3	49.2	65.9
67.5°	2.8	3.0	3.3	4.2	6.2	11.2	17.9	29.5	46.5	64.7	83.7
65°	2.8	3.0	3.4	4.5	7.5	13.7	23.1	39.7	60.0	80.6	105.8
62.5°	2.8	3.0	3.5	5.0	9.1	16.3	30.0	51.9	72.5	100.0	132.0
60°	2.8	3.0	3.6	5.4	10.7	20.0	39.3	61.9	89.2	121.7	160.7
57.5°	2.8	3.0	3.7	5.8	12.4	25.1	49.1	73.8	107.0	145.1	192.1
55°	2.8	3.0	3.7	6.7	14.1	30.9	56.9	88.2	125.4	170.4	226.0
52.5°	2.8	3.0	3.8	7.6	16.1	38.6	65.0	102.5	144.0	197.9	256.2
50°	2.8	3.1	4.0	8.4	19.5	45.9	76.7	116.6	164.3	225.7	286.7
47.5°	2.8	3.1	4.2	9.2	22.8	51.5	88.1	130.9	186.1	251.6	317.3
45°	2.8	3.1	4.3	10.2	26.3	56.8	98.6	145.4	208.9	276.8	346.6
42.5°	2.8	3.1	4.5	11.0	31.4	63.7	108.6	159.9	230.4	302.3	373.2
40°	2.8	3.0	4.6	11.8	36.3	72.2	118.5	176.2	250.9	327.7	396.3
37.5°	2.8	3.0	4.7	12.5	40.8	80.3	127.7	192.9	269.7	350.1	420.7
35°	2.8	3.1	4.9	14.0	44.4	87.3	137.1	208.9	289.0	370.0	443.3
32.5°	2.8	3.1	5.2	15.5	47.4	93.5	146.1	224.2	308.8	387.3	463.1
30°	2.8	3.1	5.4	17.0	50.1	99.2	154.2	238.2	326.3	404.8	480.6
27.5°	2.8	3.1	5.6	18.3	52.6	104.4	164.2	250.2	341.5	421.7	496.4
25°	2.8	3.1	5.8	19.4	55.4	109.2	173.6	261.1	355.2	436.1	513.5
22.5°	2.8	3.1	5.9	20.4	59.5	113.3	181.9	272.0	365.9	448.5	529.0
20°	2.8	3.1	6.0	21.6	63.1	116.9	189.5	283.2	375.4	459.3	542.2
17.5°	2.8	3.1	6.1	23.2	66.3	119.9	196.6	293.1	383.7	468.0	553.5
15°	2.8	3.1	6.1	24.5	69.1	122.5	202.7	301.7	391.8	475.1	562.9
12.5°	2.8	3.1	6.1	25.5	71.4	124.7	207.6	308.4	398.4	480.9	570.3
10°	2.8	3.0	6.1	26.4	73.2	126.3	211.5	313.1	403.5	486.3	576.0
7.5°	2.8	3.0	6.1	26.9	74.5	127.3	214.2	316.4	407.2	490.4	580.0
5°	2.8	3.0	6.0	27.2	75.3	127.6	215.7	318.4	409.4	492.9	582.2
2.5°	2.8	3.0	5.9	27.3	75.7	127.3	216.1	319.1	410.1	493.6	582.7
0°	2.8	3.0	5.8	27.1	75.5	126.5	215.2	318.4	409.3	492.6	581.4
-2.5°	2.8	3.0	5.8	26.8	74.7	125.3	213.1	315.8	406.4	489.7	578.4
-5°	2.8	3.0	5.8	26.2	73.3	123.6	209.9	311.9	402.0	485.1	573.7
-7.5°	2.8	3.0	5.7	25.4	71.5	121.4	205.4	306.5	396.2	478.7	567.1
-10°	2.8	3.0	5.7	24.4	69.2	118.6	199.8	299.9	388.9	470.7	558.9
-12.5°	2.8	3.0	5.6	23.2	66.5	115.3	193.1	291.8	380.1	461.4	548.9
-15°	2.8	3.0	5.5	21.7	63.3	111.5	185.2	281.7	369.8	451.7	537.2
-17.5°	2.8	3.0	5.4	20.1	59.7	107.5	176.3	269.8	358.2	440.6	523.6
-20°	2.8	3.0	5.2	18.2	55.7	103.3	166.3	256.4	346.3	428.1	508.2



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 CATALOG NUMBER: ARFL50DBZ-45W-2700K

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	2.8	3.0	5.1	16.8	51.3	98.7	156.4	241.7	333.5	413.1	491.2
-25°	2.8	3.0	4.9	15.6	46.5	93.8	146.3	227.7	319.6	396.4	471.5
-27.5°	2.8	3.0	4.7	14.4	43.1	88.5	135.5	213.9	302.1	377.9	450.3
-30°	2.8	2.9	4.5	13.0	40.2	82.8	124.5	199.2	282.8	357.1	430.2
-32.5°	2.8	2.9	4.3	11.6	37.1	76.6	115.9	182.1	261.2	335.9	408.2
-35°	2.8	2.9	4.1	10.1	33.9	70.1	106.9	163.6	237.4	315.5	383.4
-37.5°	2.8	2.9	3.9	8.8	30.3	62.8	98.0	145.7	214.7	291.6	356.3
-40°	2.8	2.9	3.8	8.2	26.0	54.4	89.7	129.3	193.4	264.4	327.9
-42.5°	2.8	2.9	3.7	7.5	21.5	45.7	81.2	114.2	169.8	234.1	302.0
-45°	2.8	2.9	3.6	6.8	17.0	38.9	71.8	101.7	144.8	205.0	270.2
-47.5°	2.8	2.9	3.5	6.0	14.2	34.0	62.2	90.0	124.4	177.8	235.2
-50°	2.8	2.9	3.3	5.5	11.8	29.0	51.2	79.1	106.1	147.8	200.1
-52.5°	2.8	2.9	3.2	5.0	9.3	23.0	39.9	67.4	90.6	122.1	167.7
-55°	2.8	2.9	3.2	4.5	7.9	17.1	33.0	55.1	77.7	100.6	133.1
-57.5°	2.8	2.9	3.1	4.1	6.9	13.1	26.7	42.0	64.1	83.2	106.5
-60°	2.8	2.9	3.1	3.8	5.8	10.0	19.8	32.0	49.7	68.6	85.4
-62.5°	2.8	2.9	3.0	3.6	5.2	7.9	13.6	24.5	35.1	52.3	68.4
-65°	2.8	2.9	3.0	3.4	4.5	6.5	10.1	17.0	26.1	36.5	50.7
-67.5°	2.8	2.9	2.9	3.2	4.0	5.5	7.6	11.5	18.0	25.1	33.8
-70°	2.8	2.9	2.9	3.1	3.6	4.6	6.1	8.0	11.6	16.6	21.9
-72.5°	2.8	2.9	2.9	3.0	3.3	4.0	5.0	6.3	7.9	10.5	13.7
-75°	2.8	2.8	2.9	3.0	3.2	3.6	4.1	5.1	6.1	7.3	8.8
-77.5°	2.8	2.8	2.9	2.9	3.0	3.3	3.6	4.1	4.8	5.6	6.4
-80°	2.8	2.8	2.8	2.9	3.0	3.1	3.3	3.5	3.9	4.4	4.9
-82.5°	2.8	2.8	2.8	2.8	2.9	2.9	3.0	3.2	3.4	3.6	3.8
-85°	2.8	2.8	2.8	2.8	2.8	2.8	2.9	2.9	3.0	3.1	3.2
-87.5°	2.8	2.8	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.8
-90°	2.8	2.8	2.9	2.9	2.9	3.0	3.0	3.0	3.1	3.1	3.1



REPORT NUMBER: P670550 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL50DBZ-45W-2700K

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	2.3	2.3	2.4	2.6	2.7	2.9	3.0	3.2	3.3	3.4	3.6
87.5°	4.5	4.7	4.8	4.9	5.0	5.0	5.1	5.2	5.2	5.3	5.3
85°	6.2	7.0	7.4	7.7	8.1	8.8	9.4	9.9	10.5	10.9	11.3
82.5°	9.7	11.6	13.0	15.5	17.8	19.9	21.9	23.9	25.8	27.7	29.5
80°	17.6	22.6	26.0	29.0	32.5	37.6	42.4	47.0	51.9	56.6	60.8
77.5°	27.5	35.1	42.8	50.1	57.8	65.1	71.8	78.1	84.3	90.3	95.8
75°	42.9	55.7	66.8	76.0	84.9	94.0	103.1	114.7	125.2	136.0	145.5
72.5°	63.2	77.6	90.8	102.5	118.2	133.9	150.0	165.6	180.6	195.7	210.5
70°	82.3	100.4	121.7	142.5	163.7	185.9	207.5	228.8	248.8	268.8	288.2
67.5°	105.7	132.5	163.0	191.1	218.9	245.2	269.2	294.7	320.0	345.7	369.3
65°	135.9	171.3	211.8	245.0	272.3	302.8	332.5	361.8	390.0	417.2	445.3
62.5°	170.0	214.1	258.3	292.6	327.0	360.0	392.4	424.0	457.6	487.8	516.6
60°	207.4	255.3	300.8	341.6	377.9	413.2	450.8	486.3	520.1	554.0	587.4
57.5°	244.7	294.2	343.0	387.2	425.7	467.6	506.2	544.5	583.4	621.0	658.3
55°	279.2	333.1	383.3	429.9	475.3	517.6	560.6	604.1	645.5	688.8	731.6
52.5°	314.4	370.0	420.5	473.4	520.7	567.8	615.4	661.7	708.9	757.8	801.5
50°	348.4	403.6	460.2	513.1	566.3	617.8	668.3	719.0	771.7	817.6	860.0
47.5°	379.9	438.5	495.7	552.7	611.3	665.6	719.9	775.3	825.5	870.7	913.0
45°	408.0	471.0	530.2	593.0	652.4	711.0	770.3	824.9	873.7	919.7	966.3
42.5°	438.4	500.6	565.4	628.6	692.5	757.0	815.5	868.5	918.8	969.2	1014.9
40°	465.0	530.2	598.6	665.9	733.0	796.1	854.5	910.4	964.7	1014.8	1061.9
37.5°	489.2	559.6	629.1	698.5	767.7	831.8	893.6	952.3	1006.3	1057.9	1103.8
35°	512.4	587.0	660.1	733.1	801.4	866.5	928.8	989.5	1046.0	1095.8	1141.3
32.5°	536.4	611.1	686.1	760.8	830.0	896.8	961.7	1023.7	1080.9	1128.6	1175.9
30°	558.4	636.2	713.7	787.7	858.8	926.2	991.7	1054.3	1108.1	1160.7	1209.1
27.5°	578.1	658.0	736.9	811.3	883.2	952.3	1018.4	1079.3	1136.2	1188.5	1239.4
25°	595.3	676.4	757.1	833.1	905.5	975.8	1042.1	1100.5	1158.6	1214.0	1262.8
22.5°	611.8	695.2	775.5	853.3	925.6	996.1	1061.5	1123.4	1181.3	1235.5	1285.3
20°	627.6	712.0	791.5	869.4	943.5	1013.3	1077.8	1141.1	1200.1	1252.4	1303.2
17.5°	640.6	724.7	805.5	883.5	958.3	1028.1	1092.2	1156.8	1215.0	1269.1	1321.4
15°	650.1	735.4	817.5	895.0	970.4	1039.6	1107.0	1171.0	1226.8	1279.6	1334.4
12.5°	657.8	744.0	827.1	904.2	979.2	1048.4	1117.6	1180.8	1236.3	1290.4	1344.7
10°	663.8	750.5	834.4	911.7	985.5	1054.8	1124.6	1187.7	1244.2	1301.1	1352.6
7.5°	668.8	754.8	839.0	916.8	989.6	1059.0	1129.5	1191.3	1249.4	1305.2	1357.9
5°	671.5	757.0	841.5	919.5	991.4	1060.9	1132.4	1192.4	1249.7	1306.3	1360.6
2.5°	672.2	757.1	841.7	919.7	990.8	1060.3	1132.6	1191.0	1247.6	1304.8	1360.6
0°	670.8	755.1	839.7	917.5	987.8	1057.3	1130.0	1187.3	1243.4	1300.7	1357.5
-2.5°	667.4	752.0	836.2	914.2	984.6	1054.2	1126.1	1184.2	1240.9	1297.6	1353.6
-5°	662.0	746.9	830.5	908.4	979.1	1048.5	1119.4	1178.8	1236.3	1292.0	1346.7
-7.5°	654.5	739.7	822.5	900.0	971.1	1040.3	1109.8	1170.8	1229.2	1284.0	1336.9
-10°	644.9	730.3	812.3	889.1	960.9	1029.6	1098.2	1160.2	1216.6	1273.3	1323.6
-12.5°	634.2	718.7	799.8	875.7	948.4	1016.4	1084.3	1146.7	1200.7	1255.6	1307.2
-15°	621.9	704.9	785.2	860.9	933.3	1000.8	1067.1	1130.6	1184.2	1237.7	1289.1
-17.5°	607.7	688.9	768.3	844.0	916.3	982.6	1046.9	1109.2	1165.2	1219.9	1270.4
-20°	590.3	670.8	748.9	823.7	896.9	961.6	1025.1	1085.7	1142.7	1193.0	1245.0



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 CATALOG NUMBER: ARFL50DBZ-45W-2700K

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	570.5	649.4	727.5	800.7	871.9	937.8	1000.9	1060.8	1118.2	1169.2	1219.7
-25°	549.6	626.1	703.4	776.2	845.8	912.4	974.0	1032.8	1086.9	1139.0	1185.3
-27.5°	527.7	603.0	677.3	749.5	817.3	884.8	944.0	1002.3	1056.2	1107.8	1155.7
-30°	503.7	576.8	648.6	720.1	785.5	850.6	911.0	968.8	1022.7	1071.0	1120.1
-32.5°	477.8	548.0	616.9	687.0	753.1	815.5	877.9	931.6	985.3	1034.7	1079.9
-35°	449.5	518.6	585.8	652.4	718.4	776.9	836.8	893.6	944.4	993.2	1039.0
-37.5°	421.6	487.1	551.4	613.9	677.9	738.6	793.6	849.8	899.4	947.5	992.9
-40°	392.3	453.4	515.8	576.2	636.2	696.0	749.6	801.9	853.9	898.1	942.3
-42.5°	360.0	418.9	478.2	535.9	591.7	648.9	703.6	751.0	801.0	848.5	889.2
-45°	325.2	383.7	438.6	494.3	547.5	598.0	649.1	699.7	743.9	790.5	833.7
-47.5°	294.3	345.1	398.6	450.2	501.5	545.9	591.4	639.5	685.7	727.1	770.0
-50°	256.9	306.0	356.0	405.0	451.2	491.2	531.8	574.7	620.1	661.4	700.2
-52.5°	216.3	268.5	310.7	358.0	398.0	433.1	470.0	507.5	547.0	589.3	626.8
-55°	178.1	223.9	270.9	308.0	343.2	375.0	405.6	438.4	471.8	507.1	543.9
-57.5°	140.1	180.2	221.6	262.2	287.0	316.0	342.9	368.8	395.3	424.5	454.0
-60°	107.8	138.4	174.0	207.9	238.0	258.9	280.5	302.1	322.8	343.1	364.7
-62.5°	83.3	102.8	128.3	157.4	182.9	206.5	225.8	238.0	254.0	268.9	283.5
-65°	64.4	76.6	92.2	109.7	133.1	152.6	170.0	185.1	196.3	202.3	210.8
-67.5°	45.0	57.0	66.2	77.9	90.4	104.3	119.6	131.6	141.5	149.3	154.8
-70°	27.8	36.0	45.6	54.3	61.1	69.5	77.6	85.1	94.4	100.9	104.6
-72.5°	16.9	21.0	26.3	32.1	39.3	45.3	49.6	54.0	58.1	61.9	64.7
-75°	10.3	12.2	14.0	17.6	20.7	24.3	27.2	31.0	33.8	35.7	37.0
-77.5°	7.2	8.0	8.8	9.8	11.2	12.2	14.0	15.2	16.2	16.9	16.9
-80°	5.5	6.0	6.4	6.7	7.1	7.6	8.0	8.3	8.8	9.0	9.1
-82.5°	4.2	4.5	4.8	5.1	5.3	5.5	5.6	5.8	5.9	5.9	5.9
-85°	3.3	3.5	3.7	3.8	4.0	4.1	4.3	4.4	4.5	4.5	4.6
-87.5°	2.8	2.8	3.0	3.2	3.3	3.5	3.6	3.7	3.9	4.0	4.1
-90°	3.2	3.2	3.2	3.1	3.1	3.1	3.0	3.0	3.0	2.9	2.9



REPORT NUMBER: P670550 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL50DBZ-45W-2700K

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	3.7	3.9	4.0	3.8	3.6	3.4	3.2	3.0	2.8	2.5	2.3
87.5°	5.4	5.5	5.5	5.6	5.6	5.7	5.7	5.7	5.7	5.7	5.7
85°	12.1	12.9	13.6	14.2	14.7	15.1	15.4	15.6	15.7	15.8	15.7
82.5°	31.9	34.3	36.4	37.9	39.2	40.1	40.9	41.7	42.2	42.4	42.4
80°	64.7	68.3	71.6	74.0	76.1	77.9	79.4	80.6	81.5	82.1	82.3
77.5°	102.1	108.4	113.8	118.7	123.6	128.1	132.1	135.7	139.0	142.0	144.4
75°	154.6	162.8	169.6	179.1	188.9	197.6	205.8	213.8	220.4	225.8	229.9
72.5°	225.1	239.9	254.0	267.0	279.4	291.4	303.0	312.9	321.1	327.5	332.2
70°	307.9	328.5	347.3	363.9	378.9	392.4	404.6	415.4	424.4	431.8	437.5
67.5°	392.0	414.1	435.7	456.1	472.4	487.0	500.2	511.9	522.3	531.1	538.9
65°	471.8	495.7	518.2	539.3	559.1	577.5	593.3	607.4	620.1	631.5	640.8
62.5°	544.8	573.0	598.9	623.5	646.8	668.0	686.7	703.1	717.5	729.4	738.7
60°	619.2	650.8	682.4	713.3	741.1	764.6	785.0	801.4	815.8	827.3	836.7
57.5°	696.1	733.5	770.9	804.2	831.4	850.9	869.9	887.7	902.6	915.4	926.9
55°	775.4	812.7	845.2	876.1	903.2	923.2	942.7	961.5	979.7	995.0	1006.0
52.5°	840.6	877.1	908.8	937.3	966.5	991.8	1010.9	1030.4	1047.3	1061.1	1072.6
50°	898.8	933.3	969.9	999.1	1028.6	1054.6	1076.2	1095.1	1112.4	1127.6	1139.5
47.5°	954.0	991.0	1026.8	1059.4	1088.4	1115.8	1138.6	1158.1	1175.3	1190.2	1202.7
45°	1006.5	1046.4	1081.9	1115.5	1145.2	1173.8	1198.1	1218.1	1234.8	1249.9	1262.9
42.5°	1058.0	1097.2	1132.7	1167.2	1199.7	1227.4	1251.1	1271.6	1290.2	1306.4	1319.8
40°	1104.4	1142.8	1181.2	1215.4	1246.6	1274.8	1301.0	1324.2	1342.3	1357.1	1368.6
37.5°	1146.0	1186.9	1224.5	1259.1	1290.6	1322.2	1348.1	1368.8	1384.8	1402.1	1415.7
35°	1185.1	1226.6	1264.7	1300.2	1333.1	1362.0	1387.1	1410.2	1428.3	1444.5	1457.3
32.5°	1221.5	1263.0	1302.2	1337.5	1369.3	1398.9	1424.4	1448.0	1466.6	1481.2	1493.9
30°	1254.7	1296.5	1335.4	1371.0	1403.0	1432.4	1458.3	1480.7	1499.3	1512.2	1525.9
27.5°	1283.4	1326.2	1366.0	1401.1	1433.4	1461.6	1485.9	1506.7	1528.7	1544.1	1556.3
25°	1310.0	1354.3	1392.7	1428.1	1458.1	1485.9	1511.1	1534.7	1553.1	1573.6	1585.9
22.5°	1333.9	1377.5	1416.3	1449.1	1479.9	1509.4	1534.7	1558.8	1578.0	1599.1	1609.2
20°	1353.5	1397.3	1435.5	1467.8	1501.5	1529.5	1556.2	1577.9	1598.7	1617.8	1628.4
17.5°	1369.3	1413.4	1449.3	1487.5	1519.0	1546.4	1570.4	1594.1	1617.4	1631.9	1648.5
15°	1383.2	1425.1	1463.0	1500.8	1530.8	1557.9	1584.4	1609.7	1629.4	1646.9	1661.1
12.5°	1394.4	1434.5	1476.6	1512.5	1542.9	1568.5	1596.3	1620.4	1642.2	1659.7	1673.9
10°	1400.1	1441.7	1485.1	1519.7	1548.3	1579.8	1606.2	1630.8	1651.0	1668.9	1682.8
7.5°	1404.2	1448.5	1490.3	1526.5	1554.4	1587.0	1612.4	1638.3	1660.0	1672.9	1688.0
5°	1407.2	1452.5	1493.3	1530.0	1560.0	1589.9	1616.4	1641.7	1660.6	1679.0	1687.8
2.5°	1407.6	1453.3	1493.4	1528.5	1562.9	1590.0	1617.1	1642.2	1660.9	1677.4	1691.3
0°	1404.9	1450.8	1490.7	1525.3	1562.2	1587.4	1614.6	1639.0	1659.8	1675.5	1691.8
-2.5°	1400.4	1445.8	1485.0	1521.6	1556.8	1583.2	1608.8	1633.1	1652.6	1668.3	1682.5
-5°	1392.5	1437.8	1477.3	1515.7	1547.6	1576.7	1601.4	1624.3	1641.4	1660.4	1671.2
-7.5°	1381.4	1427.1	1468.3	1505.0	1535.2	1566.3	1591.2	1613.9	1629.5	1646.8	1662.6
-10°	1369.2	1414.9	1454.9	1490.6	1522.7	1553.0	1576.4	1595.2	1614.9	1631.4	1648.9
-12.5°	1357.5	1399.2	1437.0	1468.1	1506.3	1535.7	1560.7	1584.2	1601.8	1616.7	1629.9
-15°	1339.8	1378.7	1418.3	1456.1	1486.8	1517.8	1543.4	1566.6	1585.8	1600.0	1610.2
-17.5°	1316.4	1358.0	1399.4	1429.6	1459.4	1494.1	1521.2	1543.6	1565.0	1580.9	1593.8
-20°	1290.8	1336.9	1371.0	1409.3	1440.4	1466.4	1495.1	1518.9	1537.9	1555.2	1571.0



REPORT NUMBER: P670550 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL50DBZ-45W-2700K

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	1265.6	1306.6	1346.7	1380.4	1413.5	1443.1	1466.2	1490.6	1509.6	1525.5	1539.3
-25°	1235.2	1276.9	1318.0	1350.6	1382.0	1412.6	1437.6	1458.3	1482.8	1493.6	1507.6
-27.5°	1200.7	1245.0	1282.0	1320.1	1348.5	1375.4	1403.3	1425.7	1445.8	1460.8	1477.5
-30°	1164.5	1207.5	1247.2	1280.2	1313.7	1339.0	1363.5	1384.1	1408.0	1423.4	1436.9
-32.5°	1125.5	1165.3	1204.9	1241.2	1271.1	1299.9	1323.5	1344.1	1362.5	1377.9	1392.0
-35°	1081.5	1123.3	1159.1	1193.3	1226.6	1256.7	1278.5	1301.0	1318.5	1332.8	1346.5
-37.5°	1035.4	1074.6	1112.7	1145.6	1173.3	1203.8	1230.1	1253.2	1267.8	1284.0	1296.8
-40°	984.0	1023.1	1059.8	1093.0	1125.6	1148.6	1171.3	1195.0	1214.3	1230.3	1242.9
-42.5°	928.4	966.1	1001.5	1036.1	1065.5	1091.7	1118.3	1136.7	1153.6	1168.4	1181.3
-45°	872.4	905.8	939.0	970.9	999.8	1028.9	1052.2	1071.6	1088.4	1104.3	1116.5
-47.5°	809.8	845.9	875.7	903.3	930.0	955.8	979.9	1000.9	1019.0	1032.8	1043.5
-50°	738.8	775.9	808.4	837.3	861.3	883.2	904.1	924.3	941.8	956.4	967.7
-52.5°	662.6	695.0	729.4	760.1	786.4	808.9	828.8	846.0	861.5	874.0	884.4
-55°	582.0	612.4	641.3	668.1	694.8	721.1	741.0	758.2	772.2	783.8	792.6
-57.5°	485.1	516.9	549.0	575.4	597.0	616.9	635.8	652.9	667.9	680.0	689.1
-60°	388.7	412.2	437.1	461.9	485.0	505.2	522.8	534.9	545.7	555.0	562.4
-62.5°	297.8	311.0	328.0	344.8	361.0	376.0	389.5	400.6	409.4	415.3	418.4
-65°	218.7	225.7	233.5	240.6	249.2	256.2	264.6	270.4	273.9	275.7	275.0
-67.5°	156.9	156.3	156.9	157.9	161.4	163.7	164.5	165.2	163.8	160.4	156.0
-70°	106.6	107.2	105.7	104.3	104.0	102.4	99.3	95.0	90.8	85.0	77.8
-72.5°	67.1	68.1	67.0	65.9	65.4	64.3	62.7	59.9	56.0	51.3	46.1
-75°	38.0	38.3	37.7	38.2	38.6	38.3	37.3	35.8	33.6	30.9	27.7
-77.5°	17.1	17.2	16.6	17.1	18.0	18.5	18.4	18.0	17.2	16.1	14.7
-80°	9.1	8.9	8.3	8.0	7.7	7.5	7.2	6.9	6.5	6.1	5.7
-82.5°	6.0	6.0	6.0	5.7	5.5	5.2	4.9	4.5	4.2	3.8	3.4
-85°	4.6	4.6	4.6	4.4	4.2	3.9	3.6	3.4	3.1	2.8	2.5
-87.5°	4.2	4.3	4.4	4.2	3.9	3.6	3.4	3.1	2.9	2.6	2.4
-90°	2.9	2.8	2.8	2.8	2.7	2.7	2.7	2.6	2.6	2.6	2.5



REPORT NUMBER: P670550 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL50DBZ-45W-2700K

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	2.1	1.9	1.7	1.5	1.7	1.8	2.0	2.1	2.3	2.5	2.6
87.5°	5.7	5.7	5.7	5.7	5.8	5.9	6.1	6.2	6.3	6.4	6.5
85°	15.6	15.4	15.2	14.9	15.6	16.2	16.7	17.2	17.5	17.8	18.0
82.5°	42.1	41.7	41.0	40.1	41.6	43.0	44.2	45.1	45.7	46.1	46.3
80°	82.2	81.8	81.0	79.9	82.7	85.2	87.2	88.9	90.1	90.9	91.2
77.5°	146.1	147.1	147.4	147.0	150.8	153.9	156.2	157.7	158.6	158.6	157.9
75°	232.8	234.4	234.9	234.2	237.8	240.3	241.6	241.9	241.0	239.0	235.9
72.5°	335.5	337.3	337.7	336.6	339.2	340.4	340.2	338.6	335.6	331.5	326.2
70°	441.6	444.0	444.8	443.9	446.1	446.6	445.5	442.8	438.4	432.3	424.6
67.5°	545.1	549.5	552.0	552.4	553.8	553.2	550.7	546.6	540.8	533.2	523.9
65°	648.1	653.3	656.5	657.5	658.5	657.4	654.2	649.0	641.7	632.4	621.1
62.5°	745.3	749.5	751.4	751.0	753.4	753.6	751.7	747.5	740.7	731.3	719.5
60°	844.3	849.8	853.0	853.7	855.1	854.0	850.4	844.6	836.6	826.4	814.0
57.5°	936.1	943.3	948.3	951.0	950.4	947.6	942.5	935.1	925.0	913.0	899.6
55°	1015.2	1022.5	1027.9	1031.1	1029.9	1026.6	1021.1	1013.5	1003.9	991.4	976.9
52.5°	1081.8	1088.6	1093.3	1095.7	1094.9	1091.9	1086.4	1078.7	1069.3	1058.0	1043.9
50°	1148.9	1155.9	1160.6	1162.9	1162.8	1160.2	1154.8	1146.6	1135.8	1123.2	1107.9
47.5°	1212.5	1219.2	1223.5	1225.5	1225.2	1222.4	1217.1	1209.3	1199.2	1187.4	1173.7
45°	1273.8	1282.3	1288.3	1291.5	1289.6	1285.1	1278.2	1269.3	1258.2	1245.3	1229.5
42.5°	1330.3	1338.1	1343.5	1346.2	1344.5	1340.2	1333.4	1324.8	1314.0	1298.7	1281.7
40°	1377.5	1384.3	1388.8	1391.1	1390.5	1387.5	1382.2	1374.6	1363.7	1349.2	1331.7
37.5°	1426.4	1434.5	1440.0	1443.0	1442.1	1439.4	1433.9	1423.4	1409.8	1394.8	1379.6
35°	1466.7	1472.8	1476.3	1477.7	1478.1	1476.6	1472.7	1465.1	1452.4	1442.4	1423.9
32.5°	1503.7	1511.0	1516.4	1519.6	1518.1	1514.2	1508.4	1500.9	1490.5	1478.5	1461.0
30°	1537.4	1545.6	1551.5	1554.9	1553.0	1548.9	1543.1	1533.9	1521.6	1508.9	1493.6
27.5°	1568.5	1577.1	1583.0	1586.6	1584.5	1579.8	1573.4	1564.4	1551.5	1540.9	1519.0
25°	1598.1	1604.2	1608.2	1610.3	1609.5	1606.4	1600.5	1591.8	1580.6	1564.9	1545.1
22.5°	1619.9	1628.8	1632.0	1634.3	1633.5	1630.7	1624.7	1616.0	1604.3	1587.1	1568.3
20°	1639.6	1649.1	1655.6	1659.5	1657.3	1650.9	1642.4	1637.3	1625.3	1608.3	1588.9
17.5°	1655.7	1665.5	1671.3	1674.3	1672.1	1668.1	1663.3	1656.0	1639.6	1627.2	1605.9
15°	1673.2	1680.2	1683.4	1684.8	1684.8	1682.3	1674.1	1665.2	1654.7	1640.5	1623.2
12.5°	1685.1	1692.2	1695.4	1695.3	1695.1	1692.0	1688.8	1678.1	1663.7	1648.8	1636.2
10°	1693.9	1702.5	1707.3	1708.2	1708.8	1704.4	1694.5	1685.9	1674.9	1657.2	1641.4
7.5°	1697.7	1706.9	1708.1	1709.1	1709.5	1709.3	1703.5	1688.7	1677.7	1665.4	1643.9
5°	1700.4	1704.0	1710.5	1716.7	1711.8	1709.7	1705.1	1695.1	1682.7	1668.7	1648.9
2.5°	1700.7	1707.0	1711.7	1712.1	1710.0	1709.0	1704.0	1696.6	1683.9	1669.5	1650.3
0°	1699.6	1702.5	1705.4	1711.1	1710.5	1708.0	1702.7	1691.9	1683.8	1669.2	1648.7
-2.5°	1695.0	1702.1	1706.3	1708.8	1708.4	1709.0	1702.3	1690.2	1679.6	1662.5	1643.2
-5°	1687.0	1693.1	1697.0	1701.3	1701.9	1702.0	1692.6	1684.4	1671.5	1651.8	1635.4
-7.5°	1675.1	1683.9	1686.9	1687.7	1691.0	1689.0	1683.5	1675.4	1658.1	1640.5	1623.4
-10°	1662.7	1673.9	1676.9	1677.3	1678.4	1676.2	1670.0	1657.2	1641.7	1628.4	1610.5
-12.5°	1643.8	1653.5	1659.7	1661.0	1661.9	1657.5	1648.6	1639.4	1625.6	1610.6	1591.7
-15°	1623.8	1631.7	1638.9	1641.6	1640.7	1636.8	1629.1	1615.4	1605.7	1589.9	1575.6
-17.5°	1601.1	1608.8	1615.4	1618.2	1616.5	1610.9	1604.6	1594.3	1582.9	1570.4	1553.4
-20°	1579.3	1586.3	1590.9	1592.0	1591.0	1586.8	1579.7	1570.0	1560.8	1545.5	1528.2



REPORT NUMBER: P670550 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL50DBZ-45W-2700K

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	1551.3	1559.3	1563.0	1563.4	1563.0	1559.9	1555.3	1545.1	1529.0	1516.8	1499.7
-25°	1518.9	1525.9	1530.1	1531.3	1531.0	1527.4	1520.2	1511.9	1499.0	1486.7	1471.2
-27.5°	1485.2	1490.8	1495.1	1496.4	1496.2	1492.8	1487.5	1480.0	1468.3	1453.7	1435.2
-30°	1448.0	1455.3	1460.0	1461.8	1461.5	1458.1	1451.9	1442.1	1429.6	1415.0	1396.7
-32.5°	1404.3	1411.6	1415.0	1415.7	1416.1	1413.6	1407.8	1398.5	1387.2	1372.4	1354.3
-35°	1356.3	1363.6	1368.4	1370.1	1370.2	1367.0	1360.6	1351.8	1340.9	1327.6	1310.5
-37.5°	1306.8	1313.3	1316.8	1317.6	1318.3	1316.2	1311.0	1302.1	1290.9	1278.0	1257.0
-40°	1250.2	1255.0	1257.4	1257.2	1259.0	1257.7	1252.8	1244.3	1234.1	1220.9	1203.8
-42.5°	1191.0	1197.1	1200.1	1200.2	1201.2	1199.4	1194.6	1187.0	1176.9	1162.5	1145.5
-45°	1125.6	1132.4	1136.5	1137.3	1137.8	1134.9	1129.2	1121.0	1110.9	1099.0	1084.2
-47.5°	1051.3	1055.9	1057.7	1056.6	1059.4	1059.4	1056.6	1050.5	1041.5	1029.9	1015.0
-50°	976.2	981.7	984.3	984.0	986.4	985.7	981.9	975.1	965.4	953.3	938.4
-52.5°	892.4	897.7	900.2	899.7	902.2	901.8	898.5	892.6	884.2	873.7	859.5
-55°	799.1	802.9	803.7	801.5	805.6	806.5	804.6	800.0	793.1	783.5	771.5
-57.5°	694.2	696.3	695.4	691.5	697.3	700.2	700.1	697.1	690.8	681.8	670.2
-60°	567.3	569.3	567.9	562.8	570.5	574.5	575.1	572.9	568.3	562.0	554.2
-62.5°	418.5	415.4	408.9	399.1	412.2	422.1	428.9	433.1	434.7	434.1	431.5
-65°	271.7	265.8	257.2	245.8	262.0	275.5	286.4	294.7	300.6	304.1	306.9
-67.5°	150.2	142.5	132.9	121.3	138.4	153.6	166.7	177.8	187.4	196.4	203.4
-70°	69.4	59.9	49.6	38.6	54.5	69.6	83.8	96.6	107.9	117.4	124.8
-72.5°	40.1	33.5	26.5	19.2	29.1	38.7	47.6	55.7	62.9	69.1	74.1
-75°	24.1	20.2	16.0	11.7	17.0	22.1	27.0	31.4	35.2	38.4	40.8
-77.5°	13.1	11.2	9.3	7.2	9.5	11.7	13.8	15.6	17.1	18.2	19.1
-80°	5.2	4.7	4.2	3.6	4.4	5.1	5.9	6.5	7.1	7.6	8.1
-82.5°	3.0	2.6	2.2	1.8	2.2	2.7	3.2	3.6	4.0	4.5	4.8
-85°	2.2	1.9	1.6	1.3	1.6	1.9	2.2	2.5	2.8	3.1	3.4
-87.5°	2.1	1.9	1.6	1.4	1.5	1.7	1.9	2.1	2.3	2.5	2.7
-90°	2.5	2.5	2.4	2.4	2.5	2.5	2.6	2.6	2.7	2.8	2.8



REPORT NUMBER: P670550 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL50DBZ-45W-2700K

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	2.8	2.9	3.1	3.2	3.4	3.2	3.0	2.9	2.7	2.5	2.3
87.5°	6.5	6.6	6.6	6.6	6.6	6.4	6.1	5.8	5.6	5.4	5.1
85°	18.1	18.0	17.9	17.6	17.2	16.1	15.0	13.9	13.0	12.2	11.2
82.5°	46.1	45.8	45.3	44.4	43.1	40.4	37.5	34.7	32.3	29.8	27.2
80°	91.1	90.4	89.3	87.4	84.5	79.2	73.6	68.2	63.4	58.2	52.7
77.5°	156.4	154.0	150.7	146.4	140.6	131.2	121.5	112.6	105.0	97.2	88.8
75°	231.7	227.5	222.9	217.6	209.5	196.9	183.9	170.4	156.7	142.9	129.7
72.5°	319.6	312.0	304.2	296.2	284.7	267.8	249.6	231.5	213.4	195.0	177.9
70°	415.4	404.8	392.9	380.3	364.2	344.7	323.1	301.4	280.2	257.2	233.1
67.5°	512.7	500.2	486.2	470.6	449.4	426.1	402.8	378.6	353.1	323.6	294.3
65°	607.8	592.6	577.2	561.0	537.2	511.1	483.5	454.1	423.7	395.2	364.4
62.5°	704.9	687.2	667.4	646.1	620.6	593.6	566.8	534.9	499.8	463.4	426.8
60°	799.6	782.9	763.6	738.6	707.9	675.5	644.4	611.1	577.0	539.3	496.4
57.5°	885.8	869.5	849.8	823.9	793.4	760.3	724.3	685.7	648.1	609.0	568.3
55°	960.4	942.2	921.0	896.4	868.9	835.3	799.6	760.5	718.9	674.7	632.3
52.5°	1027.3	1008.4	986.9	961.1	932.2	900.0	867.3	827.2	785.7	740.4	692.8
50°	1088.7	1069.7	1047.4	1020.5	991.9	960.4	925.4	887.3	846.0	800.5	752.0
47.5°	1153.7	1131.4	1106.5	1076.6	1047.9	1015.1	980.4	942.4	900.2	856.1	805.8
45°	1211.6	1191.9	1166.6	1134.2	1103.5	1067.1	1031.3	992.9	951.4	905.5	857.2
42.5°	1264.4	1243.6	1216.8	1189.0	1156.7	1120.8	1080.4	1040.2	997.7	952.5	902.4
40°	1313.3	1288.0	1263.7	1237.1	1204.1	1169.8	1129.3	1087.4	1041.3	995.0	945.5
37.5°	1358.5	1333.8	1307.0	1278.0	1248.1	1212.4	1174.5	1130.7	1085.5	1034.8	984.6
35°	1400.1	1376.0	1347.8	1318.4	1286.3	1251.5	1214.2	1171.9	1125.2	1074.1	1020.4
32.5°	1441.0	1414.0	1385.7	1354.8	1323.6	1287.3	1249.1	1207.9	1161.8	1113.3	1052.7
30°	1473.6	1447.7	1421.4	1389.2	1354.7	1321.5	1282.5	1241.6	1194.8	1142.2	1087.0
27.5°	1500.2	1478.7	1451.0	1420.1	1386.2	1348.2	1311.0	1270.3	1225.9	1170.1	1112.4
25°	1523.7	1503.2	1477.0	1447.5	1412.1	1376.3	1336.2	1291.0	1244.9	1194.0	1136.3
22.5°	1546.4	1522.7	1500.3	1470.7	1438.6	1399.7	1357.5	1317.7	1269.9	1218.1	1158.1
20°	1565.6	1542.3	1514.3	1489.5	1457.5	1419.1	1379.2	1333.6	1283.7	1233.6	1176.1
17.5°	1584.8	1557.9	1532.7	1502.0	1471.7	1437.3	1394.5	1349.7	1304.3	1251.1	1192.4
15°	1598.3	1572.2	1546.5	1517.3	1488.7	1450.1	1407.8	1364.7	1316.6	1263.3	1206.7
12.5°	1612.0	1587.3	1555.5	1528.5	1494.3	1460.1	1421.2	1375.7	1327.0	1272.0	1216.7
10°	1621.4	1594.3	1565.9	1535.4	1502.3	1468.1	1428.3	1383.2	1335.6	1282.2	1225.2
7.5°	1629.3	1601.1	1575.3	1540.8	1509.7	1476.1	1433.7	1388.0	1341.5	1289.3	1231.1
5°	1631.2	1603.8	1577.6	1544.9	1513.7	1479.0	1436.6	1391.3	1344.5	1292.3	1234.1
2.5°	1630.2	1603.7	1578.1	1546.4	1515.3	1478.1	1437.0	1391.9	1344.8	1292.7	1234.3
0°	1628.1	1600.8	1576.4	1545.2	1514.0	1475.7	1434.6	1389.7	1342.5	1290.7	1231.8
-2.5°	1622.7	1596.1	1571.3	1540.3	1509.0	1470.9	1429.5	1384.8	1337.9	1286.0	1227.3
-5°	1613.6	1588.8	1564.0	1532.9	1500.9	1464.4	1421.9	1377.3	1330.9	1278.6	1220.3
-7.5°	1601.5	1578.9	1554.8	1521.0	1489.9	1454.5	1411.7	1367.2	1321.4	1268.6	1210.7
-10°	1589.7	1565.5	1540.1	1506.5	1474.6	1440.7	1398.7	1354.3	1309.4	1255.5	1198.8
-12.5°	1573.2	1551.7	1524.1	1495.8	1457.5	1423.4	1382.6	1338.8	1293.5	1240.1	1182.5
-15°	1554.3	1531.8	1501.4	1475.6	1443.4	1404.1	1363.8	1321.5	1275.0	1221.8	1162.9
-17.5°	1533.9	1509.4	1484.9	1448.4	1420.0	1382.6	1341.8	1301.5	1254.0	1201.0	1141.8
-20°	1508.2	1486.1	1456.1	1429.9	1394.1	1357.5	1318.6	1277.2	1230.5	1177.9	1119.0



REPORT NUMBER: P670550 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL50DBZ-45W-2700K

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	1481.7	1457.1	1432.5	1399.9	1366.8	1329.1	1293.0	1250.3	1201.8	1149.1	1093.6
-25°	1449.3	1428.0	1399.6	1369.7	1336.5	1301.8	1262.8	1221.6	1173.4	1119.5	1063.7
-27.5°	1415.9	1391.8	1365.2	1336.3	1304.3	1268.3	1230.3	1185.7	1138.3	1087.9	1033.5
-30°	1376.8	1353.5	1328.4	1300.0	1266.4	1231.7	1191.8	1149.7	1102.6	1051.8	994.9
-32.5°	1335.8	1313.0	1288.2	1257.3	1226.1	1190.5	1152.7	1109.4	1062.4	1012.9	956.4
-35°	1291.5	1265.4	1241.1	1213.1	1180.5	1147.4	1108.3	1065.9	1021.1	967.0	915.4
-37.5°	1238.0	1216.1	1192.8	1163.3	1134.1	1099.3	1060.6	1019.4	970.4	924.0	873.1
-40°	1185.0	1161.7	1139.9	1113.1	1082.0	1046.3	1008.4	964.6	922.9	875.2	826.2
-42.5°	1127.9	1108.3	1083.7	1056.0	1023.2	988.3	949.7	912.3	869.3	824.5	774.8
-45°	1066.5	1045.3	1019.2	990.5	959.7	927.3	892.5	855.1	813.4	767.6	717.4
-47.5°	995.2	972.8	949.4	923.6	896.6	864.6	831.1	792.5	750.8	704.7	656.5
-50°	920.7	901.8	880.4	855.5	828.4	796.9	761.5	723.2	681.8	638.6	594.4
-52.5°	843.5	825.9	805.3	780.0	751.2	719.4	685.2	648.7	610.6	569.9	524.6
-55°	756.5	739.0	717.9	693.4	666.5	637.1	605.8	571.6	534.4	492.5	446.4
-57.5°	656.2	640.6	624.0	603.6	578.5	550.6	520.1	485.2	447.5	410.4	371.9
-60°	545.4	534.6	522.8	506.2	481.4	453.5	423.9	394.8	364.1	330.5	294.6
-62.5°	426.4	418.9	410.2	398.8	378.9	357.7	334.2	308.8	281.4	253.3	222.8
-65°	308.2	307.5	305.0	300.5	286.0	268.3	248.8	227.7	204.9	182.4	161.5
-67.5°	208.3	211.6	212.4	211.2	200.7	186.3	171.2	156.3	141.3	128.0	114.4
-70°	130.7	134.1	134.8	134.5	129.0	120.5	111.8	103.1	94.0	86.0	78.6
-72.5°	77.7	79.5	80.3	80.1	77.3	73.2	68.9	64.4	59.7	54.4	49.0
-75°	42.3	43.2	43.5	42.8	41.2	39.8	37.7	35.4	33.3	30.4	27.5
-77.5°	19.9	20.4	20.5	20.2	19.6	19.0	18.0	17.1	16.8	16.1	15.0
-80°	8.4	8.7	8.8	9.0	9.3	9.6	9.4	9.1	8.7	8.1	7.3
-82.5°	5.2	5.5	5.9	6.2	6.4	6.1	5.8	5.5	5.2	4.8	4.5
-85°	3.6	3.9	4.1	4.3	4.5	4.2	4.0	3.8	3.5	3.3	3.0
-87.5°	2.9	3.1	3.3	3.5	3.7	3.5	3.3	3.1	2.9	2.6	2.4
-90°	2.9	2.9	3.0	3.0	3.1	3.0	3.0	2.9	2.9	2.8	2.8



REPORT NUMBER: P670550 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL50DBZ-45W-2700K

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	2.1	1.9	1.7	1.6	1.4	1.2	1.2	1.2	1.3	1.3	1.3
87.5°	4.9	4.7	4.4	4.2	4.0	3.7	3.4	3.1	2.9	2.7	2.5
85°	10.2	9.1	7.9	7.2	6.6	6.0	5.2	4.5	3.9	3.5	3.1
82.5°	24.5	22.0	19.5	16.8	14.0	12.0	9.5	7.2	5.7	4.7	3.9
80°	47.5	42.2	36.7	32.3	28.2	23.7	18.3	13.5	9.8	7.2	5.0
77.5°	80.0	70.9	62.9	54.5	46.7	38.5	29.9	22.8	16.6	11.4	7.7
75°	116.6	105.7	94.9	83.4	71.6	59.3	45.3	33.9	24.7	17.3	11.6
72.5°	160.9	144.4	128.4	113.1	99.9	83.5	65.0	48.7	35.0	24.1	16.2
70°	208.9	185.9	165.6	146.7	128.4	107.4	86.4	66.2	48.2	32.9	21.6
67.5°	267.0	238.6	209.1	181.3	158.6	133.1	107.2	84.1	62.8	43.8	28.4
65°	329.6	292.8	260.3	227.7	192.1	159.3	130.0	102.3	77.6	55.6	36.3
62.5°	393.7	357.6	314.6	274.4	235.7	190.4	153.2	121.9	92.8	67.4	45.6
60°	453.1	412.3	374.5	329.1	276.5	227.6	180.3	141.8	109.1	79.6	54.7
57.5°	521.1	470.9	422.9	382.4	325.4	263.8	212.2	163.2	125.8	92.7	64.0
55°	586.7	536.3	479.5	425.1	370.7	305.9	243.1	190.2	142.7	106.1	73.4
52.5°	645.3	595.9	540.9	474.0	407.1	347.3	277.5	215.1	162.6	119.5	83.6
50°	700.8	649.0	595.6	527.3	449.4	381.6	314.1	242.9	183.5	133.0	93.8
47.5°	754.0	699.2	642.0	574.3	497.2	416.0	348.3	272.3	203.0	148.0	104.2
45°	802.5	746.9	684.2	615.2	542.1	456.2	376.8	302.1	226.1	163.7	114.2
42.5°	849.0	790.4	725.6	654.5	578.8	498.1	405.4	331.1	248.7	178.6	123.8
40°	891.0	829.6	764.7	693.5	613.8	533.5	440.3	355.0	270.3	193.8	134.3
37.5°	929.3	867.6	799.3	729.0	649.2	563.4	475.2	377.5	294.9	211.1	144.6
35°	963.1	901.6	834.5	762.0	683.1	592.4	506.1	401.5	316.4	226.8	154.3
32.5°	993.7	932.3	865.8	790.6	713.0	622.8	529.3	429.1	334.4	240.7	163.3
30°	1021.6	959.5	893.3	819.6	740.0	651.4	551.2	455.3	350.2	255.7	172.1
27.5°	1048.4	984.0	917.7	845.5	763.8	676.8	572.7	479.4	363.9	272.0	182.8
25°	1075.6	1006.1	939.2	867.9	785.3	698.9	595.7	494.8	380.6	286.6	192.3
22.5°	1096.0	1026.6	958.0	886.8	806.0	717.9	616.6	508.2	397.9	297.4	200.0
20°	1113.5	1045.7	974.5	903.0	824.0	734.7	635.2	520.7	413.1	306.9	205.7
17.5°	1129.4	1062.8	988.6	916.7	839.5	748.3	650.9	531.3	426.4	314.8	210.0
15°	1142.7	1075.3	1000.5	927.8	851.5	759.9	662.8	541.1	437.6	319.8	213.0
12.5°	1152.8	1085.0	1010.9	936.7	860.4	769.8	672.6	551.3	446.5	323.3	216.1
10°	1159.7	1092.5	1019.0	943.4	867.1	777.5	680.0	559.1	450.8	325.4	219.8
7.5°	1164.4	1097.6	1024.4	947.8	871.5	782.9	684.6	564.6	452.5	326.0	221.8
5°	1167.0	1100.1	1026.9	950.0	873.6	785.8	686.9	567.5	452.4	325.2	222.2
2.5°	1167.0	1100.1	1026.8	949.8	873.5	786.3	687.0	567.6	450.6	323.0	220.9
0°	1164.1	1097.5	1024.2	947.4	871.3	784.3	684.7	565.0	447.1	319.5	218.0
-2.5°	1160.0	1093.5	1020.2	943.5	867.5	780.4	681.2	562.1	444.9	317.9	216.3
-5°	1153.3	1086.9	1013.7	937.4	861.5	773.9	675.4	556.2	441.0	315.0	212.9
-7.5°	1143.8	1077.9	1004.7	929.0	853.3	765.0	667.4	547.6	435.4	310.7	207.9
-10°	1132.4	1066.5	993.0	918.3	842.9	753.7	657.1	536.2	428.1	304.9	201.3
-12.5°	1118.6	1052.3	978.9	905.5	830.1	740.0	643.9	522.1	417.9	297.7	193.2
-15°	1101.5	1034.3	962.5	890.3	815.1	724.0	628.3	505.5	403.3	289.0	186.0
-17.5°	1080.7	1013.7	943.2	872.7	796.8	705.9	610.4	489.4	386.4	278.7	179.6
-20°	1058.8	990.7	921.5	852.3	774.3	685.7	588.5	472.4	367.4	265.5	172.2



REPORT NUMBER: P670550 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL50DBZ-45W-2700K

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1033.0	966.0	898.9	829.3	749.4	663.0	563.4	453.5	346.8	250.5	164.1
-25°	1002.2	938.4	873.3	804.0	722.2	638.1	535.0	433.7	324.7	234.1	153.7
-27.5°	970.1	907.6	844.4	774.1	693.2	609.3	503.3	411.8	302.9	215.2	141.4
-30°	937.3	876.8	812.5	739.9	662.3	576.7	474.0	381.5	283.2	194.9	128.3
-32.5°	899.1	841.5	778.0	703.6	629.2	540.0	444.7	349.3	261.3	177.8	118.3
-35°	861.8	802.6	736.8	666.1	591.8	498.2	414.3	317.2	236.8	163.9	109.0
-37.5°	818.8	760.3	693.5	626.9	548.9	460.2	376.3	287.4	210.6	147.8	99.5
-40°	773.0	711.9	649.3	583.1	500.6	422.0	335.5	258.1	183.0	129.1	89.8
-42.5°	719.9	662.2	603.0	533.5	454.5	378.6	296.4	226.6	164.1	114.6	79.9
-45°	664.3	611.8	551.0	477.5	408.5	330.4	260.0	194.2	143.6	102.0	70.0
-47.5°	607.9	554.7	491.7	425.9	355.0	285.6	222.9	166.8	120.6	89.3	60.0
-50°	545.3	489.1	432.4	369.1	303.1	242.2	186.0	143.2	105.8	76.6	50.0
-52.5°	473.4	423.1	369.1	310.1	252.4	200.4	157.0	117.4	90.4	63.9	41.2
-55°	402.8	354.5	303.9	253.6	205.3	163.8	128.5	100.5	75.0	51.8	32.8
-57.5°	328.8	286.5	242.1	201.1	164.5	133.4	105.8	82.3	60.1	40.8	26.4
-60°	259.2	221.8	187.7	158.1	131.4	106.6	85.7	64.9	46.1	31.3	20.4
-62.5°	193.8	167.0	144.2	121.6	103.5	84.7	65.9	48.8	34.5	24.0	14.8
-65°	142.3	124.4	106.0	94.2	79.1	62.7	47.9	35.2	25.7	17.2	10.3
-67.5°	100.0	90.4	79.3	67.3	55.5	43.4	33.0	25.3	17.7	11.4	7.0
-70°	70.4	61.7	52.7	44.6	36.5	28.8	23.1	16.4	11.1	7.2	4.9
-72.5°	43.6	38.0	32.6	27.1	23.7	18.8	13.0	9.5	6.7	4.8	3.6
-75°	24.0	22.0	19.8	16.4	12.2	9.7	7.2	5.6	4.4	3.4	2.8
-77.5°	13.4	11.1	9.7	7.9	6.4	5.1	4.3	3.7	3.1	2.7	2.2
-80°	6.6	5.8	4.9	4.4	3.9	3.5	3.1	2.7	2.3	2.0	1.7
-82.5°	4.2	3.8	3.5	3.1	2.7	2.3	2.1	1.8	1.6	1.6	1.5
-85°	2.8	2.5	2.2	1.9	1.7	1.4	1.4	1.3	1.3	1.3	1.4
-87.5°	2.2	2.0	1.8	1.6	1.4	1.2	1.2	1.3	1.3	1.3	1.3
-90°	2.7	2.6	2.6	2.5	2.5	2.4	2.3	2.2	2.2	2.1	2.0

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Scaled Data Report



REPORT NUMBER: P670550 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: ARFL50DBZ-45W-2700K

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	1.3	1.3	1.3	1.4	1.4	1.4	1.4
87.5°	2.3	2.1	1.9	1.8	1.6	1.5	1.4
85°	2.7	2.3	2.1	1.9	1.7	1.5	1.4
82.5°	3.2	2.7	2.3	2.0	1.7	1.5	1.4
80°	4.0	3.1	2.6	2.1	1.8	1.6	1.4
77.5°	5.2	3.7	2.9	2.3	1.8	1.6	1.4
75°	7.2	4.7	3.2	2.4	1.9	1.6	1.4
72.5°	10.2	6.0	3.6	2.6	2.0	1.6	1.4
70°	13.5	7.8	4.5	2.8	2.1	1.6	1.4
67.5°	17.6	10.0	5.3	3.0	2.1	1.6	1.4
65°	22.1	12.5	6.4	3.4	2.2	1.7	1.4
62.5°	27.1	15.4	7.8	3.9	2.3	1.7	1.4
60°	33.7	18.5	9.0	4.3	2.4	1.7	1.4
57.5°	40.5	21.8	10.8	4.7	2.5	1.7	1.4
55°	47.1	25.6	12.6	5.4	2.6	1.8	1.4
52.5°	53.4	30.4	14.3	6.0	2.7	1.8	1.4
50°	60.5	34.9	16.3	6.5	2.8	1.8	1.4
47.5°	67.2	39.2	18.1	7.1	3.0	1.8	1.4
45°	74.5	43.0	20.0	8.0	3.1	1.8	1.4
42.5°	81.3	47.1	22.8	8.9	3.2	1.8	1.4
40°	88.5	51.4	25.4	9.6	3.3	1.8	1.4
37.5°	95.3	55.4	27.7	10.3	3.3	1.9	1.4
35°	101.5	59.4	29.8	11.0	3.5	1.9	1.4
32.5°	107.3	63.3	31.5	11.6	3.6	1.9	1.4
30°	112.3	66.7	33.0	12.1	3.7	1.9	1.4
27.5°	117.7	69.9	34.2	12.6	3.7	1.9	1.4
25°	122.4	73.2	35.4	12.9	3.8	1.9	1.4
22.5°	126.2	75.9	36.9	13.1	3.8	1.9	1.4
20°	129.4	78.2	38.0	13.4	3.7	1.9	1.4
17.5°	132.3	80.0	38.9	13.9	3.7	1.9	1.4
15°	134.2	81.3	39.4	14.3	3.6	1.9	1.4
12.5°	135.4	82.1	39.7	14.5	3.5	1.9	1.4
10°	135.8	82.4	39.8	14.5	3.4	1.9	1.4
7.5°	135.4	82.3	39.5	14.4	3.3	1.8	1.4
5°	134.2	81.6	39.0	14.2	3.2	1.8	1.4
2.5°	132.4	80.5	38.2	13.9	3.1	1.8	1.4
0°	129.8	79.0	37.2	13.4	2.9	1.8	1.4
-2.5°	129.1	78.6	37.0	13.3	2.9	1.8	1.4
-5°	127.8	77.7	36.5	13.1	2.9	1.8	1.4
-7.5°	125.8	76.4	35.8	12.8	2.9	1.8	1.4
-10°	123.2	74.7	34.9	12.3	2.9	1.8	1.4
-12.5°	120.0	72.5	33.8	11.8	2.8	1.8	1.4
-15°	116.2	69.9	32.4	11.1	2.8	1.8	1.4
-17.5°	111.8	66.9	30.9	10.4	2.8	1.8	1.4
-20°	106.8	63.6	29.2	9.5	2.7	1.8	1.4

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CATALOG NUMBER: ARFL50DBZ-45W-2700K

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	101.8	59.8	27.2	8.9	2.7	1.7	1.4
-25°	96.4	55.7	25.1	8.4	2.6	1.7	1.4
-27.5°	90.5	51.2	23.4	7.9	2.5	1.7	1.4
-30°	84.2	47.0	21.7	7.4	2.5	1.7	1.4
-32.5°	77.8	42.8	19.9	6.8	2.4	1.7	1.4
-35°	70.9	38.4	17.9	6.2	2.3	1.7	1.4
-37.5°	63.7	34.0	15.9	5.6	2.2	1.7	1.4
-40°	56.3	30.1	13.7	5.0	2.2	1.7	1.4
-42.5°	48.6	26.1	11.5	4.4	2.1	1.6	1.4
-45°	42.1	22.5	9.2	3.8	2.1	1.6	1.4
-47.5°	35.3	19.2	8.0	3.2	2.0	1.6	1.4
-50°	29.8	15.9	6.9	2.9	1.9	1.6	1.4
-52.5°	24.4	12.8	5.8	2.7	1.9	1.6	1.4
-55°	19.9	9.6	4.9	2.5	1.8	1.6	1.4
-57.5°	15.3	7.6	3.9	2.3	1.8	1.5	1.4
-60°	11.5	6.1	3.1	2.2	1.7	1.5	1.4
-62.5°	8.0	4.8	2.8	2.0	1.7	1.5	1.4
-65°	6.2	3.7	2.5	1.9	1.6	1.5	1.4
-67.5°	4.6	2.9	2.2	1.8	1.6	1.5	1.4
-70°	3.3	2.5	2.0	1.7	1.6	1.5	1.4
-72.5°	2.8	2.2	1.8	1.6	1.5	1.5	1.4
-75°	2.3	1.9	1.7	1.6	1.5	1.4	1.4
-77.5°	1.9	1.7	1.6	1.5	1.5	1.4	1.4
-80°	1.6	1.5	1.5	1.5	1.4	1.4	1.4
-82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4
-85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4
-87.5°	1.3	1.3	1.4	1.4	1.4	1.4	1.4
-90°	1.9	1.8	1.7	1.7	1.6	1.5	1.4

(END OF REPORT)