

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: P670554 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: ARFL50DBZ-45W-5000K

Issue Date: 3/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P670554 (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-5000K
Description: SLIM WALL OR FLOODLIGHT
Light Source:
Ballast/Driver: -

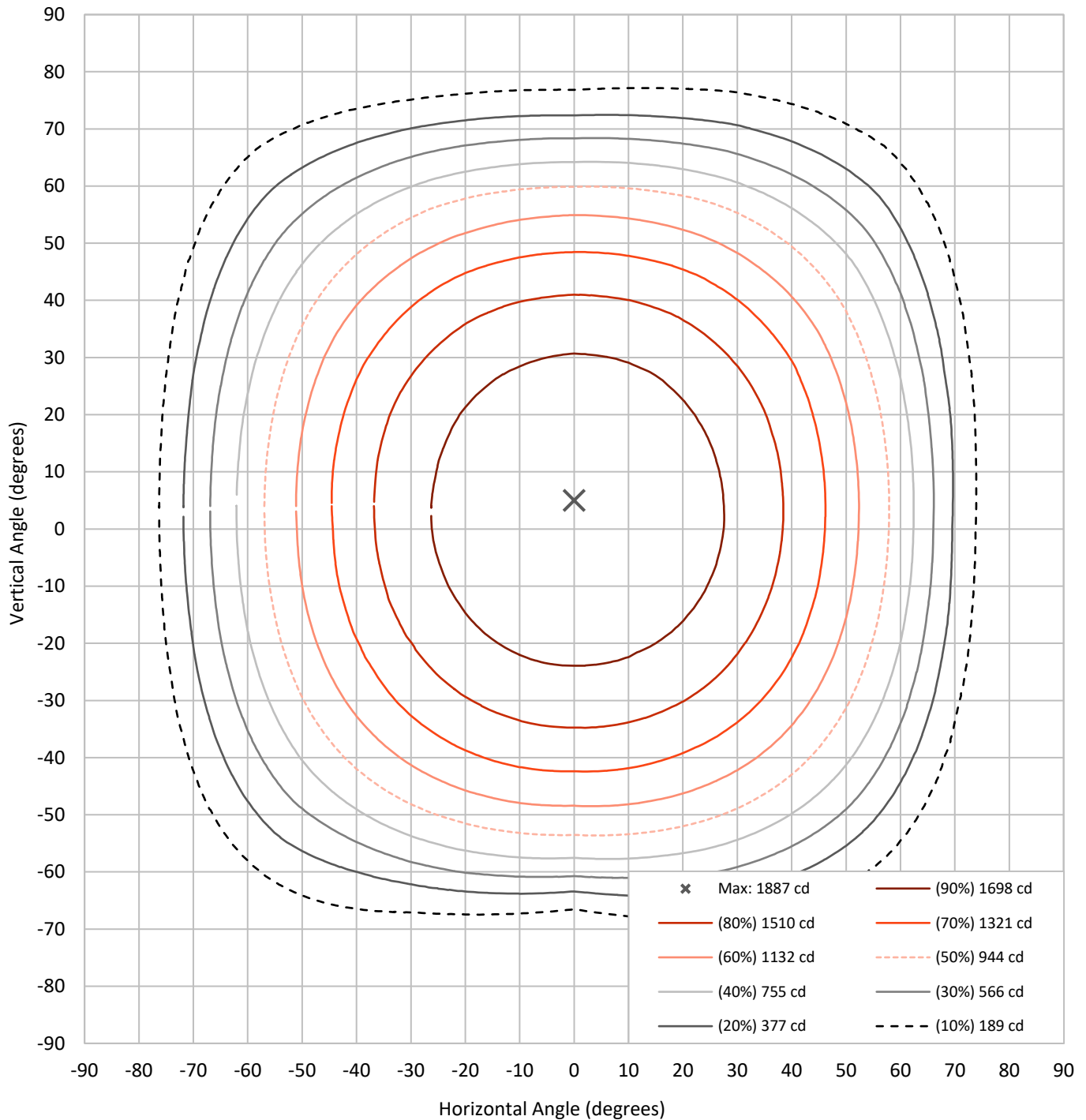
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	5238.8 lumens	Max Intensity:	1887 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 5°V
Efficacy:	117.2 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:	4197.1 lumens	Field Lumens:	5160.5 lumens
Beam Efficiency:	80.1%	Field Efficiency:	98.5%
Input Watts (W):	44.7		
Input Voltage (V):	120		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		



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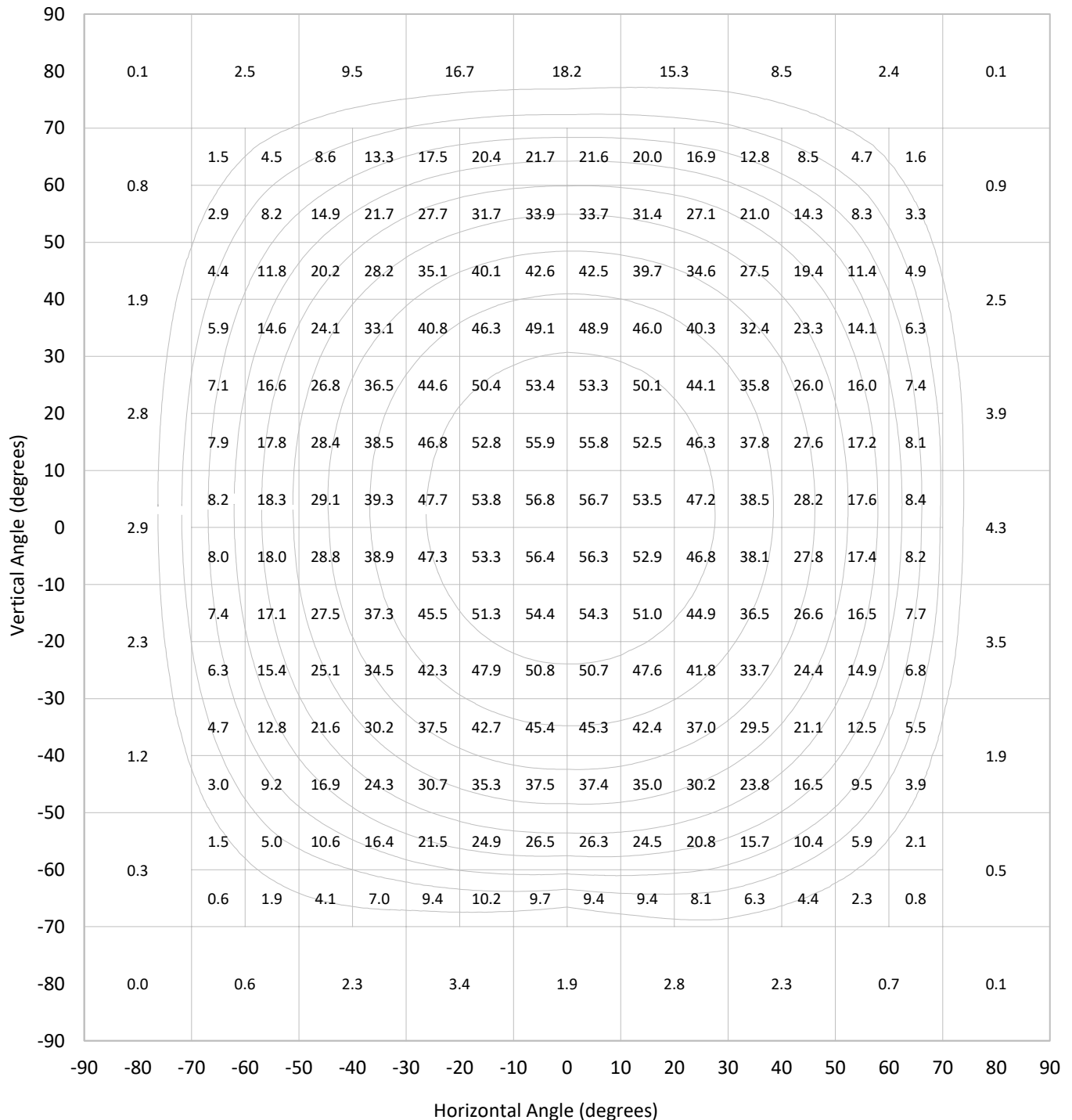
Iso-Candela Plot





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Lumen Table



Classified

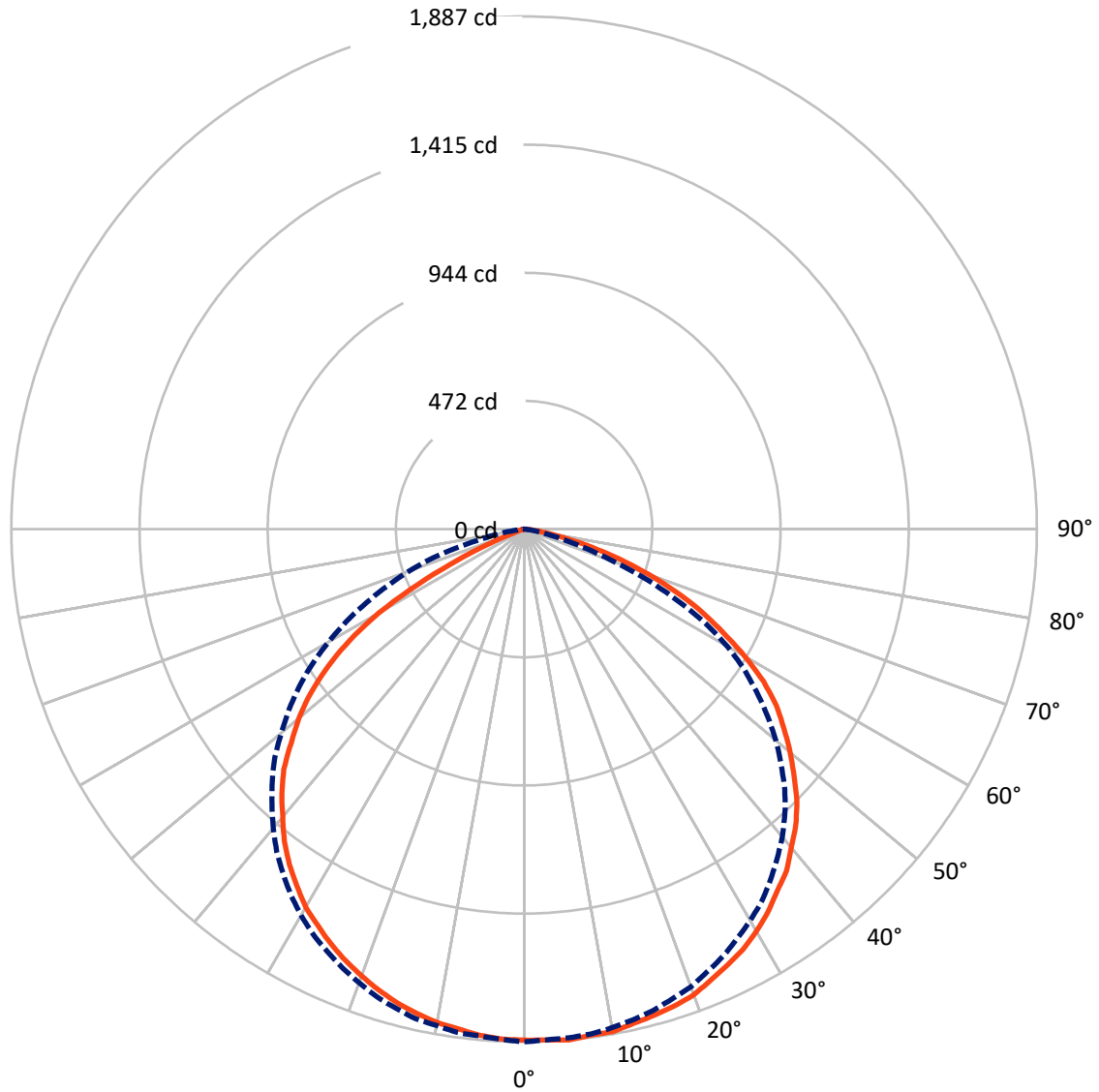
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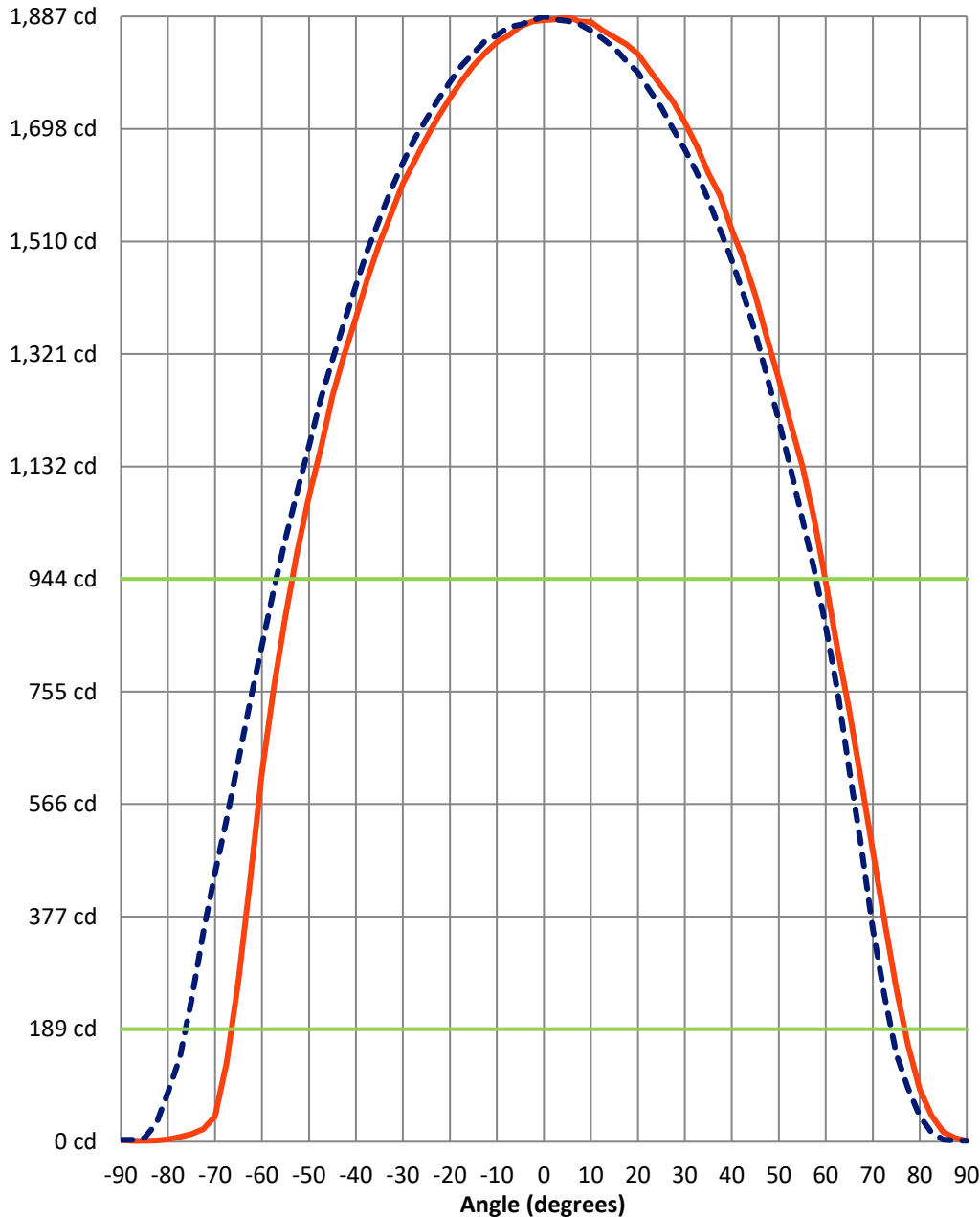
Luminous Intensity Polar Plot



— 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: 4197.1
 Efficiency: 80.1%

Field:
 H Angle: 150.2°
 V Angle: 143.3°
 Lumens: 5160.5
 Efficiency: 98.5%

Spill:
 Lumens: 78.4
 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°	3.1	3.1	3.0	3.0	2.9	2.9	2.9	2.8	2.8	2.7	2.7
87.5°	3.1	3.1	3.2	3.3	3.4	3.6	3.7	3.9	4.1	4.3	4.6
85°	3.1	3.2	3.3	3.4	3.6	3.9	4.2	4.6	5.0	5.5	6.1
82.5°	3.1	3.2	3.3	3.5	3.8	4.2	4.7	5.4	6.3	7.3	8.8
80°	3.1	3.2	3.4	3.7	4.1	4.7	5.6	6.6	8.6	10.8	14.4
77.5°	3.1	3.2	3.4	3.8	4.4	5.3	6.8	9.0	12.7	18.1	24.0
75°	3.1	3.2	3.5	3.9	4.8	6.2	8.6	13.2	19.2	25.8	35.0
72.5°	3.1	3.2	3.5	4.2	5.2	7.5	12.0	18.3	25.5	37.7	52.7
70°	3.1	3.2	3.6	4.4	6.0	9.5	15.8	23.3	36.6	54.1	72.5
67.5°	3.1	3.2	3.7	4.6	6.9	12.3	19.7	32.4	51.1	71.2	91.9
65°	3.1	3.2	3.7	5.0	8.2	15.1	25.4	43.7	65.9	88.5	116.3
62.5°	3.1	3.3	3.8	5.5	10.1	17.9	32.9	57.1	79.7	109.9	145.1
60°	3.1	3.3	3.9	5.9	11.8	22.0	43.2	68.0	98.1	133.8	176.7
57.5°	3.1	3.3	4.0	6.4	13.7	27.6	54.0	81.1	117.7	159.6	211.1
55°	3.1	3.3	4.1	7.4	15.5	34.0	62.6	96.9	137.8	187.3	248.5
52.5°	3.1	3.3	4.2	8.4	17.7	42.4	71.4	112.7	158.3	217.5	281.6
50°	3.1	3.3	4.4	9.3	21.5	50.5	84.3	128.2	180.6	248.1	315.2
47.5°	3.1	3.3	4.6	10.2	25.1	56.6	96.9	143.9	204.6	276.6	348.8
45°	3.1	3.3	4.8	11.2	28.9	62.4	108.4	159.8	229.7	304.3	381.0
42.5°	3.1	3.4	4.9	12.1	34.5	69.9	119.4	175.8	253.3	332.2	410.2
40°	3.1	3.4	5.1	13.0	39.9	79.3	130.3	193.7	275.7	360.3	435.6
37.5°	3.1	3.4	5.2	13.8	44.9	88.2	140.4	212.1	296.5	384.8	462.4
35°	3.1	3.4	5.4	15.3	48.8	96.0	150.7	229.6	317.7	406.8	487.2
32.5°	3.1	3.4	5.7	17.1	52.1	102.8	160.6	246.4	339.4	425.8	509.1
30°	3.1	3.4	6.0	18.7	55.1	109.1	169.5	261.8	358.6	445.0	528.3
27.5°	3.1	3.4	6.2	20.1	57.7	114.8	180.5	275.1	375.4	463.5	545.7
25°	3.1	3.4	6.4	21.3	60.8	120.0	190.8	287.0	390.4	479.3	564.5
22.5°	3.1	3.4	6.6	22.4	65.3	124.6	200.0	299.0	402.2	493.0	581.5
20°	3.1	3.4	6.7	23.7	69.4	128.5	208.4	311.3	412.6	504.9	596.0
17.5°	3.1	3.4	6.7	25.5	72.9	131.8	216.2	322.2	421.8	514.4	608.4
15°	3.1	3.4	6.8	26.9	75.9	134.6	222.9	331.6	430.7	522.3	618.8
12.5°	3.1	3.4	6.8	28.1	78.5	137.1	228.3	339.0	437.9	528.6	626.9
10°	3.1	3.4	6.8	29.0	80.5	138.8	232.5	344.1	443.6	534.5	633.2
7.5°	3.1	3.3	6.7	29.6	81.9	139.9	235.5	347.8	447.6	539.0	637.5
5°	3.1	3.3	6.6	29.9	82.8	140.3	237.2	350.0	450.0	541.7	640.0
2.5°	3.1	3.3	6.5	30.0	83.2	140.0	237.5	350.8	450.8	542.5	640.5
0°	3.1	3.3	6.4	29.8	83.0	139.1	236.6	350.0	449.9	541.5	639.1
-2.5°	3.1	3.3	6.4	29.4	82.1	137.8	234.3	347.2	446.7	538.3	635.8
-5°	3.1	3.3	6.4	28.8	80.6	135.9	230.8	342.8	441.9	533.2	630.6
-7.5°	3.1	3.3	6.3	28.0	78.6	133.4	225.9	337.0	435.5	526.2	623.4
-10°	3.1	3.3	6.2	26.9	76.1	130.4	219.7	329.6	427.4	517.3	614.4
-12.5°	3.1	3.3	6.1	25.5	73.1	126.7	212.3	320.8	417.8	507.1	603.4
-15°	3.1	3.3	6.0	23.9	69.6	122.5	203.7	309.7	406.5	496.5	590.5
-17.5°	3.1	3.3	5.9	22.1	65.6	118.1	193.8	296.5	393.7	484.3	575.6
-20°	3.1	3.3	5.8	20.0	61.2	113.6	182.8	281.8	380.7	470.5	558.7

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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°	3.1	3.3	5.6	18.4	56.3	108.5	172.0	265.7	366.6	454.1	539.9
-25°	3.1	3.3	5.4	17.1	51.1	103.1	160.9	250.2	351.3	435.7	518.3
-27.5°	3.1	3.3	5.2	15.8	47.4	97.3	149.0	235.2	332.0	415.3	494.9
-30°	3.1	3.2	5.0	14.3	44.2	91.0	136.9	219.0	310.8	392.6	472.8
-32.5°	3.1	3.2	4.7	12.7	40.8	84.2	127.5	200.2	287.1	369.3	448.7
-35°	3.1	3.2	4.5	11.1	37.3	77.1	117.5	179.8	260.9	346.8	421.4
-37.5°	3.1	3.2	4.3	9.7	33.3	69.0	107.7	160.2	236.0	320.5	391.6
-40°	3.1	3.2	4.2	9.0	28.6	59.8	98.6	142.2	212.6	290.6	360.5
-42.5°	3.1	3.2	4.0	8.2	23.7	50.2	89.2	125.6	186.7	257.3	331.9
-45°	3.1	3.2	3.9	7.4	18.6	42.7	79.0	111.8	159.2	225.3	297.0
-47.5°	3.1	3.2	3.8	6.6	15.6	37.4	68.3	98.9	136.8	195.4	258.6
-50°	3.1	3.2	3.7	6.1	12.9	31.8	56.3	87.0	116.7	162.5	220.0
-52.5°	3.1	3.2	3.5	5.5	10.2	25.3	43.9	74.1	99.6	134.2	184.4
-55°	3.1	3.1	3.5	5.0	8.7	18.7	36.3	60.6	85.5	110.7	146.4
-57.5°	3.1	3.1	3.4	4.5	7.6	14.4	29.4	46.2	70.4	91.4	117.1
-60°	3.1	3.1	3.4	4.2	6.4	11.0	21.7	35.1	54.6	75.4	93.9
-62.5°	3.1	3.1	3.3	4.0	5.7	8.6	15.0	26.9	38.6	57.5	75.2
-65°	3.1	3.1	3.3	3.7	4.9	7.2	11.1	18.6	28.6	40.2	55.7
-67.5°	3.1	3.1	3.2	3.5	4.3	6.0	8.4	12.7	19.7	27.6	37.2
-70°	3.1	3.1	3.2	3.4	4.0	5.1	6.7	8.8	12.7	18.2	24.1
-72.5°	3.1	3.1	3.2	3.3	3.6	4.4	5.5	7.0	8.6	11.5	15.0
-75°	3.1	3.1	3.1	3.3	3.5	3.9	4.5	5.6	6.7	8.0	9.6
-77.5°	3.1	3.1	3.1	3.2	3.3	3.6	3.9	4.5	5.3	6.1	7.0
-80°	3.1	3.1	3.1	3.1	3.2	3.4	3.6	3.8	4.3	4.7	5.3
-82.5°	3.1	3.1	3.1	3.1	3.1	3.2	3.3	3.5	3.7	3.9	4.1
-85°	3.1	3.1	3.0	3.0	3.0	3.1	3.1	3.2	3.3	3.4	3.5
-87.5°	3.1	3.1	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
-90°	3.1	3.1	3.2	3.2	3.2	3.3	3.3	3.3	3.4	3.4	3.4



REPORT NUMBER: P670554 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL50DBZ-45W-5000K

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	2.6	2.6	2.8	2.9	3.1	3.2	3.4	3.5	3.7	3.8	4.0
87.5°	4.9	5.2	5.3	5.4	5.5	5.6	5.6	5.7	5.8	5.8	5.8
85°	6.9	7.7	8.1	8.5	8.9	9.6	10.3	10.9	11.5	12.0	12.5
82.5°	10.7	12.8	14.3	17.0	19.5	21.9	24.0	26.2	28.4	30.4	32.4
80°	19.4	24.9	28.6	31.9	35.8	41.3	46.6	51.7	57.1	62.1	66.8
77.5°	30.3	38.6	47.1	55.1	63.5	71.6	78.9	85.8	92.7	99.2	105.3
75°	47.1	61.2	73.5	83.5	93.2	103.3	113.3	126.0	137.6	149.5	160.0
72.5°	69.5	85.3	99.8	112.6	129.9	147.2	164.9	182.1	198.6	215.2	231.4
70°	90.4	110.4	133.8	156.7	180.0	204.3	228.1	251.5	273.5	295.5	316.8
67.5°	116.2	145.7	179.2	210.0	240.6	269.4	295.8	323.9	351.8	380.0	405.9
65°	149.4	188.3	232.8	269.3	299.3	332.9	365.5	397.7	428.6	458.6	489.5
62.5°	186.8	235.3	283.8	321.6	359.5	395.7	431.3	466.1	502.9	536.2	567.8
60°	228.0	280.6	330.6	375.5	415.4	454.3	495.5	534.6	571.7	608.9	645.6
57.5°	268.9	323.4	377.0	425.6	468.0	514.0	556.4	598.5	641.2	682.7	723.6
55°	306.8	366.1	421.3	472.6	522.4	569.0	616.2	664.0	709.6	757.1	804.2
52.5°	345.6	406.7	462.3	520.3	572.4	624.1	676.5	727.4	779.3	833.0	881.0
50°	382.9	443.7	505.8	564.0	622.4	679.1	734.6	790.4	848.3	898.7	945.3
47.5°	417.6	482.0	544.9	607.5	672.0	731.6	791.3	852.3	907.4	957.1	1003.6
45°	448.6	517.7	582.8	651.9	717.1	781.6	846.8	906.7	960.4	1010.9	1062.2
42.5°	481.8	550.2	621.5	691.0	761.2	832.1	896.4	954.6	1010.0	1065.4	1115.5
40°	511.1	582.7	658.0	731.9	805.7	875.1	939.2	1000.7	1060.4	1115.5	1167.2
37.5°	537.7	615.2	691.6	767.8	843.9	914.3	982.3	1046.8	1106.2	1162.9	1213.4
35°	563.3	645.3	725.5	805.9	880.9	952.5	1021.0	1087.6	1149.8	1204.6	1254.5
32.5°	589.6	671.8	754.2	836.3	912.3	985.8	1057.1	1125.3	1188.1	1240.5	1292.7
30°	613.8	699.3	784.5	865.9	944.0	1018.1	1090.1	1158.9	1218.0	1275.8	1329.0
27.5°	635.5	723.3	810.1	891.7	970.8	1046.8	1119.5	1186.4	1248.9	1306.4	1362.3
25°	654.4	743.5	832.2	915.7	995.3	1072.6	1145.5	1209.7	1273.6	1334.4	1388.1
22.5°	672.5	764.2	852.5	937.9	1017.5	1094.9	1166.8	1234.8	1298.5	1358.1	1412.8
20°	689.8	782.7	870.0	955.6	1037.0	1113.8	1184.7	1254.3	1319.1	1376.6	1432.4
17.5°	704.1	796.6	885.4	971.1	1053.3	1130.1	1200.6	1271.6	1335.5	1395.0	1452.4
15°	714.6	808.4	898.5	983.8	1066.7	1142.7	1216.8	1287.2	1348.5	1406.6	1466.7
12.5°	723.0	817.9	909.1	993.9	1076.4	1152.4	1228.5	1298.0	1359.0	1418.4	1478.0
10°	729.7	824.9	917.2	1002.1	1083.3	1159.5	1236.2	1305.6	1367.6	1430.1	1486.8
7.5°	735.1	829.7	922.3	1007.7	1087.7	1164.1	1241.6	1309.5	1373.3	1434.7	1492.6
5°	738.2	832.1	924.9	1010.7	1089.7	1166.1	1244.8	1310.7	1373.7	1435.9	1495.6
2.5°	738.9	832.2	925.1	1011.0	1089.0	1165.5	1245.0	1309.2	1371.3	1434.2	1495.6
0°	737.3	830.0	923.0	1008.5	1085.7	1162.2	1242.2	1305.1	1366.8	1429.7	1492.2
-2.5°	733.6	826.6	919.2	1004.9	1082.3	1158.7	1237.9	1301.7	1364.0	1426.3	1487.9
-5°	727.7	821.0	912.9	998.5	1076.2	1152.5	1230.5	1295.7	1358.9	1420.2	1480.3
-7.5°	719.4	813.0	904.1	989.3	1067.4	1143.5	1220.0	1287.0	1351.2	1411.4	1469.5
-10°	708.9	802.7	892.9	977.3	1056.2	1131.8	1207.2	1275.3	1337.3	1399.6	1454.8
-12.5°	697.1	790.0	879.1	962.5	1042.4	1117.3	1191.9	1260.4	1319.8	1380.2	1436.9
-15°	683.5	774.9	863.1	946.3	1025.9	1100.1	1173.0	1242.8	1301.7	1360.5	1417.0
-17.5°	668.0	757.3	844.5	927.7	1007.2	1080.0	1150.8	1219.3	1280.9	1340.9	1396.4
-20°	648.9	737.4	823.2	905.4	985.9	1056.9	1126.8	1193.5	1256.0	1311.3	1368.5



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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°	627.1	713.9	799.6	880.1	958.4	1030.8	1100.3	1166.1	1229.1	1285.2	1340.7
-25°	604.1	688.2	773.2	853.2	929.7	1002.9	1070.7	1135.3	1194.7	1251.9	1302.8
-27.5°	580.0	662.8	744.6	823.8	898.3	972.5	1037.6	1101.8	1161.0	1217.7	1270.4
-30°	553.7	634.0	713.0	791.5	863.5	934.9	1001.4	1064.9	1124.2	1177.3	1231.2
-32.5°	525.3	602.3	678.0	755.1	827.9	896.4	965.0	1024.0	1083.1	1137.3	1187.1
-35°	494.1	570.1	643.9	717.2	789.6	854.0	919.7	982.3	1038.1	1091.8	1142.0
-37.5°	463.4	535.5	606.0	674.8	745.2	811.9	872.4	934.1	988.6	1041.6	1091.5
-40°	431.2	498.4	566.9	633.3	699.4	765.1	824.0	881.5	938.6	987.2	1035.8
-42.5°	395.7	460.5	525.7	589.1	650.4	713.3	773.4	825.5	880.5	932.6	977.4
-45°	357.6	421.7	482.0	543.4	601.8	657.3	713.5	769.1	817.8	868.9	916.4
-47.5°	323.5	379.3	438.1	494.9	551.2	600.1	650.1	702.9	753.7	799.3	846.4
-50°	282.3	336.4	391.3	445.2	496.0	539.9	584.5	631.7	681.6	727.1	769.7
-52.5°	237.8	295.2	341.6	393.5	437.4	476.0	516.6	557.8	601.3	647.8	689.0
-55°	195.8	246.0	297.7	338.6	377.2	412.2	445.8	481.9	518.6	557.3	597.8
-57.5°	154.0	198.1	243.6	288.2	315.6	347.3	376.9	405.3	434.5	466.6	499.1
-60°	118.6	152.1	191.2	228.5	261.6	284.7	308.3	332.0	354.8	377.1	400.8
-62.5°	91.7	113.1	141.0	173.0	201.1	227.0	248.2	261.7	279.2	295.5	311.6
-65°	70.8	84.3	101.4	120.6	146.3	167.7	186.9	203.4	215.8	222.4	231.8
-67.5°	49.5	62.7	72.8	85.7	99.4	114.7	131.5	144.6	155.5	164.1	170.2
-70°	30.6	39.6	50.1	59.7	67.2	76.4	85.4	93.6	103.8	110.9	114.9
-72.5°	18.5	23.1	28.9	35.3	43.2	49.7	54.6	59.4	63.9	68.0	71.2
-75°	11.3	13.4	15.4	19.4	22.8	26.7	29.9	34.1	37.1	39.2	40.7
-77.5°	7.9	8.7	9.7	10.8	12.2	13.4	15.4	16.7	17.9	18.6	18.5
-80°	6.0	6.6	7.0	7.4	7.8	8.3	8.7	9.1	9.6	9.9	10.0
-82.5°	4.5	4.9	5.2	5.5	5.8	6.0	6.2	6.3	6.5	6.5	6.6
-85°	3.6	3.8	4.0	4.2	4.3	4.5	4.7	4.8	4.9	4.9	5.0
-87.5°	3.1	3.1	3.3	3.5	3.6	3.8	4.0	4.1	4.3	4.4	4.5
-90°	3.5	3.5	3.5	3.4	3.4	3.4	3.3	3.3	3.3	3.2	3.2



REPORT NUMBER: P670554 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL50DBZ-45W-5000K

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	4.1	4.3	4.4	4.2	4.0	3.7	3.5	3.3	3.1	2.8	2.6
87.5°	5.9	6.0	6.0	6.1	6.2	6.2	6.3	6.3	6.3	6.3	6.3
85°	13.3	14.2	14.9	15.6	16.1	16.5	16.8	17.1	17.2	17.2	17.2
82.5°	35.0	37.7	40.0	41.7	43.1	44.1	45.0	45.8	46.4	46.6	46.6
80°	71.1	75.0	78.7	81.4	83.6	85.6	87.3	88.6	89.6	90.2	90.5
77.5°	112.2	119.1	125.1	130.5	135.9	140.8	145.2	149.2	152.9	156.1	158.7
75°	169.9	178.9	186.4	196.9	207.6	217.2	226.2	234.9	242.3	248.2	252.7
72.5°	247.4	263.7	279.2	293.5	307.1	320.2	333.1	344.0	353.0	360.0	365.1
70°	338.5	361.1	381.9	400.1	416.5	431.3	444.7	456.5	466.5	474.6	480.9
67.5°	430.9	455.1	478.9	501.3	519.3	535.3	549.9	562.7	574.0	583.8	592.3
65°	518.5	544.9	569.6	592.8	614.5	634.8	652.1	667.7	681.6	694.1	704.4
62.5°	598.8	629.9	658.3	685.4	711.1	734.3	754.8	772.8	788.7	801.8	812.0
60°	680.7	715.5	750.1	784.1	814.7	840.5	862.8	880.9	896.6	909.3	919.7
57.5°	765.1	806.4	847.4	883.9	913.8	935.3	956.2	975.7	992.1	1006.3	1018.8
55°	852.3	893.3	929.1	963.0	992.8	1014.8	1036.2	1056.9	1076.9	1093.7	1105.8
52.5°	924.0	964.1	998.9	1030.3	1062.4	1090.2	1111.2	1132.6	1151.2	1166.3	1179.0
50°	988.0	1025.9	1066.1	1098.3	1130.6	1159.2	1182.9	1203.7	1222.8	1239.5	1252.6
47.5°	1048.7	1089.3	1128.7	1164.5	1196.3	1226.5	1251.6	1273.0	1291.9	1308.2	1322.0
45°	1106.3	1150.2	1189.2	1226.1	1258.8	1290.2	1316.9	1339.0	1357.4	1373.9	1388.3
42.5°	1163.0	1206.0	1245.1	1283.0	1318.7	1349.2	1375.3	1397.8	1418.3	1436.1	1450.8
40°	1214.0	1256.2	1298.4	1336.0	1370.3	1401.3	1430.1	1455.6	1475.5	1491.7	1504.4
37.5°	1259.7	1304.7	1346.0	1384.1	1418.7	1453.3	1481.8	1504.5	1522.2	1541.2	1556.2
35°	1302.7	1348.3	1390.1	1429.3	1465.3	1497.1	1524.7	1550.1	1570.0	1587.9	1601.8
32.5°	1342.7	1388.3	1431.4	1470.2	1505.1	1537.6	1565.8	1591.7	1612.1	1628.2	1642.0
30°	1379.2	1425.1	1467.8	1507.0	1542.2	1574.5	1603.0	1627.5	1648.0	1662.2	1677.3
27.5°	1410.7	1457.8	1501.5	1540.1	1575.5	1606.6	1633.3	1656.2	1680.3	1697.2	1710.8
25°	1440.0	1488.6	1530.9	1569.7	1602.7	1633.3	1661.0	1687.0	1707.2	1729.7	1743.2
22.5°	1466.1	1514.2	1556.8	1592.8	1626.7	1659.1	1687.0	1713.5	1734.6	1757.7	1768.9
20°	1487.7	1536.0	1577.9	1613.4	1650.5	1681.3	1710.6	1734.4	1757.3	1778.3	1790.0
17.5°	1505.2	1553.6	1593.0	1635.1	1669.8	1699.8	1726.2	1752.3	1777.8	1793.8	1812.0
15°	1520.5	1566.4	1608.2	1649.7	1682.7	1712.5	1741.6	1769.4	1791.0	1810.3	1825.9
12.5°	1532.7	1576.7	1623.1	1662.5	1695.9	1724.1	1754.6	1781.1	1805.1	1824.4	1840.0
10°	1539.0	1584.7	1632.5	1670.4	1701.9	1736.5	1765.5	1792.6	1814.8	1834.4	1849.7
7.5°	1543.5	1592.2	1638.1	1677.9	1708.6	1744.4	1772.3	1800.8	1824.7	1838.9	1855.4
5°	1546.8	1596.7	1641.4	1681.9	1714.8	1747.6	1776.8	1804.6	1825.3	1845.6	1855.2
2.5°	1547.2	1597.4	1641.6	1680.1	1717.9	1747.8	1777.6	1805.2	1825.7	1843.8	1859.1
0°	1544.3	1594.7	1638.6	1676.6	1717.1	1744.9	1774.8	1801.6	1824.5	1841.7	1859.7
-2.5°	1539.4	1589.2	1632.4	1672.6	1711.2	1740.3	1768.4	1795.2	1816.5	1833.8	1849.5
-5°	1530.7	1580.4	1623.9	1666.1	1701.1	1733.2	1760.2	1785.4	1804.2	1825.1	1837.1
-7.5°	1518.5	1568.7	1614.0	1654.3	1687.5	1721.6	1749.0	1774.0	1791.1	1810.2	1827.6
-10°	1505.0	1555.3	1599.2	1638.5	1673.8	1707.0	1732.9	1753.4	1775.0	1793.3	1812.5
-12.5°	1492.2	1538.0	1579.5	1613.7	1655.8	1688.1	1715.6	1741.4	1760.7	1777.1	1791.5
-15°	1472.7	1515.4	1559.0	1600.6	1634.3	1668.4	1696.5	1722.0	1743.1	1758.8	1769.9
-17.5°	1447.0	1492.7	1538.3	1571.4	1604.1	1642.3	1672.1	1696.8	1720.2	1737.7	1751.9
-20°	1418.9	1469.5	1507.1	1549.1	1583.2	1611.8	1643.4	1669.6	1690.5	1709.5	1726.9



REPORT NUMBER: P670554 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL50DBZ-45W-5000K

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	1391.1	1436.3	1480.3	1517.3	1553.7	1586.3	1611.6	1638.5	1659.3	1676.9	1692.0
-25°	1357.8	1403.5	1448.8	1484.6	1519.1	1552.7	1580.2	1603.0	1629.9	1641.8	1657.2
-27.5°	1319.9	1368.5	1409.2	1451.0	1482.3	1511.8	1542.5	1567.0	1589.2	1605.7	1624.2
-30°	1280.1	1327.3	1371.0	1407.2	1444.0	1471.8	1498.7	1521.4	1547.7	1564.5	1579.4
-32.5°	1237.1	1280.9	1324.4	1364.4	1397.2	1428.8	1454.8	1477.4	1497.6	1514.6	1530.1
-35°	1188.8	1234.7	1274.1	1311.7	1348.3	1381.4	1405.4	1430.0	1449.3	1465.0	1480.1
-37.5°	1138.2	1181.2	1223.0	1259.3	1289.7	1323.2	1352.2	1377.5	1393.6	1411.4	1425.4
-40°	1081.7	1124.6	1165.0	1201.4	1237.3	1262.6	1287.5	1313.5	1334.8	1352.4	1366.3
-42.5°	1020.5	1062.0	1100.9	1138.9	1171.2	1200.1	1229.3	1249.5	1268.1	1284.4	1298.5
-45°	958.9	995.7	1032.2	1067.2	1099.0	1131.0	1156.6	1177.9	1196.4	1213.8	1227.3
-47.5°	890.1	929.8	962.5	992.9	1022.3	1050.6	1077.1	1100.2	1120.1	1135.2	1147.0
-50°	812.1	852.9	888.6	920.3	946.7	970.8	993.9	1016.0	1035.2	1051.2	1063.7
-52.5°	728.3	764.0	801.7	835.4	864.4	889.1	911.1	930.0	947.0	960.7	972.1
-55°	639.7	673.1	705.0	734.4	763.7	792.5	814.5	833.4	848.7	861.5	871.3
-57.5°	533.2	568.2	603.4	632.5	656.3	678.2	699.0	717.6	734.2	747.5	757.4
-60°	427.2	453.1	480.4	507.7	533.1	555.3	574.6	588.0	599.9	610.1	618.2
-62.5°	327.3	341.8	360.5	379.0	396.8	413.3	428.1	440.3	450.0	456.5	459.9
-65°	240.4	248.1	256.7	264.5	273.9	281.5	290.8	297.2	301.1	303.1	302.3
-67.5°	172.5	171.9	172.5	173.6	177.4	179.9	180.9	181.6	180.0	176.3	171.5
-70°	117.2	117.8	116.2	114.6	114.3	112.6	109.1	104.4	99.8	93.5	85.5
-72.5°	73.8	74.8	73.6	72.5	71.9	70.7	68.9	65.8	61.5	56.4	50.6
-75°	41.7	42.1	41.4	42.0	42.5	42.1	41.0	39.4	37.0	34.0	30.5
-77.5°	18.8	18.9	18.3	18.8	19.8	20.3	20.2	19.7	18.9	17.6	16.1
-80°	10.0	9.8	9.2	8.8	8.5	8.3	8.0	7.6	7.2	6.7	6.2
-82.5°	6.6	6.6	6.6	6.3	6.0	5.7	5.3	5.0	4.6	4.2	3.8
-85°	5.0	5.1	5.1	4.8	4.6	4.3	4.0	3.7	3.4	3.1	2.8
-87.5°	4.7	4.8	4.9	4.6	4.3	4.0	3.8	3.5	3.2	2.9	2.6
-90°	3.2	3.1	3.1	3.1	3.0	3.0	2.9	2.9	2.9	2.8	2.8



REPORT NUMBER: P670554 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL50DBZ-45W-5000K

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	2.4	2.2	1.9	1.7	1.9	2.0	2.2	2.4	2.5	2.7	2.9
87.5°	6.3	6.3	6.2	6.2	6.4	6.5	6.7	6.8	6.9	7.0	7.1
85°	17.1	16.9	16.6	16.3	17.1	17.7	18.3	18.9	19.3	19.6	19.8
82.5°	46.3	45.8	45.0	44.1	45.8	47.3	48.6	49.5	50.3	50.7	50.8
80°	90.4	89.9	89.0	87.8	90.9	93.6	95.9	97.7	99.0	99.9	100.3
77.5°	160.6	161.7	162.0	161.6	165.8	169.2	171.7	173.4	174.3	174.4	173.6
75°	255.9	257.7	258.2	257.4	261.4	264.1	265.6	265.8	264.9	262.7	259.3
72.5°	368.7	370.7	371.1	369.9	372.8	374.1	373.9	372.1	368.9	364.4	358.5
70°	485.4	488.0	488.9	487.9	490.3	490.9	489.7	486.7	481.8	475.2	466.7
67.5°	599.2	604.0	606.7	607.2	608.7	608.0	605.4	600.8	594.4	586.1	575.8
65°	712.4	718.2	721.7	722.8	723.9	722.7	719.2	713.4	705.4	695.2	682.8
62.5°	819.2	823.8	825.9	825.5	828.1	828.4	826.2	821.7	814.2	803.9	790.9
60°	928.0	934.1	937.6	938.4	939.9	938.7	934.8	928.3	919.5	908.4	894.7
57.5°	1029.0	1036.9	1042.4	1045.3	1044.8	1041.6	1036.0	1027.9	1016.8	1003.6	988.9
55°	1116.0	1124.0	1129.8	1133.4	1132.1	1128.4	1122.4	1114.1	1103.5	1089.8	1073.9
52.5°	1189.1	1196.6	1201.7	1204.4	1203.6	1200.2	1194.2	1185.8	1175.4	1162.9	1147.5
50°	1262.9	1270.6	1275.7	1278.2	1278.1	1275.2	1269.4	1260.4	1248.5	1234.6	1217.7
47.5°	1332.8	1340.1	1344.9	1347.1	1346.7	1343.6	1337.8	1329.2	1318.1	1305.1	1290.1
45°	1400.2	1409.6	1416.1	1419.6	1417.5	1412.6	1405.0	1395.2	1383.1	1368.9	1351.5
42.5°	1462.3	1470.9	1476.7	1479.8	1477.9	1473.2	1465.7	1456.3	1444.4	1427.6	1408.8
40°	1514.2	1521.6	1526.6	1529.1	1528.4	1525.1	1519.3	1510.9	1499.0	1483.1	1463.8
37.5°	1568.0	1576.9	1582.9	1586.2	1585.2	1582.2	1576.2	1564.7	1549.6	1533.2	1516.5
35°	1612.2	1618.9	1622.7	1624.3	1624.7	1623.1	1618.8	1610.4	1596.5	1585.5	1565.1
32.5°	1652.8	1660.9	1666.8	1670.3	1668.7	1664.4	1658.1	1649.8	1638.3	1625.2	1605.9
30°	1689.9	1698.9	1705.4	1709.1	1707.0	1702.5	1696.2	1686.1	1672.5	1658.6	1641.8
27.5°	1724.2	1733.7	1740.1	1744.0	1741.7	1736.5	1729.6	1719.6	1705.4	1693.7	1669.7
25°	1756.7	1763.4	1767.7	1770.0	1769.2	1765.8	1759.3	1749.7	1737.4	1720.2	1698.4
22.5°	1780.6	1790.4	1793.9	1796.5	1795.6	1792.5	1785.9	1776.3	1763.5	1744.5	1723.9
20°	1802.2	1812.7	1819.8	1824.1	1821.6	1814.6	1805.4	1799.7	1786.6	1767.9	1746.5
17.5°	1819.9	1830.7	1837.2	1840.4	1837.9	1833.6	1828.3	1820.3	1802.3	1788.6	1765.3
15°	1839.3	1846.9	1850.4	1852.0	1852.0	1849.2	1840.2	1830.4	1818.9	1803.2	1784.2
12.5°	1852.2	1860.0	1863.6	1863.5	1863.3	1859.9	1856.4	1844.6	1828.7	1812.4	1798.6
10°	1861.9	1871.4	1876.7	1877.7	1878.4	1873.5	1862.6	1853.1	1841.0	1821.6	1804.3
7.5°	1866.1	1876.3	1877.5	1878.6	1879.0	1878.8	1872.5	1856.2	1844.2	1830.6	1807.0
5°	1869.1	1873.0	1880.2	1887.0	1881.6	1879.3	1874.3	1863.3	1849.7	1834.2	1812.5
2.5°	1869.4	1876.3	1881.5	1882.0	1879.7	1878.6	1873.0	1864.9	1850.9	1835.1	1814.0
0°	1868.3	1871.4	1874.6	1880.8	1880.2	1877.5	1871.6	1859.7	1850.8	1834.8	1812.3
-2.5°	1863.1	1870.9	1875.6	1878.4	1877.8	1878.5	1871.2	1857.9	1846.2	1827.4	1806.3
-5°	1854.5	1861.1	1865.4	1870.1	1870.8	1870.9	1860.6	1851.6	1837.4	1815.7	1797.6
-7.5°	1841.3	1851.0	1854.3	1855.1	1858.8	1856.5	1850.5	1841.7	1822.6	1803.3	1784.4
-10°	1827.7	1840.0	1843.3	1843.7	1845.0	1842.5	1835.7	1821.7	1804.6	1789.9	1770.4
-12.5°	1806.9	1817.5	1824.4	1825.7	1826.7	1821.9	1812.1	1802.0	1786.9	1770.4	1749.6
-15°	1784.9	1793.6	1801.6	1804.5	1803.5	1799.2	1790.7	1775.7	1765.0	1747.6	1731.9
-17.5°	1760.0	1768.4	1775.7	1778.8	1776.9	1770.7	1763.7	1752.4	1740.0	1726.2	1707.6
-20°	1736.0	1743.7	1748.8	1750.0	1748.9	1744.2	1736.4	1725.7	1715.6	1698.8	1679.7



REPORT NUMBER: P670554 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL50DBZ-45W-5000K

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	1705.2	1714.0	1718.0	1718.5	1718.0	1714.6	1709.6	1698.4	1680.6	1667.2	1648.5
-25°	1669.6	1677.3	1681.9	1683.2	1682.9	1678.9	1671.0	1661.8	1647.7	1634.2	1617.1
-27.5°	1632.5	1638.7	1643.4	1644.8	1644.6	1641.0	1635.1	1626.8	1614.0	1598.0	1577.6
-30°	1591.6	1599.7	1604.9	1606.8	1606.5	1602.8	1596.0	1585.2	1571.5	1555.4	1535.3
-32.5°	1543.6	1551.6	1555.4	1556.1	1556.6	1553.8	1547.5	1537.2	1524.9	1508.5	1488.5
-35°	1490.9	1498.8	1504.1	1506.0	1506.2	1502.6	1495.6	1485.9	1473.8	1459.3	1440.6
-37.5°	1436.4	1443.6	1447.5	1448.4	1449.2	1446.8	1441.1	1431.4	1419.0	1404.8	1381.8
-40°	1374.2	1379.6	1382.3	1382.0	1384.0	1382.5	1377.2	1367.7	1356.6	1342.0	1323.1
-42.5°	1309.0	1315.8	1319.1	1319.3	1320.4	1318.3	1313.1	1304.8	1293.6	1277.9	1259.2
-45°	1237.3	1244.8	1249.3	1250.2	1250.7	1247.6	1241.2	1232.2	1221.2	1208.0	1191.8
-47.5°	1155.6	1160.6	1162.6	1161.4	1164.5	1164.5	1161.5	1154.7	1144.9	1132.1	1115.7
-50°	1073.0	1079.1	1082.0	1081.6	1084.2	1083.5	1079.4	1071.9	1061.2	1047.9	1031.5
-52.5°	980.9	986.8	989.5	989.0	991.7	991.3	987.7	981.2	972.0	960.5	944.8
-55°	878.4	882.6	883.5	881.1	885.5	886.6	884.4	879.4	871.8	861.1	848.0
-57.5°	763.1	765.3	764.4	760.0	766.5	769.6	769.5	766.2	759.3	749.5	736.7
-60°	623.6	625.8	624.3	618.7	627.2	631.5	632.2	629.8	624.7	617.7	609.2
-62.5°	460.0	456.6	449.5	438.7	453.1	464.0	471.5	476.1	477.8	477.1	474.2
-65°	298.7	292.2	282.7	270.2	288.0	302.9	314.8	323.9	330.4	334.3	337.4
-67.5°	165.1	156.7	146.1	133.3	152.2	168.8	183.2	195.5	206.0	215.8	223.5
-70°	76.3	65.8	54.5	42.4	59.9	76.5	92.1	106.2	118.6	129.1	137.2
-72.5°	44.0	36.8	29.1	21.1	32.0	42.5	52.3	61.2	69.1	75.9	81.5
-75°	26.5	22.2	17.6	12.9	18.7	24.4	29.7	34.5	38.7	42.2	44.8
-77.5°	14.3	12.3	10.2	7.9	10.4	12.9	15.1	17.1	18.7	20.0	21.0
-80°	5.7	5.1	4.5	3.9	4.8	5.6	6.4	7.1	7.8	8.4	8.9
-82.5°	3.3	2.9	2.4	2.0	2.5	3.0	3.5	4.0	4.4	4.9	5.3
-85°	2.5	2.1	1.8	1.5	1.8	2.2	2.5	2.8	3.1	3.4	3.7
-87.5°	2.3	2.0	1.7	1.5	1.7	1.9	2.1	2.3	2.5	2.8	3.0
-90°	2.7	2.7	2.6	2.6	2.7	2.7	2.8	2.9	2.9	3.0	3.1



REPORT NUMBER: P670554 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL50DBZ-45W-5000K

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	3.0	3.2	3.4	3.5	3.7	3.5	3.3	3.1	2.9	2.7	2.5
87.5°	7.2	7.2	7.2	7.3	7.3	7.0	6.7	6.4	6.1	5.9	5.6
85°	19.9	19.9	19.7	19.4	19.0	17.8	16.5	15.3	14.4	13.4	12.3
82.5°	50.6	50.3	49.7	48.8	47.3	44.4	41.2	38.1	35.5	32.8	29.9
80°	100.1	99.4	98.2	96.2	93.0	87.1	81.0	75.0	69.7	64.0	57.9
77.5°	171.9	169.3	165.6	161.0	154.6	144.2	133.6	123.7	115.5	106.9	97.7
75°	254.7	250.0	245.1	239.2	230.3	216.5	202.2	187.3	172.2	157.1	142.6
72.5°	351.3	342.9	334.4	325.6	313.0	294.4	274.4	254.5	234.5	214.3	195.6
70°	456.6	444.9	431.8	418.0	400.3	378.9	355.2	331.3	308.0	282.7	256.3
67.5°	563.6	549.8	534.5	517.3	494.0	468.4	442.7	416.2	388.1	355.7	323.5
65°	668.1	651.3	634.4	616.6	590.5	561.8	531.5	499.1	465.8	434.3	400.6
62.5°	774.8	755.4	733.7	710.2	682.1	652.4	623.1	588.0	549.4	509.4	469.1
60°	878.9	860.5	839.4	811.9	778.2	742.5	708.3	671.8	634.3	592.8	545.6
57.5°	973.7	955.8	934.1	905.6	872.1	835.8	796.2	753.7	712.4	669.5	624.7
55°	1055.7	1035.7	1012.3	985.3	955.1	918.1	878.9	836.0	790.2	741.7	695.0
52.5°	1129.2	1108.5	1084.9	1056.5	1024.7	989.2	953.3	909.2	863.7	813.9	761.6
50°	1196.7	1175.8	1151.3	1121.7	1090.3	1055.7	1017.1	975.4	929.9	879.9	826.7
47.5°	1268.1	1243.6	1216.2	1183.3	1151.8	1115.8	1077.7	1035.9	989.5	941.0	885.7
45°	1331.7	1310.1	1282.3	1246.8	1213.0	1172.9	1133.7	1091.4	1045.7	995.3	942.2
42.5°	1389.8	1367.1	1337.5	1306.9	1271.5	1232.0	1187.6	1143.4	1096.7	1046.9	991.9
40°	1443.6	1415.8	1389.0	1359.9	1323.5	1285.9	1241.4	1195.3	1144.6	1093.7	1039.2
37.5°	1493.3	1466.1	1436.6	1404.7	1371.9	1332.7	1291.0	1242.9	1193.1	1137.4	1082.3
35°	1539.0	1512.6	1481.5	1449.1	1413.8	1375.7	1334.6	1288.1	1236.9	1180.6	1121.7
32.5°	1584.0	1554.3	1523.2	1489.2	1454.9	1414.9	1373.0	1327.8	1277.0	1223.8	1157.1
30°	1619.8	1591.3	1562.4	1527.1	1489.1	1452.6	1409.7	1364.8	1313.3	1255.5	1194.8
27.5°	1649.0	1625.3	1594.9	1560.9	1523.8	1482.0	1441.1	1396.3	1347.4	1286.2	1222.8
25°	1674.9	1652.4	1623.5	1591.1	1552.2	1512.9	1468.8	1419.0	1368.4	1312.5	1249.0
22.5°	1699.8	1673.7	1649.2	1616.5	1581.4	1538.7	1492.2	1448.4	1395.9	1338.9	1273.0
20°	1720.9	1695.3	1664.6	1637.2	1602.0	1560.0	1516.0	1465.9	1411.1	1356.0	1292.7
17.5°	1742.0	1712.4	1684.8	1651.0	1617.7	1579.9	1532.9	1483.6	1433.8	1375.2	1310.7
15°	1756.9	1728.2	1699.9	1667.8	1636.4	1594.0	1547.4	1500.1	1447.2	1388.7	1326.4
12.5°	1771.9	1744.8	1709.8	1680.2	1642.6	1605.0	1562.2	1512.2	1458.7	1398.1	1337.4
10°	1782.2	1752.5	1721.3	1687.7	1651.4	1613.8	1570.0	1520.4	1468.2	1409.4	1346.8
7.5°	1791.0	1759.9	1731.6	1693.6	1659.5	1622.6	1575.9	1525.6	1474.6	1417.3	1353.2
5°	1793.0	1762.9	1734.1	1698.1	1663.9	1625.8	1579.2	1529.3	1477.9	1420.5	1356.5
2.5°	1791.9	1762.8	1734.7	1699.8	1665.6	1624.7	1579.6	1530.0	1478.2	1421.0	1356.7
0°	1789.6	1759.7	1732.8	1698.5	1664.2	1622.1	1577.0	1527.6	1475.7	1418.7	1354.0
-2.5°	1783.7	1754.5	1727.2	1693.2	1658.7	1616.8	1571.4	1522.2	1470.6	1413.6	1349.1
-5°	1773.7	1746.4	1719.2	1684.9	1649.8	1609.7	1563.0	1513.9	1462.9	1405.5	1341.3
-7.5°	1760.4	1735.5	1709.1	1671.9	1637.8	1598.8	1551.8	1502.8	1452.5	1394.5	1330.9
-10°	1747.4	1720.8	1692.9	1656.0	1620.9	1583.6	1537.5	1488.7	1439.3	1380.1	1317.7
-12.5°	1729.3	1705.7	1675.2	1644.2	1602.1	1564.7	1519.8	1471.6	1421.8	1363.1	1299.9
-15°	1708.5	1683.7	1650.4	1621.9	1586.6	1543.4	1499.2	1452.7	1401.5	1343.0	1278.3
-17.5°	1686.1	1659.2	1632.2	1592.0	1560.9	1519.8	1475.0	1430.6	1378.4	1320.2	1255.1
-20°	1657.8	1633.5	1600.6	1571.8	1532.4	1492.2	1449.4	1404.0	1352.6	1294.8	1230.0



REPORT NUMBER: P670554 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL50DBZ-45W-5000K

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	1628.7	1601.7	1574.7	1538.7	1502.4	1460.9	1421.2	1374.4	1321.0	1263.2	1202.1
-25°	1593.1	1569.7	1538.4	1505.5	1469.1	1431.0	1388.1	1342.8	1289.8	1230.6	1169.3
-27.5°	1556.4	1529.9	1500.6	1468.9	1433.7	1394.1	1352.3	1303.4	1251.3	1195.8	1136.1
-30°	1513.4	1487.8	1460.2	1429.0	1392.1	1354.0	1310.1	1263.8	1212.0	1156.2	1093.6
-32.5°	1468.3	1443.3	1416.0	1382.0	1347.7	1308.6	1267.1	1219.5	1167.8	1113.4	1051.3
-35°	1419.7	1391.0	1364.3	1333.4	1297.7	1261.2	1218.4	1171.7	1122.4	1062.9	1006.2
-37.5°	1360.8	1336.7	1311.1	1278.7	1246.6	1208.4	1165.8	1120.6	1066.6	1015.7	959.8
-40°	1302.6	1277.0	1253.0	1223.5	1189.4	1150.1	1108.5	1060.3	1014.5	962.0	908.2
-42.5°	1239.9	1218.2	1191.3	1160.8	1124.7	1086.3	1044.0	1002.8	955.5	906.4	851.7
-45°	1172.3	1149.1	1120.4	1088.8	1054.9	1019.4	981.0	940.0	894.1	843.8	788.5
-47.5°	1093.9	1069.3	1043.6	1015.3	985.6	950.3	913.5	871.1	825.3	774.5	721.6
-50°	1012.1	991.3	967.8	940.3	910.5	876.0	837.1	795.0	749.3	702.0	653.4
-52.5°	927.2	907.7	885.1	857.4	825.7	790.7	753.2	713.0	671.2	626.4	576.7
-55°	831.5	812.3	789.1	762.2	732.6	700.2	665.9	628.3	587.4	541.4	490.7
-57.5°	721.3	704.1	685.9	663.5	635.9	605.3	571.6	533.4	491.9	451.1	408.8
-60°	599.5	587.7	574.7	556.4	529.1	498.5	466.0	434.0	400.3	363.3	323.9
-62.5°	468.6	460.5	450.9	438.3	416.5	393.2	367.3	339.4	309.4	278.5	244.9
-65°	338.8	338.0	335.3	330.2	314.4	295.0	273.5	250.3	225.2	200.5	177.6
-67.5°	229.0	232.6	233.5	232.1	220.5	204.7	188.2	171.8	155.4	140.7	125.7
-70°	143.6	147.4	148.2	147.9	141.8	132.5	122.9	113.3	103.3	94.5	86.4
-72.5°	85.4	87.4	88.3	88.0	85.0	80.5	75.7	70.8	65.6	59.8	53.8
-75°	46.5	47.5	47.8	47.1	45.4	43.8	41.4	38.9	36.6	33.4	30.2
-77.5°	21.9	22.4	22.5	22.1	21.5	20.9	19.8	18.8	18.4	17.7	16.5
-80°	9.3	9.6	9.7	10.0	10.3	10.5	10.4	10.0	9.6	8.9	8.0
-82.5°	5.7	6.0	6.4	6.7	6.9	6.7	6.3	5.9	5.6	5.3	4.9
-85°	4.0	4.2	4.5	4.7	4.9	4.6	4.4	4.1	3.9	3.6	3.3
-87.5°	3.2	3.4	3.6	3.8	4.0	3.8	3.6	3.3	3.1	2.9	2.6
-90°	3.1	3.2	3.3	3.3	3.4	3.3	3.3	3.2	3.1	3.1	3.0



REPORT NUMBER: P670554 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL50DBZ-45W-5000K

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	2.3	2.1	1.9	1.7	1.5	1.3	1.3	1.4	1.4	1.4	1.4
87.5°	5.4	5.1	4.9	4.6	4.4	4.1	3.8	3.5	3.2	2.9	2.7
85°	11.2	9.9	8.7	7.9	7.2	6.6	5.7	4.9	4.3	3.8	3.4
82.5°	27.0	24.2	21.4	18.4	15.3	13.1	10.4	7.9	6.2	5.2	4.2
80°	52.1	46.3	40.3	35.5	31.0	26.1	20.1	14.8	10.7	7.9	5.5
77.5°	88.0	78.0	69.2	59.9	51.4	42.3	32.8	25.0	18.2	12.6	8.5
75°	128.1	116.2	104.3	91.7	78.8	65.2	49.8	37.2	27.1	19.0	12.7
72.5°	176.9	158.6	141.1	124.3	109.8	91.9	71.5	53.6	38.5	26.5	17.9
70°	229.7	204.3	182.0	161.1	141.1	118.0	94.9	72.8	53.0	36.2	23.7
67.5°	293.5	262.2	229.8	199.3	174.3	146.2	117.8	92.5	69.1	48.2	31.2
65°	362.4	321.8	286.2	250.2	211.2	175.1	142.9	112.4	85.3	61.2	40.0
62.5°	432.8	393.1	345.8	301.6	259.1	209.3	168.4	134.0	101.9	74.1	50.1
60°	498.1	453.2	411.6	361.8	303.9	250.2	198.2	155.9	119.9	87.5	60.1
57.5°	572.8	517.6	464.9	420.3	357.7	289.9	233.2	179.4	138.3	101.8	70.3
55°	644.9	589.5	527.1	467.3	407.4	336.3	267.2	209.1	156.9	116.6	80.6
52.5°	709.4	655.1	594.5	521.1	447.5	381.7	305.1	236.4	178.7	131.3	91.9
50°	770.4	713.4	654.7	579.6	494.0	419.5	345.3	267.0	201.7	146.2	103.0
47.5°	828.9	768.5	705.7	631.3	546.5	457.3	382.8	299.3	223.2	162.7	114.5
45°	882.1	821.0	752.1	676.3	595.9	501.4	414.1	332.1	248.5	179.9	125.5
42.5°	933.3	868.8	797.7	719.5	636.2	547.5	445.6	364.0	273.4	196.3	136.1
40°	979.4	911.9	840.6	762.4	674.8	586.5	484.0	390.2	297.2	213.1	147.6
37.5°	1021.4	953.7	878.6	801.4	713.7	619.4	522.4	415.0	324.2	232.0	159.0
35°	1058.7	991.0	917.3	837.6	750.9	651.2	556.3	441.4	347.7	249.3	169.6
32.5°	1092.3	1024.7	951.7	869.0	783.8	684.6	581.9	471.7	367.6	264.6	179.5
30°	1123.0	1054.7	981.9	900.9	813.4	716.0	606.0	500.5	385.0	281.1	189.2
27.5°	1152.4	1081.7	1008.7	929.3	839.5	744.0	629.6	526.9	400.0	299.0	200.9
25°	1182.3	1105.9	1032.3	954.0	863.3	768.3	654.8	543.9	418.4	315.0	211.4
22.5°	1204.7	1128.4	1053.0	974.8	886.0	789.1	677.8	558.6	437.3	326.9	219.9
20°	1224.0	1149.4	1071.3	992.6	905.7	807.6	698.2	572.4	454.1	337.4	226.1
17.5°	1241.5	1168.2	1086.7	1007.7	922.8	822.5	715.5	584.1	468.7	346.1	230.8
15°	1256.1	1182.0	1099.8	1019.8	935.9	835.3	728.6	594.8	481.0	351.6	234.1
12.5°	1267.1	1192.6	1111.2	1029.5	945.7	846.2	739.3	606.0	490.7	355.4	237.6
10°	1274.8	1200.9	1120.1	1036.9	953.1	854.7	747.5	614.6	495.5	357.7	241.6
7.5°	1279.8	1206.5	1126.0	1041.8	957.9	860.6	752.5	620.6	497.4	358.4	243.9
5°	1282.8	1209.3	1128.8	1044.2	960.3	863.8	755.0	623.7	497.3	357.5	244.3
2.5°	1282.7	1209.3	1128.7	1044.1	960.2	864.4	755.1	623.9	495.3	355.1	242.9
0°	1279.6	1206.4	1125.8	1041.4	957.8	862.2	752.6	621.0	491.4	351.2	239.6
-2.5°	1275.1	1202.0	1121.4	1037.1	953.6	857.9	748.8	617.8	489.0	349.5	237.7
-5°	1267.7	1194.7	1114.3	1030.4	947.0	850.8	742.4	611.4	484.8	346.3	234.0
-7.5°	1257.3	1184.8	1104.4	1021.1	938.0	841.0	733.6	601.9	478.6	341.5	228.6
-10°	1244.7	1172.3	1091.5	1009.4	926.5	828.5	722.3	589.4	470.5	335.2	221.3
-12.5°	1229.6	1156.7	1076.0	995.3	912.5	813.4	707.8	573.9	459.4	327.2	212.4
-15°	1210.8	1136.9	1058.0	978.6	896.0	795.8	690.6	555.7	443.3	317.6	204.6
-17.5°	1188.0	1114.2	1036.8	959.3	875.9	776.0	671.0	538.0	424.8	306.4	197.4
-20°	1163.9	1088.9	1012.9	936.9	851.2	753.7	646.8	519.3	403.8	291.8	189.4

Classified

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report



REPORT NUMBER: P670554 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: ARFL50DBZ-45W-5000K

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1135.5	1061.9	988.0	911.6	823.8	728.8	619.2	498.5	381.2	275.3	180.4
-25°	1101.7	1031.6	959.9	883.8	793.8	701.4	588.1	476.7	356.9	257.3	169.0
-27.5°	1066.3	997.6	928.2	850.9	762.0	669.8	553.2	452.7	332.9	236.6	155.5
-30°	1030.4	963.8	893.2	813.3	728.0	633.9	521.0	419.3	311.4	214.3	141.1
-32.5°	988.2	925.0	855.2	773.4	691.6	593.5	488.9	383.9	287.3	195.4	130.0
-35°	947.3	882.3	809.8	732.1	650.4	547.6	455.4	348.7	260.3	180.2	119.8
-37.5°	900.1	835.7	762.2	689.1	603.4	505.8	413.7	316.0	231.5	162.4	109.3
-40°	849.6	782.4	713.7	640.9	550.3	463.9	368.8	283.7	201.2	141.9	98.7
-42.5°	791.2	727.9	662.9	586.5	499.6	416.2	325.8	249.1	180.4	126.0	87.9
-45°	730.2	672.6	605.7	524.8	449.1	363.2	285.8	213.5	157.8	112.2	77.0
-47.5°	668.3	609.6	540.5	468.2	390.3	314.0	245.0	183.4	132.5	98.2	65.9
-50°	599.3	537.6	475.3	405.8	333.2	266.3	204.4	157.4	116.3	84.2	54.9
-52.5°	520.4	465.1	405.7	340.9	277.5	220.3	172.6	129.1	99.4	70.2	45.2
-55°	442.8	389.7	334.1	278.8	225.6	180.1	141.2	110.5	82.4	56.9	36.1
-57.5°	361.4	314.9	266.1	221.0	180.9	146.6	116.2	90.5	66.0	44.9	29.0
-60°	284.9	243.8	206.3	173.8	144.4	117.2	94.2	71.3	50.6	34.4	22.4
-62.5°	213.0	183.6	158.5	133.6	113.7	93.1	72.4	53.7	37.9	26.3	16.2
-65°	156.4	136.8	116.5	103.5	86.9	68.9	52.6	38.7	28.2	18.8	11.2
-67.5°	109.9	99.4	87.2	74.0	61.0	47.7	36.2	27.8	19.4	12.5	7.7
-70°	77.4	67.8	57.9	49.0	40.1	31.6	25.3	17.9	12.1	7.9	5.4
-72.5°	47.8	41.8	35.8	29.7	26.0	20.6	14.2	10.4	7.4	5.3	3.9
-75°	26.4	24.1	21.7	18.0	13.4	10.6	7.9	6.1	4.8	3.7	3.1
-77.5°	14.7	12.2	10.6	8.7	7.0	5.5	4.7	4.0	3.4	2.9	2.5
-80°	7.2	6.4	5.4	4.8	4.3	3.8	3.4	2.9	2.6	2.2	1.9
-82.5°	4.6	4.2	3.8	3.4	3.0	2.5	2.3	2.0	1.8	1.7	1.6
-85°	3.0	2.7	2.4	2.1	1.8	1.6	1.5	1.5	1.4	1.5	1.5
-87.5°	2.4	2.2	2.0	1.7	1.5	1.3	1.3	1.4	1.4	1.4	1.4
-90°	2.9	2.9	2.8	2.7	2.7	2.6	2.5	2.4	2.4	2.3	2.2

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REPORT NUMBER: P670554 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: ARFL50DBZ-45W-5000K

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	1.5	1.5	1.5	1.5	1.6	1.6	1.6
87.5°	2.5	2.3	2.1	1.9	1.8	1.7	1.6
85°	2.9	2.6	2.3	2.0	1.9	1.7	1.6
82.5°	3.5	3.0	2.5	2.1	1.9	1.7	1.6
80°	4.4	3.4	2.8	2.3	1.9	1.7	1.6
77.5°	5.7	4.1	3.1	2.5	2.0	1.7	1.6
75°	8.0	5.1	3.6	2.7	2.1	1.7	1.6
72.5°	11.2	6.7	4.0	2.9	2.2	1.8	1.6
70°	14.8	8.6	5.0	3.1	2.3	1.8	1.6
67.5°	19.3	11.0	5.9	3.4	2.4	1.8	1.6
65°	24.3	13.8	7.1	3.7	2.5	1.8	1.6
62.5°	29.8	16.9	8.6	4.3	2.6	1.8	1.6
60°	37.0	20.3	9.9	4.7	2.7	1.9	1.6
57.5°	44.5	24.0	11.9	5.2	2.8	1.9	1.6
55°	51.8	28.1	13.9	5.9	2.8	1.9	1.6
52.5°	58.7	33.4	15.8	6.6	2.9	1.9	1.6
50°	66.4	38.4	17.9	7.2	3.1	2.0	1.6
47.5°	73.9	43.0	19.9	7.8	3.3	2.0	1.6
45°	81.9	47.3	22.0	8.8	3.4	2.0	1.6
42.5°	89.3	51.7	25.1	9.8	3.5	2.0	1.6
40°	97.3	56.5	27.9	10.6	3.7	2.0	1.6
37.5°	104.7	60.8	30.5	11.3	3.7	2.1	1.6
35°	111.6	65.3	32.7	12.1	3.9	2.1	1.6
32.5°	117.9	69.5	34.6	12.8	4.0	2.1	1.6
30°	123.5	73.3	36.2	13.3	4.1	2.1	1.6
27.5°	129.4	76.8	37.6	13.8	4.1	2.1	1.6
25°	134.6	80.4	38.9	14.1	4.2	2.1	1.6
22.5°	138.8	83.4	40.5	14.4	4.2	2.1	1.6
20°	142.3	85.9	41.7	14.7	4.1	2.1	1.6
17.5°	145.4	87.9	42.7	15.3	4.1	2.1	1.6
15°	147.6	89.3	43.3	15.6	4.0	2.1	1.6
12.5°	148.8	90.2	43.7	15.9	3.9	2.1	1.6
10°	149.3	90.6	43.7	15.9	3.8	2.1	1.6
7.5°	148.8	90.4	43.4	15.8	3.7	2.0	1.6
5°	147.6	89.7	42.9	15.6	3.5	2.0	1.6
2.5°	145.5	88.5	42.0	15.2	3.4	2.0	1.6
0°	142.7	86.9	40.9	14.7	3.2	2.0	1.6
-2.5°	141.9	86.4	40.6	14.6	3.2	2.0	1.6
-5°	140.5	85.4	40.1	14.4	3.2	2.0	1.6
-7.5°	138.3	84.0	39.4	14.0	3.2	2.0	1.6
-10°	135.4	82.1	38.4	13.5	3.2	2.0	1.6
-12.5°	131.9	79.7	37.1	12.9	3.1	2.0	1.6
-15°	127.7	76.8	35.6	12.2	3.1	2.0	1.6
-17.5°	122.9	73.5	33.9	11.4	3.1	2.0	1.6
-20°	117.4	69.8	32.0	10.4	3.0	2.0	1.6

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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	111.9	65.7	29.9	9.7	3.0	1.9	1.6
-25°	106.0	61.1	27.5	9.2	2.9	1.9	1.6
-27.5°	99.6	56.2	25.6	8.7	2.8	1.9	1.6
-30°	92.6	51.6	23.8	8.1	2.8	1.9	1.6
-32.5°	85.5	47.1	21.8	7.5	2.7	1.9	1.6
-35°	77.9	42.2	19.7	6.8	2.6	1.9	1.6
-37.5°	70.0	37.4	17.4	6.2	2.5	1.9	1.6
-40°	61.8	33.1	15.1	5.5	2.5	1.8	1.6
-42.5°	53.4	28.6	12.7	4.9	2.4	1.8	1.6
-45°	46.2	24.6	10.1	4.2	2.3	1.8	1.6
-47.5°	38.8	21.1	8.8	3.5	2.2	1.8	1.6
-50°	32.7	17.4	7.6	3.2	2.2	1.8	1.6
-52.5°	26.8	14.0	6.4	3.0	2.1	1.7	1.6
-55°	21.8	10.5	5.3	2.8	2.0	1.7	1.6
-57.5°	16.8	8.3	4.3	2.6	2.0	1.7	1.6
-60°	12.6	6.7	3.4	2.4	1.9	1.6	1.6
-62.5°	8.8	5.3	3.1	2.3	1.9	1.6	1.6
-65°	6.7	4.0	2.8	2.1	1.8	1.6	1.6
-67.5°	5.0	3.2	2.5	2.0	1.8	1.6	1.6
-70°	3.7	2.8	2.2	1.9	1.7	1.6	1.6
-72.5°	3.0	2.4	2.0	1.8	1.7	1.6	1.6
-75°	2.5	2.1	1.9	1.7	1.6	1.6	1.6
-77.5°	2.1	1.9	1.8	1.7	1.6	1.6	1.6
-80°	1.8	1.7	1.6	1.6	1.6	1.6	1.6
-82.5°	1.6	1.6	1.6	1.5	1.6	1.6	1.6
-85°	1.5	1.5	1.5	1.5	1.6	1.6	1.6
-87.5°	1.5	1.5	1.5	1.5	1.6	1.6	1.6
-90°	2.1	2.0	1.9	1.9	1.8	1.7	1.6

(END OF REPORT)