

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: P670552 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: ARFL50DBZ-45W-3500K

Issue Date: 3/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P670552 (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-3500K  
Description: SLIM WALL OR FLOODLIGHT  
Light Source:  
Ballast/Driver: -

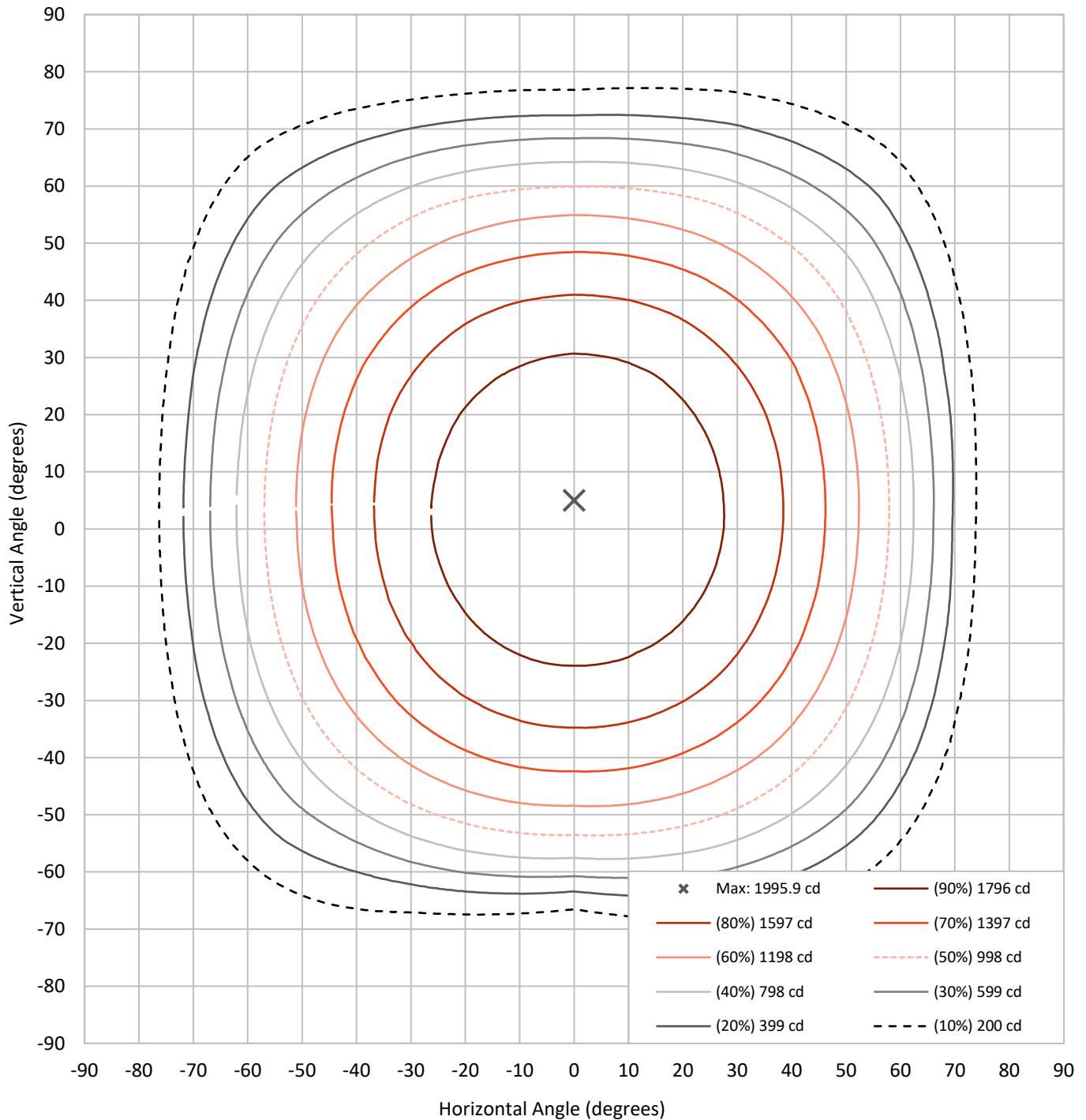
**Summary**

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	5541.2 lumens	Max Intensity:	1995.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 5°V
Efficacy:	124.2 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:	4439.3 lumens	Field Lumens:	5458.2 lumens
Beam Efficiency:	80.1%	Field Efficiency:	98.5%
Input Watts (W):	44.6		
Input Voltage (V):	120		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		



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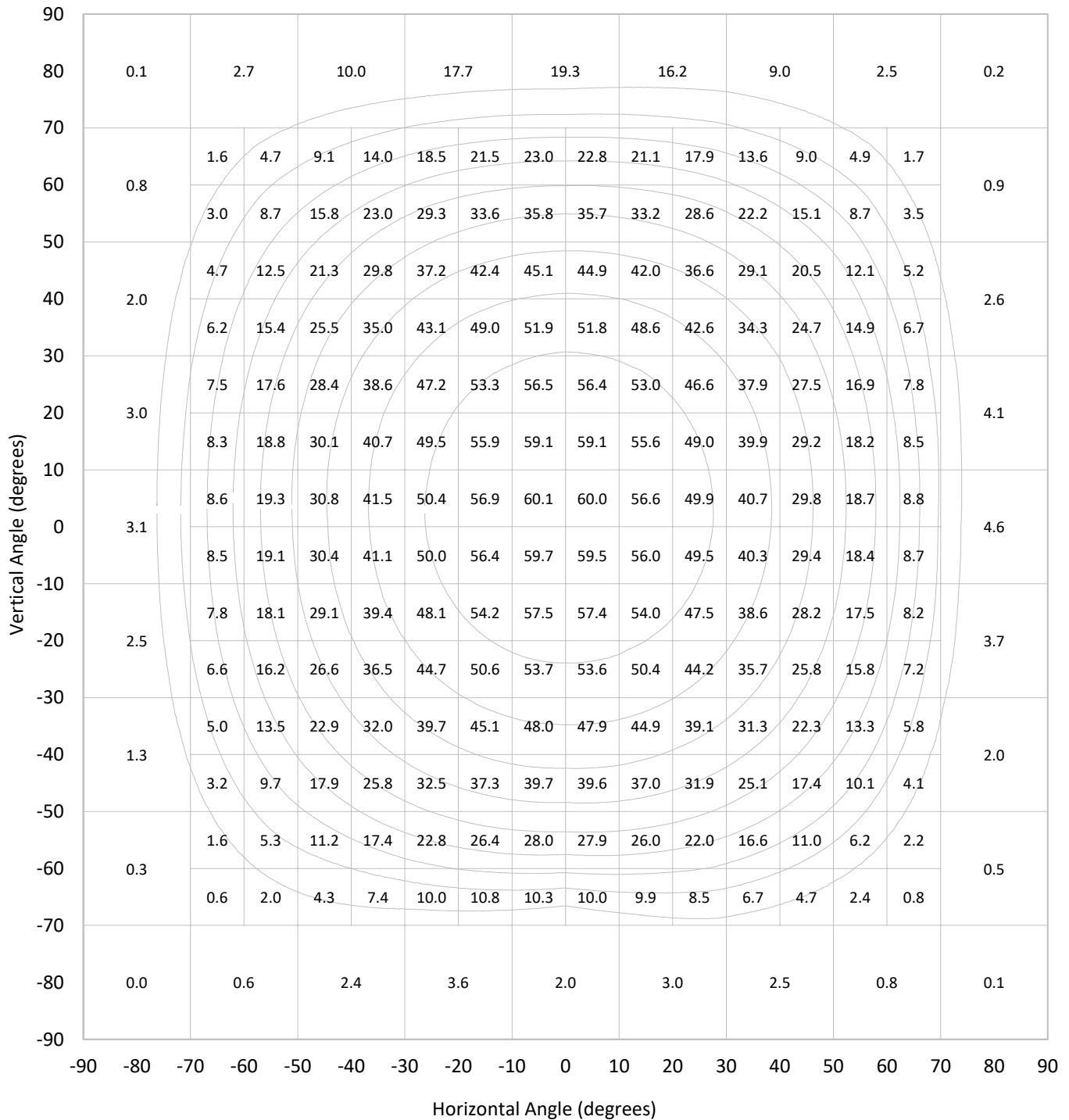
### Iso-Candela Plot





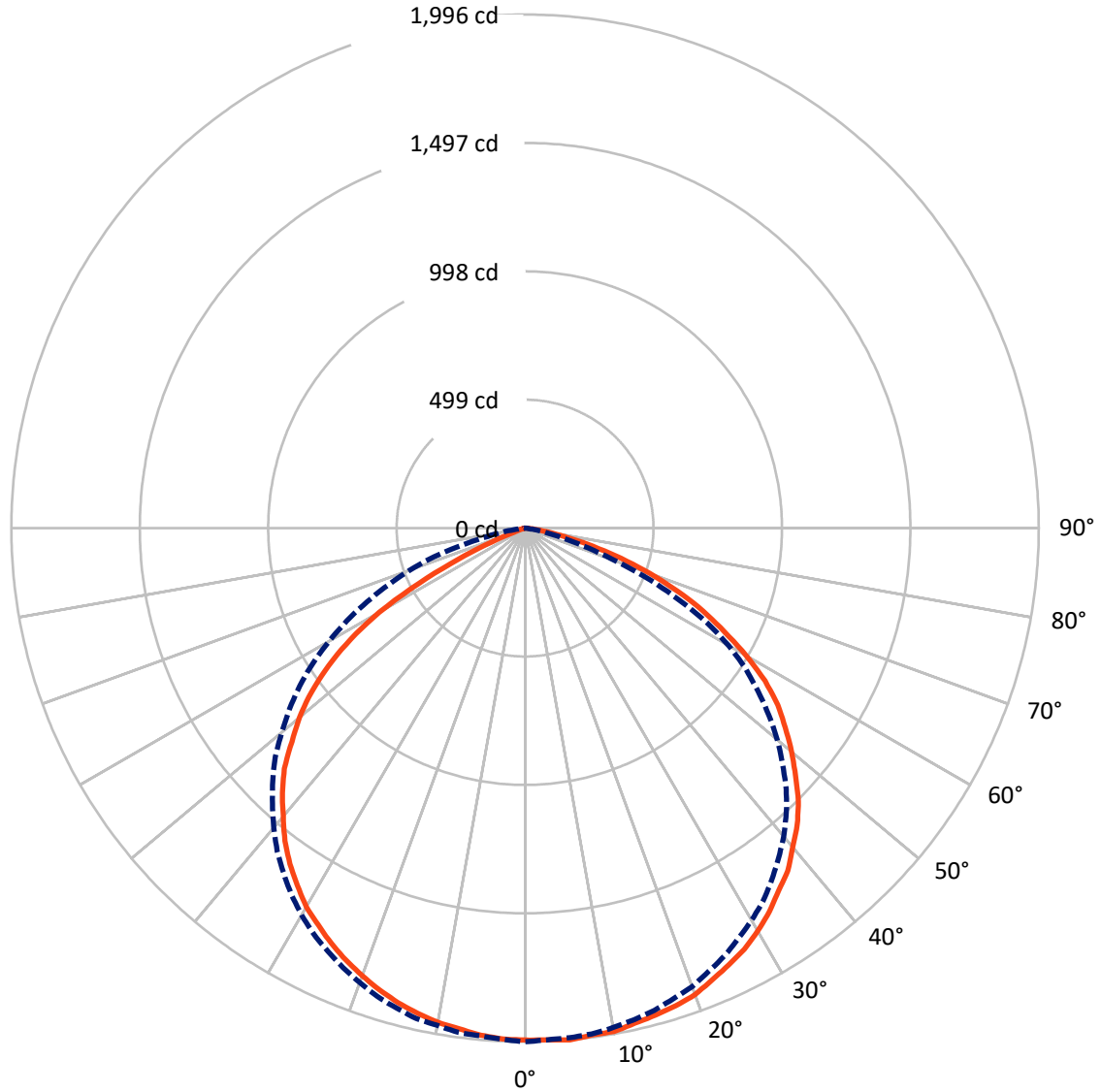
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### Lumen Table



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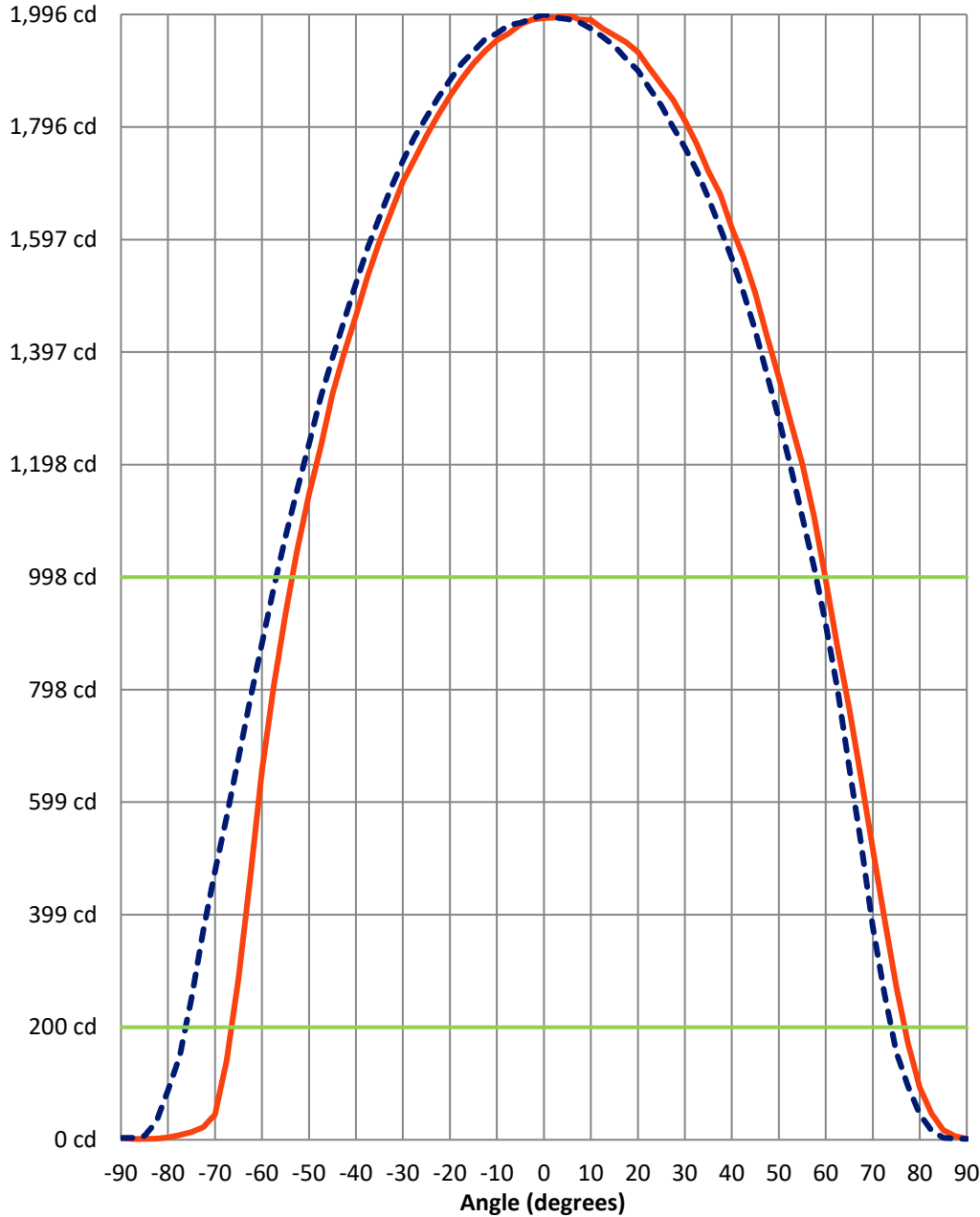
### Luminous Intensity Polar Plot



— 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: 4439.3  
 Efficiency: 80.1%

**Field:**  
 H Angle: 150.2°  
 V Angle: 143.3°  
 Lumens: 5458.2  
 Efficiency: 98.5%

**Spill:**  
 Lumens: 83  
 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°	3.3	3.3	3.2	3.2	3.1	3.1	3.0	3.0	2.9	2.9	2.8
87.5°	3.3	3.3	3.4	3.5	3.6	3.8	4.0	4.1	4.4	4.6	4.9
85°	3.3	3.4	3.5	3.6	3.8	4.1	4.5	4.9	5.3	5.8	6.5
82.5°	3.3	3.4	3.5	3.7	4.1	4.5	5.0	5.8	6.7	7.7	9.2
80°	3.3	3.4	3.6	3.9	4.3	5.0	5.9	7.0	9.1	11.4	15.2
77.5°	3.3	3.4	3.6	4.0	4.7	5.6	7.1	9.5	13.4	19.1	25.4
75°	3.3	3.4	3.7	4.2	5.1	6.5	9.0	13.9	20.3	27.3	37.1
72.5°	3.3	3.4	3.8	4.4	5.5	7.9	12.6	19.4	27.0	39.9	55.7
70°	3.3	3.4	3.8	4.6	6.4	10.0	16.7	24.7	38.8	57.3	76.7
67.5°	3.3	3.4	3.9	4.9	7.2	13.0	20.9	34.3	54.1	75.3	97.2
65°	3.3	3.4	4.0	5.2	8.7	15.9	26.9	46.2	69.8	93.6	122.9
62.5°	3.3	3.5	4.1	5.7	10.6	18.9	34.9	60.4	84.3	116.2	153.4
60°	3.3	3.5	4.2	6.2	12.4	23.3	45.7	72.0	103.7	141.5	186.8
57.5°	3.3	3.5	4.3	6.7	14.5	29.3	57.2	85.8	124.4	168.7	223.3
55°	3.3	3.5	4.3	7.8	16.4	36.0	66.2	102.5	145.8	198.1	262.8
52.5°	3.3	3.5	4.4	8.8	18.7	44.9	75.5	119.2	167.4	230.1	297.8
50°	3.3	3.5	4.7	9.8	22.8	53.5	89.2	135.6	191.0	262.4	333.4
47.5°	3.3	3.5	4.8	10.7	26.6	59.9	102.4	152.2	216.4	292.5	369.0
45°	3.3	3.6	5.0	11.8	30.6	66.0	114.7	169.0	242.9	321.8	403.0
42.5°	3.3	3.6	5.2	12.8	36.6	74.0	126.2	185.9	267.9	351.4	433.9
40°	3.3	3.6	5.3	13.7	42.2	83.9	137.8	204.8	291.6	381.1	460.8
37.5°	3.3	3.6	5.4	14.6	47.6	93.3	148.5	224.3	313.6	407.0	489.1
35°	3.3	3.6	5.7	16.2	51.7	101.5	159.3	242.9	336.0	430.2	515.3
32.5°	3.3	3.6	6.0	18.1	55.1	108.7	169.8	260.6	359.0	450.3	538.5
30°	3.3	3.6	6.3	19.8	58.2	115.3	179.2	276.9	379.3	470.7	558.8
27.5°	3.3	3.6	6.5	21.3	61.1	121.4	190.8	290.9	397.1	490.2	577.2
25°	3.3	3.6	6.7	22.6	64.4	126.9	201.8	303.6	413.0	506.9	597.0
22.5°	3.3	3.6	6.9	23.7	69.1	131.8	211.6	316.2	425.4	521.5	615.0
20°	3.3	3.6	7.0	25.1	73.4	135.9	220.4	329.3	436.4	534.1	630.3
17.5°	3.3	3.6	7.1	27.0	77.1	139.3	228.7	340.8	446.2	544.1	643.5
15°	3.3	3.6	7.1	28.5	80.3	142.4	235.7	350.8	455.5	552.4	654.5
12.5°	3.3	3.6	7.1	29.7	83.0	145.0	241.4	358.6	463.2	559.1	663.1
10°	3.3	3.6	7.1	30.7	85.1	146.8	245.9	364.0	469.1	565.4	669.7
7.5°	3.3	3.5	7.0	31.3	86.6	147.9	249.0	367.9	473.4	570.2	674.3
5°	3.3	3.5	6.9	31.7	87.6	148.3	250.8	370.2	475.9	573.0	676.9
2.5°	3.3	3.5	6.8	31.7	88.0	148.0	251.2	371.0	476.7	573.9	677.5
0°	3.3	3.5	6.7	31.5	87.8	147.1	250.2	370.2	475.8	572.7	676.0
-2.5°	3.3	3.5	6.7	31.2	86.8	145.7	247.8	367.2	472.5	569.3	672.5
-5°	3.3	3.5	6.7	30.5	85.3	143.7	244.0	362.6	467.4	563.9	667.0
-7.5°	3.3	3.5	6.6	29.6	83.2	141.1	238.9	356.4	460.6	556.6	659.4
-10°	3.3	3.5	6.5	28.5	80.5	137.9	232.4	348.6	452.1	547.2	649.8
-12.5°	3.3	3.5	6.4	27.0	77.3	134.0	224.5	339.3	441.9	536.5	638.2
-15°	3.3	3.5	6.3	25.3	73.6	129.6	215.4	327.6	430.0	525.2	624.6
-17.5°	3.3	3.5	6.2	23.4	69.4	124.9	205.0	313.6	416.4	512.3	608.8
-20°	3.3	3.5	6.0	21.2	64.7	120.1	193.4	298.1	402.7	497.7	590.9

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**CANDELA DISTRIBUTION (continued):**

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	3.3	3.5	5.9	19.5	59.6	114.8	181.9	281.0	387.8	480.3	571.0
-25°	3.3	3.5	5.7	18.2	54.1	109.1	170.1	264.7	371.6	460.8	548.2
-27.5°	3.3	3.5	5.5	16.7	50.1	102.9	157.5	248.7	351.2	439.3	523.6
-30°	3.3	3.4	5.2	15.2	46.8	96.2	144.7	231.6	328.8	415.2	500.1
-32.5°	3.3	3.4	5.0	13.5	43.2	89.1	134.8	211.7	303.7	390.6	474.6
-35°	3.3	3.4	4.7	11.8	39.5	81.5	124.3	190.2	276.0	366.9	445.7
-37.5°	3.3	3.4	4.5	10.3	35.3	73.0	113.9	169.5	249.6	339.0	414.2
-40°	3.3	3.4	4.4	9.5	30.2	63.2	104.3	150.4	224.9	307.4	381.3
-42.5°	3.3	3.4	4.3	8.7	25.1	53.1	94.4	132.8	197.5	272.2	351.1
-45°	3.3	3.4	4.1	7.8	19.8	45.2	83.5	118.3	168.4	238.3	314.1
-47.5°	3.3	3.4	4.0	7.0	16.5	39.6	72.3	104.6	144.6	206.7	273.5
-50°	3.3	3.4	3.9	6.3	13.7	33.7	59.5	92.0	123.4	172.0	232.7
-52.5°	3.3	3.4	3.7	5.8	10.8	26.8	46.4	78.4	105.4	142.0	195.1
-55°	3.3	3.3	3.7	5.2	9.2	19.8	38.4	64.1	90.4	117.0	154.9
-57.5°	3.3	3.3	3.6	4.7	8.0	15.2	31.1	48.8	74.5	96.7	123.8
-60°	3.3	3.3	3.6	4.4	6.7	11.6	23.0	37.2	57.7	79.8	99.3
-62.5°	3.3	3.3	3.5	4.2	5.9	9.1	15.8	28.5	40.8	60.8	79.5
-65°	3.3	3.3	3.5	3.9	5.2	7.6	11.7	19.7	30.3	42.5	58.9
-67.5°	3.3	3.3	3.4	3.7	4.6	6.3	8.8	13.4	20.9	29.2	39.3
-70°	3.3	3.3	3.4	3.6	4.2	5.3	7.0	9.3	13.4	19.3	25.6
-72.5°	3.3	3.3	3.4	3.6	3.9	4.6	5.8	7.3	9.1	12.2	15.9
-75°	3.3	3.3	3.3	3.5	3.7	4.1	4.8	5.9	7.0	8.5	10.2
-77.5°	3.3	3.3	3.3	3.4	3.6	3.8	4.2	4.8	5.5	6.4	7.4
-80°	3.3	3.3	3.3	3.3	3.4	3.6	3.8	4.1	4.5	5.0	5.6
-82.5°	3.3	3.3	3.3	3.3	3.3	3.4	3.5	3.7	3.9	4.1	4.4
-85°	3.3	3.3	3.2	3.2	3.2	3.3	3.3	3.4	3.5	3.6	3.7
-87.5°	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
-90°	3.3	3.3	3.4	3.4	3.4	3.5	3.5	3.5	3.6	3.6	3.6





REPORT NUMBER: P670552 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ARFL50DBZ-45W-3500K

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	2.8	2.7	2.9	3.0	3.2	3.4	3.5	3.7	3.9	4.0	4.2
87.5°	5.2	5.5	5.6	5.7	5.8	5.9	6.0	6.0	6.1	6.1	6.2
85°	7.3	8.1	8.6	8.9	9.4	10.2	10.9	11.5	12.2	12.7	13.2
82.5°	11.3	13.5	15.1	18.0	20.7	23.2	25.5	27.8	30.0	32.2	34.4
80°	20.5	26.3	30.2	33.8	37.9	43.8	49.3	54.6	60.4	65.8	70.7
77.5°	32.1	40.8	49.9	58.3	67.2	75.7	83.5	90.8	98.0	105.0	111.4
75°	49.9	64.8	77.7	88.3	98.6	109.2	119.8	133.3	145.6	158.1	169.2
72.5°	73.5	90.2	105.5	119.1	137.4	155.7	174.4	192.6	210.0	227.6	244.7
70°	95.6	116.7	141.4	165.7	190.3	216.1	241.3	266.0	289.3	312.5	335.1
67.5°	122.8	154.1	189.5	222.1	254.5	285.0	312.9	342.7	372.1	402.0	429.3
65°	158.0	199.1	246.2	284.8	316.6	352.1	386.6	420.6	453.4	485.1	517.7
62.5°	197.6	248.9	300.2	340.2	380.3	418.5	456.2	493.0	532.0	567.2	600.6
60°	241.1	296.7	349.7	397.2	439.4	480.5	524.1	565.4	604.7	644.1	682.9
57.5°	284.4	342.1	398.8	450.2	495.1	543.7	588.5	633.0	678.3	722.1	765.4
55°	324.5	387.2	445.6	499.9	552.6	601.8	651.7	702.4	750.6	800.8	850.6
52.5°	365.6	430.2	488.9	550.3	605.4	660.1	715.5	769.4	824.2	881.1	931.9
50°	405.1	469.4	535.1	596.5	658.3	718.3	777.0	835.9	897.2	950.6	999.8
47.5°	441.7	509.9	576.4	642.6	710.7	773.8	837.0	901.5	959.7	1012.4	1061.5
45°	474.4	547.6	616.4	689.5	758.5	826.6	895.7	959.0	1015.8	1069.3	1123.5
42.5°	509.6	582.0	657.4	730.9	805.1	880.2	948.0	1009.8	1068.3	1126.9	1179.9
40°	540.6	616.4	696.0	774.2	852.3	925.6	993.5	1058.4	1121.6	1179.9	1234.5
37.5°	568.8	650.6	731.5	812.0	892.7	967.1	1039.0	1107.2	1170.0	1230.0	1283.4
35°	595.8	682.5	767.4	852.4	931.7	1007.4	1079.9	1150.4	1216.1	1274.0	1326.9
32.5°	623.6	710.6	797.7	884.6	965.0	1042.7	1118.1	1190.2	1256.7	1312.1	1367.3
30°	649.2	739.7	829.8	915.8	998.5	1076.8	1153.0	1225.7	1288.3	1349.5	1405.7
27.5°	672.2	765.1	856.9	943.2	1026.8	1107.2	1184.1	1254.8	1321.0	1381.7	1441.0
25°	692.1	786.4	880.2	968.6	1052.8	1134.5	1211.6	1279.5	1347.1	1411.5	1468.3
22.5°	711.4	808.4	901.6	992.1	1076.2	1158.1	1234.2	1306.1	1373.4	1436.5	1494.4
20°	729.7	827.9	920.2	1010.8	1096.9	1178.1	1253.0	1326.7	1395.3	1456.1	1515.1
17.5°	744.8	842.6	936.5	1027.1	1114.1	1195.3	1269.9	1345.0	1412.7	1475.5	1536.3
15°	755.9	855.0	950.4	1040.6	1128.3	1208.7	1287.0	1361.4	1426.4	1487.7	1551.4
12.5°	764.8	865.0	961.6	1051.3	1138.5	1218.9	1299.4	1372.9	1437.5	1500.3	1563.4
10°	771.8	872.5	970.1	1060.0	1145.8	1226.4	1307.6	1381.0	1446.6	1512.6	1572.6
7.5°	777.5	877.5	975.5	1065.9	1150.5	1231.3	1313.2	1385.2	1452.6	1517.5	1578.8
5°	780.8	880.1	978.3	1069.0	1152.7	1233.4	1316.6	1386.4	1452.9	1518.8	1581.9
2.5°	781.6	880.2	978.6	1069.3	1151.9	1232.8	1316.8	1384.8	1450.4	1517.0	1581.9
0°	779.9	877.9	976.3	1066.7	1148.4	1229.3	1313.8	1380.5	1445.6	1512.3	1578.3
-2.5°	776.0	874.3	972.2	1062.9	1144.8	1225.6	1309.3	1376.9	1442.6	1508.6	1573.8
-5°	769.7	868.4	965.6	1056.1	1138.3	1219.0	1301.5	1370.6	1437.3	1502.2	1565.8
-7.5°	761.0	859.9	956.3	1046.4	1129.1	1209.5	1290.4	1361.3	1429.1	1492.8	1554.4
-10°	749.8	849.0	944.4	1033.8	1117.2	1197.1	1276.9	1349.0	1414.5	1480.4	1538.8
-12.5°	737.3	835.6	929.9	1018.2	1102.6	1181.8	1260.7	1333.2	1396.1	1459.8	1519.8
-15°	723.0	819.6	912.9	1001.0	1085.1	1163.6	1240.7	1314.5	1376.9	1439.0	1498.8
-17.5°	706.6	801.0	893.2	981.2	1065.4	1142.4	1217.2	1289.7	1354.8	1418.3	1477.0
-20°	686.3	780.0	870.7	957.7	1042.7	1118.0	1191.9	1262.4	1328.6	1387.0	1447.5



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 CATALOG NUMBER: ARFL50DBZ-45W-3500K

**CANDELA DISTRIBUTION (continued):**

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	663.3	755.1	845.8	930.9	1013.8	1090.3	1163.7	1233.4	1300.0	1359.4	1418.1
-25°	639.0	728.0	817.8	902.5	983.4	1060.7	1132.5	1200.8	1263.7	1324.2	1378.1
-27.5°	613.5	701.0	787.6	871.3	950.2	1028.7	1097.5	1165.3	1228.0	1288.0	1343.7
-30°	585.7	670.6	754.2	837.2	913.3	989.0	1059.2	1126.4	1189.0	1245.3	1302.3
-32.5°	555.5	637.0	717.2	798.7	875.6	948.1	1020.7	1083.1	1145.6	1203.0	1255.6
-35°	522.6	603.0	681.1	758.6	835.2	903.2	972.9	1039.0	1098.0	1154.8	1208.0
-37.5°	490.2	566.3	641.0	713.7	788.2	858.7	922.7	988.0	1045.7	1101.7	1154.4
-40°	456.1	527.2	599.7	669.9	739.8	809.2	871.5	932.4	992.8	1044.1	1095.6
-42.5°	418.6	487.1	556.0	623.0	688.0	754.6	818.0	873.1	931.3	986.5	1033.8
-45°	378.1	446.0	509.9	574.7	636.5	695.2	754.7	813.4	864.9	919.0	969.3
-47.5°	342.2	401.2	463.4	523.4	583.0	634.7	687.6	743.5	797.2	845.4	895.2
-50°	298.6	355.8	413.9	470.9	524.6	571.1	618.2	668.1	721.0	769.0	814.0
-52.5°	251.5	312.2	361.2	416.2	462.7	503.5	546.4	590.0	636.0	685.2	728.8
-55°	207.2	260.3	314.9	358.1	399.0	436.0	471.5	509.7	548.5	589.5	632.3
-57.5°	163.0	209.5	257.7	304.8	333.7	367.4	398.7	428.7	459.6	493.5	527.8
-60°	125.4	161.0	202.3	241.7	276.7	301.0	326.1	351.2	375.3	398.9	424.0
-62.5°	96.9	119.6	149.2	183.0	212.7	240.1	262.5	276.7	295.3	312.6	329.6
-65°	74.9	89.1	107.2	127.7	154.8	177.4	197.7	215.1	228.2	235.2	245.1
-67.5°	52.3	66.3	77.0	90.6	105.2	121.3	139.1	152.9	164.5	173.5	180.0
-70°	32.4	41.8	53.0	63.2	71.0	80.8	90.3	99.0	109.8	117.3	121.5
-72.5°	19.7	24.5	30.6	37.3	45.7	52.6	57.7	62.8	67.6	71.9	75.3
-75°	11.9	14.2	16.3	20.5	24.1	28.3	31.6	36.1	39.3	41.5	43.0
-77.5°	8.3	9.2	10.2	11.4	13.0	14.2	16.3	17.7	18.9	19.7	19.6
-80°	6.3	6.9	7.4	7.8	8.2	8.8	9.2	9.6	10.2	10.5	10.6
-82.5°	4.8	5.2	5.5	5.8	6.1	6.3	6.5	6.7	6.8	6.9	6.9
-85°	3.9	4.0	4.3	4.5	4.6	4.8	5.0	5.1	5.2	5.2	5.3
-87.5°	3.3	3.3	3.5	3.7	3.9	4.0	4.2	4.4	4.5	4.7	4.8
-90°	3.7	3.7	3.7	3.6	3.6	3.6	3.5	3.5	3.5	3.4	3.4



REPORT NUMBER: P670552 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ARFL50DBZ-45W-3500K

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	4.4	4.5	4.7	4.5	4.2	4.0	3.7	3.5	3.3	3.0	2.8
87.5°	6.2	6.3	6.4	6.4	6.5	6.5	6.6	6.6	6.6	6.7	6.7
85°	14.1	15.0	15.8	16.5	17.0	17.5	17.8	18.1	18.2	18.3	18.2
82.5°	37.1	39.8	42.3	44.1	45.5	46.6	47.6	48.4	49.0	49.3	49.3
80°	75.2	79.4	83.3	86.1	88.5	90.6	92.4	93.8	94.8	95.5	95.7
77.5°	118.7	126.0	132.3	138.0	143.7	148.9	153.6	157.8	161.6	165.1	167.8
75°	179.7	189.2	197.2	208.3	219.6	229.7	239.2	248.5	256.3	262.5	267.3
72.5°	261.6	278.9	295.3	310.5	324.9	338.8	352.3	363.8	373.3	380.8	386.2
70°	358.0	381.9	403.8	423.1	440.5	456.2	470.4	482.9	493.4	502.0	508.7
67.5°	455.8	481.4	506.6	530.2	549.2	566.2	581.6	595.2	607.2	617.5	626.5
65°	548.5	576.3	602.5	627.0	650.0	671.5	689.8	706.2	721.0	734.2	745.0
62.5°	633.4	666.3	696.3	725.0	752.1	776.6	798.3	817.4	834.3	848.1	858.8
60°	720.0	756.8	793.4	829.4	861.7	889.0	912.6	931.7	948.4	961.8	972.8
57.5°	809.3	852.9	896.3	934.9	966.6	989.2	1011.4	1032.1	1049.4	1064.4	1077.6
55°	901.5	944.9	982.7	1018.6	1050.1	1073.3	1096.0	1117.9	1139.0	1156.9	1169.6
52.5°	977.3	1019.8	1056.6	1089.8	1123.7	1153.1	1175.4	1198.0	1217.6	1233.6	1247.0
50°	1045.0	1085.1	1127.6	1161.7	1195.9	1226.1	1251.2	1273.2	1293.3	1311.0	1324.9
47.5°	1109.2	1152.2	1193.8	1231.7	1265.4	1297.3	1323.8	1346.5	1366.5	1383.7	1398.3
45°	1170.2	1216.5	1257.8	1296.9	1331.5	1364.7	1393.0	1416.3	1435.7	1453.2	1468.4
42.5°	1230.1	1275.6	1316.9	1357.1	1394.8	1427.0	1454.7	1478.4	1500.0	1518.9	1534.5
40°	1284.1	1328.7	1373.3	1413.1	1449.4	1482.1	1512.6	1539.6	1560.6	1577.8	1591.2
37.5°	1332.4	1379.9	1423.7	1463.9	1500.5	1537.2	1567.3	1591.4	1610.1	1630.2	1646.0
35°	1377.8	1426.1	1470.3	1511.7	1549.9	1583.5	1612.7	1639.5	1660.6	1679.5	1694.3
32.5°	1420.2	1468.4	1514.0	1555.1	1592.0	1626.4	1656.1	1683.5	1705.1	1722.1	1736.9
30°	1458.8	1507.3	1552.5	1593.9	1631.2	1665.4	1695.4	1721.5	1743.1	1758.1	1774.1
27.5°	1492.2	1541.9	1588.1	1628.9	1666.5	1699.2	1727.6	1751.8	1777.3	1795.2	1809.5
25°	1523.1	1574.5	1619.2	1660.3	1695.2	1727.6	1756.8	1784.4	1805.8	1829.5	1843.8
22.5°	1550.8	1601.6	1646.6	1684.8	1720.6	1754.9	1784.4	1812.4	1834.7	1859.2	1871.0
20°	1573.6	1624.6	1668.9	1706.5	1745.7	1778.3	1809.3	1834.5	1858.7	1881.0	1893.3
17.5°	1592.1	1643.2	1685.0	1729.4	1766.1	1797.9	1825.8	1853.4	1880.4	1897.4	1916.6
15°	1608.2	1656.8	1700.9	1744.9	1779.7	1811.3	1842.1	1871.5	1894.4	1914.8	1931.3
12.5°	1621.2	1667.8	1716.8	1758.5	1793.8	1823.6	1855.9	1883.9	1909.2	1929.7	1946.1
10°	1627.7	1676.1	1726.7	1766.8	1800.1	1836.7	1867.4	1896.0	1919.5	1940.3	1956.4
7.5°	1632.6	1684.0	1732.7	1774.7	1807.1	1845.1	1874.7	1904.8	1930.0	1945.0	1962.5
5°	1636.1	1688.8	1736.2	1779.0	1813.7	1848.4	1879.3	1908.7	1930.6	1952.1	1962.3
2.5°	1636.6	1689.6	1736.4	1777.1	1817.0	1848.6	1880.1	1909.3	1931.1	1950.2	1966.4
0°	1633.5	1686.7	1733.2	1773.4	1816.2	1845.6	1877.2	1905.6	1929.8	1948.0	1967.0
-2.5°	1628.3	1680.9	1726.6	1769.2	1809.9	1840.7	1870.5	1898.7	1921.3	1939.7	1956.2
-5°	1619.0	1671.6	1717.6	1762.3	1799.2	1833.2	1861.8	1888.5	1908.3	1930.5	1943.1
-7.5°	1606.1	1659.2	1707.1	1749.8	1784.9	1821.0	1850.0	1876.3	1894.5	1914.6	1933.1
-10°	1591.9	1645.1	1691.5	1733.1	1770.4	1805.5	1832.8	1854.7	1877.5	1896.8	1917.1
-12.5°	1578.3	1626.9	1670.7	1706.9	1751.3	1785.5	1814.5	1841.9	1862.3	1879.7	1894.9
-15°	1557.7	1602.9	1649.0	1692.9	1728.6	1764.7	1794.4	1821.4	1843.7	1860.2	1872.1
-17.5°	1530.5	1578.8	1627.1	1662.1	1696.7	1737.1	1768.6	1794.7	1819.5	1838.1	1852.9
-20°	1500.7	1554.3	1594.1	1638.6	1674.6	1704.9	1738.3	1766.0	1788.0	1808.2	1826.6

Classified

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

Scaled Data Report



REPORT NUMBER: P670552 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: ARFL50DBZ-45W-3500K

**CANDELA DISTRIBUTION (continued):**

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	1471.4	1519.2	1565.7	1604.9	1643.4	1677.8	1704.7	1733.1	1755.1	1773.7	1789.6
-25°	1436.1	1484.5	1532.4	1570.3	1606.8	1642.3	1671.4	1695.6	1724.0	1736.5	1752.8
-27.5°	1396.0	1447.5	1490.5	1534.8	1567.9	1599.1	1631.6	1657.5	1680.9	1698.4	1717.9
-30°	1353.9	1403.9	1450.1	1488.4	1527.3	1556.8	1585.3	1609.3	1637.0	1654.9	1670.6
-32.5°	1308.5	1354.8	1400.9	1443.1	1477.9	1511.3	1538.8	1562.7	1584.1	1602.0	1618.5
-35°	1257.4	1306.0	1347.7	1387.4	1426.2	1461.1	1486.5	1512.6	1533.0	1549.6	1565.5
-37.5°	1203.9	1249.4	1293.7	1331.9	1364.2	1399.5	1430.3	1457.0	1474.0	1492.8	1507.7
-40°	1144.1	1189.5	1232.2	1270.8	1308.7	1335.5	1361.9	1389.3	1411.8	1430.5	1445.1
-42.5°	1079.4	1123.3	1164.4	1204.7	1238.7	1269.4	1300.2	1321.6	1341.3	1358.5	1373.4
-45°	1014.2	1053.2	1091.8	1128.8	1162.4	1196.3	1223.3	1245.9	1265.5	1283.9	1298.1
-47.5°	941.5	983.5	1018.1	1050.2	1081.3	1111.3	1139.3	1163.7	1184.7	1200.7	1213.1
-50°	859.0	902.1	939.9	973.4	1001.4	1026.8	1051.2	1074.7	1095.0	1111.9	1125.1
-52.5°	770.3	808.1	848.0	883.6	914.3	940.5	963.6	983.6	1001.7	1016.2	1028.2
-55°	676.7	712.0	745.7	776.8	807.8	838.3	861.5	881.5	897.7	911.2	921.6
-57.5°	564.0	600.9	638.3	669.1	694.1	717.3	739.3	759.1	776.5	790.6	801.2
-60°	451.8	479.2	508.1	537.0	563.8	587.4	607.8	621.9	634.5	645.3	653.8
-62.5°	346.2	361.6	381.3	400.8	419.7	437.2	452.8	465.7	475.9	482.9	486.5
-65°	254.3	262.5	271.5	279.7	289.7	297.8	307.6	314.3	318.4	320.5	319.7
-67.5°	182.5	181.7	182.4	183.6	187.7	190.3	191.3	192.1	190.4	186.5	181.4
-70°	123.9	124.6	122.9	121.2	120.9	119.1	115.4	110.4	105.5	98.8	90.4
-72.5°	78.0	79.1	77.8	76.6	75.9	74.7	72.8	69.6	65.1	59.6	53.5
-75°	44.2	44.5	43.9	44.4	44.9	44.5	43.3	41.6	39.1	36.0	32.3
-77.5°	19.9	20.0	19.3	19.9	20.9	21.4	21.4	20.9	19.9	18.7	17.1
-80°	10.6	10.3	9.7	9.3	9.0	8.7	8.4	8.0	7.6	7.1	6.6
-82.5°	7.0	7.0	6.9	6.6	6.3	6.0	5.6	5.3	4.9	4.4	4.0
-85°	5.3	5.4	5.4	5.1	4.8	4.5	4.2	3.9	3.6	3.3	3.0
-87.5°	5.0	5.1	5.2	4.9	4.6	4.3	4.0	3.7	3.4	3.1	2.8
-90°	3.4	3.3	3.3	3.3	3.2	3.2	3.1	3.1	3.0	3.0	2.9



REPORT NUMBER: P670552 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ARFL50DBZ-45W-3500K

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	2.5	2.3	2.0	1.8	2.0	2.2	2.3	2.5	2.7	2.9	3.0
87.5°	6.6	6.6	6.6	6.6	6.7	6.9	7.0	7.2	7.3	7.4	7.5
85°	18.1	17.9	17.7	17.3	18.1	18.8	19.4	20.0	20.4	20.7	20.9
82.5°	49.0	48.5	47.6	46.6	48.4	50.0	51.4	52.4	53.2	53.6	53.8
80°	95.6	95.1	94.2	92.9	96.2	99.0	101.4	103.4	104.8	105.7	106.1
77.5°	169.8	171.0	171.4	170.9	175.3	178.9	181.6	183.4	184.3	184.4	183.6
75°	270.7	272.6	273.1	272.3	276.5	279.4	280.9	281.2	280.1	277.8	274.2
72.5°	390.0	392.2	392.6	391.3	394.4	395.8	395.5	393.6	390.3	385.4	379.2
70°	513.4	516.2	517.1	516.1	518.6	519.3	518.0	514.8	509.6	502.6	493.7
67.5°	633.8	638.9	641.7	642.3	643.8	643.1	640.3	635.4	628.7	619.9	609.1
65°	753.5	759.6	763.3	764.5	765.7	764.4	760.7	754.6	746.1	735.3	722.2
62.5°	866.5	871.4	873.5	873.1	875.9	876.2	873.9	869.1	861.2	850.3	836.6
60°	981.6	987.9	991.7	992.5	994.1	992.8	988.7	981.9	972.6	960.8	946.4
57.5°	1088.4	1096.7	1102.5	1105.6	1105.0	1101.7	1095.8	1087.2	1075.5	1061.5	1046.0
55°	1180.4	1188.9	1195.0	1198.8	1197.4	1193.5	1187.2	1178.4	1167.2	1152.6	1135.8
52.5°	1257.7	1265.7	1271.0	1273.8	1273.0	1269.4	1263.1	1254.2	1243.2	1230.0	1213.7
50°	1335.7	1343.9	1349.3	1352.0	1351.9	1348.9	1342.6	1333.1	1320.5	1305.8	1288.0
47.5°	1409.7	1417.5	1422.6	1424.9	1424.5	1421.2	1415.0	1405.9	1394.3	1380.5	1364.7
45°	1481.0	1490.9	1497.8	1501.5	1499.3	1494.1	1486.1	1475.7	1462.9	1447.9	1429.5
42.5°	1546.7	1555.8	1562.0	1565.2	1563.2	1558.2	1550.3	1540.3	1527.7	1510.0	1490.1
40°	1601.6	1609.5	1614.8	1617.4	1616.7	1613.2	1607.0	1598.1	1585.5	1568.7	1548.3
37.5°	1658.4	1667.9	1674.2	1677.7	1676.7	1673.5	1667.2	1655.0	1639.1	1621.7	1603.9
35°	1705.2	1712.2	1716.3	1718.0	1718.5	1716.7	1712.3	1703.4	1688.6	1677.0	1655.5
32.5°	1748.3	1756.9	1763.1	1766.8	1765.0	1760.5	1753.8	1745.1	1732.9	1719.0	1698.6
30°	1787.5	1797.0	1803.9	1807.8	1805.6	1800.8	1794.1	1783.4	1769.1	1754.3	1736.5
27.5°	1823.7	1833.7	1840.6	1844.7	1842.2	1836.8	1829.4	1818.8	1803.8	1791.5	1766.0
25°	1858.1	1865.2	1869.8	1872.2	1871.3	1867.7	1860.8	1850.7	1837.7	1819.5	1796.4
22.5°	1883.4	1893.7	1897.5	1900.2	1899.3	1896.0	1888.9	1878.8	1865.3	1845.2	1823.4
20°	1906.2	1917.3	1924.8	1929.4	1926.8	1919.4	1909.6	1903.6	1889.7	1869.9	1847.3
17.5°	1925.0	1936.4	1943.2	1946.7	1944.0	1939.4	1933.9	1925.4	1906.3	1891.8	1867.1
15°	1945.4	1953.5	1957.2	1958.9	1958.9	1955.9	1946.5	1936.0	1923.9	1907.3	1887.1
12.5°	1959.1	1967.4	1971.2	1971.0	1970.8	1967.2	1963.5	1951.1	1934.3	1917.0	1902.4
10°	1969.3	1979.4	1985.0	1986.1	1986.8	1981.7	1970.2	1960.0	1947.3	1926.7	1908.4
7.5°	1973.8	1984.6	1985.9	1987.0	1987.5	1987.3	1980.6	1963.3	1950.6	1936.3	1911.3
5°	1977.0	1981.1	1988.7	1995.9	1990.3	1987.8	1982.4	1970.8	1956.4	1940.1	1917.1
2.5°	1977.3	1984.7	1990.1	1990.6	1988.2	1987.0	1981.1	1972.5	1957.8	1941.0	1918.7
0°	1976.1	1979.4	1982.8	1989.4	1988.7	1985.8	1979.7	1967.1	1957.7	1940.7	1916.9
-2.5°	1970.7	1978.9	1983.9	1986.8	1986.2	1987.0	1979.2	1965.1	1952.8	1932.9	1910.5
-5°	1961.5	1968.5	1973.1	1978.0	1978.8	1978.9	1967.9	1958.4	1943.4	1920.5	1901.4
-7.5°	1947.5	1957.8	1961.3	1962.2	1966.1	1963.8	1957.3	1948.0	1927.8	1907.4	1887.4
-10°	1933.1	1946.1	1949.7	1950.1	1951.4	1948.8	1941.7	1926.8	1908.7	1893.2	1872.5
-12.5°	1911.2	1922.4	1929.7	1931.1	1932.2	1927.1	1916.7	1906.0	1890.0	1872.6	1850.6
-15°	1887.9	1897.1	1905.5	1908.6	1907.5	1903.1	1894.1	1878.2	1866.9	1848.5	1831.9
-17.5°	1861.5	1870.5	1878.1	1881.5	1879.4	1872.9	1865.6	1853.6	1840.4	1825.9	1806.1
-20°	1836.2	1844.3	1849.7	1851.0	1849.8	1844.9	1836.6	1825.3	1814.6	1796.9	1776.7



REPORT NUMBER: P670552 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ARFL50DBZ-45W-3500K

**CANDELA DISTRIBUTION (continued):**

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	1803.6	1812.9	1817.2	1817.7	1817.2	1813.6	1808.3	1796.4	1777.7	1763.4	1743.6
-25°	1766.0	1774.1	1779.0	1780.4	1780.1	1775.8	1767.5	1757.8	1742.8	1728.6	1710.4
-27.5°	1726.8	1733.3	1738.2	1739.7	1739.5	1735.6	1729.5	1720.7	1707.1	1690.1	1668.6
-30°	1683.5	1692.0	1697.5	1699.5	1699.1	1695.2	1688.1	1676.7	1662.2	1645.2	1623.9
-32.5°	1632.7	1641.2	1645.2	1646.0	1646.5	1643.6	1636.8	1625.9	1612.9	1595.6	1574.5
-35°	1576.9	1585.3	1590.9	1592.9	1593.1	1589.3	1581.9	1571.6	1558.9	1543.5	1523.7
-37.5°	1519.3	1526.9	1531.0	1531.9	1532.8	1530.3	1524.2	1514.0	1500.9	1485.8	1461.5
-40°	1453.5	1459.2	1462.0	1461.7	1463.8	1462.2	1456.6	1446.6	1434.9	1419.5	1399.5
-42.5°	1384.6	1391.7	1395.3	1395.4	1396.6	1394.4	1388.9	1380.1	1368.3	1351.6	1331.9
-45°	1308.7	1316.6	1321.4	1322.3	1322.9	1319.5	1312.8	1303.3	1291.7	1277.8	1260.6
-47.5°	1222.3	1227.6	1229.7	1228.5	1231.8	1231.8	1228.5	1221.3	1210.9	1197.5	1180.2
-50°	1134.9	1141.4	1144.5	1144.1	1146.8	1146.0	1141.7	1133.8	1122.5	1108.3	1091.0
-52.5°	1037.5	1043.7	1046.6	1046.1	1049.0	1048.4	1044.7	1037.8	1028.1	1015.9	999.3
-55°	929.1	933.5	934.5	931.9	936.6	937.7	935.5	930.2	922.1	910.9	897.0
-57.5°	807.1	809.5	808.5	803.9	810.8	814.0	813.9	810.5	803.1	792.7	779.1
-60°	659.6	661.9	660.4	654.4	663.4	667.9	668.7	666.1	660.8	653.4	644.4
-62.5°	486.6	483.0	475.5	464.0	479.3	490.8	498.8	503.6	505.4	504.7	501.6
-65°	316.0	309.1	299.1	285.8	304.7	320.3	333.0	342.6	349.5	353.6	356.9
-67.5°	174.7	165.7	154.5	141.0	161.0	178.6	193.8	206.8	217.9	228.3	236.4
-70°	80.6	69.6	57.6	44.8	63.3	80.9	97.4	112.3	125.5	136.5	145.1
-72.5°	46.6	38.9	30.8	22.3	33.8	44.9	55.3	64.8	73.1	80.3	86.2
-75°	28.1	23.5	18.7	13.7	19.9	25.8	31.4	36.5	41.0	44.7	47.4
-77.5°	15.2	13.0	10.8	8.4	11.0	13.6	16.0	18.1	19.8	21.1	22.2
-80°	6.0	5.4	4.8	4.1	5.0	5.9	6.8	7.5	8.2	8.8	9.4
-82.5°	3.5	3.0	2.5	2.1	2.6	3.2	3.7	4.2	4.7	5.2	5.6
-85°	2.6	2.3	1.9	1.6	2.0	2.3	2.6	3.0	3.3	3.6	3.9
-87.5°	2.5	2.2	1.9	1.6	1.8	2.0	2.2	2.5	2.7	2.9	3.2
-90°	2.9	2.8	2.8	2.7	2.8	2.9	2.9	3.0	3.1	3.2	3.2



REPORT NUMBER: P670552 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ARFL50DBZ-45W-3500K

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	3.2	3.4	3.6	3.7	3.9	3.7	3.5	3.3	3.1	2.9	2.7
87.5°	7.6	7.6	7.7	7.7	7.7	7.4	7.1	6.7	6.5	6.2	5.9
85°	21.0	21.0	20.8	20.5	20.1	18.8	17.5	16.2	15.2	14.2	13.0
82.5°	53.6	53.2	52.6	51.6	50.1	47.0	43.6	40.3	37.5	34.6	31.6
80°	105.9	105.2	103.9	101.7	98.3	92.1	85.6	79.3	73.7	67.7	61.2
77.5°	181.8	179.0	175.2	170.2	163.5	152.5	141.3	130.9	122.1	113.0	103.3
75°	269.3	264.4	259.2	253.1	243.7	229.0	213.8	198.1	182.1	166.2	150.8
72.5°	371.6	362.7	353.6	344.4	331.0	311.3	290.2	269.2	248.1	226.7	206.9
70°	482.9	470.6	456.8	442.2	423.4	400.8	375.6	350.4	325.8	299.0	271.0
67.5°	596.1	581.6	565.3	547.1	522.5	495.4	468.3	440.2	410.5	376.2	342.1
65°	706.7	688.9	671.0	652.1	624.6	594.2	562.2	527.9	492.6	459.4	423.7
62.5°	819.6	799.0	776.0	751.3	721.5	690.1	659.0	622.0	581.1	538.8	496.2
60°	929.6	910.2	887.8	858.7	823.1	785.3	749.2	710.6	670.9	627.0	577.1
57.5°	1029.8	1010.9	988.0	957.9	922.4	884.0	842.1	797.2	753.5	708.1	660.7
55°	1116.6	1095.4	1070.8	1042.2	1010.2	971.1	929.7	884.3	835.8	784.5	735.2
52.5°	1194.3	1172.4	1147.5	1117.4	1083.8	1046.3	1008.3	961.7	913.5	860.9	805.5
50°	1265.7	1243.7	1217.7	1186.4	1153.2	1116.6	1075.8	1031.6	983.6	930.7	874.4
47.5°	1341.3	1315.4	1286.4	1251.6	1218.2	1180.1	1139.9	1095.6	1046.6	995.3	936.9
45°	1408.6	1385.8	1356.4	1318.7	1283.0	1240.6	1199.1	1154.4	1106.1	1052.7	996.5
42.5°	1470.1	1445.9	1414.7	1382.4	1344.9	1303.1	1256.1	1209.3	1160.0	1107.4	1049.1
40°	1526.9	1497.5	1469.2	1438.4	1399.9	1360.1	1313.0	1264.3	1210.7	1156.8	1099.3
37.5°	1579.4	1550.7	1519.6	1485.8	1451.1	1409.7	1365.5	1314.6	1262.0	1203.0	1144.8
35°	1627.9	1599.8	1567.0	1532.8	1495.4	1455.1	1411.7	1362.5	1308.2	1248.8	1186.3
32.5°	1675.4	1644.1	1611.2	1575.1	1538.9	1496.6	1452.3	1404.4	1350.7	1294.4	1223.9
30°	1713.3	1683.2	1652.6	1615.3	1575.1	1536.4	1491.1	1443.5	1389.2	1327.9	1263.9
27.5°	1744.2	1719.1	1687.0	1651.0	1611.7	1567.5	1524.2	1476.9	1425.2	1360.4	1293.4
25°	1771.5	1747.7	1717.2	1683.0	1641.8	1600.2	1553.5	1500.9	1447.3	1388.2	1321.1
22.5°	1797.9	1770.3	1744.4	1709.8	1672.7	1627.4	1578.4	1532.0	1476.4	1416.2	1346.5
20°	1820.2	1793.1	1760.7	1731.7	1694.5	1650.0	1603.5	1550.5	1492.5	1434.2	1367.4
17.5°	1842.5	1811.2	1782.0	1746.2	1711.1	1671.1	1621.3	1569.2	1516.5	1454.6	1386.3
15°	1858.3	1827.9	1798.0	1764.1	1730.8	1686.0	1636.8	1586.7	1530.7	1468.8	1402.9
12.5°	1874.2	1845.4	1808.5	1777.2	1737.4	1697.6	1652.3	1599.5	1542.9	1478.8	1414.6
10°	1885.1	1853.6	1820.6	1785.1	1746.6	1707.0	1660.6	1608.1	1552.9	1490.7	1424.5
7.5°	1894.4	1861.5	1831.5	1791.3	1755.3	1716.2	1666.8	1613.7	1559.7	1499.0	1431.3
5°	1896.5	1864.7	1834.2	1796.1	1760.0	1719.6	1670.3	1617.5	1563.2	1502.4	1434.7
2.5°	1895.4	1864.5	1834.8	1797.8	1761.8	1718.5	1670.7	1618.3	1563.5	1503.0	1435.0
0°	1892.9	1861.2	1832.8	1796.4	1760.3	1715.7	1668.0	1615.8	1560.9	1500.6	1432.1
-2.5°	1886.6	1855.8	1826.9	1790.8	1754.4	1710.1	1662.1	1610.1	1555.5	1495.1	1426.9
-5°	1876.1	1847.2	1818.4	1782.1	1745.1	1702.6	1653.2	1601.3	1547.3	1486.5	1418.7
-7.5°	1862.0	1835.6	1807.7	1768.4	1732.3	1691.1	1641.3	1589.5	1536.3	1474.9	1407.6
-10°	1848.3	1820.1	1790.6	1751.5	1714.4	1675.0	1626.3	1574.6	1522.4	1459.7	1393.8
-12.5°	1829.1	1804.1	1771.9	1739.1	1694.5	1655.0	1607.5	1556.6	1503.9	1441.8	1374.9
-15°	1807.0	1780.9	1745.6	1715.6	1678.2	1632.5	1585.6	1536.5	1482.3	1420.5	1352.1
-17.5°	1783.4	1754.9	1726.5	1683.9	1651.1	1607.5	1560.1	1513.1	1457.9	1396.4	1327.5
-20°	1753.4	1727.8	1692.9	1662.5	1620.9	1578.3	1533.1	1485.0	1430.6	1369.6	1301.0



REPORT NUMBER: P670552 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ARFL50DBZ-45W-3500K

**CANDELA DISTRIBUTION (continued):**

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	1722.8	1694.1	1665.6	1627.6	1589.1	1545.3	1503.2	1453.7	1397.2	1336.0	1271.4
-25°	1685.0	1660.3	1627.2	1592.4	1553.8	1513.6	1468.1	1420.3	1364.3	1301.6	1236.7
-27.5°	1646.2	1618.2	1587.2	1553.6	1516.4	1474.6	1430.4	1378.6	1323.5	1264.8	1201.7
-30°	1600.7	1573.6	1544.4	1511.4	1472.4	1432.1	1385.7	1336.8	1281.9	1222.9	1156.8
-32.5°	1553.0	1526.6	1497.7	1461.8	1425.5	1384.1	1340.3	1289.8	1235.2	1177.7	1112.0
-35°	1501.6	1471.2	1443.0	1410.4	1372.5	1334.0	1288.6	1239.3	1187.2	1124.3	1064.3
-37.5°	1439.3	1413.9	1386.8	1352.5	1318.6	1278.1	1233.1	1185.3	1128.2	1074.4	1015.1
-40°	1377.7	1350.7	1325.4	1294.2	1258.0	1216.5	1172.5	1121.5	1073.1	1017.5	960.6
-42.5°	1311.4	1288.5	1260.0	1227.8	1189.7	1149.0	1104.2	1060.7	1010.7	958.6	900.8
-45°	1239.9	1215.4	1185.0	1151.7	1115.8	1078.2	1037.6	994.2	945.7	892.4	834.1
-47.5°	1157.1	1131.1	1103.8	1073.8	1042.5	1005.1	966.2	921.4	872.9	819.3	763.3
-50°	1070.4	1048.4	1023.6	994.6	963.1	926.5	885.3	840.8	792.6	742.5	691.1
-52.5°	980.7	960.1	936.2	906.8	873.3	836.3	796.6	754.2	709.9	662.6	610.0
-55°	879.5	859.2	834.6	806.1	774.8	740.7	704.3	664.6	621.4	572.6	519.0
-57.5°	762.9	744.7	725.5	701.8	672.6	640.2	604.7	564.1	520.3	477.1	432.4
-60°	634.1	621.6	607.8	588.5	559.7	527.2	492.9	459.1	423.4	384.3	342.6
-62.5°	495.7	487.0	476.9	463.6	440.6	416.0	388.5	359.0	327.2	294.6	259.1
-65°	358.4	357.6	354.6	349.3	332.5	312.0	289.3	264.7	238.2	212.1	187.8
-67.5°	242.2	246.0	247.0	245.5	233.2	216.5	199.0	181.7	164.3	148.8	133.0
-70°	151.9	155.9	156.7	156.4	149.9	140.1	130.0	119.9	109.3	100.0	91.4
-72.5°	90.3	92.4	93.3	93.1	89.9	85.1	80.1	74.9	69.3	63.2	56.9
-75°	49.1	50.2	50.5	49.7	47.9	46.2	43.7	41.1	38.7	35.3	32.0
-77.5°	23.1	23.7	23.8	23.4	22.8	22.1	20.9	19.8	19.5	18.7	17.5
-80°	9.8	10.1	10.3	10.5	10.8	11.1	11.0	10.5	10.1	9.4	8.5
-82.5°	6.0	6.4	6.8	7.1	7.4	7.1	6.7	6.3	5.9	5.6	5.2
-85°	4.2	4.5	4.8	5.0	5.2	4.9	4.7	4.4	4.1	3.8	3.5
-87.5°	3.4	3.6	3.8	4.1	4.3	4.1	3.8	3.6	3.3	3.1	2.8
-90°	3.3	3.4	3.5	3.5	3.6	3.5	3.5	3.4	3.3	3.3	3.2





REPORT NUMBER: P670552 (CONVERTED FROM TYPE C PHOTOMETRY)  
 CATALOG NUMBER: ARFL50DBZ-45W-3500K

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	2.4	2.2	2.0	1.8	1.6	1.4	1.4	1.5	1.5	1.5	1.5
87.5°	5.7	5.4	5.1	4.9	4.6	4.4	4.0	3.7	3.4	3.1	2.9
85°	11.8	10.6	9.2	8.4	7.7	7.0	6.0	5.2	4.5	4.0	3.5
82.5°	28.5	25.6	22.6	19.5	16.2	13.9	11.0	8.4	6.6	5.5	4.5
80°	55.2	49.0	42.6	37.6	32.8	27.6	21.3	15.7	11.4	8.4	5.8
77.5°	93.0	82.4	73.2	63.4	54.3	44.8	34.7	26.4	19.2	13.3	9.0
75°	135.6	122.9	110.3	96.9	83.3	69.0	52.7	39.4	28.7	20.1	13.4
72.5°	187.1	167.8	149.3	131.5	116.1	97.1	75.6	56.7	40.7	28.1	18.8
70°	242.9	216.1	192.6	170.5	149.3	124.8	100.4	77.0	56.0	38.3	25.1
67.5°	310.5	277.4	243.1	210.8	184.4	154.7	124.7	97.8	73.0	50.9	33.0
65°	383.2	340.4	302.7	264.7	223.4	185.2	151.2	119.0	90.2	64.7	42.3
62.5°	457.7	415.7	365.7	319.0	274.1	221.4	178.2	141.7	107.9	78.4	53.0
60°	526.9	479.3	435.3	382.6	321.4	264.6	209.7	164.9	126.8	92.5	63.6
57.5°	605.8	547.5	491.7	444.5	378.3	306.7	246.7	189.7	146.3	107.8	74.3
55°	682.1	623.5	557.6	494.3	430.9	355.6	282.6	221.2	166.0	123.3	85.3
52.5°	750.3	692.9	628.8	551.2	473.4	403.7	322.6	250.1	189.0	139.0	97.2
50°	814.8	754.6	692.5	613.0	522.6	443.7	365.2	282.4	213.3	154.6	109.0
47.5°	876.6	812.9	746.4	667.7	578.1	483.8	404.8	316.6	236.0	172.0	121.1
45°	933.0	868.4	795.5	715.3	630.3	530.4	438.0	351.2	262.9	190.3	132.8
42.5°	987.1	918.9	843.6	761.0	673.0	579.1	471.4	384.9	289.2	207.6	143.9
40°	1035.9	964.6	889.2	806.4	713.7	620.3	512.0	412.7	314.3	225.3	156.1
37.5°	1080.4	1008.7	929.3	847.6	754.8	655.1	552.5	438.9	342.8	245.4	168.2
35°	1119.8	1048.2	970.2	886.0	794.2	688.7	588.4	466.9	367.8	263.7	179.4
32.5°	1155.3	1083.9	1006.6	919.2	828.9	724.1	615.4	499.0	388.8	279.8	189.8
30°	1187.8	1115.6	1038.6	952.9	860.4	757.3	640.9	529.4	407.2	297.3	200.1
27.5°	1219.0	1144.1	1067.0	983.0	888.0	786.9	665.9	557.3	423.1	316.3	212.5
25°	1250.6	1169.7	1091.9	1009.1	913.1	812.6	692.6	575.2	442.6	333.1	223.6
22.5°	1274.3	1193.5	1113.8	1031.1	937.1	834.7	716.9	590.9	462.6	345.7	232.6
20°	1294.7	1215.8	1133.1	1049.8	958.0	854.2	738.5	605.4	480.4	356.8	239.1
17.5°	1313.1	1235.7	1149.4	1065.8	976.0	870.0	756.8	617.8	495.8	366.0	244.1
15°	1328.6	1250.2	1163.2	1078.7	989.9	883.5	770.6	629.1	508.7	371.8	247.6
12.5°	1340.3	1261.5	1175.4	1089.0	1000.3	895.0	782.0	640.9	519.1	375.9	251.3
10°	1348.3	1270.2	1184.8	1096.8	1008.2	904.0	790.6	650.0	524.1	378.3	255.5
7.5°	1353.7	1276.1	1191.0	1102.0	1013.2	910.2	795.9	656.3	526.1	379.1	257.9
5°	1356.9	1279.1	1194.0	1104.5	1015.7	913.6	798.6	659.7	526.0	378.1	258.4
2.5°	1356.8	1279.0	1193.8	1104.3	1015.6	914.2	798.7	659.9	523.8	375.6	256.9
0°	1353.5	1276.0	1190.8	1101.5	1013.0	911.9	796.1	656.8	519.8	371.5	253.4
-2.5°	1348.7	1271.3	1186.1	1097.0	1008.6	907.3	792.0	653.4	517.2	369.7	251.4
-5°	1340.8	1263.7	1178.6	1089.8	1001.7	899.9	785.3	646.6	512.7	366.3	247.5
-7.5°	1329.9	1253.2	1168.2	1080.0	992.1	889.5	775.9	636.6	506.2	361.2	241.7
-10°	1316.6	1240.0	1154.6	1067.7	980.0	876.3	764.0	623.3	497.7	354.5	234.1
-12.5°	1300.6	1223.5	1138.1	1052.8	965.1	860.4	748.7	607.0	485.9	346.1	224.6
-15°	1280.7	1202.6	1119.1	1035.0	947.7	841.8	730.5	587.7	468.9	335.9	216.3
-17.5°	1256.5	1178.6	1096.6	1014.6	926.4	820.8	709.7	569.0	449.3	324.0	208.8
-20°	1231.0	1151.8	1071.4	990.9	900.3	797.3	684.2	549.3	427.2	308.6	200.3

Classified

Cooper Lighting Solutions Photometric Lab  
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Scaled Data Report



REPORT NUMBER: P670552 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: ARFL50DBZ-45W-3500K

**CANDELA DISTRIBUTION (continued):**

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1201.0	1123.2	1045.0	964.2	871.3	770.8	654.9	527.3	403.3	291.2	190.8
-25°	1165.3	1091.1	1015.2	934.8	839.7	741.9	622.0	504.2	377.5	272.1	178.7
-27.5°	1127.8	1055.2	981.7	900.0	806.0	708.5	585.1	478.8	352.2	250.2	164.4
-30°	1089.8	1019.4	944.7	860.3	770.0	670.5	551.1	443.5	329.3	226.7	149.2
-32.5°	1045.3	978.4	904.5	818.1	731.5	627.7	517.1	406.1	303.8	206.7	137.5
-35°	1001.9	933.2	856.6	774.4	688.0	579.2	481.6	368.9	275.3	190.6	126.7
-37.5°	952.0	883.9	806.3	728.8	638.2	535.0	437.6	334.2	244.8	171.8	115.6
-40°	898.7	827.7	754.9	677.9	582.0	490.7	390.1	300.0	212.8	150.1	104.4
-42.5°	837.0	770.0	701.1	620.3	528.4	440.2	344.6	263.5	190.8	133.2	92.9
-45°	772.4	711.4	640.7	555.1	475.0	384.2	302.3	225.8	166.9	118.7	81.4
-47.5°	706.8	644.9	571.7	495.2	412.8	332.1	259.1	194.0	140.2	103.8	69.8
-50°	634.0	568.6	502.7	429.2	352.4	281.6	216.2	166.5	123.0	89.0	58.1
-52.5°	550.5	491.9	429.1	360.5	293.5	233.0	182.6	136.5	105.1	74.3	47.9
-55°	468.3	412.2	353.4	294.9	238.6	190.5	149.4	116.9	87.1	60.3	38.2
-57.5°	382.3	333.1	281.5	233.8	191.3	155.0	123.0	95.6	69.9	47.5	30.7
-60°	301.4	257.9	218.2	183.8	152.7	123.9	99.7	75.4	53.6	36.4	23.7
-62.5°	225.3	194.1	167.7	141.3	120.3	98.5	76.5	56.8	40.1	27.8	17.1
-65°	165.4	144.7	123.3	109.5	91.9	72.9	55.7	40.9	29.8	19.9	11.9
-67.5°	116.3	105.1	92.2	78.3	64.5	50.5	38.4	29.4	20.6	13.2	8.2
-70°	81.8	71.7	61.2	51.8	42.4	33.4	26.8	19.0	12.9	8.4	5.7
-72.5°	50.6	44.2	37.9	31.4	27.5	21.8	15.1	11.0	7.8	5.6	4.1
-75°	27.9	25.5	22.9	19.1	14.2	11.3	8.4	6.5	5.0	3.9	3.2
-77.5°	15.5	12.9	11.2	9.2	7.5	5.9	4.9	4.3	3.6	3.1	2.6
-80°	7.7	6.8	5.7	5.1	4.5	4.0	3.5	3.1	2.7	2.4	2.0
-82.5°	4.8	4.4	4.0	3.6	3.2	2.7	2.4	2.1	1.9	1.8	1.7
-85°	3.2	2.9	2.5	2.2	1.9	1.7	1.6	1.6	1.5	1.6	1.6
-87.5°	2.6	2.4	2.1	1.9	1.6	1.4	1.4	1.5	1.5	1.5	1.5
-90°	3.1	3.1	3.0	2.9	2.9	2.8	2.7	2.6	2.5	2.4	2.3

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REPORT NUMBER: P670552 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: ARFL50DBZ-45W-3500K

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	1.6	1.6	1.6	1.6	1.7	1.7	1.7
87.5°	2.6	2.4	2.2	2.1	1.9	1.8	1.7
85°	3.1	2.7	2.4	2.2	2.0	1.8	1.7
82.5°	3.7	3.1	2.7	2.3	2.0	1.8	1.7
80°	4.6	3.6	3.0	2.4	2.1	1.8	1.7
77.5°	6.1	4.3	3.3	2.6	2.1	1.8	1.7
75°	8.4	5.4	3.8	2.8	2.2	1.9	1.7
72.5°	11.8	7.0	4.2	3.1	2.3	1.9	1.7
70°	15.6	9.1	5.2	3.3	2.4	1.9	1.7
67.5°	20.4	11.6	6.2	3.5	2.5	1.9	1.7
65°	25.7	14.5	7.5	4.0	2.6	1.9	1.7
62.5°	31.5	17.9	9.0	4.5	2.7	1.9	1.7
60°	39.2	21.5	10.4	5.0	2.8	2.0	1.7
57.5°	47.1	25.4	12.6	5.5	2.9	2.0	1.7
55°	54.7	29.7	14.6	6.2	3.0	2.0	1.7
52.5°	62.1	35.3	16.7	6.9	3.1	2.0	1.7
50°	70.3	40.6	19.0	7.5	3.3	2.1	1.7
47.5°	78.2	45.5	21.1	8.2	3.4	2.1	1.7
45°	86.6	50.0	23.2	9.3	3.6	2.1	1.7
42.5°	94.5	54.7	26.5	10.3	3.7	2.1	1.7
40°	102.9	59.8	29.5	11.2	3.8	2.2	1.7
37.5°	110.8	64.4	32.2	12.0	3.9	2.2	1.7
35°	118.1	69.1	34.6	12.8	4.0	2.2	1.7
32.5°	124.7	73.6	36.6	13.5	4.2	2.2	1.7
30°	130.6	77.6	38.3	14.1	4.3	2.2	1.7
27.5°	136.9	81.2	39.8	14.6	4.3	2.2	1.7
25°	142.3	85.0	41.1	15.0	4.3	2.2	1.7
22.5°	146.8	88.3	42.8	15.2	4.3	2.2	1.7
20°	150.5	90.9	44.2	15.6	4.3	2.2	1.7
17.5°	153.8	93.0	45.2	16.1	4.2	2.2	1.7
15°	156.1	94.5	45.9	16.6	4.2	2.2	1.7
12.5°	157.4	95.5	46.2	16.8	4.1	2.2	1.7
10°	157.9	95.8	46.2	16.9	3.9	2.2	1.7
7.5°	157.4	95.7	46.0	16.8	3.8	2.1	1.7
5°	156.1	94.9	45.4	16.5	3.6	2.1	1.7
2.5°	153.9	93.6	44.5	16.1	3.5	2.1	1.7
0°	150.9	91.9	43.3	15.6	3.3	2.1	1.7
-2.5°	150.1	91.3	43.0	15.4	3.3	2.1	1.7
-5°	148.5	90.3	42.5	15.2	3.3	2.1	1.7
-7.5°	146.2	88.8	41.7	14.8	3.3	2.1	1.7
-10°	143.2	86.8	40.6	14.3	3.3	2.1	1.7
-12.5°	139.5	84.3	39.3	13.7	3.2	2.1	1.7
-15°	135.1	81.3	37.7	12.9	3.2	2.1	1.7
-17.5°	130.0	77.8	35.9	12.0	3.2	2.1	1.7
-20°	124.2	73.9	33.9	11.0	3.1	2.1	1.7

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REPORT NUMBER: P670552 (CONVERTED FROM TYPE C PHOTOMETRY)  
CATALOG NUMBER: ARFL50DBZ-45W-3500K

**CANDELA DISTRIBUTION (continued):**

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	118.4	69.5	31.6	10.3	3.1	2.0	1.7
-25°	112.1	64.7	29.2	9.8	3.0	2.0	1.7
-27.5°	105.3	59.5	27.1	9.2	2.9	2.0	1.7
-30°	97.9	54.6	25.2	8.6	2.9	2.0	1.7
-32.5°	90.4	49.8	23.1	7.9	2.8	2.0	1.7
-35°	82.4	44.6	20.8	7.2	2.7	2.0	1.7
-37.5°	74.0	39.6	18.4	6.5	2.6	2.0	1.7
-40°	65.4	35.0	15.9	5.8	2.6	1.9	1.7
-42.5°	56.5	30.3	13.4	5.1	2.5	1.9	1.7
-45°	48.9	26.1	10.7	4.4	2.4	1.9	1.7
-47.5°	41.1	22.3	9.3	3.6	2.3	1.9	1.7
-50°	34.7	18.4	8.0	3.3	2.3	1.9	1.7
-52.5°	28.3	14.8	6.7	3.1	2.2	1.8	1.7
-55°	23.1	11.1	5.6	2.9	2.1	1.8	1.7
-57.5°	17.8	8.8	4.5	2.7	2.1	1.8	1.7
-60°	13.3	7.1	3.5	2.5	2.0	1.7	1.7
-62.5°	9.3	5.6	3.2	2.4	2.0	1.7	1.7
-65°	7.2	4.2	2.9	2.2	1.9	1.7	1.7
-67.5°	5.3	3.4	2.6	2.1	1.9	1.7	1.7
-70°	3.8	3.0	2.4	2.0	1.8	1.7	1.7
-72.5°	3.2	2.6	2.1	1.9	1.8	1.7	1.7
-75°	2.7	2.2	2.0	1.8	1.7	1.7	1.7
-77.5°	2.2	2.0	1.9	1.8	1.7	1.7	1.7
-80°	1.9	1.8	1.7	1.7	1.7	1.7	1.7
-82.5°	1.7	1.7	1.7	1.6	1.7	1.7	1.7
-85°	1.6	1.6	1.6	1.6	1.7	1.7	1.7
-87.5°	1.6	1.6	1.6	1.6	1.7	1.7	1.7
-90°	2.3	2.2	2.1	2.0	1.9	1.8	1.7

(END OF REPORT)