

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: P670558 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: ARFL80DBZ-80W-4000K

Issue Date: 3/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P670558 (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: ARFL80DBZ-80W-4000K
Description: SLIM WALL OR FLOODLIGHT
Light Source:
Ballast/Driver: -

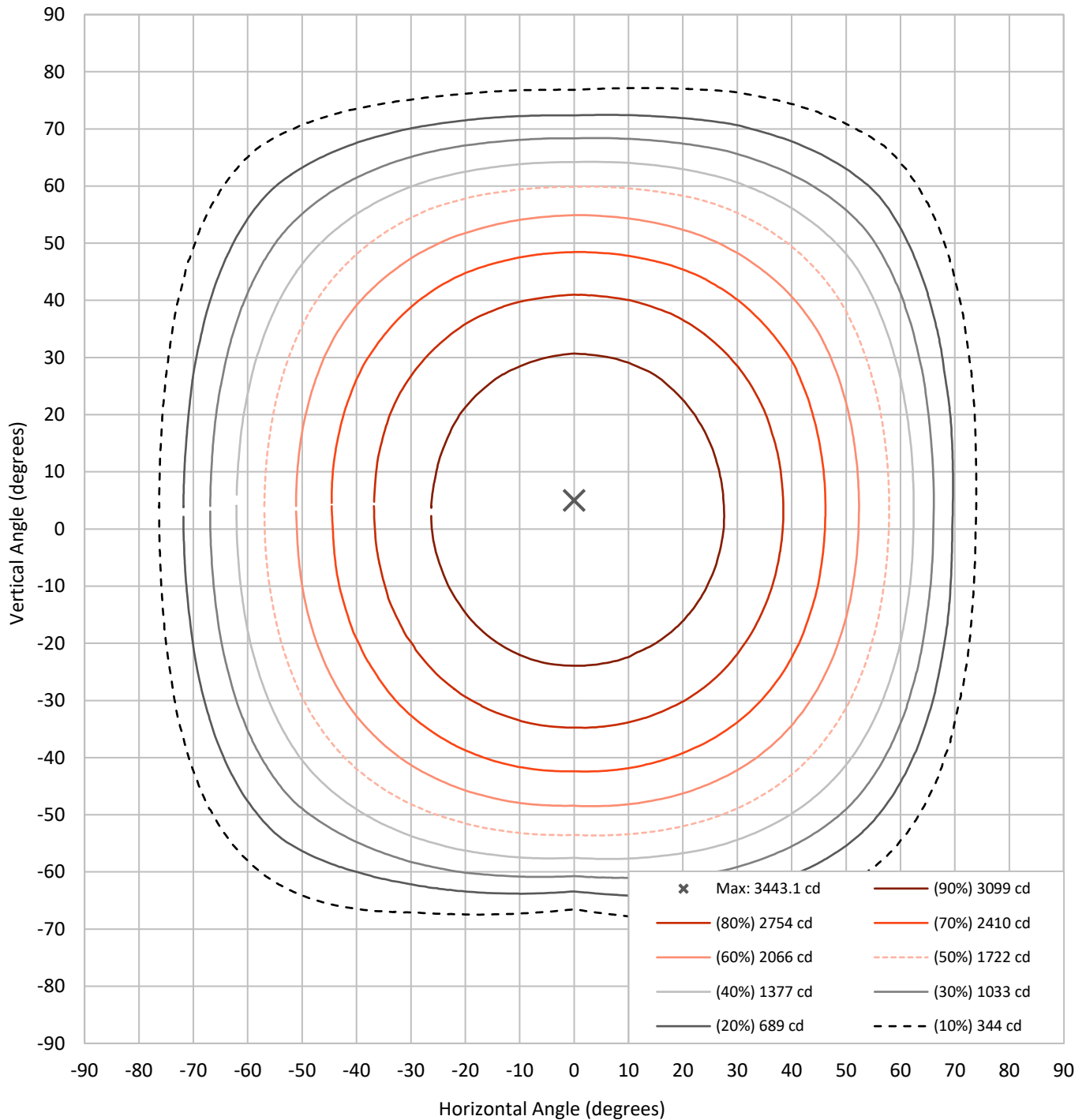
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	9558.8 lumens	Max Intensity:	3443.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 5°V
Efficacy:	123.5 lumens/watt		
Luminous Opening:	Rectangular w/ Sides (W: 0.4' x L: 0.72' x H: 0.18')		
Beam Angle (50%):	114.9°H x 113.4°V	Field Angle (10%):	150.2°H x 143.3°V
Beam Lumens:	7658.1 lumens	Field Lumens:	9415.8 lumens
Beam Efficiency:	80.1%	Field Efficiency:	98.5%
Input Watts (W):	77.4		
Input Voltage (V):	120		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		



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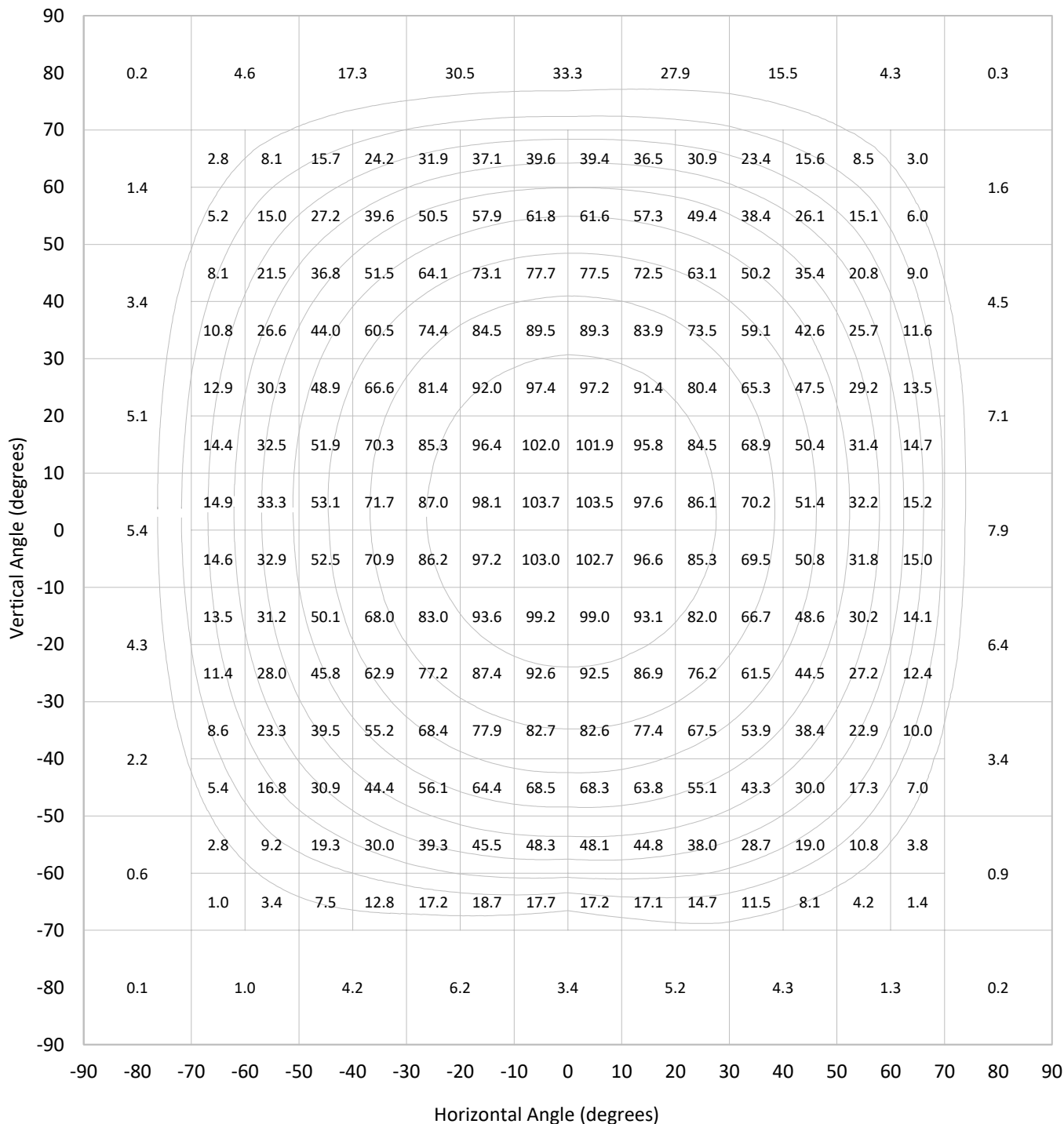
Iso-Candela Plot





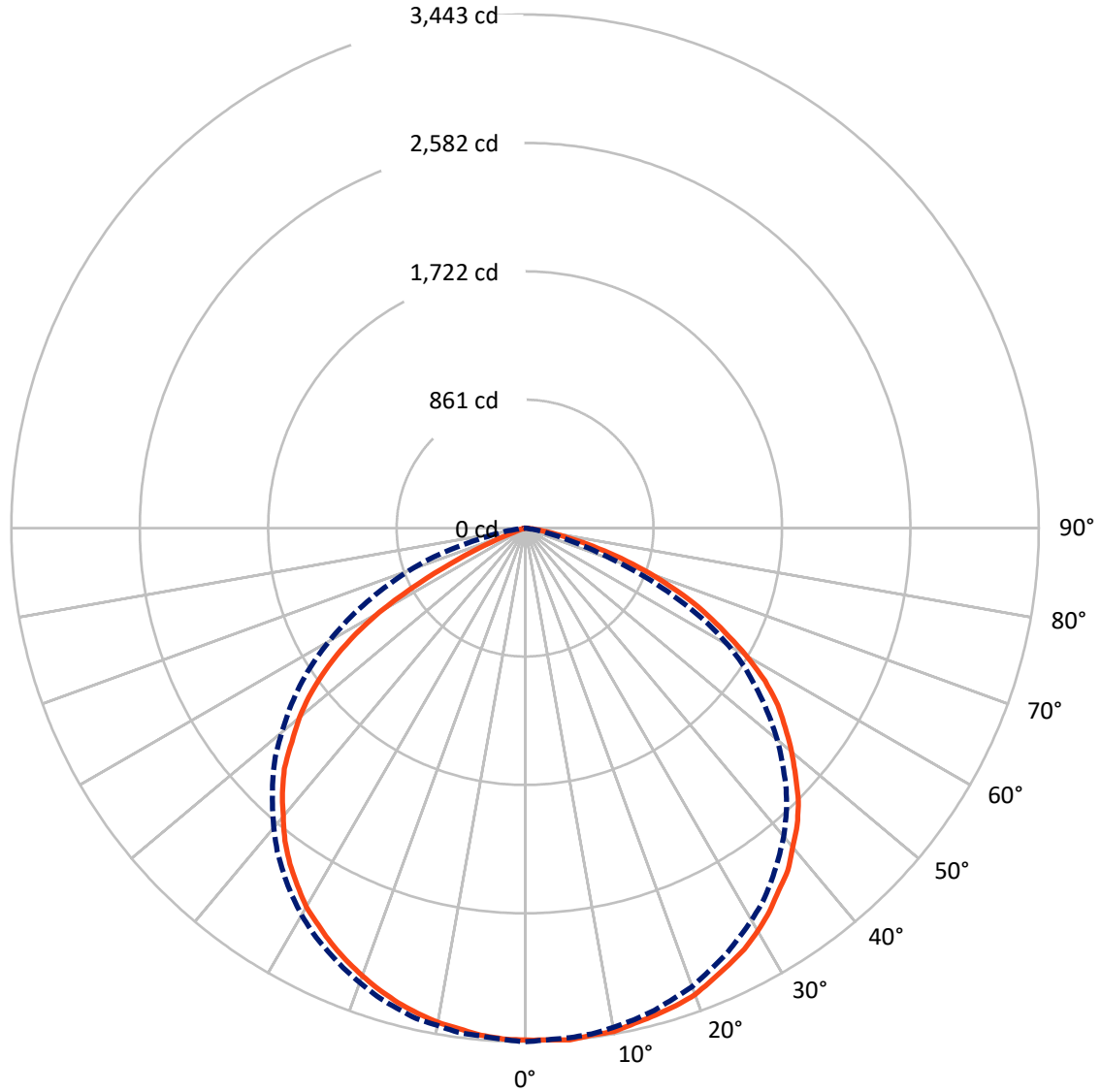
REPORT NUMBER: P670558 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL80DBZ-80W-4000K

Lumen Table



REPORT NUMBER: P670558 (CONVERTED FROM TYPE C PHOTOMETRY)
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Luminous Intensity Polar Plot

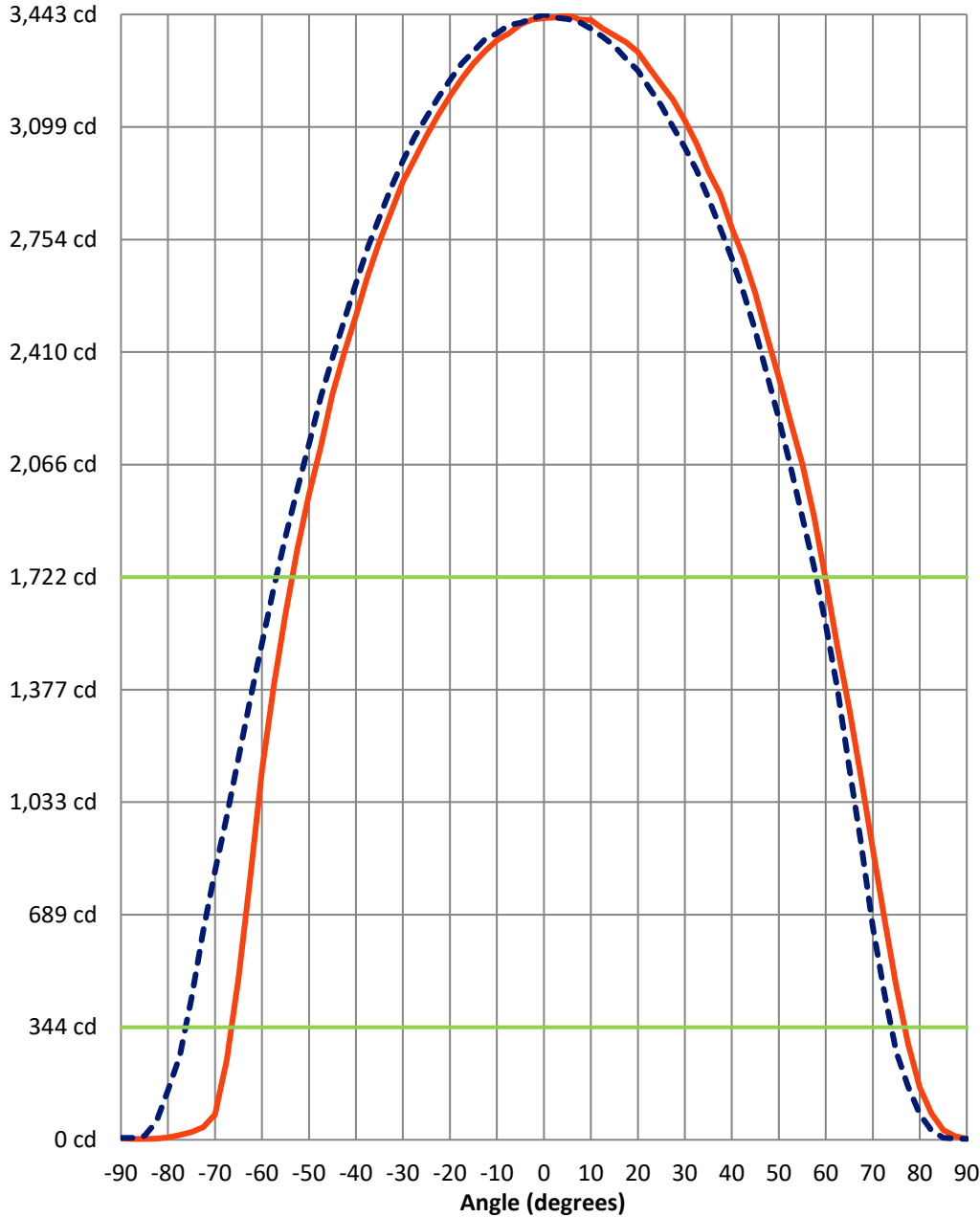


— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 5-Deg



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Luminous Intensity Plot



Beam:
 H Angle: 114.9°
 V Angle: 113.4°
 Lumens: 7658.1
 Efficiency: 80.1%

Field:
 H Angle: 150.2°
 V Angle: 143.3°
 Lumens: 9415.8
 Efficiency: 98.5%

Spill:
 Lumens: 143
 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°	5.6	5.5	5.5	5.4	5.3	5.2	5.2	5.1	5.0	4.9	4.9
87.5°	5.6	5.7	5.8	6.0	6.2	6.5	6.8	7.1	7.5	7.9	8.4
85°	5.6	5.7	5.9	6.2	6.6	7.1	7.7	8.4	9.2	10.0	11.2
82.5°	5.6	5.8	6.0	6.5	7.1	7.8	8.7	10.0	11.6	13.4	16.0
80°	5.6	5.8	6.1	6.7	7.5	8.6	10.2	12.1	15.7	19.7	26.3
77.5°	5.6	5.8	6.3	7.0	8.1	9.7	12.4	16.4	23.1	33.0	43.9
75°	5.6	5.8	6.4	7.2	8.8	11.3	15.6	24.1	35.1	47.2	64.0
72.5°	5.6	5.9	6.5	7.6	9.5	13.7	21.8	33.4	46.5	68.8	96.1
70°	5.6	5.9	6.6	8.0	11.0	17.3	28.9	42.6	66.9	98.8	132.2
67.5°	5.6	5.9	6.7	8.4	12.5	22.4	36.0	59.1	93.2	129.8	167.8
65°	5.6	6.0	6.9	9.1	15.0	27.5	46.4	79.7	120.3	161.5	212.1
62.5°	5.6	6.0	7.1	9.9	18.3	32.7	60.1	104.1	145.4	200.4	264.7
60°	5.6	6.0	7.2	10.8	21.4	40.2	78.8	124.1	178.9	244.0	322.4
57.5°	5.6	6.1	7.4	11.6	25.0	50.4	98.5	148.0	214.7	291.1	385.2
55°	5.6	6.1	7.5	13.5	28.4	62.0	114.1	176.8	251.5	341.8	453.4
52.5°	5.6	6.1	7.7	15.3	32.3	77.4	130.2	205.6	288.9	396.9	513.8
50°	5.6	6.1	8.0	16.9	39.2	92.1	153.9	233.9	329.6	452.7	575.1
47.5°	5.6	6.1	8.4	18.5	45.8	103.3	176.8	262.6	373.3	504.6	636.5
45°	5.6	6.2	8.7	20.4	52.7	113.9	197.9	291.6	419.1	555.2	695.1
42.5°	5.6	6.2	8.9	22.2	63.0	127.6	217.7	320.8	462.2	606.2	748.6
40°	5.6	6.2	9.2	23.8	72.8	144.7	237.7	353.3	503.1	657.3	794.9
37.5°	5.6	6.2	9.4	25.2	81.9	161.0	256.2	387.0	541.0	702.2	843.7
35°	5.6	6.2	9.9	28.0	89.1	175.1	274.9	419.0	579.7	742.2	889.0
32.5°	5.6	6.2	10.4	31.2	95.0	187.6	293.0	449.6	619.2	776.9	928.9
30°	5.6	6.2	10.9	34.1	100.4	199.0	309.2	477.7	654.4	812.0	963.9
27.5°	5.6	6.2	11.3	36.7	105.3	209.4	329.2	501.9	685.0	845.7	995.6
25°	5.6	6.2	11.6	38.9	111.0	219.0	348.2	523.8	712.5	874.5	1029.9
22.5°	5.6	6.2	11.9	40.9	119.2	227.3	365.0	545.5	733.9	899.5	1061.0
20°	5.6	6.2	12.1	43.3	126.6	234.5	380.2	568.0	752.9	921.2	1087.4
17.5°	5.6	6.2	12.2	46.5	133.0	240.4	394.5	587.9	769.8	938.5	1110.1
15°	5.6	6.2	12.3	49.1	138.6	245.7	406.6	605.1	785.8	952.9	1129.0
12.5°	5.6	6.2	12.3	51.2	143.2	250.2	416.5	618.5	799.0	964.5	1143.9
10°	5.6	6.2	12.3	52.9	146.8	253.4	424.2	627.9	809.3	975.2	1155.3
7.5°	5.6	6.1	12.2	54.0	149.5	255.3	429.6	634.6	816.6	983.5	1163.2
5°	5.6	6.1	12.0	54.6	151.2	255.9	432.7	638.7	821.0	988.4	1167.7
2.5°	5.6	6.1	11.8	54.7	151.9	255.4	433.4	640.0	822.4	989.9	1168.6
0°	5.6	6.1	11.6	54.3	151.5	253.7	431.7	638.6	820.8	987.9	1166.1
-2.5°	5.6	6.1	11.6	53.7	149.8	251.4	427.6	633.4	815.0	982.1	1160.1
-5°	5.6	6.1	11.5	52.6	147.1	248.0	421.0	625.5	806.3	972.8	1150.5
-7.5°	5.6	6.1	11.4	51.0	143.5	243.5	412.1	614.8	794.6	960.1	1137.5
-10°	5.6	6.1	11.3	49.0	138.9	237.9	400.9	601.4	779.9	944.0	1120.9
-12.5°	5.6	6.0	11.1	46.5	133.4	231.3	387.4	585.2	762.3	925.4	1100.9
-15°	5.6	6.0	10.9	43.6	127.0	223.6	371.6	565.0	741.8	906.0	1077.4
-17.5°	5.6	6.0	10.7	40.3	119.7	215.6	353.7	541.0	718.4	883.7	1050.2
-20°	5.6	6.0	10.4	36.6	111.7	207.2	333.6	514.2	694.7	858.5	1019.3

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Scaled Data Report



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CATALOG NUMBER: ARFL80DBZ-80W-4000K

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	5.6	6.0	10.1	33.7	102.8	198.1	313.8	484.8	669.0	828.5	985.0
-25°	5.6	6.0	9.8	31.3	93.3	188.2	293.5	456.6	641.0	795.0	945.6
-27.5°	5.6	6.0	9.4	28.8	86.4	177.6	271.8	429.1	605.8	757.8	903.1
-30°	5.6	6.0	9.0	26.1	80.6	166.0	249.7	399.5	567.1	716.3	862.7
-32.5°	5.6	6.0	8.6	23.3	74.5	153.7	232.5	365.2	523.8	673.8	818.7
-35°	5.6	5.9	8.1	20.3	68.0	140.6	214.4	328.2	476.1	632.9	768.9
-37.5°	5.6	5.9	7.7	17.7	60.7	126.0	196.6	292.4	430.6	584.8	714.6
-40°	5.6	5.9	7.6	16.4	52.1	109.1	180.0	259.4	388.0	530.1	657.8
-42.5°	5.6	5.9	7.4	15.0	43.2	91.6	162.8	229.1	340.7	469.5	605.6
-45°	5.6	5.9	7.1	13.5	34.0	78.0	144.1	204.0	290.5	411.1	541.9
-47.5°	5.6	5.9	6.9	12.0	28.5	68.2	124.7	180.5	249.5	356.6	471.7
-50°	5.6	5.8	6.7	11.0	23.6	58.1	102.7	158.7	212.9	296.6	401.4
-52.5°	5.6	5.8	6.4	10.0	18.6	46.2	80.1	135.2	181.8	244.9	336.5
-55°	5.6	5.8	6.3	9.1	16.0	34.2	66.3	110.6	156.0	201.8	267.1
-57.5°	5.6	5.8	6.2	8.1	13.8	26.3	53.6	84.3	128.6	166.8	213.6
-60°	5.6	5.7	6.2	7.6	11.6	20.1	39.6	64.1	99.6	137.6	171.3
-62.5°	5.6	5.7	6.1	7.2	10.3	15.8	27.3	49.1	70.5	104.9	137.2
-65°	5.6	5.7	6.0	6.7	8.9	13.1	20.2	34.0	52.3	73.3	101.7
-67.5°	5.6	5.7	5.9	6.4	7.9	10.9	15.3	23.1	36.1	50.4	67.9
-70°	5.6	5.7	5.9	6.3	7.3	9.2	12.2	16.1	23.1	33.3	44.0
-72.5°	5.6	5.6	5.8	6.1	6.6	7.9	10.0	12.7	15.8	21.0	27.4
-75°	5.6	5.6	5.8	6.0	6.4	7.1	8.3	10.1	12.2	14.6	17.6
-77.5°	5.6	5.6	5.7	5.9	6.1	6.5	7.2	8.2	9.6	11.2	12.8
-80°	5.6	5.6	5.6	5.8	5.9	6.2	6.5	6.9	7.8	8.7	9.7
-82.5°	5.6	5.6	5.6	5.6	5.8	5.9	6.1	6.3	6.7	7.0	7.6
-85°	5.6	5.6	5.5	5.6	5.6	5.7	5.7	5.9	6.0	6.1	6.3
-87.5°	5.6	5.5	5.5	5.5	5.4	5.4	5.4	5.5	5.5	5.5	5.6
-90°	5.6	5.7	5.7	5.8	5.9	5.9	6.0	6.1	6.1	6.2	6.3



REPORT NUMBER: P670558 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL80DBZ-80W-4000K

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	4.8	4.7	5.0	5.3	5.5	5.8	6.1	6.4	6.6	6.9	7.2
87.5°	9.0	9.5	9.7	9.9	10.0	10.2	10.3	10.4	10.5	10.6	10.7
85°	12.6	14.1	14.8	15.5	16.3	17.6	18.8	19.9	21.0	21.9	22.7
82.5°	19.5	23.4	26.0	31.0	35.7	39.9	43.9	47.9	51.8	55.6	59.3
80°	35.4	45.4	52.2	58.3	65.3	75.5	85.0	94.2	104.2	113.4	121.9
77.5°	55.3	70.4	86.0	100.5	115.9	130.6	144.0	156.7	169.1	181.1	192.1
75°	86.1	111.7	134.0	152.3	170.1	188.4	206.7	229.9	251.1	272.8	291.9
72.5°	126.7	155.6	182.1	205.4	236.9	268.5	300.9	332.2	362.3	392.6	422.2
70°	165.0	201.3	244.0	285.9	328.3	372.8	416.2	458.9	499.0	539.1	578.1
67.5°	211.9	265.8	327.0	383.3	439.1	491.7	539.8	591.1	641.9	693.4	740.6
65°	272.6	343.5	424.8	491.4	546.1	607.4	667.0	725.6	782.1	836.8	893.1
62.5°	340.9	429.5	518.0	586.8	656.0	722.0	787.0	850.4	917.7	978.3	1036.1
60°	416.0	511.9	603.3	685.1	758.0	828.9	904.1	975.4	1043.1	1111.0	1178.1
57.5°	490.7	590.1	687.9	776.6	854.0	937.9	1015.2	1092.0	1170.0	1245.5	1320.3
55°	559.9	668.0	768.7	862.3	953.3	1038.1	1124.3	1211.6	1294.7	1381.5	1467.3
52.5°	630.6	742.1	843.4	949.3	1044.4	1138.7	1234.3	1327.2	1421.9	1519.9	1607.5
50°	698.7	809.7	923.0	1029.0	1135.6	1239.1	1340.4	1442.1	1547.8	1639.8	1724.8
47.5°	761.9	879.6	994.2	1108.5	1226.0	1334.9	1443.8	1555.0	1655.6	1746.4	1831.2
45°	818.4	944.5	1063.4	1189.4	1308.5	1426.0	1545.0	1654.4	1752.3	1844.5	1938.1
42.5°	879.2	1003.9	1134.0	1260.8	1388.8	1518.3	1635.5	1741.9	1842.9	1944.0	2035.4
40°	932.6	1063.3	1200.6	1335.5	1470.1	1596.6	1713.8	1825.9	1934.9	2035.3	2129.7
37.5°	981.1	1122.4	1261.9	1400.9	1539.8	1668.3	1792.2	1910.1	2018.3	2121.8	2213.9
35°	1027.7	1177.3	1323.8	1470.5	1607.3	1737.8	1862.9	1984.5	2097.9	2197.8	2289.0
32.5°	1075.8	1225.7	1376.1	1525.9	1664.7	1798.7	1928.8	2053.1	2167.9	2263.4	2358.6
30°	1119.9	1276.0	1431.4	1579.9	1722.4	1857.6	1988.9	2114.5	2222.3	2327.9	2424.9
27.5°	1159.5	1319.8	1478.1	1627.1	1771.3	1910.0	2042.6	2164.7	2278.8	2383.6	2485.7
25°	1193.9	1356.6	1518.5	1670.8	1816.1	1957.1	2090.1	2207.2	2323.8	2434.8	2532.8
22.5°	1227.1	1394.4	1555.4	1711.3	1856.5	1997.7	2129.0	2253.1	2369.1	2477.9	2577.9
20°	1258.7	1428.2	1587.5	1743.7	1892.2	2032.2	2161.6	2288.7	2406.9	2511.8	2613.7
17.5°	1284.8	1453.5	1615.5	1771.9	1921.9	2062.1	2190.6	2320.2	2436.8	2545.3	2650.2
15°	1303.9	1475.0	1639.5	1795.1	1946.3	2085.1	2220.2	2348.5	2460.5	2566.5	2676.3
12.5°	1319.3	1492.3	1658.8	1813.6	1963.9	2102.7	2241.6	2368.3	2479.7	2588.1	2696.9
10°	1331.4	1505.2	1673.4	1828.5	1976.6	2115.6	2255.7	2382.2	2495.5	2609.4	2712.8
7.5°	1341.3	1513.9	1682.8	1838.7	1984.7	2124.0	2265.4	2389.4	2505.8	2617.7	2723.5
5°	1346.9	1518.3	1687.6	1844.1	1988.4	2127.7	2271.3	2391.5	2506.5	2620.0	2728.9
2.5°	1348.3	1518.5	1688.0	1844.6	1987.1	2126.7	2271.6	2388.8	2502.2	2616.9	2728.9
0°	1345.4	1514.5	1684.1	1840.1	1981.1	2120.6	2266.4	2381.4	2493.8	2608.7	2722.6
-2.5°	1338.7	1508.4	1677.1	1833.5	1974.8	2114.3	2258.6	2375.2	2488.7	2602.4	2714.9
-5°	1327.8	1498.1	1665.7	1821.9	1963.6	2102.9	2245.1	2364.3	2479.5	2591.3	2701.1
-7.5°	1312.7	1483.5	1649.7	1805.1	1947.7	2086.5	2225.9	2348.3	2465.4	2575.2	2681.4
-10°	1293.4	1464.7	1629.1	1783.3	1927.2	2065.0	2202.6	2327.0	2440.1	2553.7	2654.6
-12.5°	1272.0	1441.5	1604.1	1756.4	1902.1	2038.6	2174.7	2299.8	2408.2	2518.2	2621.8
-15°	1247.2	1413.8	1574.8	1726.7	1871.9	2007.3	2140.3	2267.7	2375.1	2482.3	2585.4
-17.5°	1218.8	1381.7	1540.8	1692.7	1837.8	1970.7	2099.8	2224.7	2337.1	2446.6	2547.9
-20°	1183.9	1345.6	1502.1	1652.1	1798.8	1928.5	2056.0	2177.6	2291.8	2392.6	2497.0



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 CATALOG NUMBER: ARFL80DBZ-80W-4000K

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1144.1	1302.6	1459.0	1605.9	1748.7	1880.8	2007.5	2127.6	2242.6	2345.0	2446.3
-25°	1102.3	1255.8	1410.8	1556.8	1696.4	1829.8	1953.5	2071.5	2179.8	2284.3	2377.2
-27.5°	1058.3	1209.3	1358.5	1503.1	1639.1	1774.5	1893.3	2010.2	2118.3	2221.8	2317.9
-30°	1010.3	1156.8	1300.9	1444.3	1575.5	1706.0	1827.1	1943.1	2051.2	2148.1	2246.5
-32.5°	958.4	1099.0	1237.2	1377.8	1510.5	1635.5	1760.7	1868.4	1976.2	2075.2	2165.9
-35°	901.5	1040.1	1174.9	1308.7	1440.8	1558.1	1678.2	1792.2	1894.0	1992.0	2083.8
-37.5°	845.6	977.0	1105.8	1231.2	1359.6	1481.4	1591.7	1704.4	1803.8	1900.4	1991.5
-40°	786.8	909.4	1034.4	1155.6	1276.2	1395.9	1503.4	1608.4	1712.5	1801.2	1889.9
-42.5°	722.1	840.2	959.1	1074.8	1186.7	1301.6	1411.1	1506.2	1606.5	1701.7	1783.4
-45°	652.4	769.5	879.6	991.4	1098.1	1199.2	1301.8	1403.3	1492.0	1585.4	1672.1
-47.5°	590.2	692.1	799.4	903.0	1005.8	1094.9	1186.1	1282.6	1375.3	1458.3	1544.3
-50°	515.1	613.8	714.0	812.3	905.0	985.2	1066.5	1152.5	1243.8	1326.6	1404.3
-52.5°	433.8	538.5	623.3	718.0	798.2	868.6	942.6	1017.8	1097.1	1182.0	1257.2
-55°	357.3	448.9	543.2	617.8	688.4	752.1	813.4	879.2	946.2	1016.9	1090.8
-57.5°	281.1	361.4	444.4	525.7	575.7	633.8	687.7	739.6	792.9	851.4	910.6
-60°	216.3	277.7	348.9	416.9	477.2	519.3	562.6	605.8	647.5	688.1	731.4
-62.5°	167.2	206.3	257.4	315.7	366.8	414.1	452.7	477.5	509.3	539.2	568.6
-65°	129.2	153.7	184.9	220.2	266.9	305.9	341.0	371.1	393.7	405.8	422.9
-67.5°	90.2	114.4	132.8	156.2	181.4	209.2	240.0	263.8	283.7	299.3	310.5
-70°	55.9	72.2	91.5	109.0	122.5	139.3	155.7	170.7	189.5	202.4	209.6
-72.5°	33.8	42.2	52.8	64.4	78.8	90.8	99.6	108.4	116.5	124.1	129.8
-75°	20.6	24.5	28.1	35.4	41.6	48.8	54.5	62.2	67.7	71.6	74.2
-77.5°	14.3	16.0	17.7	19.7	22.4	24.5	28.1	30.6	32.6	33.9	33.8
-80°	10.9	11.9	12.8	13.5	14.2	15.2	15.9	16.6	17.5	18.1	18.2
-82.5°	8.3	9.0	9.5	10.1	10.5	10.9	11.2	11.5	11.7	11.9	12.0
-85°	6.6	6.9	7.3	7.6	7.9	8.3	8.5	8.8	8.9	9.0	9.1
-87.5°	5.6	5.7	6.0	6.3	6.6	6.9	7.2	7.5	7.7	8.0	8.2
-90°	6.3	6.4	6.3	6.3	6.2	6.1	6.1	6.0	5.9	5.9	5.8



REPORT NUMBER: P670558 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL80DBZ-80W-4000K

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	7.5	7.7	8.0	7.6	7.2	6.8	6.4	6.0	5.6	5.1	4.7
87.5°	10.8	10.9	11.0	11.1	11.3	11.3	11.4	11.5	11.5	11.5	11.5
85°	24.2	25.8	27.2	28.4	29.3	30.1	30.7	31.2	31.4	31.5	31.5
82.5°	64.0	68.7	73.0	76.1	78.6	80.5	82.1	83.6	84.6	85.0	85.0
80°	129.8	137.0	143.6	148.5	152.6	156.3	159.3	161.7	163.5	164.6	165.1
77.5°	204.8	217.3	228.3	238.2	247.9	256.9	265.0	272.3	278.9	284.9	289.6
75°	310.1	326.5	340.1	359.2	378.8	396.2	412.6	428.7	442.1	452.9	461.2
72.5°	451.4	481.1	509.3	535.5	560.4	584.4	607.7	627.6	644.0	656.8	666.2
70°	617.6	658.8	696.7	729.9	759.8	787.0	811.5	833.0	851.1	865.9	877.4
67.5°	786.3	830.4	873.8	914.6	947.4	976.7	1003.3	1026.7	1047.5	1065.2	1080.8
65°	946.1	994.2	1039.2	1081.6	1121.3	1158.4	1189.9	1218.2	1243.7	1266.5	1285.2
62.5°	1092.6	1149.3	1201.2	1250.6	1297.3	1339.7	1377.2	1410.2	1439.1	1462.9	1481.5
60°	1241.9	1305.4	1368.7	1430.8	1486.4	1533.6	1574.4	1607.3	1636.1	1659.2	1678.1
57.5°	1396.1	1471.3	1546.2	1612.8	1667.5	1706.5	1744.7	1780.4	1810.2	1836.0	1858.9
55°	1555.1	1630.0	1695.2	1757.2	1811.5	1851.6	1890.6	1928.5	1964.8	1995.6	2017.6
52.5°	1685.9	1759.1	1822.7	1879.9	1938.4	1989.2	2027.5	2066.6	2100.4	2128.1	2151.2
50°	1802.7	1871.9	1945.2	2003.9	2062.9	2115.2	2158.3	2196.3	2231.1	2261.5	2285.5
47.5°	1913.5	1987.6	2059.4	2124.7	2182.8	2237.8	2283.6	2322.8	2357.2	2387.0	2412.2
45°	2018.6	2098.6	2169.8	2237.2	2296.8	2354.2	2403.0	2443.2	2476.7	2506.9	2533.1
42.5°	2121.9	2200.5	2271.8	2341.0	2406.2	2461.7	2509.4	2550.4	2587.7	2620.2	2647.1
40°	2215.1	2292.1	2369.0	2437.8	2500.3	2556.8	2609.3	2655.8	2692.1	2721.8	2744.9
37.5°	2298.4	2380.5	2455.9	2525.3	2588.5	2651.7	2703.7	2745.1	2777.5	2812.1	2839.4
35°	2376.9	2460.1	2536.4	2607.8	2673.6	2731.6	2781.9	2828.2	2864.6	2897.2	2922.7
32.5°	2449.9	2533.0	2611.7	2682.6	2746.3	2805.5	2856.9	2904.1	2941.4	2970.8	2996.1
30°	2516.5	2600.2	2678.2	2749.6	2813.8	2872.8	2924.8	2969.6	3007.0	3032.9	3060.4
27.5°	2574.0	2659.9	2739.6	2810.0	2874.8	2931.3	2980.2	3021.9	3065.9	3096.8	3121.5
25°	2627.6	2716.1	2793.2	2864.2	2924.3	2980.2	3030.7	3078.1	3115.0	3156.0	3180.7
22.5°	2675.2	2762.8	2840.5	2906.3	2968.1	3027.2	3078.1	3126.4	3164.9	3207.1	3227.6
20°	2714.5	2802.6	2879.1	2943.7	3011.4	3067.6	3121.1	3164.6	3206.4	3244.8	3266.0
17.5°	2746.4	2834.7	2906.6	2983.4	3046.7	3101.5	3149.6	3197.3	3243.8	3273.0	3306.2
15°	2774.3	2858.2	2934.2	3010.0	3070.2	3124.7	3177.8	3228.5	3267.9	3303.1	3331.6
12.5°	2796.6	2877.0	2961.5	3033.5	3094.4	3145.8	3201.5	3249.8	3293.5	3328.8	3357.2
10°	2808.0	2891.4	2978.6	3047.8	3105.4	3168.5	3221.4	3270.8	3311.3	3347.2	3375.0
7.5°	2816.4	2905.1	2988.9	3061.5	3117.5	3182.9	3233.8	3285.8	3329.3	3355.2	3385.4
5°	2822.3	2913.2	2994.9	3068.7	3128.8	3188.6	3241.9	3292.7	3330.5	3367.5	3385.0
2.5°	2823.2	2914.7	2995.3	3065.6	3134.6	3189.0	3243.4	3293.7	3331.2	3364.2	3392.2
0°	2817.8	2909.6	2989.8	3059.2	3133.1	3183.8	3238.3	3287.2	3329.0	3360.4	3393.2
-2.5°	2808.8	2899.7	2978.5	3051.9	3122.3	3175.3	3226.7	3275.4	3314.4	3346.0	3374.5
-5°	2792.9	2883.6	2962.9	3040.0	3103.8	3162.3	3211.8	3257.7	3291.9	3330.1	3352.0
-7.5°	2770.6	2862.2	2944.8	3018.5	3079.1	3141.4	3191.3	3236.8	3268.1	3302.8	3334.5
-10°	2746.1	2837.8	2918.0	2989.7	3054.0	3114.6	3161.8	3199.4	3238.8	3272.0	3307.1
-12.5°	2722.6	2806.4	2882.1	2944.5	3021.1	3080.1	3130.2	3177.4	3212.7	3242.5	3268.8
-15°	2687.1	2765.1	2844.6	2920.3	2981.9	3044.2	3095.4	3142.1	3180.5	3209.1	3229.4
-17.5°	2640.2	2723.6	2806.7	2867.2	2927.0	2996.6	3051.0	3095.9	3138.8	3170.7	3196.4
-20°	2588.8	2681.3	2749.8	2826.6	2888.8	2941.0	2998.5	3046.4	3084.5	3119.3	3150.9



REPORT NUMBER: P670558 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL80DBZ-80W-4000K

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	2538.1	2620.7	2701.0	2768.5	2834.9	2894.4	2940.7	2989.6	3027.6	3059.6	3087.2
-25°	2477.3	2560.8	2643.5	2708.8	2771.8	2833.1	2883.3	2924.9	2974.0	2995.6	3023.8
-27.5°	2408.2	2497.0	2571.3	2647.6	2704.7	2758.6	2814.5	2859.3	2899.7	2929.8	2963.5
-30°	2335.6	2421.7	2501.4	2567.5	2634.7	2685.6	2734.7	2776.1	2824.0	2854.8	2881.8
-32.5°	2257.2	2337.1	2416.6	2489.4	2549.4	2607.1	2654.5	2695.7	2732.7	2763.5	2791.9
-35°	2169.1	2252.9	2324.8	2393.3	2460.1	2520.5	2564.3	2609.3	2644.5	2673.1	2700.6
-37.5°	2076.7	2155.2	2231.6	2297.6	2353.2	2414.3	2467.2	2513.4	2542.7	2575.2	2600.9
-40°	1973.6	2052.0	2125.6	2192.1	2257.6	2303.8	2349.3	2396.6	2435.4	2467.6	2492.8
-42.5°	1862.1	1937.6	2008.7	2078.1	2136.9	2189.7	2242.9	2279.9	2313.7	2343.4	2369.2
-45°	1749.6	1816.8	1883.3	1947.2	2005.2	2063.6	2110.3	2149.3	2183.0	2214.7	2239.3
-47.5°	1624.1	1696.5	1756.3	1811.6	1865.3	1916.9	1965.3	2007.5	2043.7	2071.4	2092.8
-50°	1481.9	1556.2	1621.3	1679.2	1727.4	1771.3	1813.4	1853.8	1888.9	1918.1	1940.9
-52.5°	1328.9	1394.0	1462.9	1524.4	1577.2	1622.4	1662.3	1696.9	1728.0	1753.0	1773.8
-55°	1167.4	1228.2	1286.3	1339.9	1393.4	1446.2	1486.2	1520.7	1548.6	1571.9	1589.8
-57.5°	972.8	1036.7	1101.1	1154.2	1197.4	1237.3	1275.3	1309.4	1339.6	1363.9	1382.0
-60°	779.5	826.7	876.5	926.3	972.7	1013.3	1048.5	1072.9	1094.5	1113.1	1127.9
-62.5°	597.2	623.7	657.8	691.5	724.0	754.1	781.2	803.4	821.0	833.1	839.2
-65°	438.6	452.7	468.3	482.5	499.7	513.7	530.6	542.3	549.4	553.0	551.6
-67.5°	314.7	313.5	314.7	316.7	323.7	328.3	330.0	331.3	328.5	321.7	312.9
-70°	213.8	214.9	212.0	209.1	208.6	205.4	199.1	190.4	182.1	170.5	156.0
-72.5°	134.5	136.5	134.3	132.2	131.0	128.9	125.7	120.0	112.2	102.9	92.3
-75°	76.2	76.8	75.7	76.6	77.4	76.7	74.8	71.8	67.5	62.1	55.7
-77.5°	34.3	34.6	33.3	34.3	36.2	37.0	37.0	36.1	34.5	32.3	29.5
-80°	18.3	17.8	16.7	16.1	15.6	15.1	14.5	13.8	13.1	12.3	11.4
-82.5°	12.0	12.0	11.9	11.4	10.9	10.3	9.7	9.0	8.3	7.6	6.8
-85°	9.2	9.2	9.3	8.8	8.3	7.8	7.3	6.7	6.2	5.6	5.0
-87.5°	8.5	8.7	8.9	8.4	7.9	7.3	6.8	6.3	5.8	5.3	4.7
-90°	5.7	5.7	5.6	5.5	5.5	5.4	5.3	5.2	5.2	5.1	5.0



REPORT NUMBER: P670558 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL80DBZ-80W-4000K

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	4.3	3.9	3.5	3.1	3.4	3.7	4.0	4.3	4.6	5.0	5.3
87.5°	11.5	11.4	11.4	11.3	11.6	11.9	12.1	12.4	12.6	12.8	12.9
85°	31.2	30.9	30.4	29.8	31.2	32.4	33.5	34.4	35.2	35.7	36.1
82.5°	84.5	83.6	82.2	80.4	83.5	86.3	88.6	90.4	91.7	92.5	92.7
80°	164.9	164.0	162.5	160.2	165.9	170.8	174.9	178.3	180.7	182.3	183.0
77.5°	293.0	295.0	295.7	294.9	302.5	308.6	313.3	316.4	318.0	318.2	316.8
75°	466.9	470.2	471.1	469.7	476.9	481.9	484.6	485.0	483.2	479.2	473.0
72.5°	672.8	676.5	677.2	675.0	680.3	682.6	682.2	679.0	673.1	664.8	654.1
70°	885.6	890.5	892.1	890.3	894.7	895.8	893.6	888.0	879.2	867.0	851.6
67.5°	1093.3	1102.1	1107.0	1108.0	1110.7	1109.5	1104.6	1096.2	1084.6	1069.5	1050.7
65°	1299.9	1310.4	1316.7	1318.8	1320.8	1318.6	1312.2	1301.6	1287.1	1268.5	1245.8
62.5°	1494.8	1503.2	1506.9	1506.2	1511.0	1511.4	1507.5	1499.2	1485.5	1466.7	1443.1
60°	1693.3	1704.2	1710.6	1712.1	1714.9	1712.7	1705.6	1693.8	1677.8	1657.4	1632.5
57.5°	1877.5	1891.9	1901.9	1907.3	1906.2	1900.5	1890.3	1875.5	1855.2	1831.1	1804.3
55°	2036.1	2050.8	2061.4	2067.9	2065.5	2058.8	2047.9	2032.7	2013.4	1988.3	1959.4
52.5°	2169.6	2183.4	2192.7	2197.5	2196.0	2189.9	2178.9	2163.6	2144.6	2121.8	2093.7
50°	2304.2	2318.3	2327.7	2332.3	2332.1	2326.8	2316.1	2299.7	2277.9	2252.6	2221.9
47.5°	2431.8	2445.2	2454.0	2457.9	2457.2	2451.6	2440.9	2425.2	2405.1	2381.3	2354.0
45°	2554.8	2571.9	2583.8	2590.2	2586.5	2577.4	2563.6	2545.7	2523.6	2497.6	2465.9
42.5°	2668.1	2683.8	2694.5	2700.0	2696.7	2688.0	2674.4	2657.1	2635.4	2604.8	2570.5
40°	2762.8	2776.4	2785.5	2790.1	2788.8	2782.8	2772.2	2756.9	2735.1	2706.0	2670.9
37.5°	2860.9	2877.2	2888.1	2894.1	2892.4	2886.9	2876.0	2854.9	2827.5	2797.4	2766.9
35°	2941.7	2953.8	2960.8	2963.7	2964.5	2961.4	2953.8	2938.4	2913.0	2892.9	2855.8
32.5°	3015.8	3030.6	3041.4	3047.7	3044.7	3036.9	3025.3	3010.3	2989.3	2965.3	2930.2
30°	3083.5	3099.9	3111.7	3118.5	3114.7	3106.5	3095.0	3076.5	3051.7	3026.3	2995.5
27.5°	3146.0	3163.3	3175.0	3182.1	3177.9	3168.5	3155.7	3137.5	3111.7	3090.4	3046.5
25°	3205.3	3217.5	3225.4	3229.6	3228.1	3221.9	3210.0	3192.5	3170.0	3138.6	3099.0
22.5°	3248.9	3266.8	3273.3	3277.9	3276.3	3270.6	3258.4	3241.0	3217.8	3183.1	3145.5
20°	3288.4	3307.4	3320.4	3328.3	3323.8	3311.0	3294.1	3283.8	3259.7	3225.6	3186.8
17.5°	3320.7	3340.3	3352.1	3358.1	3353.6	3345.5	3336.1	3321.4	3288.6	3263.5	3220.9
15°	3356.0	3369.8	3376.2	3379.1	3379.1	3374.0	3357.7	3339.7	3318.8	3290.2	3255.4
12.5°	3379.6	3393.8	3400.3	3400.1	3399.7	3393.5	3387.1	3365.7	3336.7	3306.9	3281.7
10°	3397.2	3414.6	3424.2	3426.1	3427.3	3418.5	3398.6	3381.2	3359.1	3323.6	3292.1
7.5°	3405.0	3423.5	3425.7	3427.8	3428.5	3428.2	3416.6	3386.8	3364.9	3340.2	3297.1
5°	3410.3	3417.5	3430.7	3443.1	3433.3	3429.0	3419.9	3399.8	3374.9	3346.7	3307.1
2.5°	3411.0	3423.6	3433.1	3433.8	3429.7	3427.6	3417.5	3402.7	3377.2	3348.3	3309.8
0°	3408.8	3414.6	3420.4	3431.8	3430.6	3425.6	3415.0	3393.3	3377.0	3347.8	3306.7
-2.5°	3399.5	3413.7	3422.3	3427.3	3426.3	3427.6	3414.3	3389.9	3368.7	3334.4	3295.7
-5°	3383.7	3395.8	3403.6	3412.2	3413.4	3413.6	3394.8	3378.3	3352.4	3312.9	3280.0
-7.5°	3359.6	3377.3	3383.4	3384.8	3391.6	3387.6	3376.5	3360.3	3325.5	3290.4	3255.9
-10°	3334.7	3357.2	3363.3	3364.0	3366.4	3361.9	3349.4	3323.8	3292.7	3265.9	3230.2
-12.5°	3296.9	3316.2	3328.8	3331.3	3333.1	3324.3	3306.4	3288.0	3260.3	3230.2	3192.4
-15°	3256.6	3272.6	3287.2	3292.5	3290.6	3282.9	3267.4	3240.0	3220.5	3188.8	3160.1
-17.5°	3211.3	3226.7	3239.8	3245.6	3242.1	3230.8	3218.1	3197.6	3174.8	3149.7	3115.6
-20°	3167.5	3181.5	3190.8	3193.0	3191.0	3182.6	3168.3	3148.7	3130.3	3099.6	3064.9



REPORT NUMBER: P670558 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL80DBZ-80W-4000K

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	3111.3	3127.4	3134.8	3135.5	3134.7	3128.5	3119.4	3098.9	3066.5	3042.0	3007.8
-25°	3046.4	3060.4	3068.7	3071.2	3070.6	3063.3	3049.0	3032.2	3006.3	2981.8	2950.6
-27.5°	2978.7	2990.0	2998.6	3001.1	3000.7	2994.1	2983.4	2968.3	2944.9	2915.7	2878.5
-30°	2904.2	2918.8	2928.3	2931.8	2931.2	2924.4	2912.1	2892.4	2867.4	2838.0	2801.4
-32.5°	2816.5	2831.1	2838.0	2839.4	2840.3	2835.2	2823.5	2804.8	2782.4	2752.5	2716.1
-35°	2720.3	2734.8	2744.4	2747.9	2748.2	2741.7	2728.9	2711.2	2689.2	2662.7	2628.5
-37.5°	2620.9	2634.0	2641.1	2642.6	2644.1	2639.9	2629.4	2611.6	2589.2	2563.2	2521.1
-40°	2507.4	2517.1	2522.0	2521.5	2525.2	2522.5	2512.7	2495.5	2475.2	2448.7	2414.2
-42.5°	2388.6	2400.8	2406.9	2407.2	2409.2	2405.5	2395.9	2380.6	2360.3	2331.6	2297.5
-45°	2257.5	2271.2	2279.4	2281.1	2282.1	2276.3	2264.7	2248.2	2228.1	2204.1	2174.6
-47.5°	2108.6	2117.7	2121.3	2119.2	2124.9	2124.9	2119.3	2106.9	2088.9	2065.7	2035.8
-50°	1957.8	1969.0	1974.3	1973.6	1978.3	1977.0	1969.5	1955.8	1936.3	1912.0	1882.0
-52.5°	1789.8	1800.5	1805.5	1804.6	1809.5	1808.7	1802.1	1790.2	1773.5	1752.5	1724.0
-55°	1602.7	1610.3	1612.1	1607.6	1615.7	1617.6	1613.7	1604.6	1590.7	1571.3	1547.3
-57.5°	1392.3	1396.5	1394.7	1386.8	1398.6	1404.3	1404.1	1398.1	1385.4	1367.4	1344.1
-60°	1137.8	1141.8	1139.1	1128.8	1144.3	1152.2	1153.4	1149.0	1139.9	1127.1	1111.6
-62.5°	839.4	833.1	820.2	800.5	826.8	846.6	860.4	868.7	871.9	870.6	865.3
-65°	545.0	533.2	515.9	493.0	525.5	552.6	574.4	591.1	602.9	610.0	615.6
-67.5°	301.3	285.8	266.5	243.2	277.6	308.0	334.3	356.6	375.9	393.8	407.9
-70°	139.1	120.0	99.3	77.3	109.2	139.6	168.0	193.8	216.5	235.5	250.3
-72.5°	80.3	67.2	53.1	38.5	58.4	77.5	95.4	111.8	126.1	138.5	148.7
-75°	48.4	40.6	32.2	23.6	34.2	44.5	54.2	63.0	70.6	77.0	81.8
-77.5°	26.2	22.6	18.6	14.5	19.1	23.6	27.6	31.2	34.2	36.5	38.4
-80°	10.4	9.4	8.3	7.2	8.8	10.3	11.7	13.1	14.3	15.3	16.2
-82.5°	6.0	5.2	4.4	3.5	4.5	5.4	6.3	7.2	8.1	8.9	9.7
-85°	4.5	3.9	3.3	2.7	3.3	3.9	4.5	5.1	5.7	6.2	6.7
-87.5°	4.2	3.7	3.2	2.7	3.0	3.4	3.8	4.2	4.6	5.0	5.4
-90°	4.9	4.9	4.8	4.7	4.8	4.9	5.1	5.2	5.3	5.4	5.5



REPORT NUMBER: P670558 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL80DBZ-80W-4000K

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	5.6	5.9	6.2	6.5	6.8	6.4	6.1	5.7	5.3	5.0	4.6
87.5°	13.1	13.2	13.2	13.3	13.3	12.7	12.2	11.6	11.1	10.7	10.2
85°	36.3	36.2	35.9	35.4	34.6	32.5	30.2	27.9	26.2	24.4	22.4
82.5°	92.4	91.8	90.8	89.0	86.4	81.0	75.2	69.5	64.7	59.8	54.6
80°	182.7	181.4	179.1	175.4	169.5	158.9	147.7	136.8	127.1	116.7	105.6
77.5°	313.7	308.8	302.2	293.7	282.0	263.1	243.7	225.8	210.7	195.0	178.2
75°	464.6	456.2	447.1	436.5	420.2	395.0	368.9	341.8	314.2	286.6	260.1
72.5°	641.0	625.6	610.0	594.1	571.0	537.0	500.6	464.3	427.9	391.1	356.9
70°	833.1	811.8	787.9	762.7	730.4	691.4	648.0	604.4	562.0	515.7	467.5
67.5°	1028.4	1003.2	975.2	943.8	901.3	854.6	807.8	759.3	708.1	648.9	590.2
65°	1219.1	1188.4	1157.6	1125.0	1077.4	1025.1	969.8	910.7	849.9	792.5	730.9
62.5°	1413.7	1378.2	1338.6	1295.9	1244.7	1190.5	1136.8	1072.9	1002.5	929.5	856.0
60°	1603.6	1570.1	1531.5	1481.3	1419.9	1354.7	1292.4	1225.7	1157.3	1081.5	995.5
57.5°	1776.5	1744.0	1704.3	1652.3	1591.2	1524.9	1452.7	1375.2	1299.9	1221.5	1139.8
55°	1926.2	1889.7	1847.1	1797.8	1742.7	1675.2	1603.7	1525.4	1441.8	1353.2	1268.2
52.5°	2060.3	2022.5	1979.5	1927.7	1869.6	1804.9	1739.4	1658.9	1575.8	1485.1	1389.6
50°	2183.5	2145.4	2100.7	2046.7	1989.3	1926.2	1855.9	1779.6	1696.8	1605.5	1508.4
47.5°	2313.8	2269.1	2219.2	2159.2	2101.6	2035.8	1966.3	1890.0	1805.4	1717.0	1616.1
45°	2429.9	2390.4	2339.8	2274.9	2213.3	2140.1	2068.4	1991.4	1908.1	1816.0	1719.1
42.5°	2536.0	2494.3	2440.4	2384.5	2320.0	2247.9	2166.9	2086.2	2001.1	1910.3	1809.8
40°	2634.0	2583.3	2534.5	2481.2	2414.8	2346.2	2265.0	2181.0	2088.5	1995.6	1896.3
37.5°	2724.6	2675.0	2621.3	2563.1	2503.3	2431.7	2355.5	2267.8	2177.0	2075.3	1974.7
35°	2808.1	2759.8	2703.1	2644.1	2579.7	2510.1	2435.2	2350.3	2256.8	2154.2	2046.5
32.5°	2890.1	2836.1	2779.3	2717.1	2654.6	2581.7	2505.2	2422.7	2330.1	2232.9	2111.3
30°	2955.6	2903.6	2850.7	2786.3	2717.1	2650.4	2572.2	2490.2	2396.3	2290.8	2180.1
27.5°	3008.8	2965.6	2910.1	2848.1	2780.2	2704.1	2629.4	2547.7	2458.6	2346.8	2231.1
25°	3056.0	3014.9	2962.2	2903.2	2832.2	2760.4	2679.9	2589.1	2496.7	2394.7	2279.0
22.5°	3101.5	3053.9	3009.1	2949.6	2885.4	2807.4	2722.8	2642.7	2546.9	2443.1	2322.7
20°	3139.9	3093.3	3037.3	2987.3	2923.1	2846.2	2766.1	2674.7	2574.7	2474.1	2358.7
17.5°	3178.5	3124.5	3074.1	3012.4	2951.7	2882.7	2796.8	2707.0	2616.0	2509.2	2391.5
15°	3205.6	3153.3	3101.7	3043.1	2985.7	2908.4	2823.4	2737.2	2640.5	2533.8	2420.1
12.5°	3233.1	3183.5	3119.7	3065.7	2997.1	2928.5	2850.3	2759.2	2661.6	2551.1	2440.2
10°	3251.9	3197.6	3140.6	3079.5	3013.1	2944.6	2864.6	2774.1	2678.9	2571.6	2457.3
7.5°	3267.9	3211.2	3159.4	3090.2	3027.9	2960.6	2875.4	2783.7	2690.6	2585.9	2469.0
5°	3271.5	3216.6	3164.1	3098.4	3036.0	2966.4	2881.4	2790.3	2696.6	2591.8	2475.0
2.5°	3269.6	3216.3	3165.0	3101.4	3039.1	2964.5	2882.1	2791.7	2697.1	2592.7	2475.5
0°	3265.3	3210.6	3161.6	3099.0	3036.5	2959.7	2877.4	2787.2	2692.6	2588.6	2470.5
-2.5°	3254.5	3201.2	3151.5	3089.3	3026.4	2950.0	2867.2	2777.4	2683.3	2579.2	2461.5
-5°	3236.3	3186.5	3136.8	3074.3	3010.2	2937.1	2851.8	2762.3	2669.2	2564.4	2447.4
-7.5°	3212.1	3166.6	3118.4	3050.6	2988.3	2917.2	2831.4	2742.0	2650.2	2544.3	2428.3
-10°	3188.3	3139.8	3088.9	3021.6	2957.4	2889.5	2805.4	2716.2	2626.2	2518.0	2404.3
-12.5°	3155.2	3112.2	3056.7	3000.1	2923.2	2854.9	2773.0	2685.2	2594.3	2487.1	2371.8
-15°	3117.2	3072.1	3011.3	2959.3	2894.9	2816.1	2735.4	2650.5	2557.2	2450.5	2332.4
-17.5°	3076.4	3027.4	2978.3	2904.9	2848.1	2773.1	2691.2	2610.2	2515.0	2408.9	2290.1
-20°	3024.8	2980.6	2920.5	2867.8	2796.1	2722.7	2644.6	2561.7	2467.9	2362.6	2244.2



REPORT NUMBER: P670558 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL80DBZ-80W-4000K

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	2971.9	2922.4	2873.2	2807.7	2741.3	2665.7	2593.1	2507.8	2410.4	2304.8	2193.2
-25°	2906.7	2864.1	2807.0	2747.0	2680.5	2611.0	2532.7	2450.1	2353.4	2245.3	2133.4
-27.5°	2839.8	2791.5	2738.1	2680.1	2615.9	2543.7	2467.5	2378.2	2283.1	2181.8	2073.0
-30°	2761.4	2714.7	2664.3	2607.3	2539.9	2470.5	2390.4	2306.0	2211.4	2109.5	1995.5
-32.5°	2679.1	2633.4	2583.6	2521.6	2459.0	2387.7	2312.0	2225.1	2130.8	2031.5	1918.2
-35°	2590.3	2537.9	2489.2	2433.0	2367.7	2301.3	2223.0	2137.8	2048.0	1939.4	1836.0
-37.5°	2482.8	2439.0	2392.2	2333.2	2274.5	2204.8	2127.1	2044.7	1946.2	1853.3	1751.2
-40°	2376.7	2329.9	2286.3	2232.5	2170.1	2098.5	2022.5	1934.5	1851.0	1755.3	1657.2
-42.5°	2262.2	2222.7	2173.6	2118.0	2052.2	1982.1	1904.8	1829.7	1743.5	1653.7	1553.9
-45°	2139.0	2096.6	2044.2	1986.6	1924.8	1859.9	1790.0	1715.1	1631.3	1539.5	1438.7
-47.5°	1996.0	1951.1	1904.1	1852.4	1798.3	1734.0	1666.8	1589.4	1505.8	1413.3	1316.7
-50°	1846.6	1808.6	1765.9	1715.8	1661.4	1598.2	1527.2	1450.5	1367.3	1280.9	1192.2
-52.5°	1691.8	1656.3	1615.0	1564.3	1506.4	1442.7	1374.3	1301.1	1224.6	1143.0	1052.2
-55°	1517.2	1482.1	1439.8	1390.6	1336.6	1277.7	1215.0	1146.4	1071.8	987.7	895.3
-57.5°	1316.1	1284.7	1251.5	1210.7	1160.4	1104.3	1043.0	973.1	897.6	823.1	745.9
-60°	1093.9	1072.4	1048.5	1015.2	965.4	909.6	850.2	791.9	730.3	662.9	590.9
-62.5°	855.1	840.1	822.6	799.8	760.0	717.5	670.2	619.4	564.5	508.1	446.9
-65°	618.1	616.8	611.7	602.6	573.6	538.2	499.0	456.7	410.9	365.9	324.0
-67.5°	417.9	424.4	426.1	423.5	402.4	373.6	343.3	313.4	283.5	256.7	229.4
-70°	262.1	269.0	270.3	269.8	258.7	241.7	224.3	206.8	188.6	172.4	157.6
-72.5°	155.8	159.5	161.1	160.6	155.1	146.8	138.1	129.2	119.6	109.1	98.2
-75°	84.7	86.6	87.1	85.7	82.7	79.8	75.5	70.9	66.8	61.0	55.2
-77.5°	40.0	40.9	41.0	40.4	39.2	38.1	36.1	34.2	33.6	32.3	30.2
-80°	16.9	17.4	17.7	18.2	18.7	19.2	18.9	18.2	17.4	16.3	14.7
-82.5°	10.4	11.1	11.7	12.3	12.8	12.3	11.6	10.9	10.3	9.7	9.0
-85°	7.2	7.7	8.2	8.6	8.9	8.5	8.0	7.5	7.1	6.6	6.1
-87.5°	5.8	6.2	6.6	7.0	7.3	6.9	6.5	6.0	5.6	5.2	4.8
-90°	5.6	5.8	5.9	6.0	6.1	6.0	5.9	5.8	5.7	5.6	5.5



REPORT NUMBER: P670558 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL80DBZ-80W-4000K

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	4.2	3.9	3.5	3.1	2.8	2.4	2.4	2.5	2.5	2.6	2.6
87.5°	9.8	9.3	8.8	8.4	8.0	7.5	6.9	6.4	5.8	5.4	4.9
85°	20.4	18.2	15.9	14.4	13.2	12.0	10.4	8.9	7.8	6.9	6.1
82.5°	49.2	44.2	39.1	33.6	27.9	24.0	19.0	14.5	11.3	9.4	7.7
80°	95.1	84.6	73.6	64.8	56.6	47.6	36.7	27.0	19.6	14.4	10.0
77.5°	160.4	142.2	126.2	109.2	93.7	77.3	59.9	45.6	33.2	22.9	15.5
75°	233.8	211.9	190.3	167.2	143.6	119.0	90.8	67.9	49.5	34.7	23.2
72.5°	322.8	289.5	257.4	226.8	200.2	167.5	130.4	97.7	70.3	48.4	32.6
70°	419.0	372.8	332.2	294.1	257.5	215.3	173.2	132.8	96.6	66.1	43.3
67.5°	535.5	478.4	419.3	363.6	318.1	266.9	215.1	168.7	126.0	87.8	56.9
65°	661.1	587.2	522.1	456.6	385.3	319.5	260.8	205.2	155.7	111.5	72.9
62.5°	789.6	717.1	630.9	550.3	472.7	381.9	307.3	244.5	186.1	135.2	91.3
60°	908.8	826.9	750.9	660.0	554.5	456.5	361.7	284.4	218.8	159.6	109.7
57.5°	1045.1	944.4	848.3	766.9	652.6	529.0	425.5	327.3	252.3	185.9	128.3
55°	1176.6	1075.6	961.7	852.7	743.4	613.5	487.5	381.5	286.3	212.7	147.1
52.5°	1294.3	1195.2	1084.7	950.7	816.6	696.4	556.6	431.3	326.1	239.7	167.7
50°	1405.6	1301.8	1194.5	1057.4	901.3	765.4	630.0	487.1	368.0	266.7	188.0
47.5°	1512.3	1402.2	1287.6	1151.8	997.2	834.5	698.5	546.1	407.1	296.8	208.9
45°	1609.5	1498.0	1372.2	1234.0	1087.2	914.9	755.7	605.9	453.5	328.3	229.1
42.5°	1702.8	1585.2	1455.4	1312.7	1160.9	999.0	813.1	664.1	498.9	358.1	248.3
40°	1787.0	1663.9	1533.8	1391.0	1231.2	1070.1	883.1	712.1	542.2	388.7	269.3
37.5°	1863.7	1740.1	1603.1	1462.2	1302.1	1130.1	953.1	757.1	591.5	423.3	290.1
35°	1931.7	1808.2	1673.7	1528.3	1370.1	1188.1	1015.0	805.3	634.5	454.9	309.5
32.5°	1993.0	1869.8	1736.5	1585.6	1430.0	1249.1	1061.6	860.7	670.7	482.7	327.5
30°	2049.0	1924.4	1791.6	1643.8	1484.2	1306.5	1105.6	913.1	702.4	512.9	345.2
27.5°	2102.8	1973.6	1840.6	1695.7	1531.8	1357.5	1148.7	961.3	729.9	545.6	366.6
25°	2157.3	2017.8	1883.6	1740.7	1575.1	1401.8	1194.8	992.3	763.4	574.7	385.7
22.5°	2198.1	2058.9	1921.3	1778.6	1616.6	1439.9	1236.7	1019.3	797.9	596.5	401.3
20°	2233.4	2097.2	1954.6	1811.0	1652.6	1473.5	1273.9	1044.4	828.6	615.6	412.6
17.5°	2265.2	2131.5	1982.8	1838.6	1683.7	1500.8	1305.5	1065.7	855.2	631.4	421.2
15°	2291.8	2156.7	2006.6	1860.8	1707.7	1524.1	1329.4	1085.3	877.5	641.4	427.2
12.5°	2312.0	2176.1	2027.6	1878.6	1725.6	1543.9	1348.9	1105.6	895.3	648.5	433.5
10°	2326.0	2191.2	2043.7	1892.0	1739.1	1559.4	1363.8	1121.4	904.1	652.6	440.8
7.5°	2335.3	2201.4	2054.5	1900.9	1747.8	1570.2	1372.9	1132.3	907.5	653.9	445.0
5°	2340.7	2206.5	2059.6	1905.3	1752.1	1576.1	1377.6	1138.0	907.3	652.3	445.8
2.5°	2340.5	2206.4	2059.4	1905.0	1751.9	1577.1	1377.7	1138.4	903.6	647.9	443.2
0°	2334.8	2201.2	2054.1	1900.1	1747.5	1573.1	1373.2	1133.1	896.6	640.8	437.2
-2.5°	2326.6	2193.1	2046.1	1892.4	1739.9	1565.2	1366.2	1127.2	892.3	637.7	433.8
-5°	2313.1	2179.9	2033.2	1880.0	1727.9	1552.3	1354.6	1115.5	884.5	631.8	427.1
-7.5°	2294.1	2161.8	2015.2	1863.1	1711.4	1534.4	1338.5	1098.2	873.2	623.1	417.0
-10°	2271.2	2139.0	1991.7	1841.8	1690.5	1511.7	1317.9	1075.4	858.4	611.5	403.8
-12.5°	2243.5	2110.6	1963.3	1816.1	1664.9	1484.1	1291.5	1047.2	838.2	597.0	387.6
-15°	2209.2	2074.5	1930.5	1785.5	1634.9	1452.1	1260.1	1013.8	808.8	579.5	373.2
-17.5°	2167.5	2033.0	1891.7	1750.3	1598.2	1415.9	1224.3	981.5	775.0	559.0	360.2
-20°	2123.6	1986.9	1848.1	1709.3	1553.0	1375.3	1180.2	947.6	736.8	532.4	345.5

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Scaled Data Report



REPORT NUMBER: P670558 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: ARFL80DBZ-80W-4000K

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	2071.8	1937.5	1802.8	1663.2	1503.1	1329.7	1129.8	909.7	695.6	502.4	329.1
-25°	2010.1	1882.2	1751.4	1612.5	1448.4	1279.8	1073.0	869.9	651.2	469.5	308.3
-27.5°	1945.6	1820.3	1693.6	1552.5	1390.3	1222.1	1009.4	825.9	607.4	431.7	283.7
-30°	1880.0	1758.6	1629.7	1484.0	1328.3	1156.6	950.6	765.0	568.1	391.1	257.3
-32.5°	1803.2	1687.8	1560.4	1411.2	1261.9	1082.9	892.0	700.5	524.2	356.6	237.2
-35°	1728.4	1609.8	1477.6	1335.9	1186.9	999.2	830.9	636.3	475.0	328.9	218.5
-37.5°	1642.2	1524.8	1390.9	1257.3	1100.9	923.0	754.8	576.5	422.4	296.4	199.5
-40°	1550.3	1427.7	1302.3	1169.5	1004.0	846.5	672.9	517.6	367.0	258.9	180.1
-42.5°	1443.8	1328.2	1209.5	1070.1	911.5	759.4	594.4	454.5	329.1	229.8	160.3
-45°	1332.4	1227.2	1105.2	957.6	819.4	662.7	521.5	389.5	288.0	204.6	140.5
-47.5°	1219.4	1112.4	986.2	854.3	712.1	572.9	447.0	334.6	241.8	179.1	120.4
-50°	1093.6	980.9	867.3	740.3	607.8	485.8	373.0	287.2	212.1	153.5	100.2
-52.5°	949.6	848.6	740.2	621.9	506.3	402.0	315.0	235.5	181.3	128.2	82.5
-55°	807.9	711.1	609.5	508.6	411.7	328.6	257.7	201.6	150.3	103.9	65.9
-57.5°	659.5	574.6	485.5	403.3	330.0	267.5	212.1	165.0	120.6	81.9	53.0
-60°	519.8	444.9	376.4	317.1	263.5	213.8	171.9	130.2	92.4	62.8	40.9
-62.5°	388.6	334.9	289.2	243.8	207.4	169.8	132.1	98.0	69.1	48.1	29.5
-65°	285.4	249.6	212.6	188.8	158.5	125.7	96.1	70.6	51.5	34.3	20.6
-67.5°	200.6	181.3	159.1	135.0	111.3	87.1	66.2	50.7	35.5	22.8	14.1
-70°	141.1	123.7	105.7	89.4	73.2	57.7	46.3	32.8	22.2	14.5	9.9
-72.5°	87.3	76.2	65.3	54.2	47.5	37.6	26.0	19.0	13.5	9.6	7.2
-75°	48.1	44.0	39.6	32.9	24.5	19.4	14.4	11.1	8.7	6.8	5.6
-77.5°	26.8	22.2	19.4	15.8	12.9	10.1	8.5	7.4	6.2	5.3	4.5
-80°	13.2	11.7	9.9	8.7	7.8	6.9	6.1	5.4	4.7	4.1	3.5
-82.5°	8.3	7.6	6.9	6.2	5.4	4.6	4.1	3.7	3.3	3.1	3.0
-85°	5.6	5.0	4.4	3.9	3.3	2.8	2.7	2.6	2.6	2.6	2.7
-87.5°	4.4	3.9	3.5	3.1	2.7	2.3	2.4	2.4	2.5	2.5	2.6
-90°	5.3	5.2	5.1	5.0	4.9	4.8	4.6	4.5	4.3	4.2	4.0

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REPORT NUMBER: P670558 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	2.6	2.7	2.7	2.8	2.8	2.9	2.9
87.5°	4.5	4.2	3.8	3.5	3.3	3.1	2.9
85°	5.3	4.7	4.1	3.7	3.4	3.1	2.9
82.5°	6.3	5.4	4.6	3.9	3.4	3.1	2.9
80°	8.0	6.3	5.1	4.2	3.5	3.1	2.9
77.5°	10.5	7.5	5.7	4.5	3.6	3.1	2.9
75°	14.5	9.4	6.5	4.8	3.8	3.2	2.9
72.5°	20.4	12.1	7.3	5.3	4.0	3.2	2.9
70°	27.0	15.7	9.0	5.7	4.1	3.2	2.9
67.5°	35.2	20.1	10.7	6.2	4.3	3.2	2.9
65°	44.3	25.1	13.0	6.9	4.5	3.2	2.9
62.5°	54.4	30.8	15.6	7.8	4.7	3.3	2.9
60°	67.6	37.0	18.0	8.6	4.9	3.4	2.9
57.5°	81.2	43.8	21.7	9.5	5.0	3.4	2.9
55°	94.5	51.3	25.3	10.8	5.2	3.5	2.9
52.5°	107.2	61.0	28.7	12.0	5.4	3.5	2.9
50°	121.3	70.0	32.7	13.0	5.7	3.5	2.9
47.5°	134.8	78.5	36.4	14.2	6.0	3.6	2.9
45°	149.4	86.3	40.1	16.1	6.3	3.6	2.9
42.5°	162.9	94.5	45.8	17.8	6.5	3.6	2.9
40°	177.5	103.1	50.9	19.3	6.6	3.7	2.9
37.5°	191.0	111.1	55.6	20.6	6.8	3.7	2.9
35°	203.6	119.2	59.7	22.0	7.0	3.7	2.9
32.5°	215.1	126.9	63.2	23.3	7.2	3.7	2.9
30°	225.3	133.8	66.2	24.4	7.4	3.8	2.9
27.5°	236.1	140.1	68.6	25.2	7.5	3.8	2.9
25°	245.5	146.7	71.0	25.8	7.5	3.8	2.9
22.5°	253.2	152.2	73.9	26.3	7.6	3.8	2.9
20°	259.6	156.8	76.2	26.9	7.5	3.8	2.9
17.5°	265.2	160.4	78.0	27.9	7.4	3.8	2.9
15°	269.2	163.0	79.1	28.6	7.3	3.8	2.9
12.5°	271.5	164.7	79.7	29.0	7.1	3.8	2.9
10°	272.3	165.3	79.8	29.1	6.9	3.8	2.9
7.5°	271.5	165.0	79.3	28.9	6.7	3.7	2.9
5°	269.2	163.7	78.3	28.5	6.4	3.7	2.9
2.5°	265.4	161.5	76.7	27.8	6.1	3.7	2.9
0°	260.3	158.5	74.7	26.9	5.8	3.7	2.9
-2.5°	258.9	157.6	74.2	26.7	5.8	3.6	2.9
-5°	256.2	155.8	73.3	26.2	5.8	3.6	2.9
-7.5°	252.3	153.2	71.9	25.6	5.8	3.6	2.9
-10°	247.0	149.7	70.1	24.7	5.7	3.6	2.9
-12.5°	240.6	145.4	67.8	23.6	5.7	3.6	2.9
-15°	233.0	140.2	65.1	22.3	5.6	3.6	2.9
-17.5°	224.2	134.2	62.0	20.8	5.6	3.6	2.9
-20°	214.3	127.4	58.5	19.1	5.5	3.5	2.9

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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	204.1	119.9	54.6	17.8	5.4	3.5	2.9
-25°	193.4	111.6	50.4	16.9	5.3	3.5	2.9
-27.5°	181.6	102.6	46.8	15.9	5.1	3.5	2.9
-30°	168.9	94.2	43.5	14.8	5.0	3.4	2.9
-32.5°	156.0	85.9	39.8	13.7	4.8	3.4	2.9
-35°	142.2	77.0	35.9	12.4	4.7	3.4	2.9
-37.5°	127.7	68.2	31.7	11.2	4.5	3.3	2.9
-40°	112.9	60.4	27.5	10.0	4.4	3.3	2.9
-42.5°	97.4	52.3	23.1	8.9	4.3	3.3	2.9
-45°	84.4	45.0	18.6	7.6	4.2	3.2	2.9
-47.5°	70.9	38.5	16.0	6.3	4.1	3.2	2.9
-50°	59.8	31.7	13.8	5.8	4.0	3.1	2.9
-52.5°	48.9	25.6	11.6	5.4	3.9	3.1	2.9
-55°	39.8	19.2	9.7	5.0	3.7	3.1	2.9
-57.5°	30.7	15.2	7.9	4.7	3.6	3.0	2.9
-60°	22.9	12.2	6.1	4.4	3.5	3.0	2.9
-62.5°	16.1	9.6	5.6	4.2	3.4	2.9	2.9
-65°	12.3	7.4	5.0	3.9	3.3	2.9	2.9
-67.5°	9.2	5.9	4.5	3.7	3.2	2.9	2.9
-70°	6.7	5.1	4.1	3.5	3.1	2.9	2.9
-72.5°	5.5	4.4	3.7	3.3	3.0	2.9	2.9
-75°	4.6	3.9	3.4	3.1	2.9	2.9	2.9
-77.5°	3.9	3.4	3.1	3.0	2.8	2.9	2.9
-80°	3.3	3.1	2.9	2.9	2.8	2.9	2.9
-82.5°	2.8	2.8	2.8	2.8	2.8	2.9	2.9
-85°	2.7	2.7	2.7	2.8	2.8	2.9	2.9
-87.5°	2.6	2.7	2.7	2.8	2.8	2.9	2.9
-90°	3.9	3.7	3.5	3.4	3.2	3.1	2.9

(END OF REPORT)