

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: P670559 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: ARFL80DBZ-80W-5000K

Issue Date: 3/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P670559 (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-5000K
Description: SLIM WALL OR FLOODLIGHT
Light Source:
Ballast/Driver: -

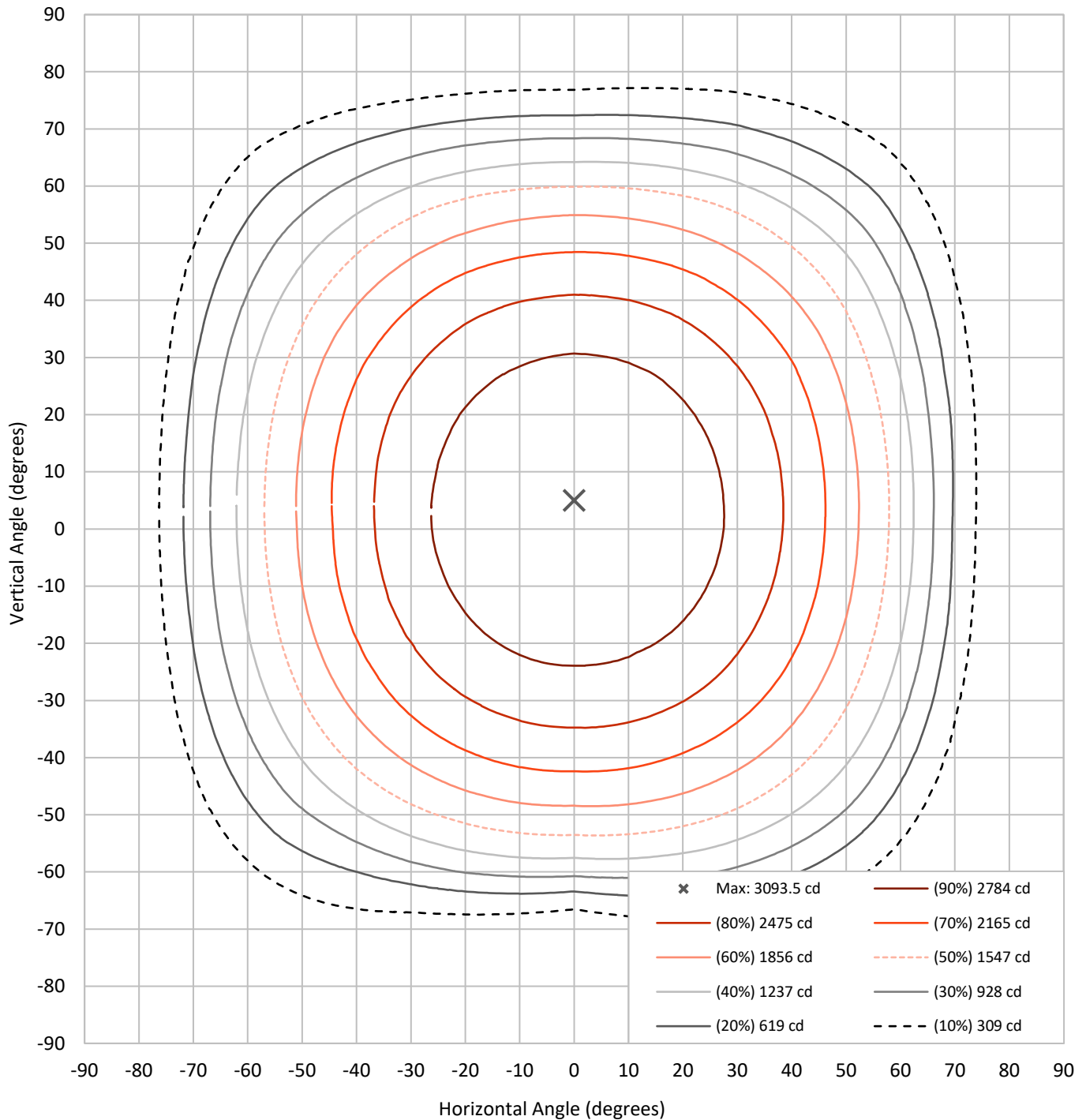
Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	8588.4 lumens	Max Intensity:	3093.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 5°V
Efficacy:	116.7 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:	6880.6 lumens	Field Lumens:	8459.9 lumens
Beam Efficiency:	80.1%	Field Efficiency:	98.5%
Input Watts (W):	73.6		
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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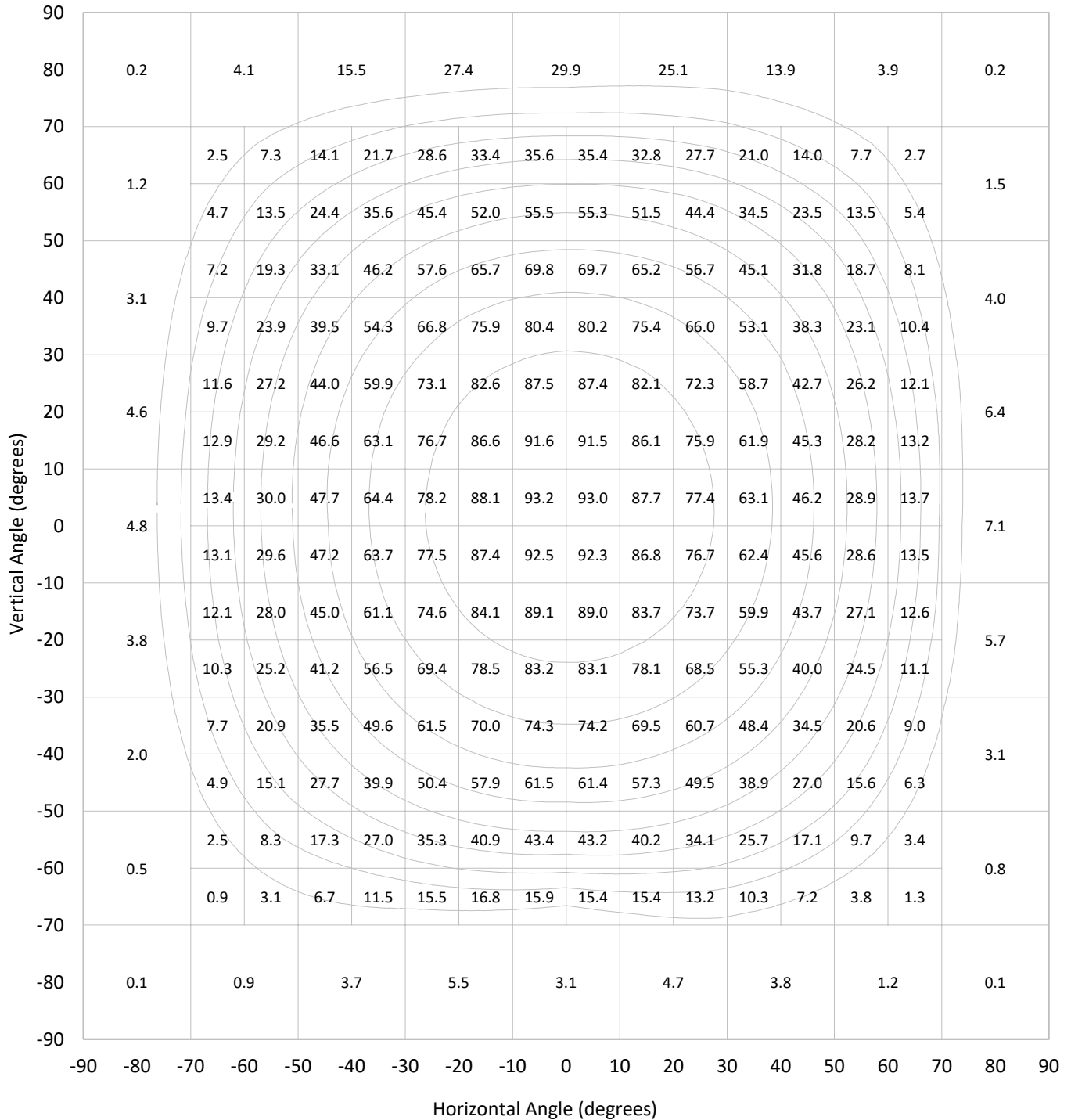
Iso-Candela Plot





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Lumen Table



Classified

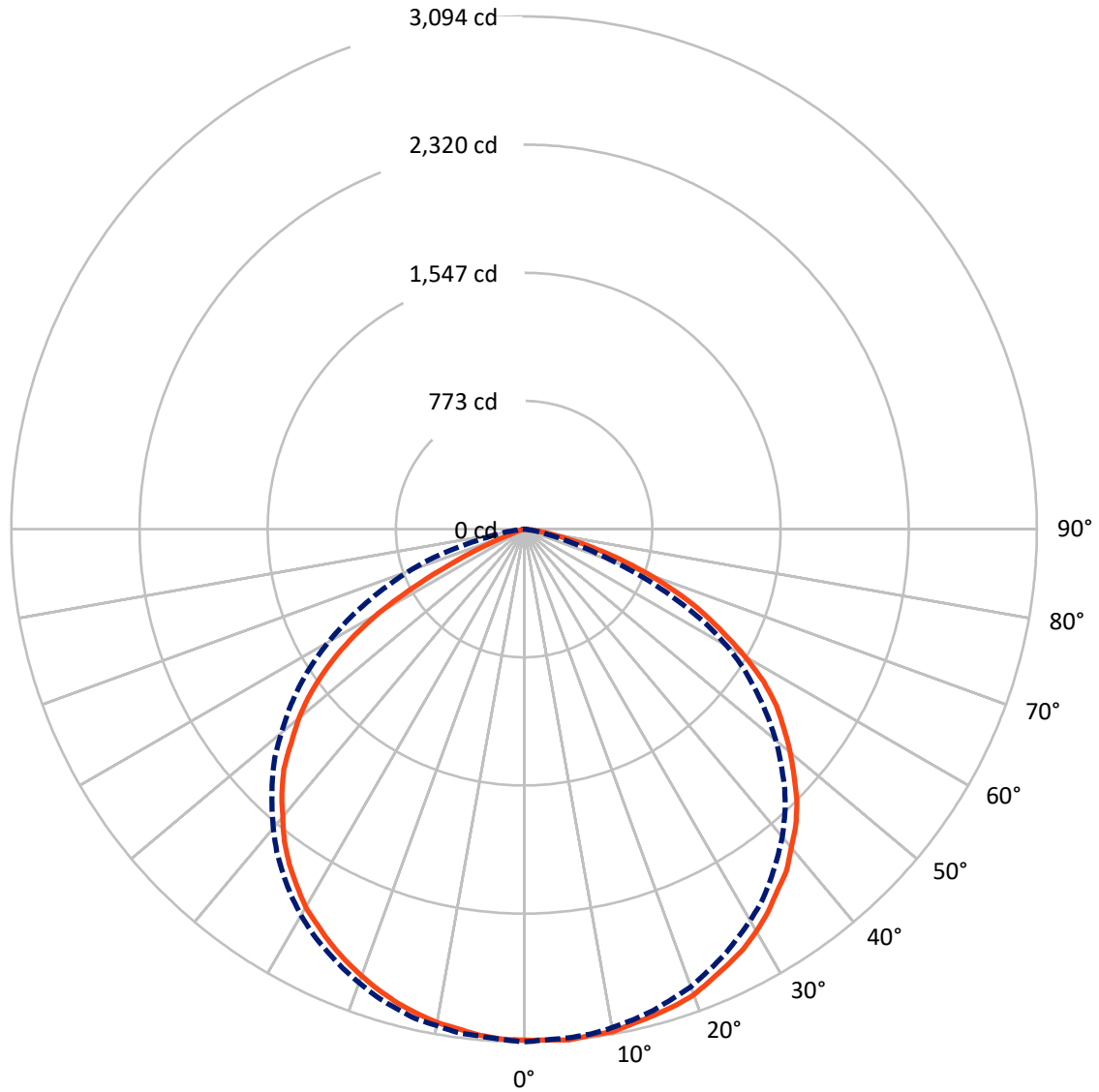
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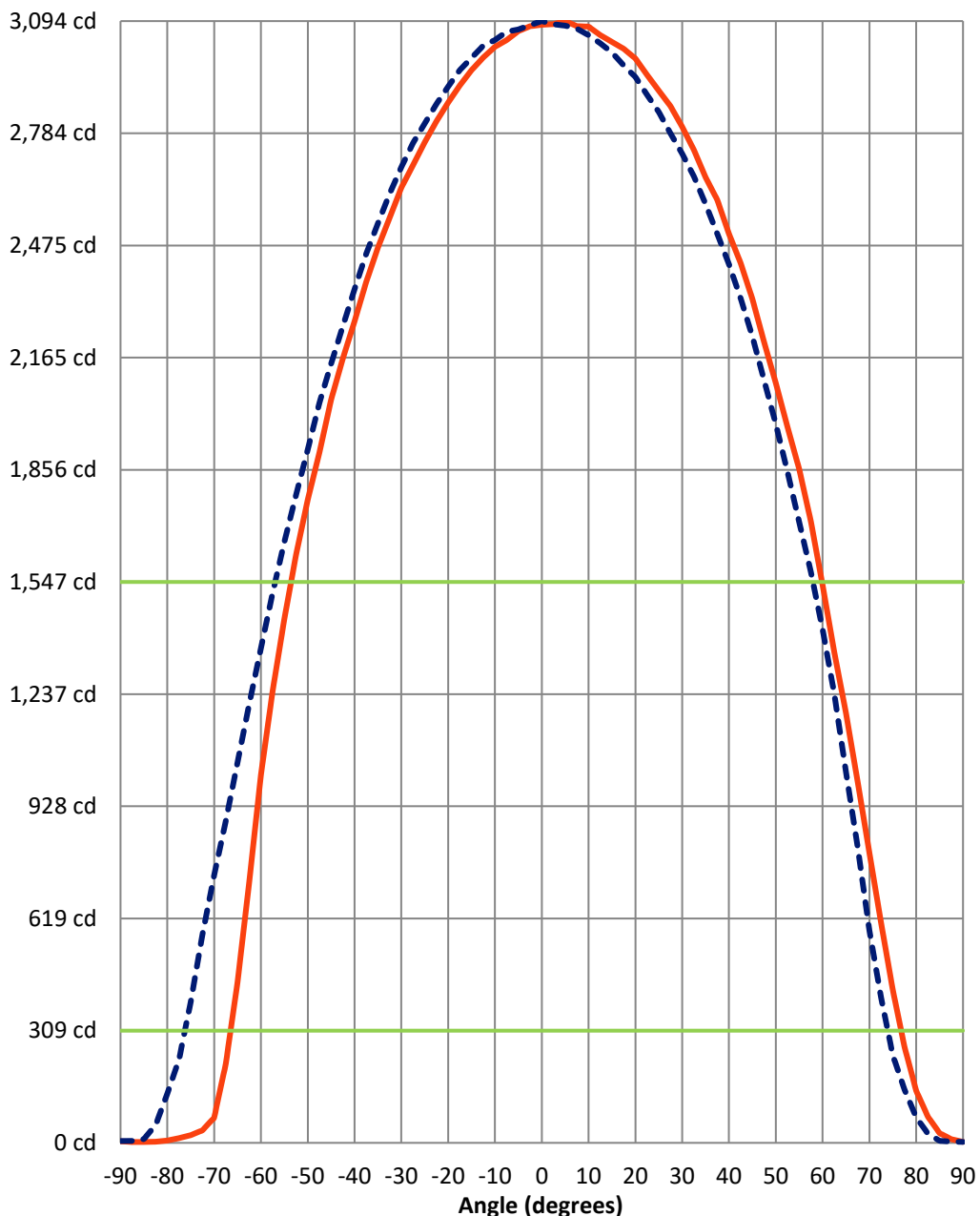
Luminous Intensity Polar Plot



— 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: 6880.6
 Efficiency: 80.1%

Field:
 H Angle: 150.2°
 V Angle: 143.3°
 Lumens: 8459.9
 Efficiency: 98.5%

Spill:
 Lumens: 128.5
 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°	5.1	5.0	5.0	4.9	4.8	4.7	4.7	4.6	4.5	4.4	4.4
87.5°	5.1	5.2	5.3	5.4	5.6	5.9	6.1	6.4	6.8	7.1	7.6
85°	5.1	5.2	5.4	5.6	5.9	6.4	6.9	7.5	8.2	9.0	10.0
82.5°	5.1	5.2	5.4	5.8	6.3	7.0	7.8	9.0	10.4	12.0	14.4
80°	5.1	5.2	5.5	6.0	6.7	7.7	9.1	10.8	14.1	17.7	23.6
77.5°	5.1	5.2	5.6	6.3	7.2	8.7	11.1	14.8	20.8	29.7	39.4
75°	5.1	5.3	5.7	6.5	7.9	10.1	14.0	21.6	31.5	42.4	57.5
72.5°	5.1	5.3	5.8	6.8	8.4	12.2	19.6	30.0	41.8	61.8	86.4
70°	5.1	5.3	5.9	7.2	9.9	15.6	25.9	38.3	60.1	88.8	118.8
67.5°	5.1	5.3	6.1	7.5	11.2	20.1	32.4	53.1	83.8	116.7	150.8
65°	5.1	5.3	6.2	8.1	13.5	24.7	41.7	71.6	108.1	145.1	190.5
62.5°	5.1	5.4	6.3	8.9	16.4	29.4	54.0	93.6	130.7	180.1	237.8
60°	5.1	5.4	6.4	9.6	19.3	36.1	70.8	111.6	160.8	219.2	289.6
57.5°	5.1	5.4	6.6	10.4	22.4	45.3	88.5	133.0	192.8	261.5	346.1
55°	5.1	5.4	6.7	12.1	25.5	55.7	102.6	158.8	225.9	307.1	407.3
52.5°	5.1	5.5	6.8	13.7	29.0	69.5	117.0	184.7	259.5	356.6	461.6
50°	5.1	5.5	7.2	15.2	35.3	82.8	138.3	210.1	296.1	406.7	516.7
47.5°	5.1	5.5	7.5	16.6	41.1	92.8	158.8	235.9	335.4	453.4	571.8
45°	5.1	5.5	7.7	18.3	47.4	102.3	177.8	262.0	376.5	498.8	624.6
42.5°	5.1	5.5	8.0	19.9	56.6	114.7	195.6	288.2	415.2	544.7	672.6
40°	5.1	5.6	8.2	21.3	65.4	130.0	213.6	317.5	452.0	590.6	714.1
37.5°	5.1	5.6	8.4	22.6	73.6	144.6	230.2	347.7	486.1	630.9	758.0
35°	5.1	5.6	8.9	25.2	80.0	157.3	247.0	376.4	520.8	666.8	798.7
32.5°	5.1	5.6	9.3	28.0	85.4	168.5	263.2	403.9	556.4	698.0	834.6
30°	5.1	5.6	9.8	30.6	90.3	178.8	277.8	429.2	587.9	729.5	866.0
27.5°	5.1	5.6	10.1	32.9	94.7	188.1	295.8	450.9	615.4	759.8	894.5
25°	5.1	5.6	10.4	35.0	99.8	196.8	312.8	470.6	640.1	785.7	925.3
22.5°	5.1	5.6	10.7	36.7	107.2	204.3	327.9	490.1	659.4	808.2	953.3
20°	5.1	5.6	10.8	38.9	113.8	210.7	341.6	510.3	676.5	827.7	977.0
17.5°	5.1	5.5	11.0	41.7	119.5	216.0	354.4	528.2	691.6	843.2	997.4
15°	5.1	5.5	11.0	44.1	124.5	220.7	365.3	543.6	706.1	856.2	1014.4
12.5°	5.1	5.5	11.0	46.0	128.6	224.8	374.2	555.7	717.9	866.5	1027.7
10°	5.1	5.5	11.0	47.5	131.9	227.6	381.1	564.1	727.2	876.2	1038.0
7.5°	5.1	5.5	10.9	48.5	134.3	229.4	386.0	570.2	733.7	883.7	1045.1
5°	5.1	5.5	10.8	49.0	135.8	229.9	388.7	573.8	737.7	888.1	1049.1
2.5°	5.1	5.4	10.6	49.1	136.4	229.5	389.3	575.0	738.9	889.4	1050.0
0°	5.1	5.4	10.4	48.8	136.1	228.0	387.8	573.8	737.5	887.6	1047.7
-2.5°	5.1	5.4	10.4	48.2	134.6	225.9	384.1	569.1	732.3	882.4	1042.3
-5°	5.1	5.4	10.3	47.3	132.2	222.8	378.2	562.0	724.4	874.0	1033.7
-7.5°	5.1	5.4	10.3	45.9	128.9	218.8	370.2	552.4	713.9	862.6	1022.0
-10°	5.1	5.4	10.1	44.0	124.8	213.8	360.1	540.3	700.7	848.1	1007.1
-12.5°	5.1	5.4	10.0	41.8	119.8	207.8	348.0	525.8	684.9	831.4	989.1
-15°	5.1	5.4	9.8	39.2	114.1	201.0	333.9	507.7	666.5	814.0	968.0
-17.5°	5.1	5.4	9.6	36.2	107.6	193.7	317.7	486.1	645.5	793.9	943.5
-20°	5.1	5.4	9.4	32.8	100.3	186.2	299.7	462.0	624.1	771.3	915.8

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CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	5.1	5.4	9.1	30.2	92.4	178.0	281.9	435.5	601.0	744.4	885.1
-25°	5.1	5.4	8.8	28.1	83.8	169.1	263.7	410.2	575.9	714.3	849.6
-27.5°	5.1	5.4	8.5	25.9	77.7	159.6	244.2	385.5	544.3	680.9	811.4
-30°	5.1	5.4	8.1	23.5	72.5	149.2	224.3	358.9	509.6	643.6	775.1
-32.5°	5.1	5.3	7.7	20.9	66.9	138.1	208.9	328.1	470.7	605.4	735.6
-35°	5.1	5.3	7.3	18.3	61.1	126.3	192.7	294.8	427.8	568.6	690.8
-37.5°	5.1	5.3	6.9	15.9	54.6	113.2	176.7	262.7	386.9	525.4	642.0
-40°	5.1	5.3	6.8	14.7	46.8	98.0	161.7	233.1	348.6	476.4	591.0
-42.5°	5.1	5.3	6.6	13.5	38.8	82.3	146.3	205.8	306.1	421.8	544.1
-45°	5.1	5.3	6.4	12.1	30.6	70.1	129.4	183.3	261.0	369.3	486.9
-47.5°	5.1	5.3	6.2	10.8	25.6	61.3	112.0	162.2	224.2	320.4	423.9
-50°	5.1	5.2	6.0	9.8	21.2	52.2	92.3	142.6	191.3	266.5	360.6
-52.5°	5.1	5.2	5.7	9.0	16.7	41.5	72.0	121.5	163.4	220.0	302.3
-55°	5.1	5.2	5.6	8.1	14.3	30.7	59.6	99.3	140.1	181.4	240.0
-57.5°	5.1	5.2	5.6	7.3	12.4	23.6	48.1	75.7	115.5	149.9	191.9
-60°	5.1	5.1	5.5	6.8	10.4	18.0	35.6	57.6	89.5	123.6	153.9
-62.5°	5.1	5.1	5.5	6.4	9.2	14.2	24.6	44.2	63.3	94.2	123.2
-65°	5.1	5.1	5.4	6.0	8.0	11.7	18.2	30.6	47.0	65.9	91.3
-67.5°	5.1	5.1	5.3	5.7	7.1	9.8	13.7	20.8	32.4	45.3	61.0
-70°	5.1	5.1	5.3	5.6	6.5	8.2	10.9	14.5	20.8	30.0	39.6
-72.5°	5.1	5.1	5.2	5.5	5.9	7.1	9.0	11.4	14.2	18.9	24.6
-75°	5.1	5.1	5.2	5.4	5.7	6.3	7.4	9.1	10.9	13.1	15.8
-77.5°	5.1	5.1	5.1	5.3	5.5	5.9	6.5	7.4	8.6	10.0	11.5
-80°	5.1	5.1	5.1	5.2	5.3	5.6	5.9	6.2	7.0	7.8	8.8
-82.5°	5.1	5.0	5.0	5.0	5.2	5.3	5.5	5.7	6.0	6.3	6.9
-85°	5.1	5.0	5.0	5.0	5.0	5.1	5.1	5.3	5.4	5.5	5.7
-87.5°	5.1	5.0	5.0	4.9	4.9	4.9	4.9	4.9	4.9	4.9	5.0
-90°	5.1	5.2	5.2	5.3	5.3	5.4	5.5	5.5	5.6	5.6	5.7



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 CATALOG NUMBER: ARFL80DBZ-80W-5000K

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
90°	4.3	4.2	4.5	4.7	5.0	5.2	5.5	5.7	6.0	6.2	6.5
87.5°	8.0	8.5	8.7	8.8	9.0	9.1	9.2	9.3	9.4	9.5	9.6
85°	11.3	12.6	13.3	13.9	14.6	15.8	16.9	17.9	18.9	19.7	20.4
82.5°	17.5	21.0	23.4	27.9	32.1	35.9	39.5	43.0	46.5	49.9	53.2
80°	31.8	40.8	46.8	52.4	58.7	67.8	76.4	84.7	93.6	101.9	109.6
77.5°	49.6	63.2	77.2	90.3	104.2	117.3	129.4	140.8	151.9	162.7	172.6
75°	77.3	100.4	120.4	136.9	152.9	169.3	185.7	206.6	225.6	245.1	262.2
72.5°	113.9	139.9	163.6	184.5	212.9	241.3	270.3	298.5	325.5	352.7	379.3
70°	148.3	180.9	219.2	256.8	294.9	334.9	373.9	412.3	448.3	484.4	519.3
67.5°	190.4	238.8	293.8	344.3	394.5	441.7	485.0	531.1	576.7	623.0	665.4
65°	244.9	308.6	381.6	441.5	490.7	545.7	599.2	651.9	702.7	751.8	802.4
62.5°	306.3	385.8	465.4	527.3	589.4	648.7	707.1	764.0	824.5	879.0	930.9
60°	373.8	460.0	542.1	615.5	681.0	744.7	812.3	876.3	937.2	998.2	1058.4
57.5°	440.9	530.2	618.0	697.8	767.2	842.7	912.2	981.2	1051.2	1119.1	1186.2
55°	503.0	600.2	690.7	774.7	856.5	932.7	1010.1	1088.6	1163.3	1241.2	1318.3
52.5°	566.6	666.8	757.7	853.0	938.4	1023.1	1109.0	1192.4	1277.5	1365.6	1444.3
50°	627.8	727.4	829.3	924.6	1020.3	1113.3	1204.2	1295.6	1390.6	1473.3	1549.7
47.5°	684.6	790.2	893.3	995.9	1101.5	1199.3	1297.2	1397.1	1487.5	1569.1	1645.3
45°	735.3	848.6	955.4	1068.6	1175.6	1281.2	1388.2	1486.4	1574.4	1657.3	1741.3
42.5°	789.9	902.0	1018.8	1132.8	1247.8	1364.1	1469.4	1565.0	1655.8	1746.5	1828.8
40°	837.9	955.3	1078.7	1199.8	1320.9	1434.5	1539.8	1640.5	1738.4	1828.6	1913.5
37.5°	881.5	1008.4	1133.7	1258.6	1383.5	1498.9	1610.3	1716.1	1813.4	1906.4	1989.1
35°	923.4	1057.8	1189.4	1321.1	1444.1	1561.4	1673.7	1783.0	1884.9	1974.7	2056.6
32.5°	966.5	1101.3	1236.3	1371.0	1495.6	1616.1	1732.9	1844.7	1947.8	2033.6	2119.1
30°	1006.2	1146.4	1286.1	1419.5	1547.6	1669.0	1787.0	1899.8	1996.7	2091.6	2178.7
27.5°	1041.8	1185.7	1328.0	1461.9	1591.5	1716.1	1835.2	1944.9	2047.5	2141.6	2233.3
25°	1072.7	1218.8	1364.3	1501.2	1631.7	1758.4	1877.9	1983.1	2087.9	2187.6	2275.6
22.5°	1102.5	1252.8	1397.5	1537.6	1668.0	1794.9	1912.8	2024.4	2128.6	2226.4	2316.2
20°	1130.8	1283.1	1426.3	1566.7	1700.1	1825.9	1942.1	2056.3	2162.5	2256.8	2348.3
17.5°	1154.3	1305.9	1451.5	1592.0	1726.8	1852.7	1968.2	2084.6	2189.4	2286.9	2381.1
15°	1171.5	1325.2	1473.0	1612.8	1748.7	1873.3	1994.8	2110.1	2210.7	2305.9	2404.6
12.5°	1185.3	1340.7	1490.4	1629.4	1764.5	1889.2	2014.0	2127.9	2228.0	2325.4	2423.0
10°	1196.2	1352.4	1503.6	1642.8	1775.9	1900.8	2026.7	2140.4	2242.1	2344.5	2437.4
7.5°	1205.1	1360.2	1512.0	1652.0	1783.2	1908.3	2035.4	2146.8	2251.4	2352.0	2447.0
5°	1210.1	1364.1	1516.3	1656.9	1786.5	1911.7	2040.7	2148.7	2252.0	2354.0	2451.9
2.5°	1211.3	1364.3	1516.7	1657.3	1785.4	1910.7	2041.0	2146.2	2248.1	2351.3	2451.8
0°	1208.7	1360.7	1513.1	1653.3	1779.9	1905.3	2036.3	2139.6	2240.6	2343.9	2446.2
-2.5°	1202.7	1355.2	1506.9	1647.4	1774.3	1899.6	2029.3	2134.1	2236.0	2338.2	2439.3
-5°	1192.9	1345.9	1496.6	1636.9	1764.3	1889.4	2017.2	2124.3	2227.8	2328.2	2426.9
-7.5°	1179.4	1332.9	1482.2	1621.9	1749.9	1874.6	2000.0	2109.9	2215.0	2313.8	2409.1
-10°	1162.1	1315.9	1463.7	1602.2	1731.5	1855.3	1979.0	2090.8	2192.3	2294.5	2385.1
-12.5°	1142.8	1295.1	1441.2	1578.0	1708.9	1831.6	1953.9	2066.3	2163.7	2262.6	2355.6
-15°	1120.5	1270.2	1414.9	1551.4	1681.8	1803.5	1923.0	2037.4	2134.0	2230.3	2322.9
-17.5°	1095.0	1241.4	1384.4	1520.8	1651.2	1770.6	1886.6	1998.9	2099.8	2198.2	2289.2
-20°	1063.7	1208.9	1349.5	1484.4	1616.2	1732.7	1847.3	1956.6	2059.1	2149.7	2243.5



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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°	1028.0	1170.3	1310.9	1442.8	1571.2	1689.9	1803.7	1911.6	2014.9	2106.9	2197.9
-25°	990.3	1128.2	1267.6	1398.7	1524.2	1644.1	1755.2	1861.1	1958.5	2052.4	2135.8
-27.5°	950.9	1086.5	1220.6	1350.5	1472.7	1594.3	1701.1	1806.2	1903.3	1996.2	2082.6
-30°	907.7	1039.3	1168.8	1297.6	1415.5	1532.8	1641.6	1745.8	1842.9	1930.0	2018.4
-32.5°	861.1	987.4	1111.5	1237.9	1357.2	1469.5	1582.0	1678.7	1775.6	1864.5	1946.0
-35°	810.0	934.5	1055.6	1175.7	1294.5	1399.9	1507.8	1610.3	1701.8	1789.8	1872.2
-37.5°	759.7	877.8	993.5	1106.1	1221.5	1331.0	1430.1	1531.4	1620.7	1707.5	1789.3
-40°	706.9	817.1	929.4	1038.2	1146.5	1254.2	1350.8	1445.1	1538.7	1618.3	1698.1
-42.5°	648.8	754.9	861.8	965.7	1066.2	1169.4	1267.8	1353.3	1443.4	1528.9	1602.4
-45°	586.2	691.3	790.3	890.7	986.6	1077.4	1169.6	1260.8	1340.6	1424.4	1502.3
-47.5°	530.3	621.8	718.2	811.3	903.6	983.7	1065.6	1152.3	1235.6	1310.3	1387.5
-50°	462.8	551.5	641.5	729.8	813.2	885.1	958.2	1035.5	1117.4	1191.9	1261.7
-52.5°	389.8	483.9	560.0	645.0	717.1	780.4	846.9	914.4	985.7	1062.0	1129.5
-55°	321.0	403.4	488.0	555.0	618.5	675.7	730.8	789.9	850.1	913.7	980.0
-57.5°	252.6	324.7	399.3	472.4	517.3	569.4	617.9	664.5	712.4	764.9	818.1
-60°	194.4	249.5	313.5	374.6	428.8	466.6	505.5	544.3	581.7	618.3	657.1
-62.5°	150.2	185.4	231.3	283.6	329.6	372.1	406.8	429.0	457.6	484.4	510.8
-65°	116.1	138.1	166.2	197.8	239.8	274.9	306.4	333.4	353.7	364.6	379.9
-67.5°	81.0	102.8	119.4	140.4	163.0	188.0	215.6	237.1	254.9	269.0	279.0
-70°	50.2	64.9	82.2	97.9	110.1	125.2	139.9	153.4	170.3	181.9	188.4
-72.5°	30.4	38.0	47.4	57.8	70.8	81.6	89.5	97.4	104.7	111.5	116.6
-75°	18.5	22.0	25.3	31.8	37.4	43.8	49.0	55.9	60.9	64.4	66.7
-77.5°	12.9	14.3	15.9	17.7	20.1	22.0	25.3	27.5	29.3	30.5	30.3
-80°	9.8	10.7	11.4	12.1	12.7	13.6	14.3	14.9	15.7	16.2	16.4
-82.5°	7.5	8.1	8.6	9.1	9.5	9.8	10.0	10.3	10.5	10.6	10.7
-85°	6.0	6.2	6.6	6.9	7.2	7.5	7.7	7.9	8.1	8.2	8.2
-87.5°	5.0	5.1	5.4	5.7	6.0	6.2	6.5	6.7	7.0	7.2	7.4
-90°	5.7	5.8	5.7	5.7	5.6	5.6	5.5	5.5	5.4	5.3	5.3



REPORT NUMBER: P670559 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL80DBZ-80W-5000K

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	6.7	7.0	7.2	6.8	6.5	6.1	5.7	5.3	5.0	4.6	4.2
87.5°	9.7	9.8	9.9	10.0	10.1	10.2	10.2	10.3	10.3	10.3	10.3
85°	21.8	23.2	24.5	25.5	26.4	27.1	27.6	28.0	28.3	28.3	28.3
82.5°	57.5	61.7	65.6	68.4	70.6	72.3	73.8	75.1	76.0	76.4	76.4
80°	116.6	123.1	129.0	133.4	137.1	140.4	143.1	145.3	146.9	147.9	148.3
77.5°	184.0	195.3	205.1	214.0	222.8	230.8	238.1	244.6	250.6	255.9	260.2
75°	278.6	293.3	305.6	322.7	340.3	356.0	370.7	385.1	397.2	406.9	414.3
72.5°	405.5	432.2	457.6	481.1	503.4	525.0	546.0	563.9	578.7	590.1	598.6
70°	554.9	591.9	626.0	655.8	682.6	707.1	729.1	748.5	764.7	778.0	788.4
67.5°	706.4	746.1	785.2	821.7	851.2	877.5	901.4	922.5	941.1	957.1	971.1
65°	850.0	893.2	933.7	971.8	1007.4	1040.7	1069.1	1094.5	1117.4	1137.9	1154.7
62.5°	981.6	1032.6	1079.2	1123.7	1165.6	1203.7	1237.4	1267.0	1293.0	1314.4	1331.1
60°	1115.9	1172.8	1229.8	1285.5	1335.5	1377.9	1414.5	1444.1	1470.0	1490.8	1507.8
57.5°	1254.3	1321.9	1389.2	1449.0	1498.2	1533.3	1567.6	1599.6	1626.4	1649.6	1670.2
55°	1397.2	1464.5	1523.1	1578.8	1627.6	1663.7	1698.7	1732.7	1765.3	1793.0	1812.8
52.5°	1514.7	1580.5	1637.7	1689.1	1741.6	1787.2	1821.7	1856.8	1887.2	1912.1	1932.8
50°	1619.7	1681.9	1747.7	1800.5	1853.5	1900.5	1939.3	1973.3	2004.6	2031.9	2053.4
47.5°	1719.2	1785.8	1850.3	1909.1	1961.3	2010.6	2051.8	2086.9	2117.9	2144.7	2167.3
45°	1813.7	1885.5	1949.6	2010.1	2063.6	2115.1	2159.0	2195.1	2225.2	2252.4	2275.8
42.5°	1906.6	1977.1	2041.1	2103.3	2161.9	2211.8	2254.6	2291.4	2325.0	2354.1	2378.3
40°	1990.2	2059.3	2128.5	2190.3	2246.4	2297.2	2344.4	2386.2	2418.8	2445.5	2466.2
37.5°	2065.1	2138.8	2206.5	2268.9	2325.7	2382.5	2429.1	2466.4	2495.5	2526.6	2551.1
35°	2135.5	2210.3	2278.9	2343.0	2402.2	2454.3	2499.5	2541.1	2573.7	2603.0	2625.9
32.5°	2201.2	2275.8	2346.5	2410.2	2467.5	2520.7	2566.8	2609.3	2642.7	2669.1	2691.9
30°	2261.0	2336.2	2406.3	2470.5	2528.1	2581.1	2627.8	2668.1	2701.7	2724.9	2749.7
27.5°	2312.7	2389.8	2461.5	2524.7	2582.9	2633.7	2677.6	2715.0	2754.7	2782.5	2804.6
25°	2360.8	2440.4	2509.6	2573.4	2627.4	2677.6	2723.0	2765.6	2798.8	2835.6	2857.7
22.5°	2403.6	2482.3	2552.1	2611.3	2666.7	2719.9	2765.6	2809.1	2843.6	2881.5	2899.9
20°	2438.9	2518.1	2586.8	2644.9	2705.7	2756.2	2804.3	2843.3	2880.9	2915.3	2934.4
17.5°	2467.5	2546.9	2611.5	2680.5	2737.3	2786.7	2829.8	2872.7	2914.4	2940.7	2970.5
15°	2492.6	2568.0	2636.3	2704.4	2758.4	2807.5	2855.1	2900.7	2936.1	2967.8	2993.4
12.5°	2512.8	2584.9	2660.9	2725.4	2780.3	2826.5	2876.4	2919.9	2959.2	2990.9	3016.4
10°	2522.9	2597.8	2676.2	2738.4	2790.1	2846.8	2894.3	2938.7	2975.1	3007.3	3032.4
7.5°	2530.4	2610.1	2685.4	2750.7	2801.0	2859.8	2905.5	2952.3	2991.3	3014.6	3041.7
5°	2535.8	2617.5	2690.8	2757.2	2811.2	2864.9	2912.8	2958.4	2992.3	3025.6	3041.3
2.5°	2536.5	2618.7	2691.1	2754.3	2816.3	2865.2	2914.1	2959.3	2993.0	3022.6	3047.8
0°	2531.7	2614.2	2686.2	2748.6	2815.0	2860.5	2909.6	2953.5	2991.0	3019.2	3048.7
-2.5°	2523.6	2605.3	2676.0	2742.0	2805.3	2852.9	2899.2	2942.9	2977.9	3006.2	3031.9
-5°	2509.3	2590.8	2662.1	2731.4	2788.7	2841.3	2885.7	2927.0	2957.7	2992.1	3011.6
-7.5°	2489.3	2571.6	2645.8	2712.1	2766.5	2822.4	2867.3	2908.2	2936.3	2967.5	2996.0
-10°	2467.3	2549.6	2621.7	2686.2	2743.9	2798.4	2840.7	2874.6	2910.0	2939.8	2971.4
-12.5°	2446.2	2521.4	2589.5	2645.5	2714.4	2767.4	2812.5	2854.7	2886.5	2913.3	2937.0
-15°	2414.3	2484.3	2555.8	2623.9	2679.2	2735.1	2781.1	2823.1	2857.6	2883.3	2901.5
-17.5°	2372.1	2447.1	2521.7	2576.1	2629.8	2692.4	2741.2	2781.6	2820.1	2848.8	2871.9
-20°	2326.0	2409.1	2470.6	2539.6	2595.5	2642.4	2694.2	2737.1	2771.3	2802.5	2831.0



REPORT NUMBER: P670559 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	2280.5	2354.6	2426.8	2487.4	2547.1	2600.5	2642.1	2686.1	2720.3	2749.0	2773.8
-25°	2225.8	2300.8	2375.1	2433.8	2490.4	2545.5	2590.6	2627.9	2672.1	2691.5	2716.7
-27.5°	2163.7	2243.5	2310.2	2378.8	2430.1	2478.5	2528.8	2569.0	2605.3	2632.4	2662.6
-30°	2098.5	2175.9	2247.5	2306.8	2367.2	2412.9	2457.0	2494.2	2537.3	2564.9	2589.2
-32.5°	2028.1	2099.8	2171.3	2236.7	2290.5	2342.4	2385.0	2422.0	2455.2	2483.0	2508.5
-35°	1948.9	2024.2	2088.7	2150.3	2210.3	2264.6	2303.9	2344.3	2376.0	2401.7	2426.4
-37.5°	1865.9	1936.4	2005.0	2064.3	2114.2	2169.2	2216.8	2258.2	2284.5	2313.7	2336.8
-40°	1773.2	1843.6	1909.8	1969.5	2028.4	2069.9	2110.8	2153.4	2188.2	2217.1	2239.8
-42.5°	1673.0	1740.9	1804.7	1867.1	1919.9	1967.4	2015.2	2048.4	2078.8	2105.5	2128.7
-45°	1572.0	1632.3	1692.1	1749.5	1801.6	1854.0	1896.1	1931.0	1961.4	1989.9	2012.0
-47.5°	1459.2	1524.3	1578.0	1627.7	1675.9	1722.3	1765.8	1803.7	1836.2	1861.0	1880.3
-50°	1331.4	1398.2	1456.7	1508.7	1552.0	1591.4	1629.3	1665.6	1697.1	1723.4	1743.8
-52.5°	1194.0	1252.5	1314.4	1369.6	1417.1	1457.6	1493.5	1524.6	1552.5	1575.0	1593.7
-55°	1048.8	1103.4	1155.7	1203.9	1252.0	1299.4	1335.3	1366.3	1391.4	1412.3	1428.3
-57.5°	874.1	931.4	989.3	1037.0	1075.8	1111.7	1145.8	1176.5	1203.6	1225.4	1241.7
-60°	700.3	742.8	787.5	832.3	873.9	910.4	942.1	963.9	983.4	1000.1	1013.4
-62.5°	536.6	560.4	591.0	621.2	650.5	677.6	701.9	721.9	737.7	748.5	754.0
-65°	394.1	406.8	420.7	433.5	449.0	461.5	476.7	487.2	493.5	496.8	495.6
-67.5°	282.8	281.7	282.7	284.6	290.9	295.0	296.5	297.7	295.2	289.0	281.2
-70°	192.1	193.2	190.5	187.9	187.5	184.6	178.9	171.1	163.6	153.2	140.2
-72.5°	120.9	122.7	120.7	118.8	117.8	115.9	113.0	107.9	100.9	92.5	83.0
-75°	68.5	69.0	68.0	68.8	69.6	68.9	67.2	64.5	60.7	55.8	50.0
-77.5°	30.9	31.1	30.0	30.9	32.5	33.3	33.2	32.4	31.0	29.0	26.5
-80°	16.4	16.0	15.0	14.4	13.9	13.5	13.0	12.4	11.7	11.0	10.2
-82.5°	10.8	10.8	10.7	10.3	9.8	9.2	8.7	8.1	7.5	6.8	6.1
-85°	8.3	8.3	8.3	7.9	7.5	7.0	6.5	6.0	5.5	5.0	4.5
-87.5°	7.6	7.8	8.0	7.5	7.1	6.6	6.1	5.7	5.2	4.7	4.2
-90°	5.2	5.2	5.1	5.0	5.0	4.9	4.8	4.8	4.7	4.6	4.6



REPORT NUMBER: P670559 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL80DBZ-80W-5000K

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	3.8	3.5	3.1	2.7	3.0	3.3	3.6	3.8	4.1	4.4	4.7
87.5°	10.3	10.3	10.2	10.2	10.4	10.7	10.9	11.1	11.3	11.5	11.6
85°	28.1	27.8	27.3	26.8	28.0	29.1	30.1	30.9	31.6	32.1	32.5
82.5°	76.0	75.1	73.9	72.3	75.1	77.6	79.6	81.3	82.4	83.2	83.4
80°	148.1	147.3	145.9	143.9	149.0	153.4	157.1	160.1	162.4	163.8	164.4
77.5°	263.2	265.1	265.6	264.9	271.8	277.3	281.5	284.3	285.7	285.9	284.6
75°	419.5	422.4	423.3	422.0	428.5	432.9	435.4	435.8	434.2	430.6	425.0
72.5°	604.5	607.8	608.4	606.4	611.2	613.3	612.9	610.0	604.8	597.3	587.7
70°	795.7	800.1	801.5	799.9	803.8	804.8	802.8	797.9	789.9	779.0	765.2
67.5°	982.3	990.2	994.6	995.5	997.9	996.8	992.4	984.9	974.5	960.9	944.0
65°	1167.9	1177.3	1183.0	1184.9	1186.7	1184.7	1178.9	1169.5	1156.4	1139.7	1119.3
62.5°	1343.0	1350.6	1353.9	1353.3	1357.6	1358.0	1354.5	1347.0	1334.7	1317.9	1296.6
60°	1521.4	1531.2	1537.0	1538.3	1540.8	1538.8	1532.4	1521.9	1507.5	1489.2	1466.8
57.5°	1686.9	1699.8	1708.8	1713.6	1712.7	1707.5	1698.3	1685.1	1666.9	1645.2	1621.1
55°	1829.4	1842.6	1852.2	1858.0	1855.9	1849.8	1840.0	1826.4	1809.1	1786.5	1760.4
52.5°	1949.4	1961.7	1970.1	1974.4	1973.1	1967.6	1957.7	1943.9	1926.9	1906.5	1881.1
50°	2070.3	2082.9	2091.4	2095.5	2095.4	2090.6	2080.9	2066.2	2046.6	2023.9	1996.4
47.5°	2184.9	2197.0	2204.8	2208.4	2207.7	2202.7	2193.1	2179.0	2160.9	2139.6	2115.1
45°	2295.4	2310.7	2321.4	2327.2	2323.9	2315.7	2303.3	2287.2	2267.4	2244.0	2215.5
42.5°	2397.2	2411.3	2420.9	2425.9	2422.9	2415.2	2402.9	2387.4	2367.8	2340.3	2309.6
40°	2482.3	2494.5	2502.7	2506.8	2505.6	2500.3	2490.7	2477.0	2457.4	2431.3	2399.8
37.5°	2570.4	2585.1	2594.9	2600.3	2598.8	2593.8	2584.0	2565.1	2540.4	2513.4	2486.0
35°	2643.0	2653.9	2660.2	2662.8	2663.5	2660.8	2653.9	2640.0	2617.2	2599.2	2565.8
32.5°	2709.6	2722.9	2732.5	2738.3	2735.6	2728.6	2718.2	2704.7	2685.8	2664.3	2632.7
30°	2770.5	2785.2	2795.8	2801.9	2798.5	2791.1	2780.8	2764.1	2741.9	2719.0	2691.4
27.5°	2826.6	2842.1	2852.7	2859.0	2855.2	2846.8	2835.3	2819.0	2795.8	2776.7	2737.2
25°	2879.8	2890.8	2898.0	2901.7	2900.3	2894.7	2884.1	2868.4	2848.2	2820.0	2784.4
22.5°	2919.1	2935.1	2940.9	2945.1	2943.7	2938.6	2927.7	2912.0	2891.0	2859.9	2826.1
20°	2954.5	2971.6	2983.3	2990.4	2986.4	2974.8	2959.6	2950.4	2928.8	2898.1	2863.2
17.5°	2983.5	3001.2	3011.8	3017.2	3013.1	3005.9	2997.4	2984.2	2954.7	2932.2	2893.9
15°	3015.2	3027.7	3033.4	3036.0	3036.1	3031.4	3016.8	3000.6	2981.9	2956.2	2924.9
12.5°	3036.5	3049.3	3055.1	3054.9	3054.6	3049.0	3043.3	3024.0	2998.0	2971.1	2948.5
10°	3052.3	3067.9	3076.5	3078.2	3079.4	3071.4	3053.5	3037.9	3018.1	2986.2	2957.8
7.5°	3059.3	3075.9	3077.9	3079.7	3080.4	3080.1	3069.8	3042.9	3023.2	3001.1	2962.3
5°	3064.1	3070.6	3082.4	3093.5	3084.8	3080.9	3072.7	3054.6	3032.3	3006.9	2971.3
2.5°	3064.6	3076.0	3084.5	3085.2	3081.5	3079.6	3070.6	3057.2	3034.4	3008.4	2973.8
0°	3062.7	3067.9	3073.1	3083.4	3082.2	3077.8	3068.3	3048.8	3034.2	3007.9	2971.0
-2.5°	3054.3	3067.1	3074.8	3079.3	3078.5	3079.6	3067.6	3045.8	3026.7	2995.8	2961.1
-5°	3040.1	3051.0	3058.0	3065.8	3066.9	3067.1	3050.2	3035.4	3012.0	2976.6	2947.0
-7.5°	3018.5	3034.4	3039.9	3041.2	3047.2	3043.6	3033.7	3019.1	2987.9	2956.3	2925.3
-10°	2996.1	3016.3	3021.9	3022.5	3024.6	3020.6	3009.4	2986.4	2958.4	2934.3	2902.2
-12.5°	2962.2	2979.6	2990.8	2993.1	2994.7	2986.8	2970.8	2954.2	2929.3	2902.3	2868.3
-15°	2926.0	2940.3	2953.4	2958.2	2956.5	2949.6	2935.6	2911.0	2893.5	2865.1	2839.3
-17.5°	2885.2	2899.1	2910.9	2916.1	2912.9	2902.8	2891.4	2872.9	2852.5	2830.0	2799.3
-20°	2845.9	2858.5	2866.8	2868.8	2867.0	2859.4	2846.6	2829.1	2812.5	2784.9	2753.7



REPORT NUMBER: P670559 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL80DBZ-80W-5000K

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	2795.4	2809.8	2816.5	2817.2	2816.5	2810.9	2802.7	2784.3	2755.2	2733.2	2702.4
-25°	2737.1	2749.7	2757.2	2759.4	2758.9	2752.3	2739.4	2724.4	2701.1	2679.0	2651.1
-27.5°	2676.3	2686.5	2694.1	2696.4	2696.1	2690.1	2680.5	2666.9	2645.9	2619.6	2586.2
-30°	2609.3	2622.5	2630.9	2634.1	2633.5	2627.5	2616.4	2598.7	2576.2	2549.9	2516.9
-32.5°	2530.6	2543.7	2549.9	2551.1	2551.9	2547.4	2536.9	2520.1	2499.8	2473.0	2440.3
-35°	2444.1	2457.2	2465.8	2468.9	2469.2	2463.3	2451.8	2435.9	2416.2	2392.4	2361.6
-37.5°	2354.8	2366.6	2372.9	2374.3	2375.7	2371.9	2362.5	2346.5	2326.3	2303.0	2265.2
-40°	2252.8	2261.6	2265.9	2265.5	2268.8	2266.4	2257.6	2242.2	2223.9	2200.1	2169.1
-42.5°	2146.1	2157.1	2162.6	2162.8	2164.7	2161.3	2152.6	2139.0	2120.7	2094.9	2064.3
-45°	2028.3	2040.6	2048.0	2049.5	2050.4	2045.2	2034.8	2020.0	2001.9	1980.4	1953.8
-47.5°	1894.5	1902.7	1905.9	1904.0	1909.1	1909.1	1904.1	1893.0	1876.8	1855.9	1829.1
-50°	1759.0	1769.1	1773.8	1773.2	1777.5	1776.2	1769.5	1757.2	1739.7	1717.9	1691.0
-52.5°	1608.1	1617.7	1622.2	1621.4	1625.8	1625.1	1619.2	1608.5	1593.5	1574.5	1548.9
-55°	1440.0	1446.8	1448.4	1444.4	1451.7	1453.4	1449.9	1441.7	1429.2	1411.8	1390.2
-57.5°	1251.0	1254.7	1253.1	1246.0	1256.6	1261.7	1261.6	1256.2	1244.8	1228.7	1207.6
-60°	1022.2	1025.9	1023.5	1014.2	1028.1	1035.2	1036.3	1032.4	1024.1	1012.7	998.8
-62.5°	754.2	748.6	737.0	719.2	742.9	760.7	773.0	780.5	783.4	782.2	777.5
-65°	489.7	479.1	463.5	443.0	472.2	496.5	516.1	531.1	541.7	548.1	553.1
-67.5°	270.7	256.8	239.5	218.5	249.4	276.7	300.4	320.4	337.8	353.9	366.5
-70°	125.0	107.9	89.3	69.5	98.1	125.4	150.9	174.1	194.5	211.6	224.9
-72.5°	72.2	60.4	47.8	34.6	52.5	69.7	85.8	100.4	113.3	124.5	133.6
-75°	43.5	36.5	29.0	21.2	30.7	40.0	48.6	56.5	63.5	69.2	73.4
-77.5°	23.6	20.3	16.7	13.0	17.2	21.1	24.8	28.0	30.7	32.8	34.5
-80°	9.3	8.4	7.4	6.4	7.8	9.2	10.5	11.7	12.8	13.8	14.6
-82.5°	5.4	4.7	3.9	3.2	4.0	4.9	5.7	6.5	7.3	8.0	8.7
-85°	4.0	3.5	2.9	2.4	3.0	3.5	4.0	4.6	5.1	5.6	6.1
-87.5°	3.8	3.3	2.8	2.4	2.7	3.1	3.4	3.8	4.1	4.5	4.9
-90°	4.5	4.4	4.4	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0



REPORT NUMBER: P670559 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL80DBZ-80W-5000K

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	5.0	5.3	5.5	5.8	6.1	5.8	5.5	5.1	4.8	4.5	4.1
87.5°	11.7	11.8	11.9	11.9	11.9	11.4	10.9	10.4	10.0	9.6	9.2
85°	32.6	32.6	32.3	31.8	31.1	29.2	27.1	25.1	23.5	21.9	20.1
82.5°	83.1	82.5	81.6	80.0	77.6	72.8	67.6	62.4	58.2	53.7	49.1
80°	164.1	163.0	161.0	157.6	152.3	142.8	132.7	122.9	114.3	104.9	94.9
77.5°	281.9	277.5	271.5	263.9	253.4	236.4	218.9	202.8	189.3	175.2	160.1
75°	417.4	409.9	401.7	392.2	377.6	354.9	331.4	307.1	282.3	257.5	233.7
72.5°	575.9	562.1	548.1	533.8	513.0	482.5	449.8	417.2	384.5	351.4	320.7
70°	748.5	729.4	707.9	685.3	656.2	621.2	582.2	543.0	504.9	463.4	420.1
67.5°	923.9	901.3	876.1	847.9	809.8	767.9	725.8	682.2	636.2	583.0	530.3
65°	1095.3	1067.8	1040.1	1010.8	968.0	921.0	871.3	818.2	763.6	712.0	656.6
62.5°	1270.2	1238.3	1202.7	1164.4	1118.3	1069.6	1021.4	964.0	900.7	835.1	769.1
60°	1440.8	1410.7	1376.0	1330.9	1275.8	1217.2	1161.2	1101.3	1039.8	971.7	894.5
57.5°	1596.2	1566.9	1531.3	1484.6	1429.6	1370.0	1305.2	1235.6	1167.9	1097.5	1024.0
55°	1730.6	1697.8	1659.6	1615.3	1565.8	1505.1	1440.8	1370.5	1295.5	1215.9	1139.5
52.5°	1851.1	1817.2	1778.5	1732.0	1679.8	1621.7	1562.8	1490.5	1415.8	1334.3	1248.5
50°	1961.8	1927.6	1887.4	1838.9	1787.4	1730.6	1667.5	1598.9	1524.5	1442.5	1355.2
47.5°	2078.9	2038.7	1993.9	1939.9	1888.2	1829.1	1766.7	1698.2	1622.1	1542.7	1452.0
45°	2183.2	2147.8	2102.3	2043.9	1988.6	1922.9	1858.4	1789.2	1714.4	1631.6	1544.5
42.5°	2278.5	2241.1	2192.6	2142.5	2084.5	2019.7	1946.9	1874.4	1797.9	1716.4	1626.1
40°	2366.6	2321.0	2277.1	2229.3	2169.7	2108.0	2035.0	1959.6	1876.4	1793.0	1703.8
37.5°	2448.0	2403.5	2355.2	2302.9	2249.1	2184.8	2116.4	2037.6	1956.0	1864.6	1774.2
35°	2523.0	2479.6	2428.7	2375.7	2317.8	2255.3	2187.9	2111.7	2027.7	1935.5	1838.7
32.5°	2596.7	2548.1	2497.1	2441.3	2385.1	2319.6	2250.9	2176.8	2093.5	2006.2	1897.0
30°	2655.5	2608.8	2561.3	2503.5	2441.2	2381.3	2311.0	2237.4	2153.1	2058.2	1958.8
27.5°	2703.3	2664.5	2614.7	2558.9	2497.9	2429.5	2362.4	2289.1	2209.0	2108.5	2004.6
25°	2745.7	2708.8	2661.5	2608.4	2544.6	2480.1	2407.8	2326.2	2243.3	2151.6	2047.6
22.5°	2786.6	2743.9	2703.6	2650.1	2592.4	2522.3	2446.3	2374.4	2288.3	2195.0	2086.9
20°	2821.2	2779.2	2728.9	2684.0	2626.3	2557.2	2485.3	2403.1	2313.2	2223.0	2119.3
17.5°	2855.8	2807.3	2762.0	2706.5	2652.0	2590.0	2512.9	2432.2	2350.4	2254.5	2148.7
15°	2880.1	2833.2	2786.8	2734.2	2682.5	2613.1	2536.8	2459.3	2372.4	2276.5	2174.4
12.5°	2904.8	2860.3	2803.0	2754.4	2692.8	2631.2	2561.0	2479.1	2391.3	2292.0	2192.5
10°	2921.7	2873.0	2821.8	2766.8	2707.2	2645.6	2573.8	2492.5	2406.9	2310.5	2207.8
7.5°	2936.1	2885.2	2838.7	2776.4	2720.5	2660.0	2583.5	2501.0	2417.4	2323.4	2218.4
5°	2939.4	2890.1	2842.9	2783.8	2727.7	2665.2	2588.9	2507.0	2422.8	2328.7	2223.8
2.5°	2937.6	2889.8	2843.7	2786.5	2730.5	2663.5	2589.5	2508.2	2423.3	2329.5	2224.2
0°	2933.8	2884.7	2840.6	2784.3	2728.2	2659.2	2585.2	2504.2	2419.2	2325.8	2219.7
-2.5°	2924.1	2876.3	2831.5	2775.6	2719.1	2650.5	2576.1	2495.4	2410.9	2317.3	2211.6
-5°	2907.8	2863.0	2818.4	2762.1	2704.6	2638.9	2562.3	2481.8	2398.2	2304.0	2198.9
-7.5°	2886.0	2845.1	2801.8	2740.8	2684.9	2621.0	2543.9	2463.6	2381.2	2286.0	2181.8
-10°	2864.6	2821.0	2775.3	2714.7	2657.2	2596.1	2520.6	2440.4	2359.6	2262.4	2160.3
-12.5°	2834.9	2796.2	2746.3	2695.5	2626.4	2565.0	2491.5	2412.6	2330.9	2234.6	2131.0
-15°	2800.7	2760.2	2705.5	2658.9	2601.0	2530.2	2457.6	2381.4	2297.5	2201.7	2095.6
-17.5°	2764.1	2720.0	2675.9	2610.0	2558.9	2491.6	2418.0	2345.2	2259.6	2164.3	2057.6
-20°	2717.7	2678.0	2624.0	2576.7	2512.2	2446.3	2376.0	2301.6	2217.4	2122.7	2016.4



REPORT NUMBER: P670559 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL80DBZ-80W-5000K

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	2670.1	2625.7	2581.5	2522.6	2463.0	2395.0	2329.9	2253.1	2165.6	2070.8	1970.5
-25°	2611.6	2573.3	2522.0	2468.1	2408.4	2345.9	2275.5	2201.4	2114.5	2017.4	1916.8
-27.5°	2551.5	2508.1	2460.1	2408.0	2350.3	2285.5	2217.0	2136.7	2051.3	1960.3	1862.5
-30°	2481.0	2439.1	2393.8	2342.6	2282.1	2219.6	2147.7	2071.8	1986.9	1895.3	1792.9
-32.5°	2407.1	2366.1	2321.3	2265.6	2209.3	2145.3	2077.3	1999.1	1914.4	1825.3	1723.5
-35°	2327.3	2280.3	2236.5	2186.0	2127.3	2067.6	1997.3	1920.7	1840.0	1742.5	1649.6
-37.5°	2230.8	2191.4	2149.3	2096.3	2043.6	1980.9	1911.1	1837.1	1748.6	1665.1	1573.4
-40°	2135.3	2093.4	2054.1	2005.8	1949.7	1885.4	1817.1	1738.2	1663.1	1577.1	1488.9
-42.5°	2032.6	1997.1	1952.9	1902.9	1843.8	1780.9	1711.4	1643.9	1566.5	1485.8	1396.2
-45°	1921.8	1883.7	1836.7	1784.9	1729.4	1671.1	1608.2	1540.9	1465.7	1383.2	1292.6
-47.5°	1793.3	1753.0	1710.8	1664.3	1615.7	1557.9	1497.6	1428.1	1352.9	1269.8	1183.0
-50°	1659.2	1625.0	1586.6	1541.5	1492.7	1436.0	1372.2	1303.2	1228.5	1150.9	1071.1
-52.5°	1520.0	1488.1	1451.1	1405.5	1353.6	1296.3	1234.7	1169.0	1100.3	1026.9	945.4
-55°	1363.2	1331.7	1293.7	1249.4	1200.9	1148.0	1091.6	1030.0	963.0	887.5	804.4
-57.5°	1182.5	1154.3	1124.4	1087.7	1042.5	992.2	937.1	874.4	806.5	739.5	670.2
-60°	982.8	963.5	942.1	912.2	867.4	817.2	763.9	711.5	656.2	595.7	531.0
-62.5°	768.3	754.8	739.1	718.6	682.8	644.7	602.2	556.5	507.2	456.5	401.5
-65°	555.4	554.2	549.6	541.4	515.4	483.6	448.4	410.3	369.2	328.8	291.1
-67.5°	375.5	381.3	382.8	380.5	361.5	335.7	308.5	281.7	254.7	230.7	206.1
-70°	235.5	241.7	242.9	242.5	232.4	217.2	201.5	185.8	169.3	154.9	141.6
-72.5°	140.0	143.2	144.7	144.3	139.3	131.9	124.1	116.1	107.5	98.0	88.2
-75°	76.1	77.8	78.3	77.0	74.3	71.7	67.8	63.7	60.0	54.8	49.6
-77.5°	35.9	36.7	36.9	36.3	35.3	34.2	32.5	30.8	30.2	29.0	27.1
-80°	15.2	15.7	15.9	16.3	16.8	17.2	17.0	16.4	15.7	14.6	13.2
-82.5°	9.4	10.0	10.6	11.1	11.5	11.0	10.5	9.8	9.3	8.7	8.1
-85°	6.5	6.9	7.3	7.7	8.0	7.6	7.2	6.7	6.3	5.9	5.5
-87.5°	5.2	5.6	5.9	6.3	6.6	6.2	5.9	5.5	5.1	4.7	4.3
-90°	5.1	5.2	5.3	5.4	5.5	5.4	5.3	5.2	5.1	5.0	4.9



REPORT NUMBER: P670559 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: ARFL80DBZ-80W-5000K

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	3.8	3.5	3.2	2.8	2.5	2.2	2.2	2.3	2.3	2.3	2.4
87.5°	8.8	8.4	8.0	7.6	7.2	6.8	6.2	5.7	5.2	4.8	4.4
85°	18.3	16.3	14.2	12.9	11.9	10.8	9.4	8.1	7.0	6.2	5.5
82.5°	44.2	39.7	35.1	30.2	25.1	21.5	17.0	13.0	10.2	8.5	6.9
80°	85.5	76.0	66.1	58.3	50.8	42.8	33.0	24.2	17.6	12.9	9.0
77.5°	144.1	127.8	113.4	98.1	84.2	69.4	53.8	41.0	29.8	20.6	13.9
75°	210.1	190.4	171.0	150.2	129.1	106.9	81.6	61.0	44.5	31.2	20.8
72.5°	290.0	260.1	231.3	203.7	179.9	150.5	117.2	87.8	63.1	43.5	29.3
70°	376.5	335.0	298.4	264.2	231.3	193.5	155.6	119.4	86.8	59.3	38.9
67.5°	481.2	429.9	376.7	326.7	285.8	239.8	193.2	151.6	113.2	78.9	51.1
65°	594.0	527.6	469.1	410.2	346.3	287.0	234.3	184.4	139.9	100.2	65.5
62.5°	709.5	644.3	566.8	494.4	424.8	343.1	276.1	219.6	167.2	121.5	82.1
60°	816.6	743.0	674.7	593.0	498.2	410.2	325.0	255.5	196.5	143.4	98.6
57.5°	939.0	848.5	762.2	689.1	586.3	475.3	382.3	294.1	226.7	167.0	115.2
55°	1057.2	966.4	864.1	766.2	667.9	551.2	438.0	342.8	257.3	191.1	132.2
52.5°	1162.9	1073.8	974.6	854.2	733.7	625.7	500.1	387.5	293.0	215.3	150.7
50°	1262.9	1169.6	1073.2	950.1	809.8	687.7	566.0	437.7	330.6	239.7	168.9
47.5°	1358.7	1259.9	1156.9	1034.8	895.9	749.7	627.6	490.7	365.8	266.7	187.7
45°	1446.1	1345.9	1233.0	1108.7	976.8	822.1	678.9	544.4	407.5	294.9	205.8
42.5°	1529.9	1424.2	1307.6	1179.5	1043.0	897.5	730.5	596.7	448.2	321.8	223.1
40°	1605.6	1494.9	1378.1	1249.8	1106.2	961.4	793.5	639.8	487.2	349.3	242.0
37.5°	1674.5	1563.4	1440.3	1313.7	1169.9	1015.3	856.3	680.2	531.4	380.3	260.6
35°	1735.6	1624.7	1503.8	1373.2	1231.0	1067.5	911.9	723.6	570.1	408.7	278.1
32.5°	1790.6	1680.0	1560.2	1424.6	1284.8	1122.3	953.8	773.3	602.6	433.7	294.2
30°	1840.9	1729.0	1609.7	1476.9	1333.5	1173.8	993.4	820.4	631.1	460.8	310.2
27.5°	1889.3	1773.2	1653.7	1523.5	1376.3	1219.7	1032.1	863.7	655.7	490.2	329.4
25°	1938.3	1812.9	1692.3	1564.0	1415.2	1259.4	1073.5	891.5	685.9	516.4	346.6
22.5°	1975.0	1849.8	1726.3	1598.1	1452.5	1293.7	1111.1	915.8	716.9	535.9	360.5
20°	2006.6	1884.3	1756.1	1627.2	1484.8	1323.9	1144.6	938.4	744.5	553.1	370.7
17.5°	2035.2	1915.1	1781.5	1651.9	1512.7	1348.5	1173.0	957.5	768.4	567.3	378.4
15°	2059.1	1937.7	1802.8	1671.8	1534.3	1369.4	1194.4	975.1	788.4	576.3	383.8
12.5°	2077.3	1955.1	1821.7	1687.8	1550.4	1387.2	1212.0	993.4	804.4	582.6	389.4
10°	2089.8	1968.7	1836.2	1699.9	1562.6	1401.1	1225.3	1007.5	812.3	586.3	396.1
7.5°	2098.2	1977.8	1845.9	1707.9	1570.4	1410.8	1233.6	1017.3	815.3	587.4	399.8
5°	2103.0	1982.4	1850.5	1711.8	1574.2	1416.1	1237.8	1022.5	815.1	586.0	400.5
2.5°	2102.9	1982.4	1850.3	1711.6	1574.1	1417.0	1237.9	1022.8	811.9	582.1	398.2
0°	2097.8	1977.7	1845.6	1707.2	1570.1	1413.4	1233.8	1018.0	805.6	575.7	392.8
-2.5°	2090.4	1970.4	1838.4	1700.2	1563.2	1406.3	1227.5	1012.7	801.7	572.9	389.8
-5°	2078.2	1958.6	1826.8	1689.1	1552.5	1394.7	1217.1	1002.2	794.7	567.6	383.7
-7.5°	2061.2	1942.3	1810.5	1673.9	1537.7	1378.7	1202.6	986.7	784.6	559.8	374.7
-10°	2040.6	1921.8	1789.5	1654.8	1518.9	1358.2	1184.1	966.2	771.3	549.4	362.8
-12.5°	2015.7	1896.3	1763.9	1631.7	1495.8	1333.5	1160.4	940.8	753.0	536.4	348.2
-15°	1984.9	1863.9	1734.5	1604.2	1468.9	1304.7	1132.2	910.9	726.7	520.7	335.3
-17.5°	1947.5	1826.6	1699.7	1572.5	1435.9	1272.1	1100.1	881.9	696.3	502.3	323.6
-20°	1907.9	1785.2	1660.5	1535.8	1395.4	1235.7	1060.4	851.4	662.0	478.4	310.4



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1861.4	1740.8	1619.7	1494.4	1350.5	1194.7	1015.1	817.3	625.0	451.4	295.7
-25°	1806.1	1691.1	1573.6	1448.8	1301.4	1149.9	964.0	781.5	585.1	421.9	277.0
-27.5°	1748.0	1635.4	1521.6	1394.9	1249.2	1098.1	906.9	742.1	545.7	387.9	254.9
-30°	1689.1	1580.1	1464.2	1333.4	1193.4	1039.2	854.1	687.4	510.4	351.3	231.2
-32.5°	1620.1	1516.4	1402.0	1268.0	1133.8	973.0	801.4	629.4	471.0	320.4	213.1
-35°	1552.9	1446.4	1327.6	1200.2	1066.4	897.8	746.5	571.7	426.8	295.5	196.3
-37.5°	1475.5	1370.0	1249.7	1129.6	989.2	829.3	678.2	518.0	379.5	266.3	179.2
-40°	1392.9	1282.7	1170.1	1050.8	902.1	760.5	604.6	465.0	329.8	232.6	161.8
-42.5°	1297.2	1193.4	1086.7	961.5	819.0	682.3	534.1	408.4	295.7	206.5	144.0
-45°	1197.1	1102.6	993.0	860.4	736.2	595.4	468.6	350.0	258.7	183.9	126.2
-47.5°	1095.5	999.5	886.2	767.6	639.8	514.7	401.7	300.6	217.2	161.0	108.1
-50°	982.6	881.4	779.2	665.2	546.1	436.5	335.1	258.0	190.6	137.9	90.1
-52.5°	853.2	762.4	665.1	558.8	454.9	361.2	283.0	211.6	162.9	115.1	74.2
-55°	725.9	638.9	547.7	457.0	369.9	295.2	231.5	181.2	135.1	93.4	59.2
-57.5°	592.6	516.3	436.3	362.4	296.5	240.3	190.6	148.2	108.3	73.6	47.6
-60°	467.0	399.7	338.2	284.9	236.7	192.1	154.5	116.9	83.0	56.4	36.8
-62.5°	349.2	300.9	259.8	219.0	186.4	152.6	118.6	88.0	62.1	43.2	26.6
-65°	256.4	224.2	191.0	169.7	142.4	112.9	86.3	63.4	46.3	30.9	18.5
-67.5°	180.2	162.9	142.9	121.3	100.0	78.3	59.5	45.6	31.9	20.5	12.7
-70°	126.7	111.1	94.9	80.3	65.8	51.8	41.6	29.5	19.9	13.0	8.9
-72.5°	78.4	68.5	58.7	48.7	42.6	33.8	23.4	17.1	12.1	8.7	6.4
-75°	43.3	39.6	35.6	29.6	22.0	17.5	12.9	10.0	7.8	6.1	5.0
-77.5°	24.1	20.0	17.4	14.2	11.6	9.1	7.7	6.7	5.6	4.8	4.0
-80°	11.9	10.5	8.8	7.9	7.1	6.3	5.5	4.8	4.2	3.6	3.2
-82.5°	7.5	6.9	6.2	5.6	4.9	4.2	3.7	3.2	3.0	2.8	2.6
-85°	5.0	4.4	3.9	3.4	3.0	2.5	2.4	2.3	2.3	2.4	2.4
-87.5°	4.0	3.6	3.2	2.8	2.5	2.1	2.1	2.2	2.2	2.3	2.3
-90°	4.8	4.7	4.6	4.5	4.4	4.3	4.2	4.0	3.9	3.7	3.6

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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	2.4	2.4	2.5	2.5	2.5	2.6	2.6
87.5°	4.1	3.7	3.4	3.2	3.0	2.8	2.6
85°	4.8	4.2	3.7	3.3	3.0	2.8	2.6
82.5°	5.7	4.8	4.1	3.5	3.1	2.8	2.6
80°	7.2	5.6	4.6	3.8	3.1	2.8	2.6
77.5°	9.4	6.7	5.1	4.0	3.2	2.8	2.6
75°	13.0	8.4	5.8	4.3	3.4	2.8	2.6
72.5°	18.3	10.9	6.5	4.7	3.5	2.8	2.6
70°	24.3	14.1	8.1	5.1	3.7	2.9	2.6
67.5°	31.6	18.0	9.6	5.5	3.8	2.9	2.6
65°	39.8	22.6	11.6	6.2	4.0	2.9	2.6
62.5°	48.8	27.7	14.0	7.0	4.2	3.0	2.6
60°	60.7	33.3	16.2	7.7	4.3	3.0	2.6
57.5°	73.0	39.4	19.5	8.5	4.5	3.0	2.6
55°	84.9	46.1	22.7	9.7	4.7	3.1	2.6
52.5°	96.3	54.8	25.8	10.7	4.9	3.1	2.6
50°	108.9	63.0	29.4	11.7	5.1	3.2	2.6
47.5°	121.1	70.6	32.7	12.8	5.4	3.2	2.6
45°	134.2	77.5	36.1	14.5	5.6	3.2	2.6
42.5°	146.4	84.8	41.1	16.0	5.8	3.2	2.6
40°	159.5	92.7	45.8	17.3	5.9	3.3	2.6
37.5°	171.6	99.8	50.0	18.5	6.0	3.3	2.6
35°	182.9	107.1	53.6	19.8	6.2	3.3	2.6
32.5°	193.3	114.0	56.8	20.9	6.5	3.3	2.6
30°	202.5	120.2	59.4	21.9	6.6	3.3	2.6
27.5°	212.2	125.9	61.6	22.7	6.7	3.4	2.6
25°	220.6	131.8	63.8	23.2	6.8	3.4	2.6
22.5°	227.5	136.8	66.4	23.6	6.8	3.4	2.6
20°	233.2	140.9	68.5	24.2	6.7	3.4	2.6
17.5°	238.3	144.1	70.0	25.1	6.6	3.4	2.6
15°	241.9	146.5	71.1	25.7	6.5	3.4	2.6
12.5°	244.0	147.9	71.6	26.1	6.4	3.4	2.6
10°	244.7	148.5	71.7	26.2	6.2	3.3	2.6
7.5°	244.0	148.2	71.2	26.0	6.0	3.3	2.6
5°	241.9	147.1	70.3	25.6	5.7	3.3	2.6
2.5°	238.5	145.1	68.9	25.0	5.5	3.3	2.6
0°	233.9	142.4	67.1	24.2	5.2	3.3	2.6
-2.5°	232.7	141.6	66.7	24.0	5.2	3.2	2.6
-5°	230.2	140.0	65.8	23.6	5.2	3.2	2.6
-7.5°	226.7	137.6	64.6	23.0	5.2	3.2	2.6
-10°	222.0	134.5	62.9	22.2	5.1	3.2	2.6
-12.5°	216.2	130.6	60.9	21.2	5.1	3.2	2.6
-15°	209.3	125.9	58.5	20.1	5.0	3.2	2.6
-17.5°	201.4	120.6	55.7	18.7	5.0	3.2	2.6
-20°	192.5	114.5	52.5	17.1	4.9	3.2	2.6

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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	183.4	107.7	49.0	16.0	4.8	3.1	2.6
-25°	173.7	100.3	45.2	15.2	4.7	3.1	2.6
-27.5°	163.2	92.2	42.1	14.3	4.6	3.1	2.6
-30°	151.8	84.7	39.0	13.3	4.5	3.0	2.6
-32.5°	140.1	77.2	35.8	12.3	4.3	3.0	2.6
-35°	127.7	69.2	32.3	11.2	4.2	3.0	2.6
-37.5°	114.7	61.3	28.6	10.1	4.0	2.9	2.6
-40°	101.4	54.3	24.8	9.0	4.0	2.9	2.6
-42.5°	87.5	46.9	20.8	8.0	3.9	2.9	2.6
-45°	75.8	40.4	16.7	6.8	3.8	2.9	2.6
-47.5°	63.7	34.6	14.4	5.7	3.7	2.8	2.6
-50°	53.7	28.6	12.4	5.2	3.6	2.8	2.6
-52.5°	44.0	23.0	10.4	4.8	3.4	2.8	2.6
-55°	35.8	17.3	8.7	4.5	3.3	2.7	2.6
-57.5°	27.6	13.7	7.1	4.2	3.2	2.7	2.6
-60°	20.6	11.0	5.5	3.9	3.1	2.7	2.6
-62.5°	14.5	8.6	5.0	3.7	3.0	2.6	2.6
-65°	11.1	6.6	4.5	3.5	2.9	2.6	2.6
-67.5°	8.3	5.3	4.0	3.3	2.8	2.6	2.6
-70°	6.0	4.6	3.7	3.1	2.8	2.6	2.6
-72.5°	5.0	4.0	3.3	2.9	2.7	2.6	2.6
-75°	4.1	3.5	3.1	2.8	2.6	2.6	2.6
-77.5°	3.4	3.1	2.8	2.7	2.5	2.6	2.6
-80°	2.9	2.7	2.6	2.6	2.5	2.6	2.6
-82.5°	2.5	2.5	2.5	2.5	2.5	2.6	2.6
-85°	2.4	2.4	2.4	2.5	2.5	2.6	2.6
-87.5°	2.4	2.4	2.5	2.5	2.5	2.6	2.6
-90°	3.5	3.3	3.2	3.0	2.9	2.7	2.6

(END OF REPORT)